



REMEDIAL INVESTIGATION

WORK ASSIGNMENT C007540-4

**FORMER KLINK COSMO CLEANERS SITE
GREENPOINT/EAST WILLIAMSBURG INDUSTRIAL AREA**

**SITE NO. 224130
KINGS (C), NY**

Prepared for:
**NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
625 Broadway, Albany, New York**

Joseph Martens, Commissioner

**DIVISION OF ENVIRONMENTAL REMEDIATION
REMEDIAL BUREAU B**

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Buffalo, New York 14203**

PHASE II REMEDIAL INVESTIGATION
FOR THE
FORMER KLINK COSMO CLEANERS SITE
SITE ID NO. 224130
BROOKLYN, KINGS COUNTY, NEW YORK

PREPARED FOR:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
REMEDIAL BUREAU B
WORK ASSIGNMENT NUMBER C007540-4

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LIST OF ACRONYMS AND ABBREVIATIONS

AARCO	AARCO Environmental Services Corporation
ACME	ACME Architectural Products, Inc.
ADT	Aquifer Drilling & Testing, Inc.
aka	also known as
Albert	Albert Plating Works, Inc.
amsl	above mean sea level
ASP	Analytical Services Protocol
AST	above ground storage tank
ASTM	American Society for Testing and Materials
bgs	below ground surface
BP	British Petroleum
BQE	Brooklyn-Queens Expressway
BTEX	benzene, toluene, ethylbenzene, and xylenes
cis-1,2-DCE	cis-1,2-dichloroethene
CD	compact disc
cm/sec	centimeters per second
COC	chain-of-custody
Con Edison	Consolidated Edison Company of New York, Inc.
CPCs	chemicals of potential concern
CRA	Conestoga-Rovers & Associates
CSIA	compound-specific isotope analysis
DCA	dichloroethane
DCE	dichloroethene, aka dichloroethylene
1,2-DCE	1,2-dichloroethene
4,4-DDD	dichlorodiphenyldichloroethane
4,4-DDE	dichlorodiphenyldichloroethylene
4,4-DDT	dichlorodiphenyltrichloroethane
DEP	Department of Environmental Protection
DI	drop inlet
DNAPL	dense non-aqueous phase liquid
DO	dissolved oxygen
DOB	Department of Buildings
DOT	Department of Transportation
DSNY	City of New York Department of Sanitation
DUSR	Data Usability Summary Report
EDR	Environmental Data Resources, Inc.
ELAP	Environmental Laboratory Approval Program
EM	electromagnetic
EPM	Environmental Planning and Management, Inc.
EPNER	EPNER Technology, Inc.
ESA	Environmental Site Assessment
ExxonMobil	ExxonMobil Brooklyn Terminal
FAP	Field Activities Plan
FDNY	City of New York Fire Department

LIST OF ACRONYMS AND ABBREVIATIONS

ft/ft	foot per foot
FOIL	Freedom of Information Law
FSP	Field Sampling Plan
FWRIA	Fish and Wildlife Resources Impact Analysis
GPR	ground penetrating radar
HASP	Health and Safety Plan
HDPE	high density polyethylene
HHEA	Human Health Exposure Assessment
ID	inside diameter
IDW	investigation derived wastes
Impact Environmental	Impact Environmental Consulting, Inc.
JCB	J.C. Broderick & Associates, Inc.
Klink Cosmo	former Klink Cosmo Cleaners
L	liter
LNAPL	light non-aqueous phase liquid
LQG	large quantity generator
MEK	methyl ethyl ketone
mg/kg	milligrams per kilogram (parts per million)
MGP	manufactured gas plant
mL	milliliter
MIP	membrane interface probe
MW	monitoring well
mV	millivolts
Mt. Tom	Mt. Tom Generating Co. LLC Analytical Laboratory
MTBE	Methyl tert-butyl ether
NAD83	North American Datum of 1983
NAPL	non-aqueous phase liquid
NAVD	North American Vertical Datum
NYC	New York City
NYCDEP	New York City Department of Environmental Protection
NYCDOB	New York City Department of Buildings
NYCRR	New York Codes, Rules and Regulations
NYS	New York State
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
NYSDOT	New York State Department of Transportation
NWI	National Wetland Inventory
Off-Site System	Off-Site Free-Product Recovery System
OD	outside diameter
ORP	oxidation/reduction potential
Pace	Pace Analytical Services, Inc.
PAHs	polycyclic aromatic hydrocarbons
PCBs	polychlorinated biphenyls
PCE	tetrachloroethene or perchloroethene or tetrachloroethylene or perchloroethylene

LIST OF ACRONYMS AND ABBREVIATIONS

PID	photoionization detector
ppbv	parts per billion by volume
ppm	parts per million
PVC	polyvinyl chloride
QA/QC	quality assurance/quality control
QAPP	Quality Assurance Project Plan
RAGS	Risk Assessment Guidance for Superfund
RCRA	Resource Conservation and Recovery Act
redox	oxidation/reduction
RI	Remedial Investigation
Roux	Roux Associates, Inc.
RSI	Radar Solutions International
SAP	Sampling and Analysis Plan
SC	Site Characterization
SCGs	standards, criteria and guidance values
SPDES	Spill Discharge Elimination System
Spectrum	Spectrum Analytical, Inc.
SQG	small quantity generator
SVE	soil vapor extraction
SVOCs	semi-volatile organic compounds
3 rd Rock	3 rd Rock, LLC
TAGM	Technical and Administrative Guidance Memorandum
TAL	Target Analyte List
TCE	trichloroethene or trichloroethylene
TCL	target compound list
TICs	tentatively identified compounds
TKN	total kjedahl nitrogen
TOC	total organic carbon
TOGS	Technical and Operational Guidance Series
1,1,1-TCA	1,1,1-trichloroethane
µg/kg	micrograms per kilogram (parts per billion)
µg/L	micrograms per liter (parts per billion)
µg/m ³	micrograms per cubic meter
USCG	United States Coast Guard
USCS	Unified Soil Classification System
USFWS	United States Fish and Wildlife Service
URS	URS Corporation – New York
USEPA	United States Environmental Protection Agency
UST	underground storage tank
VC	vinyl chloride
VOCs	volatile organic compounds
Zebra	Zebra Environmental Corporation

1.0 INTRODUCTION

This Remedial Investigation (RI) Report has been prepared to summarize the field activities and analytical results from the RI Phases I and II field investigation at the Former Klink Cosmo Cleaners (Klink Cosmo) Site (New York State Department of Environmental Conservation [NYSDEC] Site Number 224130) in the Greenpoint/East Williamsburg Industrial Area section of Brooklyn, New York. The work for this site was issued to URS Corporation – New York (URS) as Work Assignment No. C007540-4. This report presents data and information gathered prior to and during the RI Phase I field investigation, which was conducted from May 2 through July 15, 2011; data collected during the Meeker Avenue Plume Trackdown Site Characterization (SC) Phase VI field investigation; and data from the RI Phase II field investigation, which was conducted from February 27, 2012 through April 20, 2012.

1.1 Site Background

The Klink Cosmo Site is located in the Greenpoint/East Williamsburg Industrial Area section of the Borough of Brooklyn, New York (Figure 1-1). The Klink Cosmo Site is located within the Meeker Avenue Plume Trackdown Site (NYSDEC Site Number 224121) investigation area. Based on data gathered during investigations at the Meeker Avenue Plume Trackdown Site conducted between May 2007 and July 2009, and a groundwater sampling event in November 2009, a source of groundwater contamination was identified originating from near the buildings housing the Former Klink Cosmo Cleaners, which was located at 368 Richardson Street (Tax District of Brooklyn, Block 02860, Lot 0001). In January 2009, the above mentioned source of groundwater contamination was listed as a NYSDEC Class 2 Inactive Hazardous Waste Disposal Site (Site Number 224130). Geographical site and background information is provided in the following sections.

1.1.1 Site Location and Description

The area is a mixture of residential and manufacturing, including both commercial and industrial facilities. The Klink Cosmo property is currently being used for sheet metal fabrication. The entire site property and the majority of the project area are covered by one-story buildings and/or pavement/concrete. The area associated with the Klink Cosmo Site consists of the area bound by Lombardy Street to the north, Porter Avenue to the east, Withers Street to the south and Morgan Avenue to the west. Residential areas are found along Beadel Street between Morgan Avenue and Porter Avenue; interspersed along Morgan Avenue between Lombardy Street and Beadel Street; and

along Vandervoort Avenue between Lombardy Street and Division Place. A public recreational area (baseball diamonds) is located across Vandervoort Avenue from the Site.

The area east of the Site across from Vandervoort Avenue includes the previous location of the two manufactured gas plant (MGP) gas holders which were part of a Brooklyn Union Gas Company former MGP site. The 400-foot tall gas holders were constructed in 1927 and 1948, and used until the 1990s by the Brooklyn Union Gas Company, a predecessor to KeySpan, currently National Grid. The gas holders, used to help maintain consistent gas pressure to customers, were removed via a controlled implosion in July 2001.

The Klink Cosmo Site is located south of a region of historic petroleum refining and storage operations that occupied a significant portion of the Greenpoint area. By 1870 over 50 refineries were located along the banks of Newtown Creek located northeast of the Site. Currently, bulk oil storage terminals exist north of the Site, including the British Petroleum (BP) Terminal and the ExxonMobil Brooklyn Terminal (ExxonMobil). The former Paragon Oil facility was located along Newtown Creek, north of Bridgewater Street, between Meeker Avenue and Apollo Street.

In September 1978, the United States Coast Guard (USCG) noted the signs of an oil spill entering Newtown Creek from the northeastern end of Meeker Avenue. A subsequent investigation concluded that the area of the spill under the Greenpoint/East Williamsburg Industrial Area was in excess of 52 acres and the total spill volume, as estimated in 1979, was approximately 17 million gallons of petroleum products as documented by Roux Associates, Inc. (Roux) (Roux, October 14, 2005). The current BP property was determined to be the source of a petroleum free-product plume located generally north of the Brooklyn-Queens Expressway (BQE). Investigation and remediation activities were conducted by Roux on behalf of ExxonMobil from 1990 to the present further defining the extent of the Off-Site plume. The Off-Site Plume area consists of the area underlain by the petroleum-free product plume that is not on the BP Terminal or the Peerless, Inc. properties. Currently, the extent of the Off-Site Plume area is less than what it was in 1990 due to the operation of the Off-Site Free-Product Recovery System (Off-Site System). The Off-Site System has recovered over 6,000,000 gallons of free-product since it became operational in 1995 (Roux, August 12, 2011). Based upon water level information, some hydraulic influence associated with the operation of the product recovery system has been noted in the Klink Cosmo Site area.

1.1.2 Summary of Records Search

Based on the results of several investigations conducted in the area (see Section 1.1.3 for more details), chlorinated solvents such as tetrachloroethene (PCE) and trichloroethene (TCE) were found in soil vapor, soil, and groundwater in areas outside the historic petroleum spill. As these chemicals are not related to petroleum, the NYSDEC initiated the Meeker Avenue Plume Trackdown Site investigation in order to determine the source(s) of this contamination. Information was gathered relevant to the Klink Cosmo Site and other nearby potential contamination sources as part of these previous investigations. These potential source areas are shown on Figure 1-2.

1.2 Findings of Previous Investigations and Phases of Site Investigation Fieldwork

1.2.1 Previous Investigations

Impact Environmental Consulting, Inc. - March 1998

In March 1998, Impact Environmental Consulting, Inc. (Impact Environmental) conducted a Phase I Environmental Site Assessment (ESA) at 46-60 Anthony Street/ 95 Lombardy Street for ACME Architectural Products Inc., of Brooklyn, New York (ACME) (Impact Environmental, March 30, 1998a). A copy of the Phase I ESA may be found in PDF format on a compact disc which is included in Appendix A of the Phase IV Data Summary Report (URS, May 2009). The property historically had been utilized for iron working, metal shearing and finishing operations. At the time of the ESA, operations at the property included office space and operational space. The operational space was utilized for the machining, finishing, and storage of materials and products used in the manufacture of doors and knock down frames. The ESA identified a number of potential contamination sources that existed on the property due to current and/or past site activities. Numerous floor drains were identified throughout the building and their outfall locations were unknown. It was suspected that some drains may have discharged directly to on-site soils. Several underground storage tanks (USTs) and above ground storage tanks (ASTs) were identified and had been used for fuel oil storage and storage of degreasing products, respectively. It was noted that at the time of the ESA the facility was using a phosphate wash and rinse as a degreaser. During a personal interview, it was revealed that any regulated waste (i.e., waste paint, waste oil, waste degreaser and waste water precipitate) generated at the property was stored in the yard at 72 Anthony Street prior to disposal.

Impact Environmental Consulting, Inc. - March 1998

In March 1998, Impact Environmental conducted a Phase I ESA at 72 Anthony Street for ACME (Impact Environmental, March 30, 1998b). A copy of the Phase I ESA may be found in PDF format on a compact disc which is included in Appendix A of the Phase IV Data Summary Report (URS, May 2009). The property historically had been utilized as a brass foundry and civilian observation patrol. Operations on the property at the time of the ESA included office space and operational space. The operational space was utilized for the grinding, sanding and finishing of steel doors. The investigation identified a number of potential contamination sources that existed on the property due to current and/or past site activities. Numerous floor drains were identified throughout the building and their outfall locations were unknown. It is suspected that some drains may have discharged directly to on-site soils. One UST and one AST dip tank existed and were used for fuel oil storage and storage of degreasing products, respectively. It was noted that at the time of the ESA, the facility was using a phosphate wash and rinse as a degreaser. It was also noted that the floor of the room containing the AST dip tank was impacted by the release of degreasers from the dip tank. In addition, significant storage of portable chemical containers was observed in the building. A paint room was identified in the center of the building, as was an associated paint storage room. The floor of the paint room was significantly stained by painting operations. Floor drains were observed in the paint storage room. A chemical storage area existed outside and to the east of the building and a bermed, concrete storage pad was also observed. Numerous chemical containers were noted outside the building and consisted of 55-gallon drums and smaller containers of primers, cutting oils, hydraulic oils, waste water, xylene, waste paints, adhesives, waste degreasers, steam cleaners and waste oil contaminated absorbents. However, most of the drums were located outside the bermed, concrete storage pad and were uncovered or missing screw caps. Two dry wells were identified along the south side of the building. In addition, during a personal interview it was revealed that the property previously maintained two dip tanks for degreasing. It was noted that a Phase I ESA was previously performed on the property in June 1995 by Conestoga-Rovers & Associates (CRA). The CRA Phase I revealed that 1,1,1-trichloroethane (1,1,1-TCA) was formerly utilized in the dip tanks and that a floor drain was observed under one of the dip tanks.

Impact Environmental Consulting, Inc. - June 1998

In June 1998, Impact Environmental conducted a Phase II ESA at 46-60 Anthony Street/ 95 Lombardy Street for ACME (Impact Environmental, June 1998). A copy of the Phase II ESA may be found in PDF format on a compact disc which is included in Appendix A of the Phase IV Data Summary Report (URS, May 2009). The scope of the Phase II ESA was based on the recommendations of the Phase I ESA and included a remote survey [i.e., ground penetrating radar (GPR)] of a floor drain located in the northeast portion of the building and the collection of a sample from 0-2 feet below ground surface (bgs) below the floor drain. The remote survey conducted confirmed that the floor drain directly discharged to the subsurface soils. A soil sample collected from the 0-2 foot interval below the floor drain contained the volatile organic compounds (VOCs) PCE and TCE, at 1,190 and 99.2 micrograms per kilogram ($\mu\text{g/kg}$), respectively. In addition, the semi-volatile organic compounds (SVOCs) di-n-butylphthalate, pyrene and bis (2-ethylhexyl) phthalate were detected at 4,460, 539 and 1,690 $\mu\text{g/kg}$, respectively. Metals which included arsenic (4.93 milligrams per kilogram [mg/kg]), barium (114 mg/kg), cadmium (6.53 mg/kg), chromium (123 mg/kg), lead (906 mg/kg) and mercury (0.045 mg/kg) were also detected. Cadmium, chromium and lead exceeded their respective criteria found in the Technical and Administrative Guidance Memorandum (TAGM) #4046, *Determination of Soil Cleanup Objectives and Cleanup Levels* (NYSDEC, January 24, 1994). The Phase II ESA concluded that on-site operations had impacted the environmental quality beneath the property and recommended that corrective actions were required to mitigate the contaminated soil associated with the floor drain.

Environmental Planning and Management, Inc. – September 2005

In September 2005, Environmental Planning and Management, Inc. (EPM) completed an investigation for the New York State Department of Transportation (NYSDOT) in connection with the Kosciuszko Bridge Project (EPM, January 2006). The investigation included the collection and analysis of soil and groundwater samples. PCE was also detected at a concentration of 89.9 micrograms per liter ($\mu\text{g/L}$) in ExxonMobil monitoring well MW-018 (east side of Vandervoort Avenue between Anthony and Cherry Streets).

Roux Associates – September 2005

In September 2005, Roux Associates on behalf of ExxonMobil sampled soil vapor at 23 temporary locations in and around the perimeter of the Off-Site Plume area (Roux, October 14, 2005). The soil vapor samples collected in September 2005 indicated the presence of PCE at a concentration of 10,200 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) at a monitoring point located on the southwest corner of the Vandervoort Avenue and Anthony Street intersection. It was determined that the chlorinated solvents detected (i.e., PCE and TCE) were from a different source than the petroleum free product plume.

1.2.2 Previous Investigations by URS

To date, URS has conducted six phases of site investigation fieldwork at the Meeker Avenue Plume Trackdown Site. Data gathered during the Phase I, II, III, and VI field activities and the September 2009 Groundwater Split Sampling event and the November 2009 Groundwater Sampling Event field activities are relevant to the Klink Cosmo site. The Phase IV activities were focused in an area to the northeast of the Klink Como Site. The Phase V activities were focused in an area to the northwest of Klink Cosmo. Sample locations and PCE/TCE results from these investigations relevant to the Klink Cosmo Site Investigation Area, the extent of which is shown on Figure 1-2, are shown on Figure 1-3 for soil vapor, Figure 1-4 for groundwater, and Figure 1-5 for soil.

1.2.2.1 Summary of SC Phase I Findings

The Phase I field investigation was conducted from May 7 through July 10, 2007. The field activities of Phase I were primarily focused on locations that were identified as potential historic users of PCE and/or TCE during the historical information review. A complete description of the field investigation and results may be found in the Phase I Data Summary Report (URS, October 2007).

Based upon the results of the Phase I field investigation, the following conclusions were made about the vicinity of the Klink Cosmo Site:

- Soil vapor samples indicated that PCE and TCE have impacted soil vapor quality. Elevated soil vapor concentrations appear to be identified near locations that potentially have used PCE and TCE.

- Groundwater samples indicated that groundwater has been impacted above NYSDEC TOGS 1.1.1 Class GA groundwater standards for both PCE and TCE. Elevated groundwater concentrations appear to be identified near locations that potentially have used PCE and TCE.

1.2.2.2 Summary of SC Phase II Findings

The Phase II field investigation was conducted from November 5 through December 27, 2007. The field activities of Phase II were primarily focused on investigating and delineating the extent of impacted soil vapor, soil and/or groundwater at locations where elevated concentrations of PCE and/or TCE were encountered during the Phase I field investigation. A complete description of the field investigation and results may be found in the Phase II Data Summary Report (URS, April 2008).

Based upon the results of the Phase II field investigation, the following conclusions were made about the vicinity of the Klink Cosmo Site:

- There appear to be areas of elevated soil vapor concentrations in the area next to the former Klink Cosmo Cleaners building.
- There appear to be potential source areas where dissolved phase chlorinated solvents have adversely impacted shallow groundwater in the Klink Cosmo Site Area.

1.2.2.3 Summary of SC Phase III Findings

The Phase III field investigation was conducted from May 5 through July 24, 2008. The purpose of the Phase III fieldwork was to fill any data gaps identified during Phase II concerning the horizontal extent of impacted soil vapor at areas identified; determine if impacted soils existed at one potential source area; determine the horizontal extent of impacted shallow groundwater at the potential sources; and to assess the vertical extent of impacted groundwater at each of the potential sources. Activities included submitting Freedom of Information Law (FOIL) requests to the New York City (NYC) Fire Department (FDNY), NYC Department of Buildings (NYCDOB), and the NYC Department of Environmental Protection (NYCDEP) for records on potential sources. A complete description of the field investigation and results may be found in the Phase III Data Summary Report (URS, October 2008).

Based upon the results of the three phases of the field investigation, the following conclusions were made about the vicinity of the Klink Cosmo Site:

- The former and current metal works (ACME Steel Metals Works) located at 95 Lombardy was identified as a source of groundwater contamination. Groundwater samples from monitoring wells indicate significant TCE contamination and the potential presence of dense non-aqueous phase liquids (DNAPL) given the increasing TCE concentrations with depth.
- A former brass foundry located at 72 Anthony has been identified as source of soil and groundwater contamination. Soil samples from DEC-016 and SB-08, located at the northeast corner of the facility along Anthony Street, indicate PCE contamination adjacent to this facility. Monitoring wells DEC-016 and DEC-016D are located on the Anthony Street (north) side of the facility. Groundwater samples from these wells indicate significant PCE and TCE contamination. The PCE contamination is in the shallow groundwater zone, indicating the contamination is near its source. Although PCE, TCE and their associated degradation products have been found in groundwater samples from surrounding upgradient, downgradient and side gradient wells, the concentrations are one to two orders of magnitude lower than in DEC-016/016D.
- The former Klink Cosmo Cleaners, located at 364 Richardson Street was identified as a source of groundwater contamination. Monitoring wells DEC-031 and DEC-031D are located on the southwestern corner of Vandervoort Avenue and Richardson Street (northeast building corner). Soil vapor and groundwater samples indicate significant PCE and TCE contamination at the northeastern corner of the building.

1.2.2.3.1 SC Phase III Source Characterization

Using data obtained during the three Phases of the investigation [i.e., historical information (e.g., Sanborn maps, EDR reports, and business directories) soil vapor data, soil data, and groundwater data], four sources and two potential sources of PCE and/or TCE contamination were identified within the study area. The description and location of the three sources identified within and around the Klink Cosmo area is described below.

Sources

- The former and current metal works located at 95 Lombardy (Brooklyn Tax District, Block 02819, Lot 0008) was identified as a source of groundwater contamination. Based on Sanborn map data, the facility has been utilized from the 1930s to approximately 2009 as a metal fabricator and painting facility. ACME is listed in an Environmental Data Resources, Inc. (EDR) report as a generator of F001 waste (spent halogenated solvents used in degreasing) for this facility. Monitoring wells DEC-005 and DEC-005D are located on the western side of the building on Vandervoort Avenue. Groundwater samples from these wells indicate significant TCE contamination and the potential presence of DNAPL given the increasing TCE concentrations with depth.
- A former brass foundry located at 72 Anthony Street (Brooklyn Tax District, Block 02820, Lot 0005) was identified as a source of soil and groundwater contamination. Based on Sanborn map data, the facility was utilized as a brass foundry from the mid-1960s to approximately 1993. ACME is listed in the EDR report as a generator of F001 waste (spent halogenated solvents used in degreasing) for this facility. Soil samples from DEC-016 and SB-08, located at the northeastern corner of the facility along Anthony Street, indicate shallow PCE contaminated soils are located adjacent to this facility. Monitoring wells DEC-016 and DEC-016D are located on the Anthony Street (north) side of the facility. Groundwater samples from these wells indicate significant PCE and TCE contamination.
- The former Klink Cosmo Cleaners, located at 364 Richardson Street (Tax District of Brooklyn, Block 02860, Lot 0001) was identified as a source of groundwater contamination. The facility is shown on Sanborn Maps to be a clothing warehouse from the mid-1950s until sometime after 1995. Klink Cosmo Cleaners is listed in the EDR report as a generator of F002 waste (spent halogenated solvents) for this facility. Monitoring wells DEC-031 and DEC-031D are located on the southwestern corner of Vandervoort Avenue and Richardson Street (northeast building corner). Soil vapor and groundwater samples indicate significant PCE and TCE contamination at the northeastern corner of the building.

Potential Sources

One potential source was identified to the northeast of the Klink Cosmo area.

- The facility that contained a former soap manufacturer and lacquer storage, located at 171 Lombardy Street (Brooklyn Tax District, Block 02821, Lot 0001), is a potential source of groundwater contamination. Based on Sanborn map data, the facility was utilized during the 1930s for lacquer storage and as a manufacturer of powdered soap from the early 1950s to 1989. Monitoring wells DEC-018 and DEC-018D are located on the Varick Avenue or western side of the building, near Lombardy Street. Groundwater samples from these wells indicate significant PCE and TCE contamination. The PCE and TCE contamination in the shallow groundwater zone is centered on DEC-018, suggesting the contamination is near its source.

1.2.2.4 Summary of SC Phase IV Investigation Findings

The Phase IV field investigation was conducted from November 3 through December 8, 2008. The investigation area for Phase IV was limited to the area south of Meeker Avenue, in the area located east of, but not including DEC-016/016D and DEC-040 (i.e., between Porter and Varick Avenues) to the eastern boundary of the site investigation area (i.e., Newtown Creek). In addition, the NYSDEC directed URS to obtain and review additional Sanborn maps for the area bound by Meserole Avenue to the north, Sutton Avenue to the east, Nassau Avenue to the south and Humboldt Street to the west. The purpose of the review of the additional Sanborn maps was to confirm the report of a dry cleaner north of Norman Avenue and west of Kingsland Avenue. The extent of the Phase IV fieldwork was concentrated to the northeast of the Klink Cosmo site and is not relevant to this investigation. A complete description of the field investigation and results may be found in the Phase IV Data Summary Report (URS, May 2009).

1.2.2.4.1 SC Phase IV Source Characterization

Sources

No additional sources were identified within the Klink Cosmo area.

Potential Sources

No additional potential sources were identified within the Klink Cosmo area.

1.2.2.5 Summary of SC Phase V Investigation Findings

The Phase V field investigations were conducted from June 15 through July 13, 2009. The extent of the Phase V fieldwork was concentrated to the northwest of the Klink Cosmo Site and is not relevant to this investigation. A complete description of the field investigation and results may be found in the Phase V Data Summary Report (URS, October 2009).

1.2.2.6 Groundwater Split Sampling and Compound-Specific Stable Isotope Analysis

In September, 2009, URS obtained split samples from eight groundwater monitoring wells (DEC-004, DEC-005, DEC-008, DEC-016, DEC-017, DEC-018, DEC-022, MW-18) being sampled by J.C. Broderick & Associates, Inc. (JCB) personnel on behalf of ACME. These monitoring wells were from the vicinity of the identified ACME Steel source areas. Groundwater samples were analyzed for compound-specific isotope analysis (CSIA) of cis-1,2-dichloroethene (cis-1,2-DCE), PCE and TCE. A complete description of the field investigation and results may be found in the Groundwater Split Sampling Letter Report (URS, February 2010).

Based upon the results obtained during the groundwater split sampling event, the following conclusions and recommendations were provided in the Groundwater Split Sampling Letter Report.

- DEC-016 and DEC-017 seem to be affected by the same source.
- While DEC-018 is strongly affected by the same source that impacts DEC-016 and DEC-017, it is likely that it is also affected by a second source of a particularly light TCE.
- DEC-004 and DEC-005 are affected by separate sources.
- DEC-022 seems to be affected by the same source which has impacted DEC-016 and DEC-017.
- DEC-008 appears to be affected by a separate source (i.e., Klink Cosmo site) and not that affected by the sources impacting any other wells.
- Shallow monitoring wells were recommended to be installed southwest of DEC-004 to determine if there is an upgradient source of the TCE that has been detected in DEC-004.

1.2.2.6.1 Groundwater Split Sampling Source Characterization Sources

No additional sources were identified within the Klink Cosmo area.

Potential Sources

One potential source of TCE was identified to the west of the Klink Cosmo Site. CSIA sampling results have indicated the presence of a potential unidentified source of TCE located to the southwest of DEC-004 based on the presence of a heavier carbon isotope found in the TCE in DEC-004 compared to that in DEC-005. The shallow groundwater flow has been shown to be to the east from DEC-004 towards DEC-005. Any source identified upgradient of DEC-004 would be considered sidegradient to upgradient of the Klink Cosmo Site.

1.2.2.7 2009 Groundwater Sampling Event

From November 3 through November 9, 2009, URS personnel collected groundwater samples from 20 monitoring wells in the vicinity of the Klink Cosmo Site. PCE was detected in 19 of the 20 groundwater samples, with 17 locations at concentrations exceeding groundwater criteria. TCE was detected in 16 of the 20 groundwater samples collected, with 10 locations exceeding groundwater criteria. PCE and TCE degradation products were detected at concentrations exceeding groundwater criteria, and similar to concentrations found during Phase III groundwater sampling. A complete description of the field investigation and results may be found in the November 2009 Groundwater Sampling Event Letter Report (URS, January 2010).

1.2.2.8 Summary of SC Phase VI Investigation Findings

The Phase VI field investigation was conducted from August 2, 2011 through October 28, 2011 and November 15, 2011 through January 13, 2012 as part of the overall SC at the Meeker Avenue Plume Trackdown Site. The purpose of the Phase VI fieldwork was to assist in determining: if there are additional potential sources of PCE and TCE impacting groundwater at the site; the horizontal and vertical extent of PCE and TCE impacted groundwater across the site; the depth and areal extent of any DNAPL found at the top of the clayey silt unit; and, to establish a baseline for groundwater sample results which will be used to assess the potential for natural attenuation in groundwater. Using data obtained during Phases I, II, III, V, and VI, the following conclusions were provided in the Phase VI Report for the Klink Cosmo area. A complete description of the field investigation and results may be found in the Phase VI Data Summary Report (URS, April 2012).

1.2.2.8.1 Geology

- The potentiometric surface may be found between approximately 11 and 55 feet bgs across the Meeker Avenue Plume Trackdown Site.
- A perched shallow groundwater zone was identified in the area West of Morgan Avenue. Groundwater flow in this area is towards the east.
- The flow of the shallow overburden groundwater in the Klink Cosmo area was to the north/northeast. The flow of the deep overburden groundwater in the Klink Cosmo Area was to the northeast. The flow of the top of clay overburden groundwater in the Klink Cosmo area was to the northeast/northwest.
- The entire thickness of the upper glacial aquifer has been penetrated throughout most of the Meeker Avenue Plume Trackdown Site and in the Klink Cosmo area it varies from approximately 108.5 to 113 feet thick.
- The top of the Raritan Formation (i.e., a regional aquiclude) was encountered across the Meeker Avenue Plume Trackdown Site. The elevation of the top of the Raritan Formation in Klink Cosmo area varied between -73.31 to -74.05 feet above mean sea level (amsl) and has been described as gray with white banding, brown, brownish gray, greenish gray, dark gray to greenish brown, fine sand and silt, clays mixed with carbonized plant fragments and clays with varying amounts of sand, to silts with varying amounts of sand and clay. The top of the Raritan Formation slopes towards the northwest. The Raritan Formation is a well-defined aquiclude regionally and has significant lateral extent. Permeabilities within the unit are less than 10^{-6} centimeters per second (cm/sec).

1.2.2.8.2 Soil

There were no exceedances of unrestricted use or protection of groundwater criteria in soil samples from either the Klink Cosmo Area or West of Morgan Avenue. This is consistent with information from previous phases of the SC.

1.2.2.8.3 Groundwater

PCE and its degradation products were detected in numerous groundwater monitoring wells in both the shallow and deep overburden groundwater as well as in downgradient top of clay monitoring wells. High concentrations of PCE were detected at the site (DEC-031) in the shallow overburden groundwater at a concentration of 5,800 µg/L; and downgradient of the site to the northeast (DEC-014R) at a concentration of 46,000 µg/L; (DEC-029/029D/029TC) at concentrations of 4,400, 27 and 4,400 µg/L, respectively; (DEC-007/007D) at concentrations of 1,400 and 400 µg/L, respectively, and (DEC-006D/006DD) at concentrations of 8,000 and 440 µg/L, respectively; and to the north (DEC-008) at a concentration of 3,000 µg/L, and DEC-028 at a concentration of 3,100 µg/L. TCE and cis-1,2-DCE were generally detected above criteria where PCE was detected. Vinyl chloride (VC) was detected above criteria only in DEC-009 (36 µg/L). BTEX and/or fuel-related compounds were generally not detected within the Klink Cosmo area.

Based upon the observed concentrations of VOCs from the latest groundwater sampling event, a dissolved chlorinated solvent plume appears to originate at the Klink Cosmo Site. The horizontal extent of the chlorinated solvents has been mostly delineated. It appears that the chlorinated solvent plumes in the shallow and deep overburden have higher concentrations of PCE immediately north and east of the Klink Cosmo site. The extent of PCE has a larger footprint in the shallow groundwater compared to the deep groundwater and appears to be moving to the northeast and comingles with the dissolved chlorinated solvent plume originating within the ACME Steel Areas. The vertical extent of PCE and TCE impacted groundwater was determined to extend down to the top of the Raritan Formation. The horizontal extent of PCE impacted groundwater in the deep overburden near the top of the Raritan Formation has not fully been delineated. The impacted groundwater appears to be migrating to the northeast and extends into the ACME Steel Areas in the vicinity the intersection of Porter Avenue and Lombardy Street. The vertical extent of PCE and TCE impacted groundwater is not expected to migrate below the top of the Raritan Formation due to its vast areal extent and low permeability.

1.2.2.8.4 Soil Vapor

Soil vapor samples were collected to the north and northeast of the Klink Cosmo area during the SC Phase VI field investigation. In general, the concentrations found within the Klink Cosmo Area showed no discernible trend as compared to previously sampled locations. Concentrations at

some locations were different from the last sampling events by up to three orders of magnitude. This may be attributed to a significant amount of precipitation that had occurred prior to the soil vapor sampling event on August 17 and 18, 2011. For example, SG-042 was sampled in June 2011 and a PCE concentration of 803,000 $\mu\text{g}/\text{m}^3$ was detected. When an attempt was made to sample SG-042 on August 17, 2011, it was found to contain water. This location was re-sampled on September 29, 2011 and a concentration of 540 $\mu\text{g}/\text{m}^3$ was detected.

1.2.2.8.5 SC Phase VI Source Characterization

Sources

No additional sources were identified within the Klink Cosmo area.

Potential Sources

A total of eleven additional potential source areas have been identified west of the Klink Cosmo Site. The eleven potential source areas have been identified as areas where additional information needs to be gathered to determine if any of these areas are responsible for, or are contributing to, the presence of PCE and/or TCE in the environment. In addition to dry cleaners, numerous other facilities that may have used PCE and/or TCE as degreasers or processed drums containing degreasers (e.g., metal plating operations, metal working facilities, and drum recycling/storage facilities) have been identified. No data was gathered during Phase VI that would definitively exonerate any of the potential sources. The potential sources are listed below.

- The facility that contained the former Belmet Products was located at 485 Morgan Avenue (Brooklyn Tax District, Block 02841, Lot 0020) and 43 Beadel Street (Brooklyn Tax District, Block 02834, Lot 0034). Belmet Products occupied these properties from at least 1951 to 1995 and worked with metal products. EDR listed the former Belmet Products as a F001 waste generator and also a Resource Conservation and Recovery Act (RCRA) small quantity generator (SQG). The Sanborn maps also indicate that the property at Block 02841, Lot 0020 was a carpet cleaner in 1933 and a garage in 1951. The Sanborn maps also indicate that the property at Block 02834, Lot 0034 was occupied by a gas station in 1933 and 1951.
- The property at 34 Beadel Street/ 45 Division Place (Brooklyn Tax District, Block 02841, Lot 0010) and 48 Beadel Street (Brooklyn Tax District, Block 02841, Lot 0018) historically contained a warehouse and plating facility from at least 1951 to 1995.

- The property at 35 Division Place (Brooklyn Tax District, Block 02841, Lot 0035) is currently, and historically has been, occupied by dry cleaning facilities (Aphrodite Cleaners, French Valet Cleaner and Naxos Cleaners). EDR listed the former French Valet Cleaners as a RCRA SQG. The Sanborn maps also indicate that the property at Block 02841, Lot 0035 was also part of the metal works found at 45 Division Place (Brooklyn Tax District, Block 02841, Lot 0010) in 1951.
- The property at 25 Division Place (Brooklyn Tax District, Block 02841, Lot 0001) currently houses EPNER Technology Inc. (EPNER), which is a metal plating business. EDR listed EPNER as a F001 waste generator and also a RCRA large quantity generator (LQG). The Sanborn maps also indicate that the property at Block 02841, Lot 0001 had been used as a wholesale paint and hardware store in 1951 and for manufacturing (not specified) from 1965 to present.
- The property at 18 Division Place (Brooklyn Tax District, Block 02849, Lot 0010) is currently occupied by Goodman Bros. Steel Drum Co. Inc. Sanborn maps indicate that the property historically has been a cooperage since 1933. EDR listed the cooperage as a F001 waste generator and also a RCRA LQG.
- The property at 297 Richardson Street (Brooklyn Tax District, Block 02850, Lot 0001) currently houses Adar Medical Uniforms. Sanborn maps indicate that the property historically contained manufacturing and steel working.
- The properties at 38 Division Place (Brooklyn Tax District, Block 02850, Lot 0010) and 42-50 Division Place (Brooklyn Tax District, Block 02850, Lot 0014), were formerly associated with Albert Plating Works Inc. (Albert). The property at Block 02850, Lot 0014 performed rayon dying in 1933. Albert occupied both properties from at least 1951 through 1995.
- The property at 87 Debevoise Avenue (Brooklyn Tax District, Block 02858, Lot 0021) performed shellac manufacturing from at least 1933 to 1995 according to Sanborn maps.
- The property at 84 Debevoise Avenue (Brooklyn Tax District, Block 02859, Lot 0001) which currently houses ELIOU and Scopelitis Steel has records at the NYSDEC as being a RCRA waste generator. The property has been occupied since at least 1965.
- The property at 310 Richardson Street (Brooklyn Tax District, Block 02859, Lot 0011) is identified on Sanborn maps as a sign manufacturer from at least 1951 to 1995.

- The property at 329 Frost Street (Brooklyn Tax District, Block 02859, Lot 0011) previously housed a drum cleaning and painting facility. Sanborn maps indicate that the property housed steel drum reconditioning and painting in 1951 and a drum cleaning and storage operations from 1965 to 1981.

1.3 Objectives of the RI

The objective of the RI is to define the horizontal and vertical extent of contamination related to the Klink Cosmo Site in soil, overburden groundwater, and soil vapor. The results of this investigation, together with data from previous investigations and additional investigations to be conducted as part of the area-wide site characterization, will be used to develop remedial action objectives and support the selection of an appropriate remedial action to address contamination related to the site.

1.4 Report Organization

This report has eight sections. Section 1 includes background information and a synopsis of URS' previous activities at this site. Section 2 includes a description of field activities that occurred during the RI fieldwork. Section 3 includes a description of the local and regional geology and hydrogeology. Section 4 discusses the nature and extent of the contamination. Section 5 presents a conceptual model and discusses contaminant fate and transport. The Qualitative Human Health Exposure Assessment (HHEA) and the Fish and Wildlife Resources Impact Analysis (FWRIA) are included in Section 6.0. Summary and Recommendations are provided as Section 7.0 in this submittal. Section 8 contains a list of references cited. Tables, Figures, and Appendices immediately follow the text.

2.0 REMEDIAL INVESTIGATION FIELD ACTIVITIES

Field activities were performed during the RI Phase I between May 2 through July 15, 2011 and during the RI Phase II between February 27, 2012 and April 20, 2012. These are discussed below. Monitoring well and soil boring locations are shown on Plate 1; soil vapor points are shown on Plate 2.

2.1 Utility Clearance

Prior to site work, each subcontractor arranged for all appropriate utility clearance mark-outs. This included (but was not limited to) contacting the NYCDEP and NYCDOT, the Transit Authority, Consolidated Edison Company of New York, Inc. (Con Edison), Keyspan, and Verizon, in addition to using the Dig-Safely number for New York City – 811 or (800) 272-4480. In addition, URS coordinated with Con Edison for the installation of protective jackets on overhead wires near several proposed boring locations. The jackets for RI Phase I field activities were installed by Con Edison on May 19, 2011. The jackets for RI Phase II were installed by Con Edison prior to the start of field activities (February 27, 2012). Photographs of jacketed overhead wires are included in Appendix A.

2.2 Geophysical Survey for Utility Markouts

On May 2 and 3, 2011 for RI Phase I and again on February 27, 2012 for Phase II, Radar Solutions International (RSI) mobilized a one person crew with GPR and electromagnetic (EM) induction equipment to the site. The purpose of the geophysical survey was to screen for and identify the presence/location of underground utilities in areas where monitoring well installations were proposed.

A 10-foot square reference grid was established around each monitoring well location prior to collecting the geophysical data. A GSSI SIR-2000 digital radar system was used to perform the GPR survey. GPR data were acquired along lines spaced 1.0 to 2.5 feet apart. The EM induction equipment used to determine the location of buried utilities was a Ditch Witch 950 RT locating system and a McLaughlin's Verifier G2 digital locator.

RSI marked utilities and anomalies by spray-painting the outline on the pavement as soon as they were located. A photograph of a completed RSI utility mark out can be found in Appendix A. A

URS geologist supervised and assisted RSI. Copies of the daily field notes are provided in Appendix B. RSI's reports are provided in Appendix C.

2.3 Soil Vapor Implant Installation

Prior to any intrusive activities, the subcontractor obtained all necessary permits (i.e., NYCDOT sidewalk permits) for conducting intrusive activities. During RI Phase I field activities, 10 permanent soil vapor implants (SG-078 through SG-087) were installed on May 6, 2011 by Zebra Environmental Corporation of Lynbrook, NY (Zebra), under the direction of a URS geologist. During RI Phase II field activities, 12 permanent soil vapor implants [11 new (SG-112 through SG-122) and 1 replacement (SG-061R)] were installed on March 1 and 2, 2012 by Zebra under the direction of a URS geologist. It should be noted that soil vapor implant SG-061 had been destroyed in the time between RI Phase I and Phase II sampling events. Locations of existing and newly installed soil vapor implants are shown on Plate 2. All locations were installed through sidewalks. Rotary concrete drill bits were used to drill through the concrete sidewalk. A track-mounted Geoprobe® 6620 DT hydraulic direct-push unit was utilized to advance a 2-inch outside diameter (OD) by 5-foot long acetate-lined Macrocore sampler to a maximum depth of 8 feet bgs.

Each sample core was screened with a photoionization detector (PID). Up to one soil sample was collected from each boring from the interval exhibiting odors, staining, or the highest PID reading. If no odors, staining, or elevated PID readings were encountered, then a sample from the bottom of the boring was collected.

A 6-inch long double-woven stainless steel Geoprobe® vapor sampling implant was connected to an anchor and positioned above the silty clay layer (if present) or at the bottom of the probe hole. Polyethylene tubing ($\frac{3}{8}$ -inch OD) was connected to the implant and was cut above the ground surface. The annular space around the implant (screen) was backfilled with #1 silica sand to 6 inches above the implant. A bentonite slurry was placed immediately above the sand for the seal, and extended to the ground surface. During the RI Phase I field activities, the implants were completed with 3-inch diameter aluminum flush-mount protective casings, secured with approximately 1 foot of concrete. Each flush mount casing cover was secured with a $\frac{9}{16}$ -inch bolt. During the RI Phase II field activities, implants were completed with 5-inch diameter aluminum flush-mount protective casings, secured with approximately 1 foot of concrete. Each flush mount casing cover was secured with $\frac{9}{16}$ -inch bolts.

All downhole equipment was decontaminated with a non-phosphate detergent and potable water between each soil vapor implant location. A photograph of a sampling implant and a completed soil vapor implant location can be found in Appendix A. Copies of the daily field notes are provided in Appendix B. Soil boring logs are provided in Appendix D and soil vapor implant construction logs are provided in Appendix E.

For the soil samples collected during installation of the soil vapor implants, a chain-of-custody (COC) form was maintained and accompanied the soil sample containers to Spectrum Analytical, Inc. of Rhode Island (Spectrum), a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) accredited laboratory. The soil samples were analyzed for target compound list (TCL) VOCs listed in Table 2-1, plus tentatively identified compounds (TICs), following United States Environmental Protection Agency (USEPA) SW846 Method 8260B.

All investigation derived wastes (IDW) generated from the soil vapor implant installation was containerized in DOT approved 55-gallon drums and picked up by AARCO Environmental Services Corporation (AARCO) on a daily basis for off-site disposal at a permitted facility.

2.4 Soil Vapor Sampling

During the RI Phase I field activities, between June 13 and 15, 2011, soil vapor samples were collected from 30 existing and newly installed soil vapor implants plus quality assurance/quality control (QA/QC) samples. Sampling locations are shown on Plate 2. An adequate soil vapor sample could not be obtained from location SG-083. It should be noted that there was no loss in the Summa® canister vacuum pressure in the attempt to collect a sample at location SG-083. It is unknown if the inability to grab a sample from the SG-083 location was due to a problem with the equipment (i.e., regulator) or the presence of water in the soil vapor implant.

During the RI Phase II field activities, between March 5 and 7, 2012, soil vapor samples were collected from 38 existing and newly installed soil vapor implants plus QA/QC samples. Soil vapor samples were unable to be collected from 4 soil vapor implants (SG-043, SG-045, SG-057, and SG-078) due to the presence of tight cohesive soils and/or water within the implant. Sampling locations are shown on Plate 2.

The soil vapor samples were collected in accordance with the procedures outlined in the Field Activities Plan (FAP) (URS, April 2010) using laboratory evacuated 6-liter Summa® canisters with 1

hour flow regulators provided by Pace Analytical Services, Inc. of Minneapolis, MN (Pace). Per NYSDOH's *Guidance for Evaluating Soil Vapor Intrusion in the State of New York* (NYSDOH, October 2006), a helium tracer gas was utilized during the sampling of each soil vapor implant. The tracer gas was used to verify that the infiltration of outdoor (ambient) air was not occurring during sample collection. A one-quart enclosure was placed over the well head. The well tubing was run through an outlet and plumber's putty was used to seal the interface between the tubing and the enclosure. The enclosure was then sealed at the ground surface with a polyurethane foam gasket. A tank containing ultra-high purity helium (99.999%) was connected to the side port of the enclosure and enough helium was released to displace any ambient air and to maintain a positive pressure within the enclosure. Following the application of the tracer gas, one to three volumes were purged from the soil vapor implant using a Gilian GilAir-3 air sample pump.

A Dielectric MGD-2002 helium detector was used to check for the presence of the tracer gas in the purged soil vapor; if less than 10% of the tracer gas was detected, a sample was collected. Following the collection of the soil vapor sample, the helium detector was re-connected to the tubing to check for the presence of the tracer gas in the soil vapor; if less than 10% of the tracer gas was detected, the sample was acceptable for analyses. No elevated concentrations of helium were detected prior to or following the sample collection from any of the soil vapor implants.

One outdoor (ambient) air sample was collected each day from a location upwind of the sample locations. The outdoor ambient air sample was collected by opening a summa canister fitted with a one-hour flow controller and drawing in the ambient air. Field duplicate samples were collected using stainless steel 'T' fittings. Copies of the completed Summa Canister Sampling Field Data Sheets from the sampling event are provided in Appendix F.

A COC form was maintained and accompanied the air and soil vapor samples, which were shipped, via Federal Express, to Pace, a NYSDOH ELAP accredited laboratory. The soil vapor and outdoor air samples were analyzed for the TCL VOCs listed in Table 2-1, following USEPA Method TO-15.

2.5 Groundwater Monitoring Well Installation

The following sections describe the monitoring well installation program for the RI fieldwork.

2.5.1 Pre-Boring Clearing

Prior to any intrusive activities, the subcontractor obtained all necessary permits (i.e., NYC DOT street opening permits) for conducting intrusive activities. During RI Phase I field activities, on May 9, 2011, Aquifer Drilling & Testing, Inc. (ADT) mobilized two Vac-Tron® units to perform location specific utility clearance at each of the proposed monitoring well locations. A total of 17 monitoring well locations were cleared between May 9 and 11, 2011. During RI Phase II field activities, on February 27, 2012, ADT mobilized two Vac-Tron® unit to perform location specific utility clearance at each of the proposed monitoring well locations. Between February 27 and 28, 2012, 12 monitoring wells locations were cleared for utilities. At each location, a two-foot by two-foot square area of the sidewalk was cut. An approximately one-foot diameter by five-foot deep hole was excavated using post-hole diggers, pry bars, and an air knife along with the Vac-Tron® unit. After the location was cleared for drilling, the hole was backfilled flush with the sidewalk using the excavated spoils (rocks and debris removed) and temporarily patched with blacktop patch or concrete.

During pre-boring clearing activities, if odors, staining, or elevated PID readings were encountered, then a soil sample was collected. Copies of the daily field notes are provided in Appendix B; and soil boring logs are provided in Appendix D.

A COC form was maintained and accompanied the soil sample containers to Spectrum. During The RI Phase I field activities, the soil samples were analyzed for TCL VOCs plus as listed in Table 2-1, plus TICs. In addition, select samples were also analyzed for TCL semi-volatile organic compounds (SVOCs) plus TICs, TCL pesticides/polychlorinated biphenyls (PEST/PCBs), target analyte list (TAL) metals, hexavalent chromium (Cr+6), cyanide (CN) [i.e., Part 375 parameters] as listed in Table 2-1. During The RI Phase II field activities, the soil samples were analyzed for TCL VOCs plus as listed in Table 2-1, plus TICs.

All IDW generated from the pre-boring clearing was containerized in DOT approved 55-gallon drums and picked up by AARCO on a daily basis for off-site disposal at a permitted facility.

2.5.2 Soil Borings

During RI Phase I field activities between May 10 and June 6, 2011, ADT utilized track-mounted AMS Compact Roto Sonic 17-C drill rigs for the installation of 17 monitoring wells at the locations shown on Plate 1. Of the 17 monitoring wells installed, 4 were water table (shallow wells)

and the remaining 13 were deep overburden wells. During RI Phase II field activities between February 28 and March 16, 2012, ADT utilized track-mounted AMS Compact Roto Sonic 17-C drill rigs for the installation of 12 monitoring wells at the locations shown on Plate 1. Of the 12 monitoring wells installed, 5 were water table (shallow wells) and the remaining 7 were deep overburden wells.

The soil borings associated with monitoring wells were advanced using a combination of a 3-inch diameter inner sampler (5 feet in length) and a 5-inch diameter outer casing. The procedure for the advancement of the borehole was to advance the inner sampler the appropriate interval (5 feet) and then advance the outer casing over the inner sampler to the desired depth. After the outer casing was advanced, the inner sampler was retrieved and the collected sample core was placed in a polyethylene sample tube. The process was repeated until the desired depth was reached.

Each sample core was screened with a PID. Up to two soil samples were collected from each boring; one soil sample was collected from the interval just above water table; the second sample was collected from the interval exhibiting odors, staining, or the highest PID reading. If no odors, staining, or elevated PID readings were encountered, then only one sample from the interval just above the water table was collected. Copies of the daily field notes are provided in Appendix B; and soil boring logs are provided in Appendix D.

A COC form was maintained and accompanied the soil sample containers to Spectrum. During The RI Phase I field activities, the soil samples were analyzed for TCL VOCs plus as listed in Table 2-1, plus TICs. In addition, select samples were also analyzed for TCL semi-volatile organic compounds (SVOCs) plus TICs, TCL pesticides/polychlorinated biphenyls (PEST/PCBs), target analyte list (TAL) metals, hexavalent chromium (Cr+6), cyanide (CN) [i.e., Part 375 parameters] as listed in Table 2-1. During The RI Phase II field activities, the soil samples were analyzed for TCL VOCs plus as listed in Table 2-1, plus TICs. Shelby tube and grab samples were submitted to 3rd Rock, LLC of East Aurora, NY (3rd Rock) for geotechnical analysis.

All IDW generated from the monitoring well installation was containerized in DOT approved 55-gallon drums and picked up by AARCO on a daily basis for off-site disposal at a permitted facility.

2.5.3 Monitoring Well Construction

All shallow and deep monitoring wells installed during the RI field activities were constructed using the following methodologies.

The 9 shallow monitoring wells were constructed with 15 feet of 2-inch inside diameter (ID), Schedule 40 polyvinyl chloride (PVC) 0.010-inch slot screen and 2-inch ID, Schedule 40 PVC riser. The screen was nominally set between 5 feet above and 10 feet below the water table at most locations (approximate depth between 30 to 50 feet bgs). A 00 size sand pack was installed from the bottom of the well up to 2 feet above the top of the well screen. A bentonite seal was then installed around the riser to an elevation of 2-foot below grade using a bentonite slurry installed via tremie pipe or $\frac{3}{8}$ -inch bentonite chips.

The 20 deep monitoring wells were constructed with 10 feet of 2-inch ID, Schedule 40 PVC 0.010-inch slot screen and 2-inch ID, Schedule 40 PVC riser (approximate depth between 70 to 90 feet bgs). A 00 size sand pack was installed from the bottom of the well up to 2 feet above the top of the well screen. A bentonite slurry was then installed around the riser to an elevation of 2-foot below grade via tremie pipe.

Each monitoring well was finished with a locking well cap, a 2-foot square concrete apron, and a flush-mounted curb box. Security bolts were installed in the well covers to minimize the potential for unauthorized well access. The concrete apron for each well pad was approximately 6 inches thick. Monitoring well construction logs are provided in Appendix G.

2.6 Monitoring Well Development

All monitoring wells installed during the RI field activities were developed using the following methodologies.

At least 24 hours after the monitoring wells were installed, the wells were developed by URS personnel with the pump and surge development method using a Waterra Inertial Hydrolift pump with dedicated/disposable high density polyethylene (HDPE) tubing and dedicated/disposable HDPE check valves. Prior to well development, a 100-foot long Solinst oil/water interface probe was used to check for the presence/thickness of any free product. During well development, water quality parameters (pH, specific conductivity, temperature, turbidity) were measured using a Hanna 991301 Multiparameter Meter and a Lamotte 2020 turbidimeter and recorded. A monitoring well was considered developed when a minimum of 100 gallons was removed, and water quality parameters had stabilized. Well development logs may be found in Appendix H. Well development water was collected in DOT approved 55-gallon drums and picked up daily by AARCO for off-site disposal at a permitted facility.

2.7 Groundwater Level Measurements

Several rounds of groundwater levels were collected and used to develop groundwater contour elevation maps during the investigation so that groundwater flow directions could be determined. Monitoring wells within the area were checked for depth to groundwater and thickness of accumulated NAPL, if any. Water levels were determined using a 100-foot long Solinst oil/water interface probe. Table 2-2 presents groundwater level measurements and the presence/absence of non-aqueous phase liquid (NAPL) in monitoring wells. Groundwater elevations were adjusted if light non-aqueous phase liquid (LNAPL) was present, based upon the (laboratory) measured specific gravity of the product present in monitoring well(s) at the site.

2.8 Aquifer Testing

Following well development, slug testing was conducted on select monitoring wells to estimate the horizontal hydraulic conductivity within the overburden. Falling head tests were performed by recording the initial water level in the well, lowering a pressure transducer/datalogger (In-situ MiniTroll) into the well, inserting a decontaminated slug to raise the water level in the well, and recording the water level over time until it returned to the original static level. Rising-head tests were performed immediately following completion of the falling head test. With the slug already in the water column, the static water level was recorded, the slug was then removed, and water level readings were taken as the water level gradually returned to static condition. Aquifer testing data and results are provided in Appendix I.

2.9 Non-Aqueous Phase Liquid Gauging

During Site Characterization Phases I through VI and both Phase I and II of the RI, monitoring wells were checked for the presence of NAPL. LNAPL was observed at the site only during RI Phase I field activities, as discussed below and presented on Table 2-1. No dense non-aqueous phase liquid (DNAPL) was observed during any SC or RI field activities.

2.9.1 Dense Non-Aqueous Phase Liquid Gauging

No DNAPL was observed during any SC or RI field activities.

2.9.2 Light Non-Aqueous Phase Liquid Gauging

During the RI Phase I field activities, from June 20 to 22, 2011, LNAPL was observed with thicknesses ranging between 0.0 feet and 0.12 feet in DEC-048. LNAPL had not been previously observed in this monitoring well which was installed in June 2008. During the SC Phase VI and RI Phase II field activities, LNAPL was not observed at this location.

2.10 Non-Aqueous Phase Liquid Sampling

During the RI Phase I fieldwork, one NAPL sample was collected from DEC-048 on June 24, 2011.

2.10.1 Dense Non-Aqueous Phase Liquid Sampling

No DNAPL samples were collected during any SC or RI field activities.

2.10.2 Light Non-Aqueous Phase Liquid Sampling

During the RI Phase I field activities, on June 24, 2011, URS personnel collected an LNAPL sample from DEC-048 using a dedicated/disposable HDPE bailer. The LNAPL sample was transported under COC via laboratory courier to Spectrum. The sample was analyzed by Spectrum for TCL VOCs plus TICs, TCL SVOCs plus TICs, and Petroleum Hydrocarbons by Method 8100 (modified), as listed in Table 2-1. Specific gravity was analyzed by American Society for Testing and Materials (ASTM) method D4052 by Mt. Tom Generating Co. LLC Analytical Laboratory (Mt. Tom) of West Springfield, MA as a subcontractor to Spectrum.

2.11 Groundwater Sampling

During the RI Phase I field activities, between June 20 through June 24, 2011, URS measured depth to groundwater and collected groundwater samples from 45 monitoring wells plus QA/QC samples using low-flow sampling procedures. Due to the presence of LNAPL, the groundwater sample from monitoring well DEC-048 was collected using 1-inch PVC with a tethered cap inserted into the well to bypass the LNAPL. The sample tubing was then inserted through the PVC pushing out the cap at a depth below the LNAPL in order to sample the well at the midpoint of the screen.

During the RI Phase II field activities, between January 23 and January 31, 2012, URS collected groundwater samples from 58 monitoring wells (12 newly installed and 46 existing NYSDEC wells) plus QA/QC samples using low-flow sampling procedures.

Prior to sample collection, standing water was purged from each well with a QED SamplePro Micropurge bladder pump or a Grundfos Redi-Flo2 submersible pump using dedicated/disposable bladders and HDPE tubing. Wells were purged at a rate of 1-liter per minute or less and the purge rate was adjusted to minimize draw down. During the purging of the well, water quality parameters (pH, specific conductivity, temperature, dissolved oxygen, turbidity) were measured using a Horiba U-22 Multi-parameter Instrument with a flow-through cell and documented on a purge log. Samples were collected after the water quality parameters stabilized. Purge logs are provided in Appendix J. Purge water was collected in DOT approved 55-gallon drums, and was picked up daily by AARCO for proper disposal.

All samples were transported under COC via laboratory courier to H2M. During RI Phase I field activities, the groundwater samples were analyzed for TCL VOCs plus TICs. In addition, 4 groundwater samples were collected and analyzed for TCL SVOCs, TCL pesticides, TCL PCBs, TAL metals, and cyanide. During RI Phase II field activities, the groundwater samples were analyzed for TCL VOCs plus TICs and natural attenuation parameters [i.e., alkalinity, chloride, nitrate-nitrite, total phosphorous, sulfate, and sulfide] as listed in Table 2-1.

2.12 Investigation Derived Waste Disposal

AARCO was contracted for the daily pick-up and disposal of all drummed IDW at a permitted disposal facility. Copies of the non-hazardous bills of lading and hazardous waste manifests are provided in Appendix K. Analytical results from waste profile samples may be found in Table 3 of the Data Usability Summary Reports (DUSRs) in Appendix Q, on a compact disc (CD).

2.13 Monitoring Well Maintenance

During RI fieldwork, well maintenance was performed on all DEC wells where groundwater samples were collected. Every well cover was removed and all the bolt holes were tapped out and lubricated with an anti-seize paste. All flush-mount protective casings on DEC wells were equipped with new Penta Head tamper proof bolts.

2.14 Monitoring Well Decommissioning

During the RI Phase II fieldwork, three monitoring wells (DEC-006, DEC-014, and DEC-022) were decommissioned in accordance with NYSDEC protocol *CP-43: Groundwater Monitoring Well Decommissioning Policy*. At DEC-014, the well string was removed and a bentonite slurry was installed via tremie pipe. At DEC-006 and DEC-022, the well riser broke while attempting to pull the well string; the remainder of the well string was left in place and a bentonite slurry was installed via tremie pipe. Copies of the daily field notes are provided in Appendix B and well decommissioning records may be found in Appendix L.

2.15 Concrete Sidewalk Flag Replacement

During RI Phase I field activities, AARCO was contracted for the replacement of sidewalk flags that had been drilled through during previous and current site activities. AARCO replaced a total of 25 sidewalk flags between July 11 and 15, 2011. The sidewalk flags ranged in size from 5-foot by 5-foot to 10-foot by 10-foot square. Prior to removal of the damaged flags, AARCO cut the perimeter of each flag to be replaced using a water-cooled pavement saw. The flags were demolished, removed and disposed of by AARCO. New flags were replaced in kind to the surrounding flags.

During RI Phase II field activities, AARCO was contracted for the replacement of sidewalk flags that had been drilled through during previous and current site activities. AARCO replaced a total of 23 sidewalk flags between April 16 and 20, 2012. The sidewalk flags ranged in size from 3-foot by 5-foot to 5-foot by 6-foot. At 5 locations (DEC-031, DEC-031D, DEC-031TC, DEC-044, and DEC-044D), the flags and existing flush-mount protective casings were replaced with flush-mount well covers made of cast aluminum due to the high traffic of forklifts using the sidewalk at these locations. Prior to removal of the damaged flags, AARCO cut the perimeter of each flag to be replaced using a water-cooled pavement saw to reduce fugitive dust. The flags were demolished, removed and disposed of by AARCO. New flags were replaced in kind to the surrounding flags. Copies of the daily field notes are provided in Appendix B.

2.16 Site Survey

URS surveyed the area, including all new soil borings, monitoring wells, and soil vapor points installed for location and elevation. The survey provides 100-scale mapping and does not include elevated roadways and expressways (i.e., BQE). All surveying was performed under the supervision

of a New York State licensed land surveyor. All vertical control points were referenced to the North American Vertical Datum 1988 (NAVD 1988). Horizontal datum was referenced to the North American Datum of 1983 (NAD83), New York State Plane Coordinate System, Long Island Zone. Copies of survey field notes and site sketches are provided in Appendix M. A site survey drawing is provided in Appendix N.

3.0 PHYSICAL CHARACTERISTICS OF THE STUDY AREA AND GEOLOGY

This section discusses the physical characteristics of the study area including surface features, groundwater use, demography and land use, soil, surface water hydrology, geology and hydrogeology.

3.1 Surface Features

The topography of the site investigation area slopes gently downward to the south. The elevation near the Klink Cosmo area ranges from approximately at 39 feet amsl near the corner of Morgan Avenue and Richardson Street to 35 feet amsl near the corner of Vandervoort Avenue and Richardson Street to 28 feet amsl farther south at the corner of Frost Street and Vandervoort Avenue. The entire site property and the majority of the project area are covered by buildings and/or pavement/concrete.

Limited green space is present in the area and is generally situated in the vicinity of residential properties. Surface soil is present in landscape boxes adjacent to area sidewalks; however, given the nature of the urban environment the soil should not be construed as representative of clean surface soil. Recreation areas in the vicinity are baseball fields directly east of the Site, across Vandervoort Avenue, and Monsignor McGolrick Park which is a 9.13 acre park 2,000 feet northwest of the Site bounded by Monitor and Russell Streets and Nassau and Driggs Avenues.

3.2 Demography and Land Use

The site is located in the Greenpoint/East Williamsburg Industrial Area section of the Borough of Brooklyn, Kings County, New York. Petroleum refining and storage operations occupy a significant portion of the Greenpoint area, especially to the north and east. The population of Brooklyn (Kings County) is 2,504,700 according to the 2010 Census. The Klink Cosmo property is currently being used for sheet metal fabrication. The area is a mixture of residences and manufacturing facilities, including both commercial and industrial facilities. A recreational area is situated directly east of the Site across Vandervoort Avenue.

Land use in New York City is regulated by the City's Zoning Resolution, which has two parts: zoning text and zoning maps. The text establishes zoning districts and sets forth regulations governing their land use and development. The maps show the locations and boundaries of the zoning districts. The City is divided into three basic zoning districts: residential (R), commercial (C), and

manufacturing (M). The three basic districts are further divided into a range of lower-, medium-, and higher-density residential, commercial, and manufacturing districts.

The project area falls within three zoning districts identified by the New York City Department of City Planning (http://www.nyc.gov/html/dcp/html/zone/zh_zmactable.shtml). These zoning districts are: R6B, M1-1, and M3-1. The current (2011) zoning and land use of individual properties was determined through the NYCityMap (<http://gis.nyc.gov/doitt/nycitymap>).

R6 and R6B Residential Districts (medium density). Primary permitted uses in the R6 district include medium density residential. A mixture of building types are allowed and range from small apartment buildings set back on small lots to row houses to large-scale apartment towers. The “B” suffix indicates a contextual district, where supplemental regulations require a new development to maintain the scale and form of the existing neighborhood context. Residential buildings are zoned as R6B north of Division Place and south of Lombardy Street between Morgan and Porter Avenues.

M1-1 Manufacturing District (light industrial). Permitted uses in the M1 districts include typical light industrial, office and retail uses. M1 districts are often a buffer between M2 or M3 manufacturing districts and adjacent residential or commercial districts. Residences are generally not included within M1 districts unless as part of a Special Mixed Use District. The majority of properties south of Meeker Avenue east of Morgan Avenue and west of Porter Avenue are located in the M1-1 district.

M3-1 Manufacturing District (heavy industrial). Permitted uses in the M-3 industrial district include heavy industry that generate potential nuisance effects such as noise, traffic or pollutants and include power plants and fuel supply depots. The “1” suffix refers to supplemental parking requirements. Properties south of Meeker and east of Porter Avenue are zoned M3-1.

3.3 Regional Geology

The Klink Cosmo Site is located within the Atlantic Coastal Plain physiographic province of New York State (Broughton, et al. 1966). The Atlantic Coastal Plain is characterized by low relief with elevations ranging from sea level to almost 400 feet amsl. The lithology of Brooklyn and Queens consists of Cretaceous and Pleistocene age unconsolidated deposits underlain by Precambrian

crystalline bedrock. The unconsolidated deposits pinch out in northwestern Queens where bedrock outcrops, but reach a thickness of more than 1,000 feet in southeastern Queens. The unconsolidated deposits form six distinct hydrogeologic units consisting of four aquifers and two confining layers that generally dip to the south-southeast (Figure 3-1). The units in ascending order are the Lloyd aquifer (0-300 feet thick), the Raritan confining unit (0-200 feet thick), the Magothy aquifer (0-500 feet thick), the Jameco aquifer (0-200 feet thick), the Gardiners clay (0-150 feet thick), and the upper glacial aquifer (0-300 feet thick) (USGS, 1999a and b). The units pinch out to the north-northeast and may not all be found at any one location.

Based on borings performed near the site for unrelated work, the site is underlain from the surface down by upper glacial aquifer, the Raritan Formation, and crystalline bedrock. The upper glacial aquifer is of Wisconsin age and consists of a terminal moraine, a ground moraine, and glacial outwash deposits whose area is characterized as an unsorted and unstratified mixture of clay, sand, gravel and boulders. The Raritan Formation is recognized as a confining unit which has been described as light to dark gray, brown-red, pink, red and gray-white clay, silty clay and clayey to silty fine sand. Disseminated lignite and pyrite are common and calcareous concretions may be found. Prior to the SC Phase VI fieldwork, the Raritan Formation had previously been encountered in three borings performed near the site by the USGS: one boring near Morgan Avenue and Meeker Avenue (-47 feet amsl); one boring under the BQE near the west bank of Newtown Creek (-48 feet amsl); and one boring near Meeker Avenue between Stewart Avenue and Gardner Avenue (-71 feet amsl). The boring near Morgan Avenue and Meeker Avenue penetrated the Raritan Formation into the underlying crystalline bedrock at an elevation of -163 feet amsl.

During the SC Phase VI fieldwork, the Raritan Formation was positively encountered in eight top of clay well locations at depths between 108.5 and 138.0 feet bgs (elevations of -56.95 to -121.19 feet amsl) and was described as gray with white banding, brown, brownish gray, greenish gray, dark gray to greenish brown, fine sand and silt, clays with carbonized plant fragments, clays with varying amounts of sand to silts with varying amounts of sand and clay.

3.4 Site Geology

Figure 3-2 presents the locations of the monitoring wells and cross sections developed during the RI. Cross sections A-A', B-B' and C-C' are shown on Figures 3-3, 3-4, and 3-5, respectively. Based upon subsurface data obtained during this and previous investigations, the upper glacial aquifer

has been penetrated and the top of the Raritan Formation has been encountered at the top of clay locations. The following textural units have been found in the upper glacial aquifer in most borings, from the surface downward: a fill unit; a sand unit or a discontinuous glacial till unit; a sand unit if the discontinuous glacial till unit was encountered at the surface; a discontinuous clayey silt unit within the sand unit; sand and gravel unit; and the Raritan Formation. Due to the heterogeneous nature of the geology, some but not all of the units may or may not be present at each boring. The thickness of the upper glacial aquifer in the Klink Cosmo area is approximately 108.5 to more than 113.0 feet thick. The Raritan Formation was encountered between -73.31 and -74.05 feet amsl. An isopleth of the top of Raritan Formation is shown on Figure 3-6.

A fill unit is present, varying in thickness from approximately 0 to 11 feet, and consists of a heterogeneous mixture of sand, silt, clay and varying amounts of construction and demolition debris (i.e., bricks, concrete, coal, slag, etc.). Potentially former MGP related fill material (i.e., cinder and/or trace slag) was found to be present across Vandervoort Avenue in the vicinity of a former MGP facility in DEC-014D (5-7 feet bgs), DEC-043 (1-11 feet bgs), SG-079 (1-2 feet bgs), and SG-086 (at 1 foot bgs).

A glacial till unit was noted at the surface in some borings and consists of a heterogeneous mixture of sand, silt, and clay and varying amounts of gravel, cobbles and boulders.

A sand unit is present at all the boring locations and is represented by stratified sands of varying textures containing some to no fines.

A lacustrine clayey silt/silt unit has been observed as an inclusive unit within the sand unit. The thickness of the clayey silt/silt unit, where present, varies from 0.5 to over 10 feet thick.

A sand and gravel unit has been found to overlie the Raritan Formation at DEC-029TC and DEC-031TC. The Raritan Formation consisted of gray or dark gray, silt with some clay and fine sand stringers; clay with some sand; clay and silt; or fine sand and silt.

3.5 Geotechnical Test Results

Geotechnical samples were collected from the Klink Cosmo area during both phases of the RI field activities and from the SC Phase VI field activities. Soil samples from grab samples and Shelby tubes were analyzed by 3rd Rock for grain size distribution (ASTM D422), Atterberg Limits (ASTM

D4318), and falling head permeability (ASTM D5084). Results are presented in Appendix O, summarized on Table 3-1 and discussed below.

3.5.1 Geotechnical Samples from Upper Glacial Aquifer

Upper glacial aquifer samples from DEC-065D and DEC-066D with depths between 9 and 25 feet bgs were generally poorly graded sand with silt, silty sand, and clayey sand with an Unified Soil Classification System (USCS) classifications of SM, SC, and SP-SM. Soils were identified as either non-plastic or of low plasticity. Two samples were analyzed by ASTM D5084 Method C for permeability. Results ranged from 1.1×10^{-7} to 4.9×10^{-8} cm/sec.

Deeper upper glacial aquifer samples were collected from DEC-011D, DEC-028D, DEC-029D, and DEC-044D with depths between 50 and 84.5 feet bgs. The soils were identified as poorly graded sand, well graded sand with silt and gravel, silt, clay, and clay with sand with USCS classifications of SP, SW-SM, ML, CL and CH. Soils were identified as either non-plastic or of low plasticity. Three samples were analyzed by ASTM D5084 Method C for permeability. Results ranged from 2.0×10^{-8} to 5.1×10^{-8} cm/sec.

3.5.2 Geotechnical Samples from Top of Raritan Formation

Samples were collected from the top of the Raritan Formation, and included samples from the silty sand material from above the clay, DEC-029TC (108-113 feet bgs) and DEC-031TC (105-106 feet bgs), and from the clay DEC-029TC (115-117 feet bgs) and DEC-031TC (115-116.5 feet bgs). USCS classifications in the Raritan Formation ranged from SM, ML, and CL. Soils were identified as either non-plastic or of low plasticity. The measured permeability values were 2.0×10^{-3} cm/sec for the silty sand above the clay, and varied between 1.7×10^{-6} to 9.9×10^{-6} cm/sec for the clay.

3.6 Groundwater Levels and Hydrogeology

The primary hydrogeologic unit identified within the investigation area is the upper glacial aquifer. Groundwater in the area is generally present in unconfined conditions; however, localized semi-confined or confined conditions are possible due to the presence of interbeds of sand, clay, and silt. The water table surface may be found between approximately 25 and 50 feet bgs depending on the well location.

During the RI Phase I field activities, a round of synoptic groundwater levels was obtained on June 20, 2011 from monitoring wells in the Klink Cosmo area. These were used to develop groundwater contour elevation maps during the RI so that groundwater flow directions could be determined. Potentiometric surface maps based on the water level measurements from the shallow wells (screened generally at 30 to 50 feet bgs), using a 0.2-foot contour interval, are provided in Figure 3-7, and in Figure 3-8 for deep wells (screened generally at 70 to 90 feet bgs). A thin layer of LNAPL was detected in DEC-048. The water level in this monitoring well was adjusted based on specific gravity measurements. An LNAPL sample from DEC-048 was collected and sent to Mt. Tom Generating Company for determination of specific gravity. Analytical results are provided in Appendix P. Water level measurements are included in Table 2-2. Vertical hydraulic gradient calculations are provided on Table 3-2.

During RI Phase II field activities, an additional synoptic round of groundwater levels were obtained on March 28 and 29, 2012 from monitoring wells in the Klink Cosmo area. Potentiometric surface maps based on the water level measurements using a 0.2-foot contour interval are provided in Figure 3-9 for the shallow overburden wells and in Figure 3-10 for the deep overburden wells. Water levels were obtained from only two top of clay wells (DEC-029TC and DEC-031TC) during the RI Phase II, therefore groundwater flow direction could not be determined. However, during the SC Phase VI field activities the flow direction of groundwater above the top of clay was determined to be to the northeast/northwest. Water level measurements are included in Table 2-2. Vertical hydraulic gradient calculations are provided on Table 3-2.

In the immediate vicinity of the Klink Cosmo area, the shallow and deep groundwater flow is east/northeast. The horizontal hydraulic gradient of the shallow groundwater flow during the RI Phase I and RI Phase II field activities was less than approximately 0.001 to 0.004 foot per foot (ft/ft). In the immediate vicinity of the Klink Cosmo area, groundwater measurements in the top of Raritan Formation monitoring wells were similar (2 feet amsl in DEC-031TC and 2.18 feet amsl in DEC-029TC).

The vertical hydraulic gradients in shallow and deep well pairs varied in direction across the investigation area during RI Phase II field activities. Vertical hydraulic gradients in well pairs DEC-043/043D, DEC-064/064D, DEC-065/065D, and DEC-066/066D are positive or downwards (0.004, 0.002, 0.012, 0.006 ft/ft, respectively). Vertical hydraulic gradients in the majority of well pairs downgradient of the site, DEC-014R/014D, DEC-015/015D, DEC-029/029D, DEC-031/031D, and

DEC-045/045D, were slightly negative, or upwards (-0.002 to -0.007 ft/ft) based upon the water level information. Vertical hydraulic gradients in well pairs DEC-006D/006DD, DEC-007/007D, DEC-013/013D, DEC-030/030D, and DEC-044/044D were also upwards but were greater in magnitude (-0.012 to -0.017 ft/ft).

The vertical hydraulic gradients in top of Raritan Formation well triplets were similar in direction and magnitude during RI Phase II field activities. Vertical hydraulic gradients between the shallow and top of Raritan Formation wells at DEC-029/029TC and DEC-031/031TC were slightly negative or upwards (-0.002 to -0.006 ft/ft, respectively). Vertical hydraulic gradients between the deep and top of Raritan Formation wells at DEC-029D/029TC and DEC-031D/031TC were slightly positive or downwards (0.004 to 0.003 ft/ft, respectively).

3.6.1 Slug Test Results

Representative slug test results are presented on Table 3-3. Horizontal hydraulic conductivity values for the shallow overburden range from 2.69×10^{-5} cm/sec to 4.77×10^{-3} cm/sec. Horizontal hydraulic conductivity values for the deep overburden range from 9.74×10^{-3} cm/sec to 2.48×10^{-2} cm/sec.

3.7 Surface Water and Hydrology

The site slopes slightly to the east and south and is bounded by streets on the north, west and east. The surface of the site is entirely covered by buildings and/or pavement/sidewalks. There is a storm water drop inlet (DI) along Richardson Street near Vandervoort Avenue.

The nearest surface water body is Newtown Creek located approximately 2,500 feet northeast of the site. Newtown Creek is classified as a Class SD (marine waters) surface water body by the NYSDEC. The best usage of Class SD waters is fishing. These waters shall be suitable for fish, shellfish, and wildlife survival. The classification may be given to those waters that, because of natural or man-made conditions, cannot meet the requirements of primary and secondary contact recreation and fish propagation. While Newtown Creek may not be suitable for swimming and other recreational activities that involve human contact with surface water, individuals use Newtown Creek for fishing and boating. Water is not withdrawn from Newtown Creek for potable use. Numerous storm water drains from surrounding roadways and permitted Spill Discharge Elimination System (SPDES) outfalls discharge into Newtown Creek, including those discharging groundwater collected and treated on the nearby ExxonMobil remediation site.

Surface water levels within Newtown Creek vary depending on the tide. High tide in Newtown Creek is generally at an elevation of 4 to 5 feet amsl; low tide is generally at an elevation of 0 to -1 feet amsl (www.saltwatertides.com).

3.8 Utilities

Utilities on and near the site include underground water, electric, natural gas, sanitary and storm sewer. Overhead electric and communication lines run north-south adjacent to the site within the eastern sidewalk along Morgan Avenue, north-south within the western sidewalk along Vandervoort Avenue, and east-west within the north sidewalk along Withers Street. Fire hydrants are located on Richardson Street, Morgan Avenue, Withers Street, and Vandervoort Avenue. Approximate utility information is provided on the site survey which may be found in Appendix N.

3.9 Standards, Criteria and Guidance Values

For each medium, detected concentrations of individual contaminants were compared to applicable standards, criteria and guidance values (SCGs). The site-specific SCGs were determined for the individual media as follows:

3.9.1 Soil

Three sources of soil SCGs are considered appropriate for this site: site-specific background soil samples, NYSDEC Part 375, and NYSDEC CP-51.

On August 3, 2011, eight soil samples were obtained from the 0 to 2-foot depth interval from eight locations in Monsignor McGolrick Park as part of the SC Phase VI field activities. These samples were analyzed for target compound list/target analyte list (TCL/TAL) contaminants. Detected concentrations will be considered to be representative of site-specific background for the Klink Cosmo site. These soil background concentrations will be included as soil SCGs on the soil analytical tables presented in Section 4.

A summary of the detected analytical results in the background soil samples compared to unrestricted and protection of groundwater SCGs is presented in Table 3-4. Table 3-4 lists the detected analytical results for background soil samples within/near residences compared to residential SCGs for RI soil samples. Results exceeding criteria are indicated with circles and/or squares on the table. Table 3-5 provides a statistical summary of the detected TCL parameters for background soil

samples as follows: the number of detections; the minimum, maximum and average values; the location and depth of the maximum value, and the number of exceedances of unrestricted use criteria. One VOC, toluene, was detected below unrestricted use criteria at six of the eight sampling locations. As indicated on Table 3-5, SVOCs, including polycyclic aromatic hydrocarbons (PAHs), were detected in the majority of samples. One SVOC, di-n-butylphthalate, exceeded unrestricted use criteria at one location (SS-02). The pesticides dichlorodiphenyldichloroethane (4,4'-DDD), dichlorodiphenyldichloroethylene (4,4'-DDE), and dichlorodiphenyltrichloroethane (4,4'-DDT) were detected in all samples and exceeded unrestricted use criteria at all locations. Additionally, dieldrin exceeded unrestricted use criteria at two locations; gamma-chlordane was detected at three locations below unrestricted use criteria.

Metals which exceeded unrestricted use criteria in all samples include: copper, iron, lead, and mercury. Additionally, arsenic exceeded unrestricted use criteria at five locations, and zinc exceeded unrestricted use criteria at one location.

Since the detected concentrations of di-n-butylphthalate, 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, dieldrin, arsenic, copper, iron, lead, mercury, and zinc exceeded unrestricted use criteria in the background soil samples, these contaminants are considered to be present as background conditions for the site. The maximum concentration of each contaminant detected at concentrations exceeding unrestricted use criteria is included as the soil background concentration and presented on the soil analytical results tables in Section 4.

Part 375 criteria are considered as SCGs for soil samples in conjunction with CP-51 criteria. CP-51 supplements Part 375 by providing criteria for contaminants previously included under TAGM 4046 where values were not included in Part 375. Hereafter, mention of Part 375 includes incorporation of CP-51 criteria values. Part 375 unrestricted use criteria are considered to assist in the development of a remedial alternative capable of achieving unrestricted future use, as required by DER-10 Section 4.4 (b) 3 ii. In addition, criteria for the Protection of Groundwater are considered as SCGs for contaminants which exceed groundwater SCGs. These are identified in Section 4.

Soil samples were obtained from soil borings on properties zoned residential and/or manufacturing by the NYC Department of City Planning. The zoning classification for the property of location of the soil boring is a consideration in the determination of the appropriate soil SCGs. The majority of properties within the investigation area are zoned manufacturing.

As discussed in Section 3.2, properties located in the manufacturing districts in NYC may be either industrial or commercial use. However, land uses allowed within manufacturing districts include residential use either within special mixed use districts or by special permit. Therefore, residences may be present on properties throughout the entire investigation area. Therefore, the soil SCGs considered appropriate for the site are residential criteria (as opposed to commercial or industrial criteria). Part 375 restricted residential and residential land use soil cleanup criteria for the soil samples are used on the soil analytical data tables in Section 4.

3.9.2 Groundwater

The SCGs for groundwater are the Class GA standards and guidance values presented in NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, June 1998 (including subsequent revisions). These groundwater SCGs are included on the groundwater analytical tables presented in Section 4.

3.9.3 Surface Water/ Sediments

No surface water or sediment samples were collected therefore no SCGs were determined.

3.9.4 Soil Vapor

There are no criteria for soil vapor analytical data.

4.0 NATURE AND EXTENT OF CONTAMINATION

The following sections discuss the results of the soil, NAPL, groundwater and soil vapor/air sample analyses for the RI fieldwork at the Klink Cosmo Site.

4.1 Soil Analytical Results

4.1.1 RI Phase I and SC Phases I through III Soil Analytical Results

The soil sample results were compared to appropriate Part 375 criteria identified for the soil samples discussed in Section 3.9. Twenty samples were collected during RI Phase 1 from 10 soil vapor and 17 monitoring well locations during the period between May 6 through June 6, 2011. (At some locations, more than one sample was collected from multiple depths.) Including the RI Phase 1 and Phases I through III of the SC, 57 soil samples have been obtained from 47 monitoring well borings, 12 soil borings and 31 soil vapor locations in the Klink Cosmo area. A summary of the detected VOC analytical results in all soil samples as compared to soil background concentrations, unrestricted use, and protection of groundwater SCGs is presented in Table 4-1 and in Table 4-2 for SVOCs, pesticides/PCBs, herbicides, metals and cyanide. A summary of the detected VOC analytical results in all soil samples compared to residential and restricted residential SCGs are presented in Table 4-3 and in Table 4-4 for SVOCs, pesticides/PCBs, herbicides, metals and cyanide. Table 4-5 provides a statistical summary of the detected TCL parameters for all soil samples collected from RI Phase I and the SC Phases I through III in the Klink Cosmo area as follows: the number of samples, the number of detections; the minimum, maximum and average values; and the location and depth of the maximum value. The complete validated analytical results from the RI soil samples are presented in the DUSR in Appendix Q, on a CD. Data summary tables, Form I and Form Ie (TICs) are provided in the DUSR and include the reporting limit for each non-detected compound. RI Phase I and Phases I through III of the SC soil data exceeding criteria is presented on Figure 4-1A for Unrestricted Use and Protection of Groundwater and Figure 4-1B for Residential Use and Restricted Residential Use.

Background, Unrestricted Use, and Protection of Groundwater Soil Criteria

Soil sample results from the RI Phase 1 and Phases I through III of the SC were compared to soil background concentrations, unrestricted use, and protection of groundwater criteria as shown on Figure 4-1A. Locations which exceeded criteria for unrestricted use generally exceed protection of groundwater criteria. Acetone slightly exceeded unrestricted use, and protection of groundwater

criteria at DEC-004 (0.12 mg/kg 35-36 feet bgs) and SB-11 (0.056 mg/kg 25-26 feet bgs). Methylene chloride slightly exceeded unrestricted use, and protection of groundwater criteria at SB-11 (0.072 mg/kg 25-26 feet bgs) and xylene slightly exceeded unrestricted use criteria at DEC-048 (0.89 mg/kg 24.5-25.5 feet bgs). Di-n-butylphthalate exceeded soil background concentrations, unrestricted use, and protection of groundwater criteria at DEC-030D (0.13 mg/kg 3.5-4.5 feet bgs) and the pesticide Dieldrin exceeded unrestricted use criteria at DEC-030D (0.0052 mg/kg 3.5-4.5 feet bgs). 2-methylnaphthalene exceeded unrestricted use criteria at DEC-048 (16 mg/kg 24.5-25.5 feet bgs).

Iron exceeded soil background concentrations and unrestricted use criteria in DEC-030D (23,100 mg/kg 3.5-4.5 feet bgs), DEC-065D (27,700 mg/kg 9-10 feet bgs), and DEC-065D (54,900 mg/kg 14-15 feet bgs). Iron exceeded soil unrestricted use criteria in DEC-029D (4,730 mg/kg 75-76 feet bgs) and DEC-066D (10,100 mg/kg 24-25 feet bgs). Lead and mercury exceeded unrestricted use criteria in DEC-030D (74.2 mg/kg and 0.32 mg/kg, respectively 3.5-4.5 feet bgs), and aluminum, chromium, and vanadium exceeded unrestricted use criteria in DEC-065D (10,100 mg/kg, 32.7 mg/kg, and 54.2 mg/kg, respectively 14-15 feet bgs).

Residential and Restricted Residential Soil Criteria

Soil sample results from the RI Phase 1 and Phases I through III of the SC were compared to residential use and restricted residential use criteria as shown on Figure 4-1B. 2-methylnaphthalene exceeded residential use criteria at DEC-048 (24.5-25.5 feet bgs).

Iron exceeded residential and restricted residential use criteria was iron in DEC-029D (4,730 mg/kg 75-76 feet bgs), DEC-030D (23,100 mg/kg 3.5-4.5 feet bgs), DEC-065D (27,700 mg/kg 9-10 and 54,900 mg/kg 14-15 feet bgs), and DEC-066D (10,100 mg/kg 24-25 feet bgs).

4.1.2 RI Phase II and SC Phases VI Soil Analytical Results

Soil samples collected during the SC Phase VI and RI Phase II were compared to appropriate Part 375 criteria identified for the soil samples discussed in Section 3.9.

A summary of the detected VOC analytical results in soil samples were compared to soil background concentrations, unrestricted use, and protection of groundwater SCGs is presented in Table 4-6. Table 4-7 lists the detected analytical results for soil samples as compared to residential and restricted residential SCGs for VOCs. The complete validated analytical results from the RI Phase II and SC Phase VI soil samples are presented in the DUSR in Appendix Q, on a CD. Data summary

tables, Form I and Form Ie (TICs), are provided in the DUSR and include the reporting limit for each non-detected compound. RI Phase II and the SC Phase VI soil data exceeding criteria is presented on Figure 4-2A for Unrestricted Use and Protection of Groundwater and Figure 4-2B for Restricted Residential and Residential Use. A summary of these detected analytical results in all soil samples collected to date within the Klink Cosmo area compared to soil background concentrations, unrestricted use and protection of groundwater SCGs is presented in Table 4-8 for VOCs. The summary for all for SVOCs, pesticides/PCBs, herbicides, metals, and cyanide can be found in Table 4-2 since these parameters had only been analyzed for in the RI Phase I and SC Phases I-III soil samples. Table 4-9 lists the detected analytical results for soil samples as compared to residential and restricted residential SCGs for VOCs. The summary for all for SVOCs, pesticides/PCBs, and metals can be found in Table 4-4 since these parameters had only been analyzed for in the RI Phase I and SC Phases I-III soil samples. Table 4-10 provides a statistical summary of the detected TCL parameters for all soil samples collected to date within the Klink Cosmo area.

Background, Unrestricted Use, and Protection of Groundwater Soil Criteria

Soil sample results from the SC Phase VI and RI Phase II were compared to soil background concentrations, unrestricted use, and protection of groundwater criteria as shown on Figure 4-2A. There were no exceedences of soil background concentrations, unrestricted use, and protection of groundwater criteria in any soil sample results from the SC Phase VI and RI Phase II.

Residential and Restricted Residential Soil Criteria

Soil sample results from the SC Phase VI and RI Phase II were compared to residential and restricted residential use criteria as shown on Figure 4-2B. There were no exceedences of soil background concentrations, unrestricted use, and protection of groundwater criteria in any soil sample results from the SC Phase VI and RI Phase II.

4.2 Non-Aqueous Phase Liquid Analytical Results

During the RI Phase I field activities, LNAPL was observed during the collection of the synoptic round of groundwater levels in DEC-048 on June 21, 2011. LNAPL was not previously observed in this monitoring well, which was installed in June of 2008. URS called the NYSDEC Spill Hotline and NYSDEC Spill No. 1103190 was assigned on June 21, 2011 to the LNAPL found in this

area. It was noted that a fuel truck had been parked at this location and there was staining on the sidewalk around the well and on the wall of the adjacent building.

An LNAPL sample was collected from DEC-048 on June 21, 2011 and analyzed for VOCs, SVOCs, fuel oils, and specific gravity. A summary of the detected TCL VOCs and SVOCs in the NAPL sample is presented in Table 4-11. The complete validated analytical results from the RI NAPL samples are presented in the DUSR in Appendix Q. Data summary tables, Form I and Form Ie (TICs) are provided in the DUSR and include the reporting limit for each non-detected compound. The laboratory result for LNAPL specific gravity is provided in Appendix P.

4.2.1 Dense Non-Aqueous Phase Liquid Analytical Results

No DNAPL samples were collected during any SC or RI field activities.

4.2.2 Light Non-Aqueous Phase Liquid Analytical Results

A LNAPL sample was collected by URS personnel during the RI Phase I fieldwork on June 21, 2011. The results are presented on Table 4-11 and summarized below. Fuel oil was found at a concentration of 950,000 mg/kg (95%). Organics detected, at concentrations ranging from 130 ppm to 3,500 ppm, include: 1,2,4-trimethylbenzene, 2-methylnaphthalene, acenaphthene, fluorene, naphthalene, phenanthrene, and pyrene. These detected compounds are consistent with fuel oil(s). Two additional compounds, 1,1-biphenyl and bis (2-ethylhexyl) phthalate were also detected within the same range of concentrations. The specific gravity of the sample at 60 degrees F was determined to be 0.8608, which is consistent with a No. 2 fuel. The laboratory report for specific gravity is presented in Appendix P. A comparison of the DEC-048 sample chromatogram to a general diesel/Fuel Oil No. 2 chromatogram indicates a similarity, although degradation of the product found in DEC-048 is evident.

4.3 Groundwater Analytical Results

RI Phase I

A summary of the detected TCL VOCs, SVOCs, pesticides, PCBs, TAL metals, and cyanide in the RI Phase I groundwater samples collected from monitoring wells is presented in Table 4-12. Results exceeding TOGS No. 1.1.1 Class GA groundwater criteria are indicated with a circle. The locations of detected VOCs that have exceeded their respective criteria are shown on Figure 4-3.

Isoconcentration contours of PCE in the RI Phase I groundwater samples are shown on Figures 4-4 and 4-5 for the shallow and deep upper glacial aquifer, respectively. Table 4-13 provides a statistical summary of the detected parameters for the RI Phase I groundwater samples as follows: the number of detections; the minimum, maximum and average values; and the location of the maximum value. The complete validated analytical results from the RI Phase I groundwater samples are presented in the DUSR in Appendix Q. Data summary tables, Form I and Form Ie (TICs) are provided in the DUSR and include the reporting limit for each non-detected compound.

RI Phase II

A summary of the detected TCL VOCs and natural attenuation parameters [i.e., alkalinity, chloride, nitrate-nitrite, total phosphorous, sulfate, and sulfide] in the RI Phase II groundwater samples collected in March 2012 from monitoring wells is presented in Table 4-14. Results exceeding TOGS No. 1.1.1 Class GA groundwater criteria are indicated with a circle. The locations of detected VOCs that have exceeded their respective criteria are shown on Figure 4-6. Isoconcentration contours of PCE in the RI Phase II groundwater samples are shown on Figures 4-7, 4-8, and 4-9 for the shallow, deep, and top of Raritan Formation monitoring wells, respectively. Table 4-15 provides a statistical summary of the detected parameters for the RI Phase II groundwater samples as follows: the number of samples, the number of detections; the minimum, maximum and average values; and the location of the maximum value. Table 4-16 provides a historical summary of the detected parameters for all groundwater samples collected to date in the Klink Cosmo area. Table 4-17 provides a statistical summary of the detected parameters for all groundwater samples collected to date in the Klink Cosmo area as follows: the number of detections; the minimum, maximum and average values; and the location of the maximum value. The complete validated analytical results from the RI Phase II groundwater samples are presented in the DUSR in Appendix Q on a CD. Data summary tables, Form I and Form Ie (TICs) are provided in the DUSR and include the reporting limit for each non-detected compound.

4.3.1 Groundwater PCE Detections

RI Phase I

PCE was detected above SCGs in the majority of groundwater samples collected during the RI Phase I from the shallow and deep overburden. It was either not detected or detected below SCGs in several monitoring wells upgradient of the site (2.9 µg/L in DEC-047, 3.6 µg/L in DEC-048, 3 µg/L in

DEC-032, ND in DEC-033), and in DEC-004 (1.5 µg/L) downgradient of the site. In the deep overburden PCE was either not detected or detected below SCGs in DEC-066D (1.7 µg/L), DEC-44D (1.5 µg/L), and DEC-045D (ND) north and east of the Klink Cosmo property, respectively. The highest concentration of PCE in the shallow overburden was detected at DEC-14R (44,000 µg/L) located downgradient of the site, followed by DEC-006D (6,600 µg/L) located downgradient of DEC-14R, DEC-031 (6,100 µg/L) located on the northeast corner of the Klink Cosmo property, and DEC-029 (5,700 µg/L) located downgradient of DEC-14R. The highest concentration of PCE in the deep overburden was detected at DEC-015D (640 µg/L), followed by DEC-006DD (420 µg/L), and DEC-007D (340 µg/L), located downgradient of the site. It should be noted that the screened intervals of DEC-006D and DEC-022D are screened in the shallow overburden; DEC-006DD is screened in the deep overburden.

Figure 4-4 depicts isoconcentration contours for PCE in the shallow groundwater from analytical data collected during the RI Phase I groundwater sampling. The concentrations of PCE in shallow wells are the highest at the downgradient edge and downgradient of the Klink Cosmo property. The shallow dissolved phase plume appears to be migrating downgradient of the Klink Cosmo property, in the direction of groundwater flow, towards the north, northeast and east as shown in the contours identified in Figure 4-4.

Figure 4-5 depicts isoconcentration contours for PCE in the deep groundwater from analytical data collected during the RI Phase I groundwater sampling. The plume appears to have migrated downgradient of the Klink Cosmo property, to a lesser extent than in the shallow overburden, moving with regional deep groundwater flow towards the northeast. The concentrations of PCE have been found to be 1 to 3 orders of magnitude lower in the deep groundwater than in the shallow groundwater.

RI Phase II

Similar to RI Phase I, PCE was detected above SCGs in the majority of groundwater samples collected during the RI Phase II from the shallow and deep overburden. It was either not detected or detected below SCGs in several monitoring wells upgradient of the site (ND in DEC-032, 2.1 µg/L in DEC-033, 2.5 µg/L in DEC-047, 4.4 D µg/L in DEC-048, ND in DEC-091), and in DEC-004 (1.2 µg/L) downgradient of the site. The highest concentration of PCE in the shallow overburden was detected at DEC-14R (15,000 µg/L) located downgradient of the site, followed by DEC-029 (12,000

µg/L) located downgradient of DEC-14R, DEC-031 (9,200 µg/L) located on the northeast corner of the Klink Cosmo property, and DEC-006D (3,300 µg/L) located downgradient of the site. In the deep overburden PCE was either not detected or detected below SCGs upgradient of the site (3.5 µg/L in DEC-046D), and in DEC-031D (3.6 µg/L) and DEC-044D ND) north of the property, in DEC-011D (1.9 µg/L) west of the property, and in DEC-045D (ND), DEC-066D (ND), and DEC-091D (3.3 µg/L) east of the property. The highest concentration of PCE in the deep overburden was detected at DEC-089D (1,200 µg/L), followed by DEC-006DD (320 µg/L), and DEC-015D (310 µg/L), located downgradient of the site. It should be noted that the screened intervals of DEC-006D and DEC-022D are screened in the shallow overburden; DEC-006DD is screened in the deep overburden.

Figure 4-7 depicts isoconcentration contours for PCE in the shallow groundwater from analytical data collected during the RI Phase II groundwater sampling. The concentrations of PCE in shallow wells are the highest at the downgradient edge and downgradient of the Klink Cosmo property. The shallow dissolved phase plume appears to be migrating downgradient of the Klink Cosmo property, in the direction of groundwater flow, towards the north, northeast and east as shown in the contours identified in Figure 4-7. RI Phase II PCE concentrations were generally the same upgradient and near the downgradient edge of the plume, and marginally lower within the plume itself as compared to RI Phase I PCE concentrations. As seen in the RI Phase I groundwater results and with the exception of PCE in DEC-029TC, the concentrations of PCE have been found to be 1 to 3 orders of magnitude lower in the deep groundwater than in the shallow groundwater.

Figure 4-8 depicts isoconcentration contours for PCE in the deep groundwater from analytical data collected during the RI Phase II groundwater sampling. The plume appears to have migrated downgradient of the Klink Cosmo property, to a lesser extent than in the shallow overburden, moving with regional deep groundwater flow towards the northeast. RI Phase II PCE concentrations were marginally lower as compared to RI Phase I concentrations except in the area of DEC-015D, DEC-007D, and DEC-006DD, which were higher.

Figure 4-9 depicts isoconcentration contours for PCE at the top of the Raritan Formation from analytical data collected during the RI Phase II groundwater sampling. Elevated concentrations of PCE are found at DEC-029TC (4,500 µg/L) which, is located downgradient of the Klink Cosmo property. The concentration of PCE at DEC-031TC (1.9 µg/L) which, is located at the northeast corner of the former Klink Cosmo building, is three orders of magnitude lower.

4.3.2 Groundwater TCE Detections

RI Phase I

TCE was detected in the majority of groundwater samples collected during the RI Phase I when PCE was detected, at concentrations exceeding groundwater criteria ranging from 6.8 µg/L to 750 µg/L. The highest concentration of TCE in the shallow overburden was detected at DEC-027 (750 µg/L), followed by DEC-014R (300 µg/L) and DEC-039 (240 µg/L). The highest concentration of TCE in the deep overburden was detected at DEC-065D (670 µg/L), followed by DEC-006DD (210 µg/L), and DEC-030D (170 µg/L).

RI Phase II

TCE was detected in the majority of groundwater samples collected during the RI Phase II when PCE was detected, at concentrations exceeding groundwater criteria ranging from 5.5 µg/L to 470 µg/L. The highest concentration of TCE in the shallow overburden was detected in DEC-027 and DEC-028 (190 µg/L), followed by DEC-039 (150 µg/L) and DEC-008 (83 µg/L). The highest concentration of TCE in the deep overburden was detected in DEC-065D (470 µg/L), followed by DEC-006DD (220 µg/L), and DEC-028D (99 µg/L). The highest concentration of TCE in groundwater above the top of Raritan Formation was detected in DEC-029TC (300 µg/L).

4.3.3 PCE and TCE Degradation Products and Other Detections

RI Phase I

The presence of PCE and TCE degradation products have also been detected in the RI Phase I groundwater samples at concentrations exceeding groundwater criteria (Figure 4-3). Cis-1,2-DCE was detected above groundwater criteria in 21 of the 49 RI groundwater samples. The range of cis-1,2-DCE varied from 1.6 µg/L to 52 µg/L, with the highest concentration detected at DEC-028. Vinyl chloride exceeded criteria in 2 of the RI Phase I groundwater samples with the highest concentration detected at DEC-009 (54 µg/L) followed by DEC-008 (19 µg/L).

RI Phase II

The presence of PCE and TCE degradation products have also been detected in the RI Phase II groundwater samples at concentrations exceeding groundwater criteria (Figure 4-6). Cis-1,2-DCE

was detected above groundwater criteria in 25 of the 64 RI groundwater samples. The range of cis-1,2-DCE varied from 0.6 µg/L to 38 µg/L, with the highest concentration detected at DEC-022D. Vinyl chloride exceeded criteria in 1 of the RI Phase II groundwater samples at DEC-009 (37 µg/L) which, is located to the north of the former Klink Cosmo Cleaners building.

4.3.4 Summary of Groundwater Analytical Results – RI Phase II

PCE and some degradation products were detected in numerous groundwater monitoring wells in both the shallow and deep overburden groundwater. High concentrations of PCE were detected in the shallow overburden downgradient of the site to the north in DEC-013 and DEC-030 at concentrations of 2,500 and 1,900 µg/L, respectively; and to the northeast in DEC-014R and DEC-029 at concentrations of 15,000 and 12,000 µg/L, respectively. High concentrations of PCE were detected in the deep overburden downgradient of the site to the northeast in DEC-089D at 1,200 µg/L. PCE was detected in deep groundwater above the top of Raritan to the northeast of the site in DEC-029TC at 4,500 µg/L.

TCE and cis-1,2-DCE were generally detected at much lower concentrations than where PCE was detected to the north and northeast of the site. Vinyl chloride was only sporadically detected and exceeded criteria in DEC-009 (north of the site) at 37 µg/L. Similar to wells with PCE and TCE, during Phase I and II, some degradation products including cis-1,2-DCE have typically been found in monitoring wells to the northeast and east indicating some degradation of the plume via reductive dechlorination. The absence of significant daughter breakdown products indicates that substantial chlorinated hydrocarbon reduction is not occurring at a large scale.

As indicated on Table 4-15, few additional compounds were detected during RI Phase II (i.e., ethanes, propane isomers and benzene isomers). Generally, these additional compounds were detected below criteria. Including duplicates samples, chloride exceeded criteria in 19 of the 64 RI Phase II groundwater samples (maximum concentration of 2,500 µg/L in DEC-029TC) including upgradient sample DEC-047 (410 µg/L); nitrate in 3 of the RI Phase II samples (maximum concentration of 19.2 µg/L in DEC-039); sulfate in 7 of the RI Phase II samples (maximum concentration of 720 µg/L in DEC-029TC); and sulfide in 2 of the 64 RI Phase II groundwater samples (maximum of 0.1 µg/L in DEC-011D).

Compounds related to petroleum products (i.e., 1,2,4-trichlorobenzene, 1,4-dichlorobenzene, benzene, isopropylbenzene and/or MTBE) in general, have not been detected above criteria in

monitoring wells in the Klink Cosmo area during either RI Phase I or II. The one detection of MTBE above groundwater criteria in each of RI Phase I and II was in upgradient monitoring well DEC-047, and this appears to be attributed to an upgradient unknown fuel spill.

Based upon the RI Phase II sampling event, a dissolved chlorinated solvent plume originates at the Klink Cosmo Site. The horizontal extent of the chlorinated solvents has been mostly delineated. RI Phase II PCE concentrations were marginally lower as compared to RI Phase I concentrations except in the area of DEC-015D, DEC-007D, and DEC-006DD, which were higher. It appears that the chlorinated solvent plume in the shallow and deep overburden is more concentrated with PCE immediately north and east of the Klink Cosmo site. The extent of PCE has a larger footprint in the shallow groundwater compared to the deep groundwater and appears to be moving with regional deep groundwater flow towards the northeast and comingles with the dissolved chlorinated solvent plume originating within the ACME Steel Areas. The vertical extent of PCE and TCE impacted groundwater was determined to extend down to the top of the Raritan Formation. The horizontal extent of PCE impacted groundwater in the deep overburden near the top of the Raritan Formation has not fully been delineated. The impacted groundwater appears to be migrating to the northeast and extends into the ACME Steel Areas in the vicinity the intersection of Porter Avenue and Lombardy Street. The vertical extent of PCE and TCE impacted groundwater is not expected to migrate below the top of the Raritan Formation due to its vast areal extent and low permeability.

4.4 Soil Vapor Analytical Results

4.4.1 RI Phase I Soil Vapor Results

The locations of the VOCs detected in soil vapor during the RI Phase I, including PCE and its breakdown products, are shown on Figure 4-10. A summary of detected VOCs in the soil vapor and ambient air samples collected during the RI Phase I is presented in Table 4-18. Table 4-19 provides a statistical summary of the detected parameters for the RI Phase I air and soil vapor samples as follows: the number of detections; the minimum, maximum and average values; and the location of the maximum value. The complete validated analytical results from the RI air and soil vapor samples are presented in the DUSR in Appendix Q. Data summary tables and Form I's are provided in the DUSR and include the reporting limit for each non-detected compound.

Three ambient air samples were collected during the RI Phase I to represent background air conditions. VOCs detected in all three ambient air samples include ethanol, hexane, methyl ethyl

ketone, methylene chloride, toluene, and xylene. Concentrations of VOCs ambient air samples ranged from 0.092 to 93.1 $\mu\text{g}/\text{m}^3$.

PCE was detected in all 30 soil vapor sampling locations, at concentrations ranging from 35 $\mu\text{g}/\text{m}^3$ to a maximum of 48,200,000 $\mu\text{g}/\text{m}^3$ at location SG-060. PCE concentrations of 13,100,000; 282,000; and 176,000 $\mu\text{g}/\text{m}^3$ were detected at locations SG-049, SG-084, and SG-058 respectively. All of these sampling locations are located along the north and east perimeters of the former Klink Cosmo Cleaners building. Figure 4-11 depicts isoconcentration contours for PCE in soil vapor from analytical data collected during the RI Phase I. Additional high levels of PCE detected away from the Klink Cosmo site include:

- SG-042 at 803,000 $\mu\text{g}/\text{m}^3$ on the northeast corner of Vandervoort Avenue and Beadel Street;
- SG-043 at 48,500 $\mu\text{g}/\text{m}^3$ on the southwest corner of Vandervoort Avenue and Beadel Street;
- SG-056 at 88,900 $\mu\text{g}/\text{m}^3$ on Division Place;
- SG-061 at 79,800 $\mu\text{g}/\text{m}^3$ on Morgan Avenue; and
- SG-086 at 69,500 $\mu\text{g}/\text{m}^3$ on the southeast corner of Morgan Avenue and Richardson Street.

Concentrations of TCE were generally detected at locations where PCE was detected, at lower concentrations. The two locations with the highest PCE concentrations also have the highest TCE concentrations. Location SG-060 had TCE a concentration of 220,000 $\mu\text{g}/\text{m}^3$ and location SG-049 had a TCE concentration of 230,000 $\mu\text{g}/\text{m}^3$. Location SG-084, also located adjacent to the former Klink Cosmo Cleaners building, had a high PCE concentration (282,000 $\mu\text{g}/\text{m}^3$) requiring the laboratory to perform a dilution prior to sample analysis. Consequently, detection limits of some VOCs, including TCE (dilution detection limit of 1,030 $\mu\text{g}/\text{m}^3$), were higher than for remaining samples. Therefore, while TCE is reported as not detected in SG-084, it was not detected above 1,030 $\mu\text{g}/\text{m}^3$. Figure 4-12 depicts isoconcentration contours for TCE in soil vapor from analytical data collected during the RI Phase I. High levels of TCE detected away from the Klink Cosmo site, which were generally at locations of high PCE concentrations include:

- SG-056 at 3,090 $\mu\text{g}/\text{m}^3$ on Division Place;
- SG-042 at 2,850 $\mu\text{g}/\text{m}^3$ on Beadel Street; and
- SG-043 at 1,170 $\mu\text{g}/\text{m}^3$ on Beadel Street.

VOCs (in addition to PCE and TCE) detected in approximately half (or more) of the sampled locations include: 1,1,1-trichloroethane, 1,2,4-trimethylbenzene, benzene, cyclohexane, ethanol, hexane, toluene, and xylene. These contaminants suggest a possible petroleum or fuel source. Locations SG-019, SG-020, and SG-021 on Beadel Street east of Vandervoort Avenue; SG-047, SG-055, and SG-079 on Division Place east of Vandervoort Avenue; and SG-078 between these two cross streets east of Vandervoort Avenue all had significant concentrations of petroleum related compounds. SG-079 had the highest total VOCs concentration compared to the other locations in the area.

4.4.2 RI Phase II Soil Vapor Results

The locations of the VOCs detected in soil vapor during the RI Phase II including PCE and its breakdown products are shown on Figure 4-13. A summary of detected VOCs in the soil vapor and ambient air samples collected during the RI Phase II is presented in Table 4-20. Table 4-21 provides a statistical summary of the detected parameters for the RI Phase II air and soil vapor samples as follows: the number of detections; the minimum, maximum and average values; and the location of the maximum value. Table 4-22 provides a historical summary of the detected parameters for all air and soil vapor samples collected by URS in the Klink Cosmo site area since SC Phase I. Table 4-23 provides a statistical summary of the detected parameters for all samples collected by URS since SC Phase I in the Klink Cosmo area as follows: the number of samples, the number of detections; the minimum, maximum and average values; and the location of the maximum value. The complete validated analytical results from the RI air and soil vapor samples are presented in the DUSR in Appendix Q. Data summary tables and Form I's are provided in the DUSR and include the reporting limit for each non-detected compound.

Three ambient air samples were collected during the RI Phase II to represent background air conditions. VOCs detected in all three ambient air samples include benzene, ethanol, methyl ethyl ketone (MEK), methylene chloride, toluene, and xylene. Concentrations of VOCs in ambient air samples ranged from 1.0 to 21.9 ug/m³.

PCE was detected in all 38 sampling locations, at concentrations ranging from 21.9 µg/m³ to a maximum of 23,600,000 µg/m³ at location SG-116. PCE concentrations of 5,140,000; 1,740,000; 320,000; and 287,000 µg/m³ were detected at locations SG-049, SG-119, SG-118, and SG-117 respectively. All of these sampling locations are located to the north and along the east perimeter of the former Klink Cosmo Cleaners building. A PCE concentration of 227,000 µg/m³ was also detected

at location SG-087 west of the site along Morgan Avenue. Figure 4-14 depicts isoconcentration contours for PCE in soil vapor from analytical data collected during the RI Phase II. Additional high levels of PCE detected away from the Klink Cosmo site include:

- SG-086 at 22,200 $\mu\text{g}/\text{m}^3$; SG-058 at 8,800 $\mu\text{g}/\text{m}^3$; and SG-084 at 66,200 $\mu\text{g}/\text{m}^3$ on Richardson Street;
- SG-082 at 75,300 $\mu\text{g}/\text{m}^3$ and SG-083 at 280,000 $\mu\text{g}/\text{m}^3$ along Vandervoort Avenue east of the intersection with Richardson Street; and
- SG-056 at 19,000 $\mu\text{g}/\text{m}^3$ and SG-048 at 17,600 $\mu\text{g}/\text{m}^3$ on Division Place.

Concentrations of TCE were generally detected at locations where PCE was detected, at lower concentrations. The two locations with the highest PCE concentrations also have the highest TCE concentrations. Location SG-116 had TCE a concentration of 67,600 $\mu\text{g}/\text{m}^3$ and location SG-049 had a TCE concentration of 70,700 $\mu\text{g}/\text{m}^3$. Location SG-117, also located adjacent to the former Klink Cosmo site, had a high TCE concentration (4,800 $\mu\text{g}/\text{m}^3$). Figure 4-15 depicts isoconcentration contours for TCE in soil vapor from analytical data collected during the RI Phase II. High levels of TCE were also detected away from the Klink Cosmo site, which were generally found at locations also having high PCE concentrations include:

- SG-114 at 2,460 $\mu\text{g}/\text{m}^3$ along Vandervoort Avenue;
- SG-119 at 1,620 $\mu\text{g}/\text{m}^3$ at the northwest corner of Vandervoort Avenue and Frost Street; and
- SG-056 at 1,230 $\mu\text{g}/\text{m}^3$ on Division Place.

VOCs (in addition to PCE and TCE) detected in approximately half (or more) of the sampled locations include: 1,1,1-trichloroethane, 1,2,4-trimethylbenzene, cis-1,2-dichloroethene, benzene, chloroform, ethanol, MEK, methylene chloride, hexane, toluene, and xylene. These contaminants suggest a possible petroleum or fuel source. The majority of soil vapor samples along Vandervoort Avenue and Division Place all had significant concentrations of petroleum related compounds. SG-113 (along Vandervoort Avenue) and SG-114 (along Division Place) had the highest total VOCs concentrations compared to other locations in the area. Fewer contaminants were present along Morgan Avenue and Richardson Street.

4.4.3 Summary of Soil Vapor Results

Soil vapor in the Klink Cosmo area has been adversely impacted by the presence of PCE, TCE and their daughter products. The elevated soil vapor concentrations were generally present to the west, north and the eastern perimeter of the former Klink Cosmo Cleaners building and immediately down gradient (SG-048, SG-060, SG-082, SG-083, SG-084, SG-086, SG-087, SG-116, SG-117, SG-118, and SG-119). A second area of elevated soil vapor concentration was found north/ northwest of the site (i.e., SG-048 and SG-056).

The approximate size of the PCE and TCE plumes from RI Phase I and II are similar in size and appear to also mimic the extent of the dissolved phase shallow groundwater plume. The exception to this is the concentrations that exist along the west side of the former Klink Cosmo Cleaners building (i.e., SG-086 and SG-087) and north/ northwest of the site (i.e., SG-048 and SG-056).

5.0 CONTAMINANT FATE AND TRANSPORT

This section describes fate and transport processes that may influence the behavior of the contaminants detected at the site. The discussion emphasizes the processes that are essential in evaluating potential exposure of human and environmental receptors to the site contaminants detected at concentrations above the SCGs. The following items are presented in this section:

- General description of fate and transport processes occurring in soil, groundwater and soil vapor/air systems.
- Identification and description of properties of contaminants detected above the SCGs in the various media at the site.
- Media-specific and contaminant-specific evaluation of potential fate and transport mechanisms occurring at the site.

5.1 General Description of Fate and Transport Mechanisms

This section provides general descriptions of the fate and transport processes that can occur in the environment in which samples were collected as part of the site investigations. In addition, the site characteristics that can affect these processes are discussed.

5.1.1 Contaminants of Concern

Contaminants of concern which would be identified as from a former dry cleaners site include PCE and its degradation products, which as indicated on Figure 5-1, under anaerobic conditions are TCE, 1,2-dichloroethene, and vinyl chloride. These VOCs are predominantly chlorinated hydrocarbons. Other VOCs, SVOCs, and metals detected in soil, groundwater, and soil vapor samples within the Klink Cosmo project area are not necessarily the result of the former dry cleaners present on the Klink Cosmo property, and therefore, are not considered contaminants of concern.

5.1.2 Transport Processes

Contaminant transport in the subsurface can occur as movement of dissolved contaminants in groundwater; and/or as migration of volatilized contaminants in soil vapor. The primary transport mechanisms are advection, dispersion, and partitioning of mass.

Mass partitioning is a process in which contaminants move between different environmental media in response to concentration gradients. For example, contaminants dissolved in groundwater may sorb (i.e., attach) onto soil particles or volatilize into the soil vapor. The process may involve mass transfer in any direction between any of the environmental media. The net result of mass partitioning is the distribution of the contaminant between all phases that remain in physical contact with each other. Typically, mass partitioning acts to inhibit the migration of contaminants in groundwater or soil vapor by immobilizing a part of the mass in the soil matrix (retardation). However, the process may be reversed, resulting in the slow release of the sorbed contamination into the groundwater or soil vapor.

In the unsaturated zone (i.e., between ground surface and the water table), the total mass of a contaminant is partitioned between the dissolved phase (soil moisture), the gas phase (soil vapor), and the solid phase (soil matrix). In the saturated zone, the soil vapor phase is absent and the partitioning occurs only between the soil matrix and groundwater. Under equilibrium conditions, each phase contains a fraction of the total contaminant mass present in the system (i.e., total of all phase's equals 100 percent of the contaminant mass present). The relative mass fractions are determined by the properties of each contaminant and by the nature of the soil matrix. Equilibrium conditions may be disturbed by phenomena such as migration of contaminated groundwater or soil vapor into an area, or removal of contaminant mass from one of the media through degradation processes or gravity flow. Under these circumstances, concentration gradients are created resulting in the occurrence of mass transfer between the media.

The contaminant mass sorbed onto the soil matrix is essentially immobile. The exception is the mass in the topmost soil layer, which can be transported by processes capable of moving soil particles (wind, surface water runoff). However, since soil within most of the site area is not exposed due to covers such as pavement, sidewalks and buildings, this is not a significant transport pathway. Sorbed contaminants generally act as a source for the dissolved and gas phases.

Transport of contaminants dissolved in the soil moisture in the unsaturated zone is generally limited as a result of very low flow rates in the absence of full saturation. The only significant mechanisms may be driven by water level fluctuations (such as tidal influences and groundwater levels impacted by extraction wells on nearby properties) and gravity-driven downward flow during wet-weather periods, or possibly sewer lines which may be leaking and/or act as preferential pathways. Such vertical transport of contaminants acts as a source for the saturated zone below.

The contaminant mass contained within the soil vapor and within groundwater in the saturated zone is more mobile. Soil vapor can migrate in both vertical and horizontal directions in response to pressure gradients. The migration can create a discharge of contaminants into the atmosphere or building basements, or act as a source of contamination for groundwater in the saturated zone. Migrating soil vapor may transfer mass into the soil matrix and soil moisture in previously uncontaminated areas, thus increasing the areal extent of soil contamination in the unsaturated zone.

The primary transport mechanisms for contaminants dissolved in groundwater are advection and dispersion. Advection is the movement of the dissolved contaminants carried by the flow of groundwater. Dispersion refers to dissolved contaminants spreading due to the presence of non-uniformities of the groundwater flow field. Dispersion results in a general widening of a plume, as well in smearing of the plume boundaries. The magnitude of dispersion is site specific and is generally difficult to measure. Processes similar to those that occur for soil vapor can enable dissolved contaminants to reach a previously uncontaminated area and enter other environmental media.

Contamination migrating with soil vapor or groundwater constantly interacts with the soil matrix. The driving forces behind this process are created by concentration gradients between different phases and the properties of the contamination and the soil matrix. Contaminant mass may either sorb from the mobile soil vapor or groundwater onto the soil particles or it may undergo a reverse process of desorption.

In the case of sorption, contaminant mass is transferred from the mobile medium into the immobile soil medium. This phenomenon tends to decrease the velocity of contaminant migration, and is consequently referred to as retardation. The magnitude of the retardation depends on the properties of each contaminant and the soil matrix. The key indicator parameter for the retardation properties of the soil is the organic carbon content. Soils with high organic carbon content sorb dissolved contaminants more readily and create a more significant retardation effect than soil with limited, or no organic carbon content. Desorption is the reverse process. Contamination is transferred from the soil matrix into the groundwater or soil vapor. As a result, soil containing contaminant mass may act as a source if exposed to the less-contaminated soil vapor or groundwater. Desorption from soil into the soil vapor or groundwater is increasingly inhibited by increasing content of organic carbon in the soil.

5.1.3 Mass Destruction Processes

In the urban environment of the Klink Cosmo site, contaminant mass in the soil is not exposed at the ground surface. Contaminant mass contained within the saturated zone is not exposed to sunlight or the atmosphere. Therefore, abiotic mass destruction processes that rely on the presence of air or exposure to sunlight (such as hydrolysis and photolysis) have little impact within the subsurface and will not be discussed further.

The most significant mass destruction process that takes place in subsurface environment is microbial degradation. The most significant microbial degradation processes for organic contaminants that operate in groundwater systems are: biological oxidation (aerobic and anaerobic); reductive dechlorination; and cometabolic degradation. During degradation, organic compounds are transformed into daughter forms, which may be recalcitrant or further degradable. Daughter compounds can be either more or less toxic than the parent compounds. If a contaminant degrades into a sequence of degradable daughter compounds, it is ultimately fully metabolized into such compounds as carbon dioxide, methane, water, and chloride. Contaminants at the Klink Cosmo site, PCE and TCE, degrade to dichloroethene (1,2-DCE) and vinyl chloride (VC), as shown on Figure 5-1. Ultimately, PCE and TCE metabolize into carbon dioxide, and ethene.

5.1.4 Properties

VOCs, including PCE, TCE, and 1,2-DCE, are generally moderately to highly soluble in water. They readily volatilize into the atmosphere or soil vapor. At the surface, VOCs generally decay under the action of sunlight and upon the exposure to the atmosphere. Dissolved VOCs are transported by advection and dispersion in groundwater. The same processes of advection and dispersion are responsible for the migration of VOCs in the atmosphere or the soil vapor. These compounds have low to moderate organic carbon-to-water partitioning coefficients and do not readily partition into the soil, making them relatively mobile in the environment.

In the subsurface environment, chlorinated VOCs, including PCE, TCE and 1,2-DCE, undergo reductive dechlorination under anaerobic conditions but are typically recalcitrant under aerobic conditions. Benzene, toluene, ethylbenzene and xylenes (BTEX) compounds are relatively degradable under aerobic conditions and also degrade under anaerobic conditions, albeit at slower rates.

5.1.5 Source(s) of Contamination

In the past, the Klink Cosmo site was utilized as a dry cleaner facility. PCE is the main solvent used in dry cleaning. The original source of the PCE contamination is likely to be leakage from any storage tanks, drains which may have been used for disposal, and/or spills occurring during handling. However, the mechanism by which the source(s) act on the environment can be described based on the known factors, such as the nature of the chlorinated solvents and the observed distribution and level of the soil and ground water contamination.

Following the release of PCE, it migrates downward under the influence of gravity as a separate-phase liquid proceeding through the unsaturated zone. However, PCE is heavier than water and the downward migration continues after the spill reaches the saturated zone. During the migration, the total mass of PCE present in a flowable form is continuously depleted by the process of absorption within the soil. The migrating front leaves behind a zone where soil contains PCE in the form of separate-phase ganglia, immobilized between the soil particles and held in place by surface forces. If the PCE liquid encounters an impermeable barrier, such as a clayey silt or clay layer, it comes to rest on the surface of the barrier in the form of pools. However, if no such barrier is present and the aquifer is thick, all of the PCE mass is eventually absorbed and immobilized within the soil.

The zone of PCE ganglia and the liquid pools (if present) form the source of contamination within the aquifer. PCE constantly dissolves in ground water (saturated zone) and soil vapor (unsaturated zone), initiating mass transfer and destruction processes described in Section 5.1.2.

5.1.6 Fate and Transport in the Unsaturated Zone

5.1.6.1 Migration

The propagation of contaminants in the unsaturated zone is dominated by two processes: migration of the dissolved phase into infiltrating precipitation and migration of the volatilized contaminants in the soil vapor. Migration of the contamination adsorbed into soil with the fugitive dust emissions or surface runoff will generally not be an issue at this Site.

Most of the soil at the site is located under a relatively impervious cover (either pavement or buildings). DIs which lead to the storm sewers are present along the roadways. Infiltration from precipitation across the site area is limited to the cracks and joints of the pavement and concrete

surfaces. Therefore, the extent of the infiltration-induced migration is likely to be limited. The process is of little significance in the overall balance of mass transfer occurring at the site.

Contaminants of concern enter the soil vapor through the process of volatilization. The site and vicinity is almost entirely paved, and the thickness of the unsaturated zone is high. Therefore, the sources of contamination are not in close contact with the atmosphere. As a result, the lateral migration of the gas phase of the contamination is likely to be significant. Separated from direct contact with the atmosphere, the soil vapor will tend to migrate laterally, possibly at great distances, and seek discharge points at discrete locations, such as basements or underground sewer pipes.

The area contains little unvegetated and unpaved areas with the exception of the recreational areas across Vandervoort Avenue. Soil at the site does not generate fugitive dust emissions. Likewise, the erosion and transport of surface soils by runoff is not present onsite. Contamination adsorbed into soils is unlikely to migrate via the pathways of dust emissions or runoff transport.

5.1.6.2 Degradation

Generally, the occurrence and rates of unsaturated zone degradation have to be determined by means of field studies, such as, for example, respiration tests. However, this is only appropriate for contaminants that can be aerobically degraded. PCE is not readily aerobically degradable. Rates of biological degradation depend largely on the presence of water. In the unsaturated zone, sufficient water may not be present continuously, thus limiting the potential for the growth of microorganisms.

The Site area is mostly paved or covered by buildings. The unsaturated zone is not exposed to the action of sunlight and high temperature in the summer. Therefore, rates of abiotic degradation are likely to be very low, even in the top-most layers. In general, rates of contaminant degradation in the unsaturated zone are expected to be relatively low.

5.1.7 Fate and Transport in the Saturated Zone

5.1.7.1 Migration

Migration in the saturated zone takes place predominantly by means of the transport of the dissolved-phase contamination in groundwater. The dominant factors are the direction of the flow within the aquifer, the hydraulic gradient, the hydraulic conductivity of the aquifer material (both the average value and spatial distribution) and the chemical composition of the soil matrix.

The site is located within the Upper Glacial Aquifer. The aquifer is characterized by high hydraulic conductivity and low gradients but vary locally. In the immediate vicinity of the Klink Cosmo property, groundwater flow is east/northeast. The horizontal hydraulic gradient is between approximately 0.001 to 0.004 ft/ft. Vertical gradients are both downward in the vicinity of the site, and upward downgradient. Horizontal hydraulic conductivity values for the shallow overburden range from 2.69×10^{-5} cm/sec to 4.77×10^{-3} cm/sec. Horizontal hydraulic conductivity values for the deep overburden range from 9.74×10^{-3} cm/sec to 2.48×10^{-2} cm/sec.

The extent of the plume in the shallow and deep overburden has been mostly delineated; a PCE plume appears to originate from the Klink Cosmo site.

5.1.7.2 Degradation

Compounds detected at the site are potentially degradable in groundwater. The bulk of the contamination is present as chlorinated hydrocarbons, especially PCE. The predominant mechanism for the degradation of these compounds is reductive dechlorination. The likelihood of the occurrence of this pathway can be assessed using the following indicators (after the *Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Ground Water*, USEPA 1998). Table 5-1 summarizes groundwater analytical data that was collected in the vicinity of the Klink Cosmo area during previous phases of site characterization as well as both phases of the RI. This data includes both laboratory analytical results and field measured results. The March 2012 sampling results were used to establish the baseline data for future comparison of groundwater sampling data, which will be used to evaluate the potential for natural attenuation. The parameters listed below were considered in assessing the groundwater data.

Dissolved Oxygen

Dissolved oxygen (DO) is the most favored electron acceptor in biodegradation of hydrocarbons. Levels of less than 1 mg/L indicate that aerobic degradation has occurred, oxygen has been largely utilized, and a shift to anaerobic processes is taking place. Reductive dechlorination takes place under anaerobic conditions, generally when the DO levels are less than 0.5 mg/L. Typically, the anaerobic environment is created by the degradation of non-chlorinated compounds, such as BTEX. Following that, the likelihood of degradation of chlorinated hydrocarbons becomes high. Table 5-1 and Figures 5-2 and 5-3 present the dissolved oxygen levels at the site in the shallow and deep overburden, respectively. The data collected shows seven wells having DO values below the 0.5 mg/L

threshold, including DEC-007D, DEC-029TC, DEC-030D, DEC-031D, DEC-031TC, DEC-044D, and DEC-065D. This suggests that a significant portion of the site may be largely aerobic and that DO conditions to promote reductive dechlorination are generally not ubiquitous.

pH

The pH of groundwater has an effect on the presence and activity of microbial populations. Generally, microorganisms that are most efficient biodegraders prefer neutral pH values (6 to 8). Table 5-1 presents the pH levels at the site in the shallow and deep overburden. The range of values allowing the reductive dechlorination to occur is between 5 and 9. Values of pH are within the neutral range and within the range in which the biodegradation of chlorinated solvents can take place with a singular exception that during SC Phase VI, west of Morgan Avenue, a pH value of 4.82 in was recorded in DEC-078 in October 2011.

Oxidation/Reduction Potential

Oxidation/reduction potential (ORP) is measured as Eh. Reductive dechlorination becomes possible at Eh levels of less than approximately 50 millivolts (mV). The likelihood of its occurrence is significant for the ORP values less than -100 mV. Table 5-1 and Figures 5-4 and 5-5 present the measured ORP levels in the onsite shallow and deep overburden groundwater, respectively. For the March 2012 sampling round, the ORP values are between -100 and 242 mV. The majority of the recorded ORP values lie above the 0 mV indicating that the ORP conditions at the site are generally not suitable for reductive dechlorination. Negative ORP values occurred in DEC-011D, DEC-028D, DEC-029TC, DEC-031TC, DEC-043D, DEC-088D, DEC-090D, DEC-091, and DEC-091D. Based upon these results, the deeper overburden is more anaerobic than the shallow overburden.

Ferrous Iron

Iron-reducing conditions are favorable to the process of reductive dechlorination. Concentrations of ferrous iron higher than 1 mg/L suggest iron reduction is occurring, and thus oxidation/reduction (redox) conditions are suitable for reductive dechlorination. Table 5-1 presents the ferrous iron levels at the site in the shallow and deep overburden. For the October 2011 sampling round, concentrations of ferrous iron above 1 mg/L were reported at DEC-004, DEC-009, DEC-029TC, DEC-031TC, and DEC-071.

Sulfate

Sulfate may be used as an electron acceptor after dissolved oxygen has been depleted during anaerobic degradation. Reductive dechlorination can occur under favorable anaerobic conditions with sulfate concentrations below 20 mg/L; however, reductive dechlorination can still occur in groundwater plumes with high levels of sulfate. Table 5-1 presents the sulfate levels at the site in the shallow and deep overburden. Detected concentrations of sulfate from the March 2012 sampling round ranged from non-detect in DEC-071 to 380 mg/L in DEC-010. In samples from DEC-031TC, DEC-032, and DEC-091, sulfate concentrations were below 20 mg/L.

Organic Carbon

Organic carbon, either naturally occurring or anthropogenic, typically serves as the electron donor required to drive the dechlorination process. Levels above 20 mg/L are favorable. Table 5-1 summarizes the total organic carbon in groundwater during the October 2011 groundwater sampling round. None of the reported concentrations are above 20 mg/L. However, the ExxonMobil Off-Site Plume area (Roux, August 12, 2011) exists immediately north and east of the site area, and the LNAPL as a source of carbon can promote reductive dechlorination.

Chloride

Chloride levels two times higher than background may indicate that the compound has been produced as a byproduct of dechlorination. Typically, any high chloride levels occur within the downgradient portion of the plume undergoing dechlorination. Table 5-1 presents the chloride levels at the site in the shallow and deep overburden. Detected chloride concentrations from the March 2012 groundwater sampling round ranged from 40 mg/L in DEC-044 to 2,500 mg/L in DEC-029TC. Reported concentrations in the upgradient wells DEC-033, DEC-046/046D, DEC-047, and DEC-048 were 900 mg/L, 160/170 mg/L, 410 mg/L, and 140 mg/L, respectively. In the shallow and deep overburden groundwater, no trends in chloride concentrations are apparent.

Distribution of Chlorinated Species

Significant degradation of chlorinated solvents is marked by a shift in the relative concentrations of various compounds. As degradation progresses, the original compound released into the environment breaks down into the daughter product, where successively more chloride atoms are removed from the compound molecule and replaced with hydrogen. In this case, PCE would shift to TCE, then to DCE and finally to VC. Vinyl chloride is difficult to dechlorinate further (requires very

strong reducing conditions), but is readily oxidized under aerobic conditions to ethene. Under favorable anaerobic conditions, VC can be reduced to ethene as shown of Figure 5-1.

Figures 5-6 and 5-7 depict the concentrations of TCE in the shallow overburden and deep overburden, respectively, based upon groundwater data collected as part of the March 2012 sampling round. In the shallow overburden, the most concentrated portion of the TCE plume is situated along Lombardy Street and Beadel Street. In the deep overburden, the highest concentrations of TCE occurred in DEC-065D along Richardson Street and in DEC-006DD along Porter Avenue.

Figures 5-8 and 5-9 depict the concentrations of cis-1,2-DCE in the shallow overburden and deep overburden, respectively, based upon groundwater data collected as part of the March 2012 sampling round. Concentrations of cis-1,2-DCE are generally lower than the TCE concentrations. The horizontal extent of cis-1,2-DCE is diffusely scattered throughout the shallow overburden. In the deep overburden, cis-1,2-DCE is somewhat less concentrated than in the shallow overburden, but is also diffusely scattered throughout.

Figures 5-10 and 5-11 depict the concentrations of VC in the shallow overburden and deep overburden, respectively, based upon groundwater data collected as part of the March 2012 sampling round. VC was detected only scarcely in the shallow overburden, in DEC-009 at 37 ug/L. VC was not detected in the deep overburden.

Summary

Based upon the data collected to assess the potential for degradation of PCE in the groundwater system as presented above, there is evidence that some reductive dechlorination is occurring in the vicinity of the Site. Rates of degradation are very difficult to determine due to the unknown quantity of source material present beneath the Klink Cosmo Site. Based upon the geochemical conditions in the groundwater system, the aquifer is only slightly conducive for naturally occurring reductive dechlorination. It is possible that the geochemical conditions could be enhanced via in-situ bioremediation technologies to further promote higher rates of reductive dechlorination.

5.1.7.3 Overall Plume Behavior

Phase I RI

Based upon the RI Phase I sampling event, a dissolved chlorinated solvent plume appears to originate at the Klink Cosmo Site. In the shallow and deep groundwater regime, it appears that the chlorinated solvent plume has higher concentrations of PCE immediately north and east of the Klink Cosmo Site. PCE contamination appears to be spreading with groundwater movement towards the northeast and east, and also to a lesser extent, via downward migration to deeper geologic zones.

Phase II RI

Based upon the RI Phase II sampling event, the horizontal extent of the chlorinated solvents has been mostly delineated. RI Phase II PCE concentrations were marginally lower compared to RI Phase I concentrations except in the area of DEC-015D, DEC-007D, and DEC-006DD, which were higher. It appears that the chlorinated solvent plume in the shallow and deep overburden has higher concentrations of PCE immediately north and east of the Klink Cosmo site. The extent of PCE has a larger footprint in the shallow groundwater compared to the deep groundwater and appears to be moving with regional deep groundwater flow towards the northeast and comingles with the dissolved chlorinated solvent plume originating within the ACME Steel Areas. The vertical extent of PCE and TCE impacted groundwater was determined to extend down to the top of the Raritan Formation. The horizontal extent of PCE impacted groundwater in the deep overburden near the top of the Raritan Formation has not fully been delineated. The impacted groundwater appears to be migrating to the northeast and extends into the ACME Steel Areas in the vicinity the intersection of Porter Avenue and Lombardy Street. The vertical extent of PCE and TCE impacted groundwater is not expected to migrate below the top of the Raritan Formation due to its vast areal extent and low permeability.

6.0 QUALITATIVE HUMAN HEALTH EXPOSURE ASSESSMENT AND FISH AND WILDLIFE ASSESSMENT

This section presents the Qualitative Human Health Exposure Assessment (HHEA) and the Fish and Wildlife Resources Impact Analysis (FWRIA) for the site. This qualitative HHEA uses data and information collected during the SC Phase I through Phase VI and the RI Phases I and II to assess human health exposure in the immediate and surrounding areas. The qualitative HHEA provides an evaluation of potential adverse health effects under current and potential future site conditions that may result from exposure to contaminants attributable to former activities at the site.

6.1 Qualitative Human Health Exposure Assessment

This qualitative HHEA follows the general format and procedures set forth in the USEPA's Risk Assessment Guidance for Superfund. As such, it includes three of the four required components (the fourth component, Risk Characterization, is not included because this assessment is qualitative), which are presented in the following subsections. This qualitative HHEA uses data and information collected during the two phases of the RI, and appropriate information from site characterization activities to assess human health exposure in the immediate and surrounding areas. The qualitative HHEA provides an evaluation of potential adverse health effects under current and potential future site conditions that may result from exposure to contaminants attributable to former activities at the site.

6.1.1 Identification of Chemicals of Potential Concern

Based upon the analytical data obtained and presented in Section 4, the contaminants of potential concern (CPCs) were selected based on the frequency of detection, range of concentrations, and potential for migration, as well as whether the detected analytes exceeded applicable standards, criteria, or guidance values for the media. A “medium of potential concern” is identified as a physical medium (soil, groundwater, soil vapor) in which one or more contaminants were detected at concentrations exceeding their SCGs.

Of the soil samples analyzed for VOCs, SVOCs, pesticides and metals, a few were detected. Soil analytical results were compared to soil background concentrations (surface soil samples from McGolrick Park), and Part 375 unrestricted use criteria as presented on Tables presented in Section 4. The few metals which exceeded background concentrations or Part 375 unrestricted use criteria are not considered CPCs for soil.

Several VOCs were detected in groundwater. For groundwater, the SCGs are the NYSDEC Class GA (groundwater) standards and guidance values presented in TOGS 1.1.1, April 2000 (including subsequent revisions). All contaminants detected in groundwater that exceeded SCGs are considered CPCs. Table 6-1 presents a summary of CPCs for soil groundwater, and soil vapor.

Soil vapor was also sampled during the investigation and found to be contaminated with VOCs. There are no criteria for soil vapor analytical data; however, the NYSDOH Soil Vapor Guidance Decision Matrix 1 and 2 (NYSDOH, 2006 with 2008 updates) were utilized to evaluate the potential for soil vapor intrusion by reviewing sub-slab vapor concentrations for the VOCs relevant to the Decision Matrices: 250 $\mu\text{g}/\text{m}^3$ for TCE, carbon tetrachloride, and VC; and 1,000 $\mu\text{g}/\text{m}^3$ for PCE, 1,1,1-trichloroethane, 1,1-dichloroethene, and cis-1,2-dichloroethene. Detected analytical results were sufficiently high for either PCE and/or TCE at many locations to indicate the highest level of action recommended: mitigate. These compounds are therefore considered CPCs for soil vapor as indicated on Table 6-1.

6.2 Exposure Pathways

An exposure pathway is the manner by which an individual may come in contact with a contaminant. The elements of a completed exposure pathway include: the contaminated environmental media (i.e., soil, water, or soil vapor); the receptor (e.g., construction worker, onsite employee, public) exposed to the contamination; and the routes of exposure or how the contaminant enters the body (i.e., inhalation, ingestion, and/or absorption through the skin). Tables 6-2 and 6-3 present the exposure pathways assessed for the site under current and future land use scenarios, respectively. There are no exposure pathways from soil under either current or future use conditions as there are no CPCs in soil at the site. However, there are potential exposure pathways from soil vapor through the inhalation of VOCs to construction workers, onsite employees, and the public under both the current and future use scenarios. Exposure pathways are not complete for the public under current conditions for outdoor air, or for any receptors for groundwater. The following subsections discuss the rationale for identifying completed exposure pathways.

6.2.1 Soil

The Property is a commercial facility. There is no surface soil onsite since the entire surface of the Property is covered by the building, pavement and/or sidewalks. Subsurface soil is not accessible to the general public because soil on the Property is entirely covered by the building,

pavement and sidewalks. The only potential complete exposure is for construction workers who could come into contact with contaminated soil during intrusive activities; however, since there are no CPCs in soil at the site, this is not a completed exposure pathway.

6.2.2 Soil Vapor/Indoor Air

Currently, there are employees working within the onsite building. While there are no indoor air or sub-slab sample results, VOCs were detected at relatively high concentrations in soil vapor. The potential exists for these high concentrations to be present in soil vapor beneath the onsite building and nearby homes impacting indoor air quality. Therefore, there could be a completed pathway under the current and future use scenarios for onsite employees and the public. Under the current and future use scenarios, construction workers could come into contact with contaminated soil vapor. Therefore soil vapor is also considered a potentially completed exposure pathway under the current and future use scenarios for construction workers.

6.2.3 Outdoor Air

Since there are no CPCs in soil at the site, there is no potential for inhalation of VOCs from soil or fugitive dust for either the current use or future use scenarios.

6.2.4 Groundwater

Under the current use scenario, groundwater is not known to be used as a potable water supply (drinking water is supplied to local residents by the NYCDEP) or for any other known industrial purposes in the vicinity of the Property. Therefore, it is not a completed exposure pathway under the current use scenario. It is not anticipated that in the future, onsite groundwater would be used for potable purposes. Construction workers would not be exposed to groundwater contaminants during current or future intrusive activities as the depth to groundwater in the area of the site is a minimum of 24 feet bgs, and generally greater than 30 feet bgs.

6.2.5 Summary

Tables 6-2 and 6-3 present a summary of the potential routes of exposure, the potential receptors, and the potential completed pathways. There are no completed exposure pathways from soil under either current or future use conditions as there are no CPCs in soil at the site. However, there are potential exposure pathways from soil vapor through the inhalation of VOCs to construction workers,

onsite employees, and the public under both the current and future use scenarios. Exposure pathways are not complete for the public under current conditions for outdoor air, or for any receptors for groundwater.

6.3 Fish and Wildlife Resources Impact Analysis

This Fish and Wildlife Resources Impact Analysis has been prepared for the Site located in Brooklyn, Kings County, New York. The Site location is shown on Figure 1-1. An aerial view of the Site and vicinity is presented as Figure 1-2.

The FWRIA follows the guidance provided by the NYSDEC Division of Fish and Wildlife (NYSDEC 1994). The FWRIA is a stepwise process that was developed to determine the nature and extent of ecological impacts from hazardous waste sites in New York State. The objective of Step I of the FWRIA process is to identify fish and wildlife resources that exist on and/or adjacent to the Site.

6.3.1 Step I.A – Covertypes Map

An aerial photography-based cover type map of the area within a one-half mile radius of the Site (project area) is presented as Figure 6-1. The Site is zoned M1-1 for a light industrial and manufacturing district. The Site is currently the location of a commercial business. The project area is highly urbanized with commercial, industrial, residential, and road and utility development. Land use in the surrounding area is predominantly industrial and commercial. A large apartment building complex is located southwest of the Site.

Newtown Creek, designated Class SD marine water by the NYSDEC, is located approximately 2,500 feet east of the Site. The SD classification for marine waters indicates a best usage for fishing, but these waters may not support fish propagation. Newtown Creek is an estuary connected with the East River. Newtown Creek was designated as a Superfund site in 2010. The East River is located approximately 7,000 feet west of the Site. The East River is classified as a Class I saline surface water. The best usages of Class I waters are secondary contact recreation and fishing. These waters are suitable for fish, shellfish, and wildlife propagation and survival. The East River is a New York State-protected stream.

6.3.2 Step I.B – Description of Fish and Wildlife Resources

6.3.2.1 Fish and Wildlife Resources and Covertypes

There are no NYSDEC Wetlands, Critical Habitats or designated Wild, Scenic or Recreational Rivers mapped within the project area. The project area is composed of three vegetated terrestrial-cultural covertypes: mowed grass with trees (landscaped areas associated with residential, commercial and industrial facilities); mowed grass (associated with lawns and park facilities such as baseball diamonds); and urban vacant lot (associated with vegetated areas with exposed soil, rubble and debris). The remainder of the project area is included in the terrestrial-cultural urban structure exterior covertype. This covertype includes the exterior surfaces of metal, wood or concrete structures such as buildings, roads, storage areas and parking lots.

6.3.2.2 Fauna Expected within each Covertype and Aquatic Resource

The three terrestrial-cultural covertypes in the project area provide limited feeding, resting and breeding habitat for birds and small mammals. Wildlife species typically associated with these covertypes in an urbanized environment include the Norway rat, house mouse, deer mouse, gray squirrel and several common bird species including rock pigeon, house sparrow, European starling, red-tailed hawk, American kestrel, herring gull, ring-billed gull and mourning dove. Spring, winter and fall migrant bird species may pass over the project area or rest and feed in the area on a transient basis. The urban vacant lot and mowed grass covertypes may present suitable breeding habitat for killdeer.

The NYSDEC Division of Fish and Wildlife & Marine Resources New York Natural Heritage Program was contacted regarding the presence of State-listed rare, threatened and endangered species or habitats at the Site. In their response letter dated March 21, 2011 (provided in Appendix R), the NYSDEC indicated that:

“We have no records of rare or state-listed animals or plants, significant natural communities or other significant habitats, on or in the immediate vicinity of your site.”

According to the NYSDEC Environmental Resource Mapper, the Site is located within the historic range of the American burying beetle (*Nicrophorus americanus*). The Site does not provide suitable habitat for the American burying beetle. This species requires natural soil and vegetation resources for propagation. The United States Fish and Wildlife Service (USFWS) identified the

Federally Endangered shortnose sturgeon (*Acipenser brevirostrum*) as present within Kings County. The USFWS noted that this sturgeon occurs primarily in the Hudson River. The Site would have no impact on this species.

There are no United States Fish and Wildlife Service (USFWS) National Wetland Inventory (NWI) wetlands mapped in the project area.

6.3.2.3 Observations of Stress

No atypical biotic conditions such as reduced vegetative growth and density, wildlife mortality, changes in species assemblages and distribution, or the absence of expected biota have been observed at the Site.

6.3.3 Step I.C – Description of Fish and Wildlife Resource Values

Because of its location in an urbanized area and the presence of the building and sidewalks which cover the entire surface of the Site, the Site provides very limited habitat for urban-dwelling wildlife. The Site does not provide any current or potential value to humans as a nature recreation area.

6.3.4 Step I.D – Identification of Applicable Fish and Wildlife Regulatory Criteria

No USFWS NWI or State-regulated wetlands or other aquatic resources are located on or adjacent to the Site. The Site does not provide suitable habitat for wildlife other than urban dwelling species. Newtown Creek, located approximately 2,500 feet east of the Site, and the East River, located approximately 7,000 feet west of the Site, are regulated by the U.S. Army Corps of Engineers under Section 10 of the Rivers and Harbors Act and Section 404 of the Clean Water Act. They are also regulated by the NYSDEC under Section 401 of the Clean Water Act. The East River is regulated by the State under the Protection of Waters Program (Article 15 of the ECL).

6.3.5 Summary and Recommendations

The Site is located in an old, highly developed, urbanized area. Plant communities in the project area include mowed lawn and trees, mowed lawn, and vegetated areas on disturbed sites. These communities are associated with residential, commercial and industrial areas in the project area. No plant communities were identified on the Site. The results of the FWRIA Step I analysis indicate that

there is limited potential for wildlife at the Site. Because of its location in an urbanized area and the presence of the building and sidewalks which cover the entire surface of the Site, the Site provides very little if any suitable habitat for wildlife. The Site does not provide any current or potential value to humans as a nature recreation area.

7.0 SUMMARY AND RECOMMENDATIONS

7.1 Summary

Based upon the results of the previous site investigations, the following conclusions are provided. Field investigations performed in the Klink Cosmo area are the SC Phases I, II, III, and VI and the RI Phases I and II.

7.1.1 Geology

- The following textural units have been found in the upper glacial aquifer in most borings, from the surface downward: a fill unit; a sand unit or a discontinuous glacial till unit; a sand unit if the discontinuous glacial till unit was encountered at the surface; a discontinuous clayey silt unit within the sand unit; sand and gravel unit; and the Raritan Formation. Due to the heterogeneous nature of the geology, some but not all of the units may or may not be present at each boring. The thickness of the upper glacial aquifer in the Klink Cosmo area is approximately 108.5 to more than 113.0 feet thick. The Raritan Formation was encountered between -73.31 and -74.05 feet amsl.
- The top of the Raritan Formation (i.e., a regional aquiclude) was encountered across the Meeker Plume Trackdown Site area. The Raritan Formation elevation near the Klink Cosmo site varied between -73.31 to -74.05 feet above mean sea level (amsl) and has been described as gray with white banding, brown, brownish gray, greenish gray, dark gray to greenish brown, fine sand and silt, clays mixed with carbonized plant fragments and clays with varying amounts of sand, to silts with varying amounts of sand and clay. The top of the Raritan Formation slopes towards the northwest. The Raritan Formation is a well-defined aquiclude regionally and has significant lateral extent. Permeabilities within the unit are less than 10^{-6} centimeters per second (cm/sec).
- The water table surface may be found between approximately 24 and 50 feet bgs. In the immediate vicinity of the Klink Cosmo area, the shallow and deep groundwater flow is east/northeast. In the immediate vicinity of the Klink Cosmo area, groundwater measurements in the top of Raritan Formation monitoring wells were similar (2 feet amsl in DEC-031TC and 2.18 feet amsl in DEC-029TC).

- The horizontal hydraulic gradient of the shallow groundwater flow during the RI Phase I and RI Phase II field activities was approximately less than 0.001 to 0.004 foot per foot (ft/ft).
- Horizontal hydraulic conductivity values for the shallow overburden range from 2.69×10^{-5} cm/sec to 4.77×10^{-3} cm/sec. Horizontal hydraulic conductivity values for the deep overburden range from 9.74×10^{-3} cm/sec to 2.48×10^{-2} cm/sec.
- Vertical hydraulic gradients in well pairs DEC-043/043D, DEC-065/065D, and DEC-066/066D are positive or downwards (0.004, 0.014, 0.004 ft/ft, respectively). Vertical hydraulic gradients in the majority of well pairs downgradient of the site, DEC-014R/014D, DEC-015/015D, DEC-029/029D, DEC-031/031D, DEC-045/045D, and DEC-064/064D, were slightly negative, or upwards (-0.002 to -0.007 ft/ft) based upon the water level information. Vertical hydraulic gradients in well pairs DEC-006D/006DD, DEC-007/007D, DEC-013/013D, DEC-030/030D, and DEC-044/044D were also upwards but were greater in magnitude (-0.012 to -0.017 ft/ft).
- The vertical hydraulic gradients in top of Raritan Formation well triplets were similar in direction and magnitude during RI Phase II field activities. Vertical hydraulic gradients between the shallow and top of Raritan Formation wells at DEC-029/029TC and DEC-031/031TC were slightly negative or upwards (-0.002 to -0.006 ft/ft, respectively). Vertical hydraulic gradients between the deep and top of Raritan Formation wells at DEC-029D/029TC and DEC-031D/031TC were slightly positive or downwards (0.004 to 0.003 ft/ft, respectively).

7.1.2 Soil

Soil sample results were compared to background, unrestricted use, residential, restricted residential and protection of groundwater criteria. PCE and its daughter compound TCE were not found to exceed any soil criteria at any locations.

7.1.3 Groundwater

Based on the RI Phase II groundwater sampling results, PCE detected was in numerous groundwater monitoring wells in both shallow and deep overburden groundwater. It was either not detected or detected below SCGs in several monitoring wells upgradient of the site (ND in DEC-032,

2.1 µg/L in DEC-033, 2.5 µg/L in DEC-047, 4.4 D µg/L in DEC-048, ND in DEC-091), and in DEC-004 (1.2 µg/L) downgradient of the site. In the deep overburden PCE was either not detected or detected below SCGs upgradient of the site (3.5 µg/L in DEC-046D), and in DEC-031D (3.6 µg/L) and DEC-044D ND) north of the property, in DEC-011D (1.9 µg/L) west of the property, and in DEC-045D (ND), DEC-066D (ND), and DEC-091D (3.3 µg/L) east of the property. The highest concentration of PCE in the shallow overburden was detected at DEC-14R (15,000 µg/L) located downgradient of the site, followed by DEC-029 (12,000 µg/L) located downgradient of DEC-14R, DEC-031 (9,200 µg/L) located on the northeast corner of the Klink Cosmo property, and DEC-090 (2,400 µg/L) located downgradient of DEC-031. The highest concentration of PCE in the deep overburden was detected at DEC-089D (1,200 µg/L), followed by DEC-006DD (320 µg/L), and DEC-015D (310 µg/L), located downgradient of the site. Elevated concentrations of PCE were found at DEC-029TC (4,500 µg/L) which, is located downgradient of the Klink Cosmo property above the top of the Raritan Formation. The concentration of PCE at DEC-031TC (1.9 µg/L) which is located at the northeast corner of the former Klink Cosmo building, is three orders of magnitude lower.

TCE and cis-1,2-DCE were generally detected above criteria, but at lower concentrations than PCE, to the north and northeast of the Site. Vinyl chloride was only sporadically detected and exceeded criteria in DEC-009 (north of the site) at 37 µg/L. Similar to wells with PCE and TCE, during Phase I and II, some degradation products have typically been found in monitoring wells to the northeast and east indicating some degradation of the plume due to reductive dechlorination. The absence of significant daughter breakdown products indicates that substantial chlorinated hydrocarbon reduction is not occurring at a large scale.

Based upon the RI Phase II sampling event, a dissolved chlorinated solvent plume originates at the Klink Cosmo Site. The horizontal extent of the chlorinated solvents has been mostly delineated. RI Phase II PCE concentrations were marginally lower as compared to RI Phase I concentrations except in the area of DEC-015D, DEC-007D, and DEC-006DD, which were higher. It appears that the chlorinated solvent plume in the shallow and deep overburden has higher concentrations of PCE immediately north and east of the Klink Cosmo site. The extent of PCE has a larger footprint in the shallow groundwater compared to the deep groundwater and appears to be moving with regional deep groundwater flow towards the northeast and comingles with the dissolved chlorinated solvent plume originating within the ACME Steel Areas. The vertical extent of PCE and TCE impacted groundwater was determined to extend down to the top of the Raritan Formation. The horizontal extent of PCE impacted groundwater in the deep overburden near the top of the Raritan Formation has not fully been

delineated. The impacted groundwater appears to be migrating to the northeast and extends into the ACME Steel Areas in the vicinity the intersection of Porter Avenue and Lombardy Street. The vertical extent of PCE and TCE impacted groundwater is not expected to migrate below the top of the Raritan Formation due to its vast areal extent and low permeability.

Based upon the data collected to assess the potential for degradation of PCE in the groundwater system as presented above, there is evidence that some reductive dechlorination is occurring in the vicinity of the site. Rates of degradation are very difficult to determine due to the unknown quantity of source material present beneath the Klink Cosmo site. Based upon the geochemical conditions in the groundwater system, the aquifer is only slightly conducive for naturally occurring reductive dechlorination. It is possible that the geochemical conditions could be enhanced via in-situ bioremediation technologies to further promote higher rates of reductive dechlorination.

7.1.4 Non-Aqueous Phase Liquids

During the RI Phase I field activities, LNAPL found in DEC-048 was analyzed and a fuel oil was detected at a concentration of 950,000 mg/kg (95%). NYSDEC Spill No. 1103190 was assigned on June 21, 2011 to the LNAPL found in this area. The specific gravity measured (0.8608), and organic compounds detected in the sample were consistent with fuel oil(s).

7.1.5 Soil Vapor

Soil vapor in the Klink Cosmo area has been adversely impacted by the presence of PCE, TCE and their daughter products. The elevated soil vapor concentrations were generally present to the west, north and the eastern perimeter of the former Klink Cosmo Cleaners building and immediately down gradient (SG-048, SG-060, SG-082, SG-083, SG-084, SG-086, SG-087, SG-116, SG-117, SG-118, and SG-119). A second area of elevated soil vapor concentration was found north/ northwest of the site (i.e., SG-048 and SG-056).

The approximate size of the PCE and TCE plumes from RI Phase I and II are similar in size and appear to also mimic the extent of the dissolved phase shallow groundwater plume. The exception to this is the concentrations that exist along the west side of the former Klink Cosmo Cleaners building (i.e., SG-086 and SG-087) and north/ northwest of the site (i.e., SG-048 and SG-056).

7.1.6 Qualitative Human Health Exposure Assessment

There are no completed exposure pathways from soil under either current or future use conditions as there are no CPCs in soil at the site. However, there are potential exposure pathways from soil vapor through the inhalation of VOCs to construction workers, onsite employees, and the public under both the current and future use scenarios. Exposure pathways are not complete for the public under current conditions for outdoor air, or for any receptors for groundwater.

7.1.7 Fish and Wildlife Resources Impact Analysis

Results of the Fish and Wildlife Resources Impact Analysis indicate that the site is located in an old, highly developed, urbanized area. Plant communities in the project area include mowed lawn and trees, mowed lawn, and vegetated areas on disturbed sites. These communities are associated with residential, recreational, commercial and industrial areas in the project area. No plant communities were identified on the site. The results of the FWRIA Step I analysis indicate that there is limited potential for wildlife at the site. Because of its location in an urbanized area and the presence of the building and sidewalks which cover most of the surface of the site, the site provides very little if any suitable habitat for wildlife other than Norway rat, house mouse and perching birds. The site does not provide any current or potential value to humans as a nature recreation area.

7.1.8 Source Characterization

Based on the results of all soil vapor, soil and groundwater data collected to date, the former Klink Cosmo Cleaners is the origin of PCE and TCE contamination which has migrated to the east, north, and northeast of the building that formerly housed the dry cleaning operations. The exact location of the PCE source has yet to be determined and most likely lies beneath the building. Additional intrusive and non-intrusive methods of investigation inside the building that housed the former Klink Cosmo Cleaners are warranted to determine the location(s) and size(s) of the PCE source(s) material(s).

7.2 Recommendations

The following recommendations are offered for consideration by the NYSDEC. The recommendations include additional Remedial Investigation/Feasibility Study (RI/FS) activities.

- One top of clay monitoring well should be installed to an approximate depth of 125 feet at DEC-006TC. The construction specification of the top of clay well is discussed in more detail below. The rationale for the top of clay well location can be found in Table 7-1 and the proposed location is shown on Figure 7-1.
- At the top of clay well location, a hybrid well consisting of a 10-foot screen of 4-inch ID, Type 304 stainless steel 0.010-inch slot screen with a 2-foot long sump, 10 feet of 4-inch ID, Type 304 stainless steel riser above the screen and, 4-inch ID, Schedule 40 PVC the remainder of the well string, to the surface, should be set. A 00 or 00N size sand pack will be installed from the bottom of the well up to 2 feet above the top of the well screens. A cement/bentonite slurry will then be installed around the riser to an elevation of 1-foot below grade via tremie pipe. A 12-inch diameter, flush-mount protective casing will complete the well.
- Up to sixteen soil borings should be advanced within the building that housed the former Klink Cosmo dry cleaners. The borings should be installed through the building floor slab(s) to assist in determining the location and horizontal and vertical extent of source material. The borings should be advanced in a grid like pattern using a remote access drill rig(s) or direct-push unit(s). The proposed locations are shown on Figure 7-1.
- Up to five soil samples should be collected from each boring location to establish the full vertical extent of impact within each soil boring. At a minimum, one soil sample should be collected from the interval just above the water table; the second sample should be collected from the interval exhibiting odors, staining, or the highest PID reading; and additional samples should be collected below intervals of significant impact. If no odors, staining, or elevated PID reading are encountered, then only one sample from the interval just above the water table should be collected, as per the FAP (URS, April 2010). All soil samples should be analyzed for TCL VOCs plus TICs by 8260B.
- A visual inspection will be performed inside the former Klink Cosmo building to look for any apparent point sources (i.e., floor drains/grates, former tank locations, dry wells and/or former dry cleaning machinery locations). If floor drains/grates and/or dry wells are located, the floor drain cover(s)/grate(s) should be removed and up to ten sediment samples should be collected and analyzed for TCL VOCs plus TICs by 8260B. A video

inspection and Ground Penetrating Radar geophysical survey should be conducted to determine the location of the discharge piping (if any), and a dye tracer test should also be conducted using an environmentally friendly tracer dye to determine the outflow discharge points from the floor grates (if any).

- One soil vapor extraction (SVE) well should be installed to allow for a SVE pilot test to be performed in the vicinity of the northeast corner of the former Klink Cosmo building. The water table is at an approximate depth of 35 feet bgs. In order to minimize groundwater inflow and capture by the SVE extraction wells, the well screen will be approximately 3 feet above the water table. In order to avoid drawing outdoor air into the well screen (i.e., short-circuiting), the screen will be approximately 20 feet below the ground surface. The SVE well should be screened from approximately 20 to 30 feet bgs. The SVE well should be constructed with 2-inch ID PVC screen and PVC riser. A 00 or 00N size sand pack should be installed from the bottom of the well up to 2 feet above the top of the well screen. Bentonite chips should then be installed around the riser to an elevation of 1-foot below grade and hydrated. A 12-inch diameter, flush-mount protective casing should complete the well. The proposed location of the SVE well is shown on Figure 7-1.
- Three vacuum observation wells should be installed to allow for soil vapor test monitoring. The observation wells should be spaced at 5, 10, and 15 feet laterally from the SVE well and used to establish the radius of influence. Each observation well should be screened from approximately 20 to 30 feet bgs. The observation wells should be constructed with 2-inch ID PVC screen and PVC riser. A 00 or 00N size sand pack should be installed from the bottom of the well up to 2 feet above the top of the well screen. Bentonite chips should then be installed around the riser to an elevation of 1-foot below grade and hydrated. A 12-inch diameter, flush-mount protective casing should complete each well. The proposed locations of the observation wells are shown on Figure 7-1.
- Up to five air sparging wells should be installed in the vicinity of the SVE pilot test area to depths up to 60 feet bgs. The air sparging wells will be used to enhance SVE recovery rates. The air sparging wells should be constructed with 2-inch ID PVC screen in the bottom 2 feet and solid PVC riser. A 00 or 00N size sand pack should be installed from

the bottom of the well up to 2 feet above the top of the well screen. Bentonite chips should then be installed around the riser to an elevation of 1-foot below grade and hydrated. A 12-inch diameter, flush-mount protective casing should complete each well.

- An SVE/Air Sparging pilot test should be performed. A technical memorandum will be compiled detailing the SVE and air sparging test requirements following a discussion with the NYSDEC Project Manager and prior to testing.

8.0 REFERENCES

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TABLES

TABLE 2-1
SUMMARY OF PARAMETERS ANALYZED IN RI
FORMER KLINK COSMO SITE

PARAMETER	SOIL	GROUNDWATER	NAPL	SOIL GAS
Volatiles by 8260B				
1,1,1,2-Tetrachloroethane	X	X	X	--
1,1,1-Trichloroethane	X	X	X	X
1,1,2,2-Tetrachloroethane	X	X	X	X
1,1,2-Trichloro-1,2,2-trifluoroethane	X	X	X	X
1,1,2-Trichloroethane	X	X	X	--
1,1-Dichloroethane	X	X	X	X
1,1-Dichloroethene	X	X	X	X
1,1-Dichloropropene	X	X	X	--
1,2,3-Trichlorobenzene	X	X	X	--
1,2,3-Trichloropropane	X	X	X	--
1,2,4-Trichlorobenzene	X	X	X	X
1,2,4-Trimethylbenzene	X	X	X	X
1,2-Dibromo-3-chloropropane	X	X	X	--
1,2-Dibromoethane (Ethylene dibromide)	X	X	X	X
1,2-Dichlorobenzene	X	X	X	X
1,2-Dichloroethane	X	X	X	X
1,2-Dichloroethene (cis)	X	X	X	X
1,2-Dichloroethene (trans)	X	X	X	X
1,2-Dichloropropane	X	X	X	X
1,2-Dichlorotetrafluoroethane	--	--	--	X
1,3,5-Trimethylbenzene (Mesitylene)	X	X	X	X
1,3-Butadiene	--	--	--	X
1,3-Dichlorobenzene	X	X	X	X
1,3-Dichloropropane	X	X	X	--
1,3-Dichloropropene (cis)	X	X	X	X
1,3-Dichloropropene (trans)	X	X	X	X
1,4-Dichlorobenzene	X	X	X	X
1,4-Dioxane	X	X	X	X
2,2,4-Trimethylpentane	--	--	--	X
2,2-Dichloropropane	X	X	X	--
2-Chlorotoluene	X	X	X	--
2-Hexanone	X	X	X	--
4-Chlorotoluene	X	X	X	--
4-Isopropyltoluene (p-Cymene)	X	X	X	--
4-Methyl-2-pentanone	X	X	X	X
Acetone	X	X	X	--
Benzene	X	X	X	X
Benzyl chloride	--	--	--	X
Bromobenzene	X	X	X	--
Bromochloromethane	X	X	X	--
Bromodichloromethane	X	X	X	X
Bromoform	X	X	X	X
Bromomethane	X	X	X	X
Carbon disulfide	X	X	X	--
Carbon tetrachloride	X	X	X	X
Chlorobenzene	X	X	X	X
Chloroethane	X	X	X	X
Chloroform	X	X	X	X
Chloromethane	X	X	X	X

* = Not all samples analyzed for these parameters.

X = Parameter analyzed.

-- = not analyzed for this parameter.

TABLE 2-1
SUMMARY OF PARAMETERS ANALYZED IN RI
FORMER KLINK COSMO SITE

PARAMETER	SOIL	GROUNDWATER	NAPL	SOIL GAS
Cyclohexane	X	X	X	X
Dibromochloromethane	X	X	X	X
Dibromomethane	X	X	X	--
Dichlorodifluoromethane	X	X	X	X
Ethylbenzene	X	X	X	X
Ethanol	--	--	--	X
Hexachlorobutadiene	X	X	X	X
n-Hexane	--	--	--	X
Iodomethane (Methyl iodide)	X	X	X	--
Isopropylbenzene (Cumene)	X	X	X	--
Methyl acetate	X	X	X	--
Methyl ethyl ketone (2-Butanone)	X	X	X	X
Methyl tert-butyl ether	X	X	X	X
Methylcyclohexane	X	X	X	--
Methylene chloride	X	X	X	X
Naphthalene	X	X	X	--
n-Butylbenzene	X	--	X	--
n-Propylbenzene	X	--	X	--
sec-Butylbenzene	X	X	X	--
Styrene	X	X	X	X
t-Butyl alcohol	--	--	--	X
tert-Butylbenzene	X	X	X	--
Tetrachloroethene	X	X	X	X
Toluene	X	X	X	X
Trichloroethene	X	X	X	X
Trichlorofluoromethane	X	X	X	X
Vinyl acetate	X	X	X	--
Vinyl chloride	X	X	X	X
Xylene (total)	X	X	X	X
Semivolatiles by 8270C*				
1,1-Biphenyl	X	X	X	--
2,2-oxybis(1-Chloropropane)	X	X	X	--
2,4,5-Trichlorophenol	X	X	X	--
2,4,6-Trichlorophenol	X	X	X	--
2,4-Dichlorophenol	X	X	X	--
2,4-Dimethylphenol	X	X	X	--
2,4-Dinitrophenol	X	X	X	--
2,4-Dinitrotoluene	X	X	X	--
2,6-Dinitrotoluene	X	X	X	--
2-Chloronaphthalene	X	X	X	--
2-Chlorophenol	X	X	X	--
2-Methylnaphthalene	X	X	X	--
2-Methylphenol (o-cresol)	X	X	X	--
2-Nitroaniline	X	X	X	--
2-Nitrophenol	X	X	X	--
3&4-Methylphenol	X	X	X	--
3,3-Dichlorobenzidine	X	X	X	--
3-Nitroaniline	X	X	X	--
4,6-Dinitro-2-methylphenol	X	X	X	--
4-Bromophenyl-phenylether	X	X	X	--

* = Not all samples analyzed for these parameters.

X = Parameter analyzed.

-- = not analyzed for this parameter.

TABLE 2-1
SUMMARY OF PARAMETERS ANALYZED IN RI
FORMER KLINK COSMO SITE

PARAMETER	SOIL	GROUNDWATER	NAPL	SOIL GAS
4-Chloro-3-methylphenol	X	X	X	--
4-Chloroaniline	X	X	X	--
4-Chlorophenyl-phenylether	X	X	X	--
4-Nitroaniline	X	X	X	--
4-Nitrophenol	X	X	X	--
Acenaphthene	X	X	X	--
Acenaphthylene	X	X	X	--
Acetophenone	X	X	X	--
Anthracene	X	X	X	--
Atrazine	X	X	X	--
Benzaldehyde	X	X	X	--
Benzo(a)anthracene	X	X	X	--
Benzo(a)pyrene	X	X	X	--
Benzo(b)fluoranthene	X	X	X	--
Benzo(g,h,i)perylene	X	X	X	--
Benzo(k)fluoranthene	X	X	X	--
bis(2-Chloroethoxy)methane	X	X	X	--
bis(2-Chloroethyl)ether	X	X	X	--
bis(2-Ethylhexyl)phthalate	X	X	X	--
Butylbenzylphthalate	X	X	X	--
Caprolactam	X	X	X	--
Carbazole	X	X	X	--
Chrysene	X	X	X	--
Dibenz(a,h)anthracene	X	X	X	--
Dibenzofuran	X	X	X	--
Diethylphthalate	X	X	X	--
Dimethylphthalate	X	X	X	--
Di-n-butylphthalate	X	X	X	--
Di-n-octylphthalate	X	X	X	--
Fluoranthene	X	X	X	--
Fluorene	X	X	X	--
Hexachlorobenzene	X	X	X	--
Hexachlorobutadiene	X	X	X	--
Hexachlorocyclopentadiene	X	X	X	--
Hexachloroethane	X	X	X	--
Indeno(1,2,3-cd)pyrene	X	X	X	--
Isophorone	X	X	X	--
Naphthalene	X	X	X	--
Nitrobenzene	X	X	X	--
N-Nitroso-di-n-propylamine	X	X	X	--
N-Nitrosodiphenylamine	X	X	X	--
Pentachlorophenol	X	X	X	--
Phenanthrene	X	X	X	--
Phenol	X	X	X	--
Pyrene	X	X	X	--
Pesticides by 8081A*				
4,4'-DDD	X	X	--	--
4,4'-DDE	X	X	--	--
4,4'-DDT	X	X	--	--
Aldrin	X	X	--	--

* = Not all samples analyzed for these parameters.

X = Parameter analyzed.

-- = not analyzed for this parameter.

TABLE 2-1
SUMMARY OF PARAMETERS ANALYZED IN RI
FORMER KLINK COSMO SITE

PARAMETER	SOIL	GROUNDWATER	NAPL	SOIL GAS
alpha-BHC	X	X	--	--
alpha-Chlordane	X	X	--	--
beta-BHC	X	X	--	--
delta-BHC	X	X	--	--
Dieldrin	X	X	--	--
Endosulfan I	X	X	--	--
Endosulfan II	X	X	--	--
Endosulfan sulfate	X	X	--	--
Endrin	X	X	--	--
Endrin aldehyde	X	X	--	--
Endrin ketone	X	X	--	--
gamma-BHC (Lindane)	X	X	--	--
gamma-Chlordane	X	X	--	--
Heptachlor	X	X	--	--
Heptachlor epoxide	X	X	--	--
Methoxychlor	X	X	--	--
Toxaphene	X	X	--	--
Herbicides by 8151A*				
2,4,5-T	X	--	--	--
2,4,5-TP (Silvex)	X	--	--	--
2,4-D	X	--	--	--
2,4-DB	X	--	--	--
Dalapon	X	--	--	--
Dicamba	X	--	--	--
Dichlorprop	X	--	--	--
Dinoseb	X	--	--	--
MCPA	X	--	--	--
MCPB	X	--	--	--
MCPB	X	--	--	--
MCPB	X	--	--	--
PCBs by 8082*				
Aroclor 1016	X	X	--	--
Aroclor 1221	X	X	--	--
Aroclor 1232	X	X	--	--
Aroclor 1242	X	X	--	--
Aroclor 1248	X	X	--	--
Aroclor 1254	X	X	--	--
Aroclor 1260	X	X	--	--
Aroclor 1262	X	X	--	--
Aroclor 1268	X	X	--	--
Metals by 6010B/7470A/7471A*				
Aluminum	X	X	--	--
Antimony	X	X	--	--
Arsenic	X	X	--	--
Barium	X	X	--	--
Beryllium	X	X	--	--
Cadmium	X	X	--	--
Calcium	X	X	--	--
Chromium	X	X	--	--
Chromium VI	X	--	--	--
Cobalt	X	X	--	--

* = Not all samples analyzed for these parameters.

X = Parameter analyzed.

-- = not analyzed for this parameter.

TABLE 2-1
SUMMARY OF PARAMETERS ANALYZED IN RI
FORMER KLINK COSMO SITE

PARAMETER	SOIL	GROUNDWATER	NAPL	SOIL GAS
Copper	X	X	--	--
Iron	X	X	--	--
Lead	X	X	--	--
Magnesium	X	X	--	--
Manganese	X	X	--	--
Mercury	X	X	--	--
Nickel	X	X	--	--
Potassium	X	X	--	--
Selenium	X	X	--	--
Silver	X	X	--	--
Sodium	X	X	--	--
Thallium	X	X	--	--
Vanadium	X	X	--	--
Zinc	X	X	--	--
Miscellaneous*				
Cyanide	X	X	--	--
Alkalinity, Total (as CaCO3)	--	X	--	--
Chloride	--	X	--	--
Nitrate-Nitrite	--	X	--	--
Phosphorous, Total (as P)	--	X	--	--
Sulfate (as SO4)	--	X	--	--
Sulfide	--	X	--	--
Total Kjeldahl Nitrogen	--	X	--	--
Fuel Oils	--	--	X	--
Specific Gravity	--	--	X	--

* = Not all samples analyzed for these parameters.

X = Parameter analyzed.

-- = not analyzed for this parameter.

TABLE 2-2
GROUNDWATER ELEVATION MEASUREMENTS
FORMER KLINK COSMO CLEANERS SITE

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
DEC-004	202478.489	1001408.06	39.26	39.26	39.12	A							
MNW								6/27/2007 0830	35.00	4.12	0.00		
MNW								9/11/2007 0000	34.71	4.41	0.00		
MNW								12/18/2007 0000	35.62	3.50	0.00		
MNW								7/14/2008 1025	35.70	3.42	0.00		
MNW								9/24/2009 1030	36.30	2.82	0.00		
MNW								6/20/2011 1025	36.51	2.61	0.00		
MNW								10/17/2011 0844	35.24	3.88	0.00		
MNW								3/29/2012 0924	37.05	2.07	0.00		
DEC-006D	202533.2908	1002137.5083	48.81	48.81	48.49	A							
MNW								7/14/2008 1043	45.36	3.13	0.00		
MNW								11/2/2009 0746	46.11	2.38	0.00		
MNW								6/20/2011 0830	46.18	2.31	0.00		
MNW								10/17/2011 0851	44.95	3.54	0.00		
MNW								3/29/2012 0952	46.75	1.74	0.00		
DEC-006DD	202527.166	1002139.573	48.596	48.60	47.87	B							
MNW								6/20/2011 0828	45.51	2.36	0.00		
MNW								10/17/2011 0854	44.30	3.57	0.00		
MNW								3/29/2012 0953	46.15	1.72	0.00		
DEC-007	202366.6424	1002021.554	43.25	43.25	43.04	A							
MNW								12/18/2007 0000	39.78	3.26	0.00		
MNW								7/14/2008 1227	39.87	3.17	0.00		
MNW								11/2/2009 1015	40.60	2.44	0.00		
MNW								6/20/2011 0818	40.65	2.39	0.00		
MNW								10/17/2011 0902	39.40	3.64	0.00		
MNW								3/28/2012 1341	41.22	1.82	0.00		

NM - No Measurement

Geologic Zone:

A Shallow Unconfined Aquifer
 B Deep Unconfined Aquifer
 P Perched Zone

Type:

MNW Monitoring Well

TABLE 2-2
GROUNDWATER ELEVATION MEASUREMENTS
FORMER KLINK COSMO CLEANERS SITE

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
DEC-007D	202355.105	1001986.276	42.846	42.85	42.43	B							
MNW								6/20/2011 0820	39.96	2.47	0.00		
MNW								10/17/2011 0905	38.71	3.72	0.00		
MNW								3/28/2012 1544	40.49	1.94	0.00		
DEC-008	202398.1214	1001768.69	41.01	41.01	40.72	A							
MNW								6/28/2007 1405	36.60	4.12	0.00		
MNW								9/11/2007 0000	36.42	4.30	0.00		
MNW								12/18/2007 0000	37.38	3.34	0.00		
MNW								7/14/2008 1100	37.50	3.22	0.00		
MNW								9/24/2009 0920	38.07	2.65	0.00		
MNW								11/2/2009 0938	38.12	2.60	0.00		
MNW								6/20/2011 0855	38.25	2.47	0.00		
MNW								10/17/2011 1000	36.90	3.82	0.00		
MNW								3/29/2012 1007	38.85	1.87	0.00		
DEC-009	202173.5584	1001470.099	40.91	40.91	40.77	A							
MNW								6/22/2007 0945	36.52	4.25	0.00		
MNW								9/11/2007 0000	36.35	4.42	0.00		
MNW								12/18/2007 0000	37.26	3.51	0.00		
MNW								7/14/2008 1240	37.34	3.43	0.00		
MNW								6/20/2011 1040	38.12	2.65	0.00		
MNW								10/17/2011 0852	36.88	3.89	0.00		
MNW								3/29/2012 1008	38.70	2.07	0.00		
DEC-010	202023.8858	1001331.374	41.32	41.32	40.98	A							
MNW								6/22/2007 1350	36.55	4.43	0.00		
MNW								9/11/2007 0000	NM	-	NM	-	Security bolts stuck.
MNW								12/18/2007 0000	37.30	3.68	0.00		
MNW								7/14/2008 1245	37.42	3.56	0.00		

NM - No Measurement

Geologic Zone:

A Shallow Unconfined Aquifer
 B Deep Unconfined Aquifer
 P Perched Zone

Type:

MNW Monitoring Well

TABLE 2-2
GROUNDWATER ELEVATION MEASUREMENTS
FORMER KLINK COSMO CLEANERS SITE

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MNW								6/20/2011 1017	38.12	2.86	0.00		
MNW								10/17/2011 0000	36.82	4.16	0.00		
MNW								3/29/2012 0911	38.65	2.33	0.00		
DEC-011	201714.2021	1001434.313	40.22	40.22	39.91	A							
MNW								6/21/2007 1405	35.22	4.69	0.00		
MNW								9/11/2007 0000	NM	-	NM	-	Security bolts stuck.
MNW								12/18/2007 0000	37.88	2.03	0.00		
MNW								7/14/2008 1350	35.94	3.97	0.00		
MNW								6/20/2011 1011	36.42	3.49	0.00		
MNW								10/17/2011 0000	35.26	4.65	0.00		
MNW								3/29/2012 0905	36.90	3.01	0.00		
DEC-011D	201722.911	1001433.352	40.42	40.42	39.37	B							
MNW								3/29/2012 0900	36.80	2.57	0.00		
DEC-012	201758.1077	1001716.322	39.64	39.64	39.42	A							
MNW								6/21/2007 1105	35.10	4.32	0.00		
MNW								9/11/2007 0000	35.03	4.39	0.00		
MNW								12/18/2007 0000	35.79	3.63	0.00		
MNW								7/14/2008 1343	35.91	3.51	0.00		
MNW								11/2/2009 0905	36.66	2.76	0.00		
MNW								6/20/2011 1121	36.55	2.87	0.00		
MNW								10/17/2011 0000	35.42	4.00	0.00		
MNW								3/29/2012 0811	37.22	2.20	0.00		
DEC-013	201958.3382	1001649.616	39.47	39.47	39.19	A							
MNW								12/18/2007 0000	35.75	3.44	0.00		
MNW								7/14/2008 1255	35.85	3.34	0.00		
MNW								11/2/2009 0810	36.63	2.56	0.00		
MNW								6/20/2011 1049	36.58	2.61	0.00		

NM - No Measurement

Geologic Zone:

A Shallow Unconfined Aquifer
 B Deep Unconfined Aquifer
 P Perched Zone

Type:

MNW Monitoring Well

TABLE 2-2
GROUNDWATER ELEVATION MEASUREMENTS
FORMER KLINK COSMO CLEANERS SITE

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MNW								10/17/2011 0000	35.35	3.84	0.00		
MNW								3/29/2012 0826	37.20	1.99	0.00		
DEC-013D	201962.96	1001647.311	39.467	39.47	38.86	B							
MNW								6/20/2011 1048	36.19	2.67	0.00		
MNW								10/17/2011 0000	34.96	3.90	0.00		
MNW								3/29/2012 0828	36.80	2.06	0.00		
DEC-014D	201919.921	1001937.307	36.099	36.10	35.84	B							
MNW								6/20/2011 0929	33.20	2.64	0.00		
MNW								10/17/2011 0000	32.02	3.82	0.00		
MNW								3/29/2012 0740	33.79	2.05	0.00		
DEC-014R	201916.144	1001938.635	36.011	36.01	35.86	A							
MNW								6/20/2011 0927	33.24	2.62	0.00		
MNW								10/17/2011 0000	32.01	3.85	0.00		
MNW								3/29/2012 0817	33.82	2.04	0.00		
DEC-015	202166.8569	1001855.13	39.21	39.21	38.80	A							
MNW								6/26/2007 1340	34.70	4.10	0.00		
MNW								9/11/2007 0000	34.52	4.28	0.00		
MNW								12/18/2007 0000	35.34	3.46	0.00		
MNW								7/14/2008 0000	35.43	3.37	0.00		
MNW								11/2/2009 0930	36.14	2.66	0.00		
MNW								6/20/2011 0902	36.18	2.62	0.00		
MNW								10/17/2011 0949	34.92	3.88	0.00		
MNW								3/29/2012 0815	36.65	2.15	0.00		
DEC-015D	202171.785	1001853.162	39.310	39.31	39.06	B							
MNW								6/20/2011 0900	36.50	2.56	0.00		
MNW								10/17/2011 0954	35.25	3.81	0.00		
MNW								3/29/2012 1002	37.10	1.96	0.00		

NM - No Measurement

Geologic Zone:

A Shallow Unconfined Aquifer
 B Deep Unconfined Aquifer
 P Perched Zone

Type:

MNW Monitoring Well

TABLE 2-2
GROUNDWATER ELEVATION MEASUREMENTS
FORMER KLINK COSMO CLEANERS SITE

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
DEC-015R MNW	202176.13	1001851.797	39.38	39.38	38.48	A		3/29/2012 1000	36.51	1.97	0.00		
DEC-022D MNW	202679.727	1002001.044	51.73	51.73	51.39	A		12/18/2007 0000	48.15	3.24	0.00		
MNW								7/14/2008 1003	48.23	3.16	0.00		
MNW								6/20/2011 0838	49.10	2.29	0.00		
MNW								10/17/2011 0838	47.90	3.49	0.00		
MNW								3/29/2012 0946	49.68	1.71	0.00		
DEC-027 MNW	202550.9026	1001621.705	42.45	42.45	42.30	A		12/18/2007 0000	38.88	3.42	0.00		
MNW								7/14/2008 1027	38.98	3.32	0.00		
MNW								6/20/2011 1029	39.79	2.51	0.00		
MNW								10/17/2011 0839	38.56	3.74	0.00		
MNW								3/29/2012 0931	40.37	1.93	0.00		
DEC-028 MNW	202252.7643	1001700.994	39.99	39.99	39.78	A		12/18/2007 0000	36.64	3.14	0.00		
MNW								7/14/2008 1235	36.74	3.04	0.00		
MNW								11/2/2009 1020	37.50	2.28	0.00		
MNW								6/20/2011 1035	37.50	2.28	0.00		
MNW								6/20/2011 1035	37.50	2.28	0.00		
MNW								10/17/2011 0000	36.27	3.51	0.00		
MNW								3/29/2012 1013	38.10	1.68	0.00		
DEC-028D MNW	202254.948	1001707.16	40.00	40.00	39.53	B		3/29/2012 1011	37.55	1.98	0.00		
DEC-029 MNW	202086.6722	1002015.247	38.90	38.90	38.74	A		12/18/2007 0000	35.35	3.39	0.00		
MNW								7/14/2008 1308	35.47	3.27	0.00		

NM - No Measurement

Geologic Zone:

A Shallow Unconfined Aquifer
 B Deep Unconfined Aquifer
 P Perched Zone

Type:

MNW Monitoring Well

TABLE 2-2
GROUNDWATER ELEVATION MEASUREMENTS
FORMER KLINK COSMO CLEANERS SITE

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MNW								11/2/2009 0756	36.22	2.52	0.00		
MNW								6/20/2011 0914	36.21	2.53	0.00		
MNW								10/17/2011 0940	34.95	3.79	0.00		
MNW								3/28/2012 1629	36.71	2.03	0.00		
DEC-029D	202087.488	1002022.985	38.848	38.85	38.61	B							
MNW								6/20/2011 0911	36.05	2.56	0.00		
MNW								10/17/2011 0942	34.80	3.81	0.00		
MNW								3/28/2012 1618	36.55	2.06	0.00		
DEC-029TC	202083.059	1002007.523	38.95	38.95	38.50	B							
MNW								10/17/2011 0937	34.56	3.94	0.00		
MNW								3/28/2012 1637	36.32	2.18	0.00		
DEC-030	202008.4618	1001816.911	37.43	37.43	37.12	A							
MNW								12/18/2007 0000	33.75	3.37	0.00		
MNW								7/14/2008 1259	33.83	3.29	0.00		
MNW								11/2/2009 0923	34.51	2.61	0.00		
MNW								6/20/2011 1059	34.60	2.52	0.00		
MNW								10/17/2011 1000	33.32	3.80	0.00		
MNW								3/29/2012 0724	35.18	1.94	0.00		
DEC-030D	201995.054	1001821.776	37.320	37.32	37.00	B							
MNW								6/20/2011 1056	34.30	2.70	0.00		
MNW								10/17/2011 1006	33.16	3.84	0.00		
MNW								3/29/2012 0721	34.99	2.01	0.00		
DEC-031	201767.8547	1001889.641	34.99	34.94	34.52	A							
MNW								12/18/2007 0000	31.02	3.50	0.00		
MNW								7/14/2008 1333	31.17	3.35	0.00		
MNW								11/2/2009 0857	31.88	2.64	0.00		
MNW								6/20/2011 1102	31.85	2.67	0.00		

NM - No Measurement

Geologic Zone:

A Shallow Unconfined Aquifer
 B Deep Unconfined Aquifer
 P Perched Zone

Type:

MNW Monitoring Well

TABLE 2-2
GROUNDWATER ELEVATION MEASUREMENTS
FORMER KLINK COSMO CLEANERS SITE

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MNW								10/17/2011 0000	30.66	3.86	0.00		
MNW								3/29/2012 0735	32.45	2.07	0.00		
DEC-031D	201768.9664	1001895.1371	34.70	34.70	34.48	B							
MNW								7/14/2008 1334	31.11	3.37	0.00		
MNW								11/3/2009 1245	31.80	2.68	0.00		From purge log
MNW								6/20/2011 1102	31.72	2.76	0.00		
MNW								10/17/2011 0000	30.61	3.87	0.00		
MNW								3/29/2012 0736	32.40	2.08	0.00		
DEC-031TC	201765.771	1001886.31	35.19	35.19	34.83	B							
MNW								10/17/2011 0000	30.86	3.97	0.00		
MNW								3/29/2012 0735	32.83	2.00	0.00		
DEC-032	201579.3871	1001969.121	28.30	28.30	28.03	A							
MNW								12/18/2007 0000	24.55	3.48	0.00		
MNW								7/14/2008 1415	24.72	3.31	0.00		
MNW								11/2/2009 1045	25.39	2.64	0.00		
MNW								6/20/2011 0944	25.36	2.67	0.00		
MNW								10/17/2011 0000	24.19	3.84	0.00		
MNW								3/29/2012 0750	26.00	2.03	0.00		
DEC-033	201498.31	1001515.033	36.67	36.67	36.35	A							
MNW								12/18/2007 0000	32.16	4.19	0.00		
MNW								7/14/2008 1353	32.28	4.07	0.00		
MNW								11/2/2009 0832	33.12	3.23	0.00		
MNW								6/20/2011 1005	33.00	3.35	NM		Slight petro odor
MNW								10/17/2011 0000	31.75	4.60	0.00		
MNW								3/29/2012 0900	33.47	2.88	0.00		
DEC-039	202601.4996	1001779.721	45.02	45.02	44.83	A							
MNW								7/14/2008 1015	41.57	3.26	0.00		

NM - No Measurement

Geologic Zone:

A Shallow Unconfined Aquifer
 B Deep Unconfined Aquifer
 P Perched Zone

Type:

MNW Monitoring Well

TABLE 2-2
GROUNDWATER ELEVATION MEASUREMENTS
FORMER KLINK COSMO CLEANERS SITE

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MNW								6/20/2011 0844	42.38	2.45	0.00		
MNW								10/17/2011 1013	41.10	3.73	0.00		
MNW								3/29/2012 0939	42.95	1.88	0.00		
DEC-042	202512.9313	1001729.4849	42.10	42.10	41.88	A							
MNW								7/14/2008 1222	38.60	3.28	0.00		
MNW								11/2/2009 0942	39.40	2.48	0.00		
MNW								6/20/2011 0849	39.39	2.49	0.00		
MNW								10/17/2011 1007	38.10	3.78	0.00		
MNW								3/29/2012 0935	40.00	1.88	0.00		
DEC-043	202181.3558	1002285.3685	37.67	37.67	37.38	A							
MNW								7/14/2008 1053	34.19	3.19	0.00		
MNW								11/2/2009 0749	34.91	2.47	0.00		
MNW								6/20/2011 0808	34.93	2.45	0.00		
MNW								10/17/2011 0914	33.71	3.67	0.00		
MNW								3/28/2012 1704	35.44	1.94	0.00		
DEC-043D	202181.307	1002285.318	37.724	37.72	37.41	B							
MNW								6/20/2011 0806	35.41	2.00	0.00		
MNW								10/17/2011 0917	34.20	3.21	0.00		
MNW								3/28/2012 1659	35.93	1.48	0.00		
DEC-044	201738.3781	1001809.4731	37.15	37.15	37.02	A							
MNW								7/14/2008 1330	33.58	3.44	0.00		
MNW								11/2/2009 0900	34.30	2.72	0.00		
MNW								6/20/2011 1107	34.25	2.77	0.00		
MNW								10/17/2011 0000	33.09	3.93	0.00		
MNW								3/29/2012 0728	34.89	2.13	0.00		
DEC-044D	201741.332	1001817.671	37.022	37.02	36.60	B							
MNW								6/20/2011 1106	33.80	2.80	0.00		

NM - No Measurement

Geologic Zone:

A Shallow Unconfined Aquifer
 B Deep Unconfined Aquifer
 P Perched Zone

Type:

MNW Monitoring Well

TABLE 2-2
GROUNDWATER ELEVATION MEASUREMENTS
FORMER KLINK COSMO CLEANERS SITE

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MNW								10/17/2011 0000	32.66	3.94	0.00		
MNW								3/29/2012 0729	34.43	2.17	0.00		
DEC-045	201745.6009	1001996.6186	32.55	32.55	32.30	A							
MNW								7/14/2008 1420	28.92	3.38	0.00		
MNW								11/2/2009 0847	29.63	2.67	0.00		
MNW								6/20/2011 0936	29.62	2.68	0.00		
MNW								10/17/2011 1325	28.43	3.87	0.00		
MNW								3/29/2012 0801	30.22	2.08	0.00		
DEC-045D	201727.996	1002001.655	32.18	32.18	32.01	B							
MNW								6/20/2011 0934	29.25	2.76	0.00		
MNW								10/17/2011 0000	28.11	3.90	0.00		
MNW								3/29/2012 0759	29.90	2.11	0.00		
DEC-046	201452.7908	1001672.8018	36.38	36.38	36.20	A							
MNW								7/14/2008 1358	32.75	3.45	0.00		
MNW								11/3/2009 0745	33.38	2.82	0.00		
MNW								6/21/2011 0740	33.40	2.80	0.00		
MNW								10/17/2011 0000	32.21	3.99	0.00		
MNW								3/29/2012 0844	34.00	2.20	0.00		
DEC-046D	201448.423	1001666.64	36.66	36.66	36.01	B							
MNW								3/29/2012 0843	35.70	0.31	0.00		
DEC-047	201110.7101	1001622.1025	31.26	31.26	30.97	A							
MNW								7/14/2008 1403	27.46	3.51	0.00		
MNW								6/20/2011 0957	28.07	2.90	0.00		
MNW								10/17/2011 1150	26.88	4.09	0.00		
MNW								3/29/2012 0855	28.65	2.32	0.00		
DEC-048	201186.6834	1001797.0208	28.69	28.69	28.36	A	0.86						
MNW								7/14/2008 1409	24.83	3.53	0.00	3.53	

NM - No Measurement

Geologic Zone:

A Shallow Unconfined Aquifer
 B Deep Unconfined Aquifer
 P Perched Zone

Type:

MNW Monitoring Well

TABLE 2-2
GROUNDWATER ELEVATION MEASUREMENTS
FORMER KLINK COSMO CLEANERS SITE

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MNW								11/2/2009 0844	25.51	2.85	0.00	2.85	
MNW								6/20/2011 0951	25.45	2.91	0.00	2.91	Petro odor
MNW								6/21/2011 1630	25.45	2.91	0.03	2.94	Trace LNAPL, Petro odor
MNW								6/22/2011 0800	25.45	2.91	0.12	3.01	Trace LNAPL, Petro odor
MNW								10/17/2011 1157	24.29	4.07	0.00	4.07	
MNW								3/29/2012 0851	26.08	2.28	0.00	2.28	
DEC-064	202041.174	1001897.505	37.638	37.64	37.32	A							
MNW								6/20/2011 0920	34.76	2.56	0.00		
MNW								10/17/2011 0927	33.45	3.87	0.00		
MNW								3/28/2012 1320	35.19	2.13	0.00		
DEC-064D	202043.667	1001902.992	37.766	37.77	37.47	B							
MNW								6/20/2011 0922	34.86	2.61	0.00		
MNW								10/17/2011 0930	33.55	3.92	0.00		
MNW								3/28/2012 1330	35.38	2.09	0.00		
DEC-065	201696.658	1001686.982	39.412	39.41	39.11	A							
MNW								6/20/2011 1112	36.10	3.01	0.00		
MNW								10/17/2011 1105	34.98	4.13	0.00		
MNW								3/29/2012 0836	36.80	2.31	0.00		
DEC-065D	201699.61	1001695.714	39.249	39.20	39.05	B							
MNW								6/20/2011 1112	36.48	2.57	0.00		
MNW								10/17/2011 1106	35.27	3.78	0.00		
MNW								3/29/2012 0825	37.09	1.96	0.00		
DEC-066	201683.68	1001934.037	32.240	32.22	31.82	A							
MNW								6/20/2011 0939	29.15	2.67	0.00		
MNW								10/17/2011 0000	27.89	3.93	0.00		
MNW								3/29/2012 0744	29.70	2.12	0.00		

NM - No Measurement

Geologic Zone:

A Shallow Unconfined Aquifer
 B Deep Unconfined Aquifer
 P Perched Zone

Type:

MNW Monitoring Well

TABLE 2-2
GROUNDWATER ELEVATION MEASUREMENTS
FORMER KLINK COSMO CLEANERS SITE

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
DEC-066D	201668.614	1001939.332	31.462	31.48	31.29	B							
MNW								6/20/2011 0941	28.54	2.75	0.00		
MNW								10/17/2011 0000	27.36	3.93	0.00		
MNW								3/29/2012 0746	29.15	2.14	0.00		
DEC-088	202299.578	1002213.142	40.87	40.87	40.67	A							
MNW								3/28/2012 1720	38.69	1.98	0.00		
DEC-088D	202287.202	1002217.027	40.42	40.42	39.69	B							
MNW								3/28/2012 1714	37.77	1.92	0.00		
DEC-089	202123.97	1002124.132	39.20	39.20	38.95	A							
MNW								3/28/2012 1650	36.92	2.03	0.00		
DEC-089D	202121.562	1002118.166	39.19	39.19	39.01	B							
MNW								3/28/2012 1646	36.99	2.02	0.00		
DEC-090	201834.407	1001966.483	34.85	34.85	34.00	A							
MNW								3/29/2012 0806	31.93	2.07	0.00		
DEC-090D	201829.028	1001968.225	34.74	34.74	34.35	B							
MNW								3/29/2012 0806	32.25	2.10	0.00		
DEC-091	201593.708	1002045.892	28.34	28.34	27.55	A							
MNW								3/29/2012 0755	25.45	2.10	0.00		
DEC-091D	201586.28	1002048.376	28.14	28.14	27.46	B							
MNW								3/29/2012 0754	25.35	2.11	0.00		

NM - No Measurement

Geologic Zone:

A Shallow Unconfined Aquifer
 B Deep Unconfined Aquifer
 P Perched Zone

Type:

MNW Monitoring Well

Table 3-1
Former Klink Cosmo Cleaners Site
Geotechnical Laboratory Results

	Sample Type	Material Description	Grain Size	Atterberg Limits	USCS Classification	Average permeability (cm/sec)
Upper Glacial Aquifer - Shallow						
DEC-065D (9-10')	grab	silty sand	5.1% gravel; 56.2% sand; 27% silt; 11.6% clay	plastic	SM	1.1×10^{-7}
DEC-065D (14-15')	grab	clayey sand	11.9% gravel; 46.8% sand; 21.6% silt; 19.7% clay	plastic	SC	4.9×10^{-8}
DEC-066D (24-25')	grab	poorly graded sand with silt	88.1% sand; 11.9% fines	non-plastic	SP-SM	*
Upper Glacial Aquifer - Deep						
DEC-011D (75-77')	shelby tube	clay	0.1% gravel; 14.4% sand; 47.5% silt; 38% clay	PL:24; LL:35; PI:11	CL	5.1×10^{-8}
DEC-028D (80-82')	shelby tube	silt	0.1% gravel; 9.3% sand; 27.5% silt; 63.1% clay	PL:29; LL:47; PI:18	ML	2.0×10^{-8}
DEC-029D (84-84.5')	grab	clay with sand	4.5% gravel; 17.6% sand; 37.7% silt; 40.2% clay	plastic	CH	4.6×10^{-8}
DEC-044D (50-51')	grab	poorly graded sand	9.6% gravel; 86.7% sand; 3.7% fines	non-plastic	SP	*
DEC-044D (70-71')	grab	well-graded sand with silt and gravel	27.1% gravel; 62.6% sand; 8.2% silt; 2.1% clay	non-plastic	SW-SM	*
Sand above Top of Clay						
DEC-029TC (108-113')	grab	silty sand	0.8% gravel; 47.4% sand; 15.6% silt; 5.2% clay	non-plastic	SM	2×10^{-3}
DEC-031TC (105-106')	grab	sand with gravel	28% gravel; 53.3% sand; 13.2% silt; 5.5% clay	non-plastic	SM	**
Top of Clay						
DEC-029TC (115-117')	shelby tube	clayey silt	14.7% sand; 45.5% silt; 39.8% clay	PL:27; LL:46; PI:19	CL	1.7×10^{-6}

Table 3-1
Former Klink Cosmo Cleaners Site
Geotechnical Laboratory Results

	Sample Type	Material Description	Grain Size	Atterberg Limits	USCS Classification	Average permeability (cm/sec)
DEC-031TC (115-116.5')	shelby tube	sandy silt	41.8% sand; 39.9% silt; 18.3% clay	non-plastic	ML	9.9×10^{-6}

Notes: * Invalid result as the grab sample was re-worked.

** Invalid result for a material with SM USCS.

Table 3-2
Former Klink Cosmo Cleaners Site
Vertical Gradient Calculations
Page 1 of 2

Well Clusters	Well ID	Date	Measuring Point Reference Elevation (ft. msl)	Depth to Water (ft.)	Groundwater Elevation (ft. msl.)	Screen Setting feet bgs (ft. msl.)	Ground Elevation (ft. msl)	Midpoint of Screen Elevation (ft. msl.)	Vertical Separation (ft.)	RI Phase I Gradient (ft.)	RI Phase II Gradient (ft.)
Well Cluster DEC-006	DEC-006D	06/20/11 03/29/12	48.49	46.18 46.75	2.31 1.74	20.00 to 35.00 28.81 to 13.81	48.81	21.31	60.71 60.71	-0.013	-0.012
	DEC-006DD	06/20/11 03/29/12	48.60	45.51 46.15	3.09 2.45	83.00 to 93.00 -34.40 to -44.40	48.60	-39.40			
Well Cluster DEC-007	DEC-007	06/20/11 03/29/12	43.04	40.65 41.22	2.39 1.82	41.00 to 56.00 2.25 to -12.75	43.25	-5.25	36.90 36.90	-0.014	-0.015
	DEC-007D	06/20/11 03/29/12	42.85	39.96 40.49	2.89 2.36	80.00 to 90.00 -37.15 to -47.15	42.85	-42.15			
Well Cluster DEC-013	DEC-013	06/20/11 03/29/12	39.19	36.58 37.20	2.61 1.99	33.00 to 48.00 6.47 to -8.53	39.47	-1.03	39.50 39.50	-0.017	-0.017
	DEC-013D	06/20/11 03/29/12	39.47	36.19 36.80	3.28 2.67	75.00 to 85.00 -35.53 to -45.53	39.47	-40.53			
Well Cluster DEC-014	DEC-014R	06/20/11 03/29/12	36.01	33.24 33.82	2.77 2.19	30.00 to 45.00 6.01 to -8.99	36.01	-1.49	37.41 37.41	-0.003	-0.003
	DEC-014D	06/20/11 03/29/12	36.10	33.20 33.79	2.90 2.31	70.00 to 80.00 -33.90 to -43.90	36.10	-38.90			
Well Cluster DEC-015	DEC-015	06/20/11 03/29/12	38.80	36.18 36.65	2.62 2.15	31.00 to 46.00 8.21 to -6.79	39.21	0.71	38.40 38.40	-0.005	-0.002
	DEC-015D	06/20/11 03/29/12	39.31	36.50 37.10	2.81 2.21	72.00 to 82.00 -32.69 to -42.69	39.31	-37.69			
Well Triplet DEC-029	DEC-029	06/20/11 03/29/12	38.74	36.21 36.71	2.53 2.03	36.00 to 51.00 2.90 to -12.10	38.90	-4.60	36.55 36.55	-0.007	-0.007
	DEC-029D	06/20/11 03/29/12	38.85	36.05 36.55	2.80 2.30	75.00 to 85.00 -36.15 to -46.15	38.85	-41.15			
	DEC-029TC	03/29/12 03/29/12	38.50	36.32 36.32	2.18 2.18	103.00 to 113.00 -64.05 to -74.05	38.95	-69.05	64.45 27.90		-0.002 0.004
Well Cluster DEC-030	DEC-030	06/20/11 03/29/12	37.12	34.60 35.18	2.52 1.94	25.00 to 40.00 12.43 to -2.57	37.43	4.93	42.61 42.61	-0.012	-0.009
	DEC-030D	06/20/11 03/29/12	37.32	34.30 34.99	3.02 2.33	70.00 to 80.00 -32.68 to -42.68	37.32	-37.68			
Well Triplet DEC-031	DEC-031	06/20/11 03/29/12	34.52	31.85 32.45	2.67 2.07	30.00 to 45.00 4.99 to -10.01	34.99	-2.51	37.79 37.79	-0.002	0.000
	DEC-031D	06/20/11 03/29/12	34.48	31.72 32.40	2.76 2.08	70.00 to 80.00 -35.30 to -45.30	34.70	-40.30			
	DEC-031TC	03/29/12 03/29/12	34.83	32.83 32.83	2.00 2.00	98.00 to 108.00 -62.81 to -72.81	35.19	-67.81	65.30 27.51		-0.006 0.003
Well Cluster DEC-043	DEC-043	06/20/11 03/29/12	37.38	34.93 35.44	2.45 1.94	40.00 to 50.00 -2.33 to -12.33	37.67	-7.33	34.95 34.95	0.004	0.004
	DEC-043D	06/20/11 03/29/12	37.72	35.41 35.93	2.31 1.79	75.00 to 85.00 -37.28 to -47.28	37.72	-42.28			
Well Cluster DEC-044	DEC-044	06/20/11 03/29/12	37.02	34.25 34.89	2.77 2.13	30.00 to 45.00 7.15 to -7.85	37.15	-0.35	37.63 37.63	-0.012	-0.012
	DEC-044D	06/20/11 03/29/12	37.02	33.80 34.43	3.22 2.59	70.00 to 80.00 -32.98 to -42.98	37.02	-37.98			
Well Cluster DEC-045	DEC-045	06/20/11 03/29/12	32.30	29.62 30.22	2.68 2.08	30.00 to 45.00 2.55 to -12.45	32.55	-4.95	37.87 37.87	-0.007	-0.005
	DEC-045D	06/20/11 03/29/12	32.18	29.25 29.90	2.93 2.28	70.00 to 80.00 -37.82 to -47.82	32.18	-42.82			

Table 3-2
Former Klink Cosmo Cleaners Site
Vertical Gradient Calculations
Page 2 of 2

Well Clusters	Well ID	Date	Measuring Point Reference Elevation (ft. msl)	Depth to Water (ft.)	Groundwater Elevation (ft. msl.)	Screen Setting feet bgs (ft. msl.)	Ground Elevation (ft. msl)	Midpoint of Screen Elevation (ft. msl.)	Vertical Separation (ft.)	RI Phase I Gradient (ft.)	RI Phase II Gradient (ft.)
Well Cluster DEC-064	DEC-064	06/20/11 03/29/12	37.64	34.76 35.19	2.88 2.45	30.00 to 45.00 7.64 to -7.36	37.64	0.14	37.37 37.37	-0.001	0.002
	DEC-064D	06/20/11 03/29/12	37.77	34.86 35.38	2.91 2.39	70.00 to 80.00 -32.23 to -42.23	37.77	-37.23			
Well Cluster DEC-065	DEC-065	06/20/11 03/29/12	39.41	36.10 36.80	3.31 2.61	30.00 to 45.00 9.41 to -5.59	39.41	1.91	37.66 37.66	0.014	0.012
	DEC-065D	06/20/11 03/29/12	39.25	36.48 37.09	2.77 2.16	70.00 to 80.00 -30.75 to -40.75	39.25	-35.75			
Well Cluster DEC-066	DEC-066	06/20/11 03/29/12	32.24	29.15 29.70	3.09 2.54	30.00 to 45.00 2.24 to -12.76	32.24	-5.26	38.28 38.28	0.004	0.006
	DEC-065D	06/20/11 03/29/12	31.46	28.54 29.15	2.92 2.31	70.00 to 80.00 -38.54 to -48.54	31.46	-43.54			

Notes:

ft. - feet

msl. - mean sea level

Positive is DOWNWARD, Negative is UPWARD

June 30, 2011 horizontal gradient from DEC-044 to DEC-031 is 0.001 ft/ft
 $[2.77' \text{ (DEC-044)} - 2.67' \text{ (DEC-030)}] / 90' \text{ (distance between)} = 0.001 \text{ ft/ft}$

March 29, 2012 horizontal gradient from DEC-044 to DEC-031 is 0.001 ft/ft
 $[2.13' \text{ (DEC-044)} - 2.07' \text{ (DEC-031)}] / 90' \text{ (distance between)} = 0.001 \text{ ft/ft}$

June 30, 2011 horizontal gradient from DEC-031 to DEC-030 is 0.0006 ft/ft
 $[2.67' \text{ (DEC-031)} - 2.52' \text{ (DEC-030)}] / 250' \text{ (distance between)} = 0.0006 \text{ ft/ft}$

March 29, 2012 horizontal gradient from DEC-031 to DEC-030 is 0.0005 ft/ft
 $[2.07' \text{ (DEC-031)} - 2.1.94' \text{ (DEC-030)}] / 250' \text{ (distance between)} = 0.0006 \text{ ft/ft}$

TABLE 3-3
Former Klink Cosmo Cleaners Site
Representative Slug Test Results

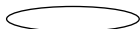
Monitoring Well Location ID	Slug Test	Hydraulic Conductivity (cm/sec)	Geologic Unit	USCS
Shallow Monitoring Wells				USCS
DEC-031	Rising Head	1.85E-03	sand some gravel	SP
DEC-044	Falling Head	2.69E-05	sand, trace gravel	SP
DEC-044	Rising Head	3.85E-05	sand, trace gravel	SP
DEC-064	Rising Head	4.77E-03	sand and gravel; sand	SW, SP
Deep Monitoring Wells				
DEC-013D	Rising Head	9.74E-03	sand and gravel; sand	SP/GP, SP, SM
DEC-044D	Rising Head	2.48E-02	sand and silt; sand	SM, SW, SP
DEC-044D	Falling Head	2.06E-02	sand and silt; sand	SM, SW, SP

TABLE 3-4
SUMMARY OF DETECTED COMPOUNDS IN SITE-SPECIFIC SOIL BACKGROUND SAMPLES FROM
MCGOLRICK PARK
FORMER KLINK COSMO CLEANERS SITE

Location ID			SS-01	SS-02	SS-02	SS-03	SS-04
Sample ID			SS-01	080311-FD-1	SS-02	SS-03	SS-04
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-2.0	0.0-2.0	0.0-2.0	0.0-2.0	0.0-2.0
Date Sampled			08/03/11	08/03/11	08/03/11	08/03/11	08/03/11
Parameter	Units	Criteria*		Field Duplicate (1-1)			
Volatile Organic Compounds							
Toluene	MG/KG	0.7	0.0025 J	0.0016 J	0.0013 J	0.0012 J	0.0018 J
Semivolatile Organic Compounds							
1,1-Biphenyl	MG/KG	60 CP-51			0.019 J		
2-Methylnaphthalene	MG/KG	0.41 CP-51	0.0035 J	0.012 J	0.062 J	0.0028 J	0.0033 J
Acenaphthene	MG/KG	20	0.0059 J	0.020 J	0.13 J	0.0079 J	0.0054 J
Acenaphthylene	MG/KG	100	0.0085 J	0.023 J	0.034 J	0.0073 J	
Anthracene	MG/KG	100	0.023 J	0.058 J	0.20	0.020 J	0.013 J
Benzo(a)anthracene	MG/KG	1	0.13 J	0.27	0.57	0.13 J	0.077 J
Benzo(a)pyrene	MG/KG	1	0.13 J	0.29	0.56	0.15 J	
Benzo(b)fluoranthene	MG/KG	1	0.17 J	0.31	0.61	0.17 J	0.093 J
Benzo(g,h,i)perylene	MG/KG	100		0.23	0.26		
Benzo(k)fluoranthene	MG/KG	0.8		0.18 J	0.30	0.086 J	
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	0.089 J	0.12 J	0.11 J	0.12 J	0.25
Carbazole	MG/KG	-	0.012 J	0.031 J	0.13 J	0.012 J	0.0096 J
Chrysene	MG/KG	1	0.14 J	0.33	0.68	0.17 J	0.091 J
Dibenz(a,h)anthracene	MG/KG	0.33		0.074 J			
Dibenzofuran	MG/KG	6.2 CP-51	0.0044 J	0.012 J	0.10 J		
Di-n-butylphthalate	MG/KG	0.014 CP-51		0.090 J			
Fluoranthene	MG/KG	100	0.21 J	0.50	1.4	0.23	0.14 J
Fluorene	MG/KG	30		0.016 J	0.11 J		
Hexachlorobenzene	MG/KG	0.33					

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria

Blank cell or ND - Not Detected.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.


Only Detected Results Reported.

TABLE 3-4
SUMMARY OF DETECTED COMPOUNDS IN SITE-SPECIFIC SOIL BACKGROUND SAMPLES FROM
MCGOLRICK PARK
FORMER KLINK COSMO CLEANERS SITE

Location ID			SS-01	SS-02	SS-02	SS-03	SS-04
Sample ID			SS-01	080311-FD-1	SS-02	SS-03	SS-04
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-2.0	0.0-2.0	0.0-2.0	0.0-2.0	0.0-2.0
Date Sampled			08/03/11	08/03/11	08/03/11	08/03/11	08/03/11
Parameter	Units	Criteria*	Field Duplicate (1-1)				
Semivolatile Organic Compounds							
Indeno(1,2,3-cd)pyrene	MG/KG	0.5		0.19 J	0.25		
Naphthalene	MG/KG	12			0.077 J		
Phenanthrene	MG/KG	100	0.12 J	0.31	1.5	0.12 J	0.075 J
Pyrene	MG/KG	100	0.20 J	0.52	1.2	0.25	
Pesticide Organic Compounds							
4,4'-DDD	MG/KG	0.0033	0.0059 J	0.029	0.065 J	0.041 J	
4,4'-DDE	MG/KG	0.0033	0.084	0.25	0.44	0.35	0.24
4,4'-DDT	MG/KG	0.0033	0.091	0.26	0.46	0.40	0.35
Dieldrin	MG/KG	0.005					
gamma-Chlordane	MG/KG	0.54 CP-51		0.010 J	0.032 J		
Metals							
Aluminum	MG/KG	10000 CP-51	8,910	9,820	8,220	8,450	10,600
Arsenic	MG/KG	13	9.2	13.7	13.0	13.6	6.9
Barium	MG/KG	350	68.4	113	94.8	71.7	77.2
Beryllium	MG/KG	7.2	0.55	0.64	0.55	0.51	0.59
Cadmium	MG/KG	2.5	0.48	0.78 J	0.71 J	0.53	0.34
Calcium	MG/KG	10000 CP-51	705	1,300 J	1,130 J	1,170	711
Chromium	MG/KG	30	18.5 J	20.2 J	18.2 J	14.2 J	17.1 J
Cobalt	MG/KG	20 CP-51	7.6	6.1	5.8	5.5	6.9
Copper	MG/KG	50	70.3	114 J	104 J	78.8	55.4
Iron	MG/KG	2000 CP-51	19,500	16,600	14,600	13,500	16,000

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria

Blank cell or ND - Not Detected.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

Only Detected Results Reported.

TABLE 3-4
SUMMARY OF DETECTED COMPOUNDS IN SITE-SPECIFIC SOIL BACKGROUND SAMPLES FROM
MCGOLRICK PARK
FORMER KLINK COSMO CLEANERS SITE

Location ID			SS-01	SS-02	SS-02	SS-03	SS-04
Sample ID			SS-01	080311-FD-1	SS-02	SS-03	SS-04
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-2.0	0.0-2.0	0.0-2.0	0.0-2.0	0.0-2.0
Date Sampled			08/03/11	08/03/11	08/03/11	08/03/11	08/03/11
Parameter	Units	Criteria*		Field Duplicate (1-1)			
Metals							
Lead	MG/KG	63	133 J	208 J	190 J	168 J	132 J
Magnesium	MG/KG	-	1,850	1,770	1,480	1,590	1,770
Manganese	MG/KG	1600	461 J	441 J	376 J	342 J	473 J
Mercury	MG/KG	0.18	0.42 J	1.4 J	0.86 J	0.49 J	0.44 J
Nickel	MG/KG	30	11.7	14.1	12.3	11.2	12.3
Potassium	MG/KG	-	570	402 J	330 J	402	460
Selenium	MG/KG	3.9		1.0 J	0.79 J	1.1 J	
Silver	MG/KG	2		1.8	1.5	0.26 J	
Sodium	MG/KG	-	49.7 J	46.4 J	39.3 J	39.8 J	43.0 J
Vanadium	MG/KG	39 CP-51	26.1	28.4	25.8	23.1	24.2
Zinc	MG/KG	109	73.9 J	120 J	109 J	85.4 J	63.4 J
Miscellaneous Parameters							
Total Organic Carbon (TOC)	MG/KG	-	11,300 J	14,800 J	15,600 J	13,300 J	10,800 J

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria

Blank cell or ND - Not Detected.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

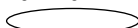
Only Detected Results Reported.

TABLE 3-4
SUMMARY OF DETECTED COMPOUNDS IN SITE-SPECIFIC SOIL BACKGROUND SAMPLES FROM
MCGOLRICK PARK
FORMER KLINK COSMO CLEANERS SITE

Location ID			SS-05	SS-06	SS-07	SS-08
Sample ID			SS-05	SS-06	SS-07	SS-08
Matrix			Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-2.0	0.0-2.0	0.0-2.0	0.0-2.0
Date Sampled			08/03/11	08/03/11	08/03/11	08/03/11
Parameter	Units	Criteria*				
Volatile Organic Compounds						
Toluene	MG/KG	0.7	0.0081		0.0010 J	
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	60 CP-51				
2-Methylnaphthalene	MG/KG	0.41 CP-51	0.016 J		0.0094 J	0.0082 J
Acenaphthene	MG/KG	20	0.036 J	0.016 J	0.027 J	0.016 J
Acenaphthylene	MG/KG	100	0.015 J	0.011 J	0.020 J	0.026 J
Anthracene	MG/KG	100	0.095 J	0.048 J	0.065 J	0.054 J
Benzo(a)anthracene	MG/KG	1	0.30	0.24	0.30	0.25
Benzo(a)pyrene	MG/KG	1	0.29	0.22 J	0.30	0.27
Benzo(b)fluoranthene	MG/KG	1	0.33	0.25	0.32	0.30
Benzo(g,h,i)perylene	MG/KG	100	0.21	0.18 J	0.22	0.21 J
Benzo(k)fluoranthene	MG/KG	0.8	0.19	0.14 J	0.17 J	0.19 J
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	0.17 J	0.17 J	0.48	0.29
Carbazole	MG/KG	-	0.049 J	0.027 J	0.035 J	0.028 J
Chrysene	MG/KG	1	0.34	0.25	0.32	0.31
Dibenz(a,h)anthracene	MG/KG	0.33				
Dibenzofuran	MG/KG	6.2 CP-51	0.026 J	0.010 J	0.012 J	
Di-n-butylphthalate	MG/KG	0.014 CP-51				
Fluoranthene	MG/KG	100	0.59	0.40	0.53	0.47
Fluorene	MG/KG	30	0.035 J	0.016 J	0.018 J	0.016 J
Hexachlorobenzene	MG/KG	0.33				0.014 J

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria

Blank cell or ND - Not Detected.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.


Only Detected Results Reported.

TABLE 3-4
SUMMARY OF DETECTED COMPOUNDS IN SITE-SPECIFIC SOIL BACKGROUND SAMPLES FROM
MCGOLRICK PARK
FORMER KLINK COSMO CLEANERS SITE

Location ID			SS-05	SS-06	SS-07	SS-08
Sample ID			SS-05	SS-06	SS-07	SS-08
Matrix			Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-2.0	0.0-2.0	0.0-2.0	0.0-2.0
Date Sampled			08/03/11	08/03/11	08/03/11	08/03/11
Parameter	Units	Criteria*				
Semivolatile Organic Compounds						
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	0.18	0.15 J	0.19	0.18 J
Naphthalene	MG/KG	12	0.033 J			
Phenanthrene	MG/KG	100	0.44	0.23	0.30	0.27
Pyrene	MG/KG	100	0.59	0.44	0.54	0.46
Pesticide Organic Compounds						
4,4'-DDD	MG/KG	0.0033	0.0078 J	0.013 J	0.062 J	0.10 J
4,4'-DDE	MG/KG	0.0033	0.12	0.18	0.74	0.95
4,4'-DDT	MG/KG	0.0033	0.19	0.22	1.0	0.94
Dieldrin	MG/KG	0.005	0.0065 J		0.043 J	
gamma-Chlordane	MG/KG	0.54 CP-51	0.0036 J			
Metals						
Aluminum	MG/KG	10000 CP-51	7,870	9,980	7,900	8,980
Arsenic	MG/KG	13	10.8	16.4	15.4	14.6
Barium	MG/KG	350	70.6	84.1	71.1	90.1
Beryllium	MG/KG	7.2	0.49	0.63	0.44	0.57
Cadmium	MG/KG	2.5	0.41	0.55	0.66	0.74
Calcium	MG/KG	10000 CP-51	1,120	952	5,570	3,050
Chromium	MG/KG	30	14.9 J	19.3 J	15.3 J	19.6 J
Cobalt	MG/KG	20 CP-51	4.9	6.3	4.7	5.1
Copper	MG/KG	50	95.3	161	92.4	111
Iron	MG/KG	2000 CP-51	13,300	17,100	12,000	15,200

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria

Blank cell or ND - Not Detected.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.


Only Detected Results Reported.

TABLE 3-4
SUMMARY OF DETECTED COMPOUNDS IN SITE-SPECIFIC SOIL BACKGROUND SAMPLES FROM
MCGOLRICK PARK
FORMER KLINK COSMO CLEANERS SITE

Location ID			SS-05	SS-06	SS-07	SS-08
Sample ID			SS-05	SS-06	SS-07	SS-08
Matrix			Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-2.0	0.0-2.0	0.0-2.0	0.0-2.0
Date Sampled			08/03/11	08/03/11	08/03/11	08/03/11
Parameter	Units	Criteria*				
Metals						
Lead	MG/KG	63	152 J	204 J	160 J	184 J
Magnesium	MG/KG	-	1,310	1,740	3,600	1,680
Manganese	MG/KG	1600	296 J	401 J	261 J	268 J
Mercury	MG/KG	0.18	0.41 J	0.60 J	0.52 J	0.49 J
Nickel	MG/KG	30	10.3	12.8	11.4	12.8
Potassium	MG/KG	-	358	407	510	515
Selenium	MG/KG	3.9	1.1 J	0.83 J	0.92 J	
Silver	MG/KG	2	0.49 J	0.51 J	0.71	0.84
Sodium	MG/KG	-	33.7 J	58.1 J	38.9 J	50.1 J
Vanadium	MG/KG	39 CP-51	23.6	29.8	26.6	31.4
Zinc	MG/KG	109	72.5 J	101 J	102 J	109 J
Miscellaneous Parameters						
Total Organic Carbon (TOC)	MG/KG	-	20,500 J	14,900 J	21,200 J	24,200 J

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria

Blank cell or ND - Not Detected.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

Only Detected Results Reported.

TABLE 3-5
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN SITE-SPECIFIC SOIL BACKGROUND SAMPLES FROM MCGOLRICK PARK
FORMER KLINK COSMO CLEANERS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value	Depth Of Max
					Min	Max	Avg			
Volatile Organic Compounds										
Toluene	MG/KG	0.7	9	7	0.001	0.008	0.003	0	SS-05	0-2
Semivolatile Organic Compounds										
1,1-Biphenyl	MG/KG	60 CP-51	9	1	0.019	0.019	0.019	0	SS-02	0-2
2-Methylnaphthalene	MG/KG	0.41 CP-51	9	8	0.003	0.062	0.015	0	SS-02	0-2
Acenaphthene	MG/KG	20	9	9	0.005	0.130	0.029	0	SS-02	0-2
Acenaphthylene	MG/KG	100	9	8	0.007	0.034	0.018	0	SS-02	0-2
Anthracene	MG/KG	100	9	9	0.013	0.200	0.064	0	SS-02	0-2
Benzo(a)anthracene	MG/KG	1	9	9	0.077	0.570	0.252	0	SS-02	0-2
Benzo(a)pyrene	MG/KG	1	9	8	0.130	0.560	0.276	0	SS-02	0-2
Benzo(b)fluoranthene	MG/KG	1	9	9	0.093	0.610	0.284	0	SS-02	0-2
Benzo(g,h,i)perylene	MG/KG	100	9	6	0.180	0.260	0.218	0	SS-02	0-2
Benzo(k)fluoranthene	MG/KG	0.8	9	7	0.086	0.300	0.179	0	SS-02	0-2
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	9	9	0.089	0.480	0.200	0	SS-07	0-2
Carbazole	MG/KG	-	9	9	0.010	0.130	0.037	0	SS-02	0-2
Chrysene	MG/KG	1	9	9	0.091	0.680	0.292	0	SS-02	0-2
Dibenz(a,h)anthracene	MG/KG	0.33	9	1	0.074	0.074	0.074	0	SS-02	0-2
Dibenzofuran	MG/KG	6.2 CP-51	9	6	0.004	0.100	0.027	0	SS-02	0-2
Di-n-butylphthalate	MG/KG	0.014 CP-51	9	1	0.090	0.090	0.090	1	SS-02	0-2
Fluoranthene	MG/KG	100	9	9	0.140	1.40	0.497	0	SS-02	0-2

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.



Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 3-5
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN SITE-SPECIFIC SOIL BACKGROUND SAMPLES FROM MCGOLRICK PARK
FORMER KLINK COSMO CLEANERS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value	Depth Of Max
					Min	Max	Avg			
Semivolatile Organic Compounds										
Fluorene	MG/KG	30	9	6	0.016	0.110	0.035	0	SS-02	0-2
Hexachlorobenzene	MG/KG	0.33	9	1	0.014	0.014	0.014	0	SS-08	0-2
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	9	6	0.150	0.250	0.190	0	SS-02	0-2
Naphthalene	MG/KG	12	9	2	0.033	0.077	0.055	0	SS-02	0-2
Phenanthrene	MG/KG	100	9	9	0.075	1.50	0.374	0	SS-02	0-2
Pyrene	MG/KG	100	9	8	0.200	1.20	0.525	0	SS-02	0-2
Pesticide Organic Compounds										
4,4'-DDD	MG/KG	0.0033	9	8	0.006	0.100	0.040	8	SS-08	0-2
4,4'-DDE	MG/KG	0.0033	9	9	0.084	0.950	0.373	9	SS-08	0-2
4,4'-DDT	MG/KG	0.0033	9	9	0.091	1.00	0.435	9	SS-07	0-2
Dieldrin	MG/KG	0.005	9	2	0.007	0.043	0.025	2	SS-07	0-2
gamma-Chlordane	MG/KG	0.54 CP-51	9	3	0.004	0.032	0.015	0	SS-02	0-2
Metals										
Aluminum	MG/KG	10000 CP-51	9	9	7,870	1.06E+04	8,970	1	SS-04	0-2
Arsenic	MG/KG	13	9	9	6.90	16.40	12.62	6	SS-06	0-2
Barium	MG/KG	350	9	9	68.40	113.0	82.33	0	SS-02	0-2
Beryllium	MG/KG	7.2	9	9	0.440	0.640	0.552	0	SS-02	0-2
Cadmium	MG/KG	2.5	9	9	0.340	0.780	0.578	0	SS-02	0-2

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.



Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 3-5
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN SITE-SPECIFIC SOIL BACKGROUND SAMPLES FROM MCGOLRICK PARK
FORMER KLINK COSMO CLEANERS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value	Depth Of Max
					Min	Max	Avg			
Metals										
Calcium	MG/KG	10000 CP-51	9	9	705.0	5,570	1,745	0	SS-07	0-2
Chromium	MG/KG	30	9	9	14.20	20.20	17.48	0	SS-02	0-2
Cobalt	MG/KG	20 CP-51	9	9	4.70	7.60	5.88	0	SS-01	0-2
Copper	MG/KG	50	9	9	55.40	161.0	98.02	9	SS-06	0-2
Iron	MG/KG	2000 CP-51	9	9	1.20E+04	1.95E+04	1.53E+04	9	SS-01	0-2
Lead	MG/KG	63	9	9	132.0	208.0	170.1	9	SS-02	0-2
Magnesium	MG/KG	-	9	9	1,310	3,600	1,866	0	SS-07	0-2
Manganese	MG/KG	1600	9	9	261.0	473.0	368.8	0	SS-04	0-2
Mercury	MG/KG	0.18	9	9	0.410	1.40	0.626	9	SS-02	0-2
Nickel	MG/KG	30	9	9	10.30	14.10	12.10	0	SS-02	0-2
Potassium	MG/KG	-	9	9	330.0	570.0	439.3	0	SS-01	0-2
Selenium	MG/KG	3.9	9	6	0.790	1.10	0.957	0	SS-03	0-2
Silver	MG/KG	2	9	7	0.260	1.80	0.873	0	SS-02	0-2
Sodium	MG/KG	-	9	9	33.70	58.10	44.33	0	SS-06	0-2
Vanadium	MG/KG	39 CP-51	9	9	23.10	31.40	26.56	0	SS-08	0-2
Zinc	MG/KG	109	9	9	63.40	120.0	92.91	3	SS-02	0-2
Miscellaneous Parameters										
Total Organic Carbon (TOC)	MG/KG	-	9	9	1.08E+04	2.42E+04	1.63E+04	0	SS-08	0-2

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.

 Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-1
SUMMARY OF DETECTED VOCs IN ALL RI PHASE I AND SC PHASE I – III SOIL SAMPLES – SOIL
BACKGROUND, UNRESTRICTED USE AND PROTECTION OF GROUNDWATER CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID					DEC-004	DEC-006	DEC-008	DEC-009	DEC-009
Sample ID					DEC-04-35-36	DEC-06-23-24	DEC-08-38	DEC-09 12-13	DEC-09 38-39
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					35.0-36.0	23.0-24.0	38.0-38.0	12.0-13.0	38.0-39.0
Date Sampled					06/13/07	05/21/07	06/07/07	05/30/07	05/30/07
Parameter	Units	Criteria (1)	Criteria (2)	Criteria (3)					
Volatile Organic Compounds									
1,1,1-Trichloroethane	MG/KG	0.68	0.68	-					
1,1-Dichloroethane	MG/KG	0.27	0.27	-					
1,2-Dichloroethene (cis)	MG/KG	0.25	0.25	-					
Acetone	MG/KG	0.05	0.05	-	0.12 J	0.019 J		0.023 J	0.017 J
Isopropylbenzene (Cumene)	MG/KG	2.3 CP-51	2.3 CP-51	-					
Methylcyclohexane	MG/KG	-	-	-					
Methylene chloride	MG/KG	0.05	0.05	-			0.0046 J		
Naphthalene	MG/KG	12	12	-	NA	NA	NA	NA	NA
Styrene	MG/KG	300 CP-51	-	-					
Tetrachloroethene	MG/KG	1.3	1.3	-		0.023	0.0039 J	0.0036 J	0.0026 J
Toluene	MG/KG	0.7	0.7	-		0.0077		0.0019	0.0024
Trichloroethene	MG/KG	0.47	0.47	-					
Xylene (total)	MG/KG	0.26	1.6	-					

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.

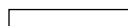
Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, plus CP-51 Table 1 10/21/10.

Criteria (3)- Background soil concentrations from Msgr. McGolrick Park collected August 3, 2011 exceeding 6 NYCRR Part 375.6 Unrestricted Use and CP-51 Table 1 limits.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria 1



Concentration Exceeds Criteria (2)



Border

Concentration Exceeds Criteria (3)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

Blank cell - Not Detected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-1
SUMMARY OF DETECTED VOCs IN ALL RI PHASE I AND SC PHASE I – III SOIL SAMPLES – SOIL
BACKGROUND, UNRESTRICTED USE AND PROTECTION OF GROUNDWATER CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID					DEC-010	DEC-010	DEC-011	DEC-012	DEC-012
Sample ID					DEC-10-24-25	DEC-10 35-37	DEC-11 35-36	DEC-12-34	DEC-12-36
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					24.0-25.0	35.0-37.0	35.0-36.0	34.0-34.0	36.0-36.0
Date Sampled					05/24/07	05/25/07	05/29/07	06/04/07	06/04/07
Parameter	Units	Criteria (1)	Criteria (2)	Criteria (3)					
Volatile Organic Compounds									
1,1,1-Trichloroethane	MG/KG	0.68	0.68	-					
1,1-Dichloroethane	MG/KG	0.27	0.27	-					
1,2-Dichloroethene (cis)	MG/KG	0.25	0.25	-					
Acetone	MG/KG	0.05	0.05	-		0.027 J			
Isopropylbenzene (Cumene)	MG/KG	2.3 CP-51	2.3 CP-51	-					
Methylcyclohexane	MG/KG	-	-	-					
Methylene chloride	MG/KG	0.05	0.05	-					0.0046 J
Naphthalene	MG/KG	12	12	-	NA	NA	NA	NA	NA
Styrene	MG/KG	300 CP-51	-	-					
Tetrachloroethene	MG/KG	1.3	1.3	-	0.012	0.016			0.0021 J
Toluene	MG/KG	0.7	0.7	-		0.0039			
Trichloroethene	MG/KG	0.47	0.47	-					
Xylene (total)	MG/KG	0.26	1.6	-					

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.

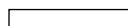
Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, plus CP-51 Table 1 10/21/10.

Criteria (3)- Background soil concentrations from Msgr. McGolrick Park collected August 3, 2011 exceeding 6 NYCRR Part 375.6 Unrestricted Use and CP-51 Table 1 limits.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria 1



Concentration Exceeds Criteria (2)



Concentration Exceeds Criteria (3)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

Blank cell - Not Detected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-1
SUMMARY OF DETECTED VOCs IN ALL RI PHASE I AND SC PHASE I – III SOIL SAMPLES – SOIL
BACKGROUND, UNRESTRICTED USE AND PROTECTION OF GROUNDWATER CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID					DEC-013	DEC-013	DEC-014	DEC-014D	DEC-015
Sample ID					DEC-13-34-35	DEC-13-35-36	DEC-14 20-21	DEC-014D 31-32	DEC-15 34-35
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					34.0-35.0	35.0-36.0	20.0-21.0	31.0-32.0	34.0-35.0
Date Sampled					11/23/07	11/23/07	05/25/07	05/17/11	05/29/07
Parameter	Units	Criteria (1)	Criteria (2)	Criteria (3)					
Volatile Organic Compounds									
1,1,1-Trichloroethane	MG/KG	0.68	0.68	-					
1,1-Dichloroethane	MG/KG	0.27	0.27	-					
1,2-Dichloroethene (cis)	MG/KG	0.25	0.25	-					
Acetone	MG/KG	0.05	0.05	-	0.019 J	0.020 J	0.020 J		
Isopropylbenzene (Cumene)	MG/KG	2.3 CP-51	2.3 CP-51	-					
Methylcyclohexane	MG/KG	-	-	-					
Methylene chloride	MG/KG	0.05	0.05	-					
Naphthalene	MG/KG	12	12	-	NA	NA	NA		NA
Styrene	MG/KG	300 CP-51	-	-					
Tetrachloroethene	MG/KG	1.3	1.3	-	0.0025 J		0.0039 J		0.037
Toluene	MG/KG	0.7	0.7	-			0.0020		0.0013
Trichloroethene	MG/KG	0.47	0.47	-					
Xylene (total)	MG/KG	0.26	1.6	-					

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.

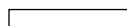
Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, plus CP-51 Table 1 10/21/10.

Criteria (3)- Background soil concentrations from Msgr. McGolrick Park collected August 3, 2011 exceeding 6 NYCRR Part 375.6 Unrestricted Use and CP-51 Table 1 limits.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria 1



Concentration Exceeds Criteria (2)



Concentration Exceeds Criteria (3)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

Blank cell - Not Detected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-1
SUMMARY OF DETECTED VOCs IN ALL RI PHASE I AND SC PHASE I – III SOIL SAMPLES – SOIL
BACKGROUND, UNRESTRICTED USE AND PROTECTION OF GROUNDWATER CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID					DEC-022	DEC-027	DEC-028	DEC-028	DEC-029
Sample ID					DEC-22 30-31	DEC-27 37-38*	DEC-28 18-20	DEC-28 36-38	DEC-29-33-35
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					30.0-31.0	37.0-38.0	18.0-20.0	36.0-38.0	33.0-35.0
Date Sampled					05/23/07	12/04/07	11/16/07	11/16/07	11/26/07
Parameter	Units	Criteria (1)	Criteria (2)	Criteria (3)					
Volatile Organic Compounds									
1,1,1-Trichloroethane	MG/KG	0.68	0.68	-					
1,1-Dichloroethane	MG/KG	0.27	0.27	-					
1,2-Dichloroethene (cis)	MG/KG	0.25	0.25	-					
Acetone	MG/KG	0.05	0.05	-	0.021 J	0.025 J	0.024 J	0.011 J	0.045 J
Isopropylbenzene (Cumene)	MG/KG	2.3 CP-51	2.3 CP-51	-					
Methylcyclohexane	MG/KG	-	-	-					
Methylene chloride	MG/KG	0.05	0.05	-					0.029 J
Naphthalene	MG/KG	12	12	-	NA	NA	NA	NA	NA
Styrene	MG/KG	300 CP-51	-	-					
Tetrachloroethene	MG/KG	1.3	1.3	-	0.013			0.013	
Toluene	MG/KG	0.7	0.7	-	0.0027				0.0030
Trichloroethene	MG/KG	0.47	0.47	-					
Xylene (total)	MG/KG	0.26	1.6	-					

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.

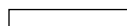
Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, plus CP-51 Table 1 10/21/10.

Criteria (3)- Background soil concentrations from Msgr. McGolrick Park collected August 3, 2011 exceeding 6 NYCRR Part 375.6 Unrestricted Use and CP-51 Table 1 limits.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria 1



Concentration Exceeds Criteria (2)



Concentration Exceeds Criteria (3)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

Blank cell - Not Detected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-1
SUMMARY OF DETECTED VOCs IN ALL RI PHASE I AND SC PHASE I – III SOIL SAMPLES – SOIL
BACKGROUND, UNRESTRICTED USE AND PROTECTION OF GROUNDWATER CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID					DEC-029D	DEC-030	DEC-030	DEC-030D	DEC-031
Sample ID					DEC-029D (75-76")	DEC-30-26-27	DEC-30-33-34	DEC-030D (3.5-4.5")	DEC-31-29-30
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					75.0-76.0	26.0-27.0	33.0-34.0	3.5-4.5	29.0-30.0
Date Sampled					05/11/11	11/19/07	11/19/07	05/09/11	11/20/07
Parameter	Units	Criteria (1)	Criteria (2)	Criteria (3)					
Volatile Organic Compounds									
1,1,1-Trichloroethane	MG/KG	0.68	0.68	-					
1,1-Dichloroethane	MG/KG	0.27	0.27	-					
1,2-Dichloroethene (cis)	MG/KG	0.25	0.25	-					
Acetone	MG/KG	0.05	0.05	-					
Isopropylbenzene (Cumene)	MG/KG	2.3 CP-51	2.3 CP-51	-					
Methylcyclohexane	MG/KG	-	-	-					
Methylene chloride	MG/KG	0.05	0.05	-		0.021 J	0.017 J		0.012 J
Naphthalene	MG/KG	12	12	-		NA	NA		NA
Styrene	MG/KG	300 CP-51	-	-				0.0070	
Tetrachloroethene	MG/KG	1.3	1.3	-		0.018 J	0.0093 J		0.083 J
Toluene	MG/KG	0.7	0.7	-					
Trichloroethene	MG/KG	0.47	0.47	-					
Xylene (total)	MG/KG	0.26	1.6	-					

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.

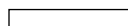
Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, plus CP-51 Table 1 10/21/10.

Criteria (3)- Background soil concentrations from Msgr. McGolrick Park collected August 3, 2011 exceeding 6 NYCRR Part 375.6 Unrestricted Use and CP-51 Table 1 limits.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria 1



Concentration Exceeds Criteria (2)



Concentration Exceeds Criteria (3)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

Blank cell - Not Detected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-1
SUMMARY OF DETECTED VOCs IN ALL RI PHASE I AND SC PHASE I – III SOIL SAMPLES – SOIL
BACKGROUND, UNRESTRICTED USE AND PROTECTION OF GROUNDWATER CRITERIA
FORMER KLINK COSMO CLEANERS SITE


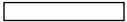

Location ID					DEC-031	DEC-032	DEC-033	DEC-042	DEC-043D
Sample ID					DEC-31-33-34	DEC-32 29-31'	DEC-33 33-34'	DEC-042 38-39	DEC-043D (80-81')
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					33.0-34.0	29.0-31.0	33.0-34.0	38.0-39.0	80.0-81.0
Date Sampled					11/20/07	11/28/07	11/29/07	05/16/08	05/12/11
Parameter	Units	Criteria (1)	Criteria (2)	Criteria (3)					
Volatile Organic Compounds									
1,1,1-Trichloroethane	MG/KG	0.68	0.68	-					
1,1-Dichloroethane	MG/KG	0.27	0.27	-					
1,2-Dichloroethene (cis)	MG/KG	0.25	0.25	-					
Acetone	MG/KG	0.05	0.05	-		0.021 J			0.0057 J
Isopropylbenzene (Cumene)	MG/KG	2.3 CP-51	2.3 CP-51	-					
Methylcyclohexane	MG/KG	-	-	-					
Methylene chloride	MG/KG	0.05	0.05	-	0.028 J	0.017 J	0.022 J		
Naphthalene	MG/KG	12	12	-	NA	NA	NA	NA	
Styrene	MG/KG	300 CP-51	-	-					
Tetrachloroethene	MG/KG	1.3	1.3	-	0.20 J				
Toluene	MG/KG	0.7	0.7	-					
Trichloroethene	MG/KG	0.47	0.47	-					
Xylene (total)	MG/KG	0.26	1.6	-					

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, plus CP-51 Table 1 10/21/10.

Criteria (3)- Background soil concentrations from Msgr. McGolrick Park collected August 3, 2011 exceeding 6 NYCRR Part 375.6 Unrestricted Use and CP-51 Table 1 limits.

Flags assigned during chemistry validation are shown.

	Concentration Exceeds Criteria 1
	Concentration Exceeds Criteria (2)
	Concentration Exceeds Criteria (3)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

Blank cell - Not Detected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-1
SUMMARY OF DETECTED VOCs IN ALL RI PHASE I AND SC PHASE I – III SOIL SAMPLES – SOIL
BACKGROUND, UNRESTRICTED USE AND PROTECTION OF GROUNDWATER CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID					DEC-045	DEC-046	DEC-048	DEC-064D	DEC-065D
Sample ID					DEC-045 32-34	DEC-046 33-35	DEC-48(24.5-25.5)	DEC-064D (29-29.5)	DEC-065D(9-10')
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					32.0-34.0	33.0-35.0	24.5-25.5	29.0-29.5	9.0-10.0
Date Sampled					06/16/08	06/23/08	06/24/08	05/12/11	05/24/11
Parameter	Units	Criteria (1)	Criteria (2)	Criteria (3)					
Volatile Organic Compounds									
1,1,1-Trichloroethane	MG/KG	0.68	0.68	-					
1,1-Dichloroethane	MG/KG	0.27	0.27	-					
1,2-Dichloroethene (cis)	MG/KG	0.25	0.25	-					
Acetone	MG/KG	0.05	0.05	-		0.033		0.0043 J	0.0024 J
Isopropylbenzene (Cumene)	MG/KG	2.3 CP-51	2.3 CP-51	-			0.42		
Methylcyclohexane	MG/KG	-	-	-			0.52		
Methylene chloride	MG/KG	0.05	0.05	-					0.0031 J
Naphthalene	MG/KG	12	12	-	NA	NA	NA		
Styrene	MG/KG	300 CP-51	-	-					
Tetrachloroethene	MG/KG	1.3	1.3	-					
Toluene	MG/KG	0.7	0.7	-			0.20		
Trichloroethene	MG/KG	0.47	0.47	-					
Xylene (total)	MG/KG	0.26	1.6	-			0.89 J		

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.

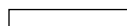
Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, plus CP-51 Table 1 10/21/10.

Criteria (3)- Background soil concentrations from Msgr. McGolrick Park collected August 3, 2011 exceeding 6 NYCRR Part 375.6 Unrestricted Use and CP-51 Table 1 limits.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria 1



Concentration Exceeds Criteria (2)



Concentration Exceeds Criteria (3)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

Blank cell - Not Detected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-1
SUMMARY OF DETECTED VOCs IN ALL RI PHASE I AND SC PHASE I – III SOIL SAMPLES – SOIL
BACKGROUND, UNRESTRICTED USE AND PROTECTION OF GROUNDWATER CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID					DEC-065D	DEC-065D	DEC-066D	DEC-066D	SB-11
Sample ID					DEC-065D(14-15')	DEC-065D(34-35)	DEC-066D (24-25)	DEC-066D (29-30)	SB-11-25-26
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					14.0-15.0	34.0-35.0	24.0-25.0	29.0-30.0	25.0-26.0
Date Sampled					05/24/11	05/24/11	05/20/11	05/23/11	11/29/07
Parameter	Units	Criteria (1)	Criteria (2)	Criteria (3)					
Volatile Organic Compounds									
1,1,1-Trichloroethane	MG/KG	0.68	0.68	-					0.036
1,1-Dichloroethane	MG/KG	0.27	0.27	-					0.0026 J
1,2-Dichloroethene (cis)	MG/KG	0.25	0.25	-					0.0029 J
Acetone	MG/KG	0.05	0.05	-	0.0028 J	0.0097 J			0.056 J
Isopropylbenzene (Cumene)	MG/KG	2.3 CP-51	2.3 CP-51	-					
Methylcyclohexane	MG/KG	-	-	-					
Methylene chloride	MG/KG	0.05	0.05	-	0.0041 J		0.0022 J	0.0021 J	0.072 J
Naphthalene	MG/KG	12	12	-		0.014 J			NA
Styrene	MG/KG	300 CP-51	-	-					
Tetrachloroethene	MG/KG	1.3	1.3	-			0.0022 J	0.0048 J	0.036
Toluene	MG/KG	0.7	0.7	-					
Trichloroethene	MG/KG	0.47	0.47	-					0.0040 J
Xylene (total)	MG/KG	0.26	1.6	-					

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.

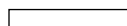
Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, plus CP-51 Table 1 10/21/10.

Criteria (3)- Background soil concentrations from Msgr. McGolrick Park collected August 3, 2011 exceeding 6 NYCRR Part 375.6 Unrestricted Use and CP-51 Table 1 limits.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria 1



Concentration Exceeds Criteria (2)



Border

Concentration Exceeds Criteria (3)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

Blank cell - Not Detected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-1
SUMMARY OF DETECTED VOCs IN ALL RI PHASE I AND SC PHASE I – III SOIL SAMPLES – SOIL
BACKGROUND, UNRESTRICTED USE AND PROTECTION OF GROUNDWATER CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID					SB-11	SB-13	SB-14	SB-18	SB-19
Sample ID					SB-11-31.5-32.5	SB-13 (32-33')	SB-14 (33-34')	SB-18 (15-16')	SB-19 (11-12')
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					31.5-32.5	32.0-33.0	33.0-34.0	15.0-16.0	11.0-12.0
Date Sampled					11/29/07	05/14/08	05/14/08	05/13/08	05/13/08
Parameter	Units	Criteria (1)	Criteria (2)	Criteria (3)					
Volatile Organic Compounds									
1,1,1-Trichloroethane	MG/KG	0.68	0.68	-					
1,1-Dichloroethane	MG/KG	0.27	0.27	-					
1,2-Dichloroethene (cis)	MG/KG	0.25	0.25	-					
Acetone	MG/KG	0.05	0.05	-	0.027 J				
Isopropylbenzene (Cumene)	MG/KG	2.3 CP-51	2.3 CP-51	-					
Methylcyclohexane	MG/KG	-	-	-					
Methylene chloride	MG/KG	0.05	0.05	-	0.033 J				
Naphthalene	MG/KG	12	12	-	NA	NA	NA	NA	NA
Styrene	MG/KG	300 CP-51	-	-					
Tetrachloroethene	MG/KG	1.3	1.3	-				0.26	0.084
Toluene	MG/KG	0.7	0.7	-					
Trichloroethene	MG/KG	0.47	0.47	-					
Xylene (total)	MG/KG	0.26	1.6	-					

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.

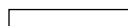
Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, plus CP-51 Table 1 10/21/10.

Criteria (3)- Background soil concentrations from Msgr. McGolrick Park collected August 3, 2011 exceeding 6 NYCRR Part 375.6 Unrestricted Use and CP-51 Table 1 limits.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria 1



Concentration Exceeds Criteria (2)



Border

Concentration Exceeds Criteria (3)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

Blank cell - Not Detected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-1
SUMMARY OF DETECTED VOCs IN ALL RI PHASE I AND SC PHASE I – III SOIL SAMPLES – SOIL
BACKGROUND, UNRESTRICTED USE AND PROTECTION OF GROUNDWATER CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID					SB-20	SB-21	SG-078	SG-079	SG-080
Sample ID					SB-20 (7-8")	SB-21 (13.5-15")	SG-78 (4-5")	SG-79 (7-8")	SG-80 (7-8")
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					7.0-8.0	13.5-15.0	4.0-5.0	7.0-8.0	7.0-8.0
Date Sampled					05/13/08	05/13/08	05/06/11	05/06/11	05/06/11
Parameter	Units	Criteria (1)	Criteria (2)	Criteria (3)					
Volatile Organic Compounds									
1,1,1-Trichloroethane	MG/KG	0.68	0.68	-					
1,1-Dichloroethane	MG/KG	0.27	0.27	-					
1,2-Dichloroethene (cis)	MG/KG	0.25	0.25	-					
Acetone	MG/KG	0.05	0.05	-			0.0045 J	0.0076 J	0.0039 J
Isopropylbenzene (Cumene)	MG/KG	2.3 CP-51	2.3 CP-51	-					
Methylcyclohexane	MG/KG	-	-	-					
Methylene chloride	MG/KG	0.05	0.05	-					
Naphthalene	MG/KG	12	12	-	NA	NA			
Styrene	MG/KG	300 CP-51	-	-					
Tetrachloroethene	MG/KG	1.3	1.3	-					
Toluene	MG/KG	0.7	0.7	-					
Trichloroethene	MG/KG	0.47	0.47	-					
Xylene (total)	MG/KG	0.26	1.6	-					

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.

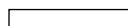
Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, plus CP-51 Table 1 10/21/10.

Criteria (3)- Background soil concentrations from Msgr. McGolrick Park collected August 3, 2011 exceeding 6 NYCRR Part 375.6 Unrestricted Use and CP-51 Table 1 limits.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria 1



Concentration Exceeds Criteria (2)



Concentration Exceeds Criteria (3)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

Blank cell - Not Detected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-1
SUMMARY OF DETECTED VOCs IN ALL RI PHASE I AND SC PHASE I – III SOIL SAMPLES – SOIL
BACKGROUND, UNRESTRICTED USE AND PROTECTION OF GROUNDWATER CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID					SG-081	SG-082	SG-083	SG-084	SG-085
Sample ID					SG-81 (7-8")	SG-82 (7-8")	SG-83 (7-8")	SG-84 (7-8")	SG-85 (7-8")
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					7.0-8.0	7.0-8.0	7.0-8.0	7.0-8.0	7.0-8.0
Date Sampled					05/06/11	05/06/11	05/06/11	05/06/11	05/06/11
Parameter	Units	Criteria (1)	Criteria (2)	Criteria (3)					
Volatile Organic Compounds									
1,1,1-Trichloroethane	MG/KG	0.68	0.68	-					
1,1-Dichloroethane	MG/KG	0.27	0.27	-					
1,2-Dichloroethene (cis)	MG/KG	0.25	0.25	-					
Acetone	MG/KG	0.05	0.05	-	0.0025 J	0.0029 J	0.0035 J	0.0035 J	0.0028 J
Isopropylbenzene (Cumene)	MG/KG	2.3 CP-51	2.3 CP-51	-					
Methylcyclohexane	MG/KG	-	-	-					
Methylene chloride	MG/KG	0.05	0.05	-					
Naphthalene	MG/KG	12	12	-					
Styrene	MG/KG	300 CP-51	-	-					
Tetrachloroethene	MG/KG	1.3	1.3	-		0.0014 J	0.011	0.014	
Toluene	MG/KG	0.7	0.7	-			0.0015 J		
Trichloroethene	MG/KG	0.47	0.47	-					
Xylene (total)	MG/KG	0.26	1.6	-					

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.

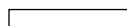
Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, plus CP-51 Table 1 10/21/10.

Criteria (3)- Background soil concentrations from Msgr. McGolrick Park collected August 3, 2011 exceeding 6 NYCRR Part 375.6 Unrestricted Use and CP-51 Table 1 limits.

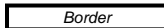
Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria 1



Concentration Exceeds Criteria (2)



Border

Concentration Exceeds Criteria (3)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

Blank cell - Not Detected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-1
SUMMARY OF DETECTED VOCs IN ALL RI PHASE I AND SC PHASE I – III SOIL SAMPLES – SOIL
BACKGROUND, UNRESTRICTED USE AND PROTECTION OF GROUNDWATER CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID					SG-086	SG-087
Sample ID					SG-86 (7-8")	SG-87 (7-8")
Matrix					Soil	Soil
Depth Interval (ft)					7.0-8.0	7.0-8.0
Date Sampled					05/06/11	05/06/11
Parameter	Units	Criteria (1)	Criteria (2)	Criteria (3)		
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	0.68	0.68	-		
1,1-Dichloroethane	MG/KG	0.27	0.27	-		
1,2-Dichloroethene (cis)	MG/KG	0.25	0.25	-		
Acetone	MG/KG	0.05	0.05	-	0.0029 J	0.0028 J
Isopropylbenzene (Cumene)	MG/KG	2.3 CP-51	2.3 CP-51	-		
Methylcyclohexane	MG/KG	-	-	-		
Methylene chloride	MG/KG	0.05	0.05	-		
Naphthalene	MG/KG	12	12	-		
Styrene	MG/KG	300 CP-51	-	-		
Tetrachloroethene	MG/KG	1.3	1.3	-	0.0014 J	
Toluene	MG/KG	0.7	0.7	-		
Trichloroethene	MG/KG	0.47	0.47	-		
Xylene (total)	MG/KG	0.26	1.6	-		

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.

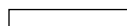
Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, plus CP-51 Table 1 10/21/10.

Criteria (3)- Background soil concentrations from Msgr. McGolrick Park collected August 3, 2011 exceeding 6 NYCRR Part 375.6 Unrestricted Use and CP-51 Table 1 limits.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria 1



Concentration Exceeds Criteria (2)



Concentration Exceeds Criteria (3)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

Blank cell - Not Detected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-2

**SUMMARY OF DETECTED SVOCs, PESTICIDES/PCBS, HERBICIDES, METALS AND CYANIDE IN RI
PHASE I AND SC PHASE I-III SOIL SAMPLES – SOIL BACKGROUND, UNRESTRICTED USE AND
PROTECTION OF GROUNDWATER CRITERIA
FORMER KLINK COSMO CLEANERS SITE**

Location ID					DEC-029D	DEC-030D	DEC-048	DEC-065D	DEC-065D
Sample ID					DEC-029D (75-76')	DEC-030D (3.5-4.5')	DEC-48(24.5-25.5)	DEC-065D(9-10')	DEC-065D(14-15')
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					75.0-76.0	3.5-4.5	24.5-25.5	9.0-10.0	14.0-15.0
Date Sampled					05/11/11	05/09/11	06/24/08	05/24/11	05/24/11
Parameter	Units	Criteria (1)	Criteria (2)	Criteria (3)					
Semivolatile Organic Compounds									
1,1-Biphenyl	MG/KG	60 CP-51	-	-			3.7		
2-Methylnaphthalene	MG/KG	0.41 CP-51	36.4 CP-51	-			16		
Acenaphthene	MG/KG	20	98	-			2.3		
Anthracene	MG/KG	100	1000	-			0.59		
Benzo(a)anthracene	MG/KG	1	1	-		0.073 J			
Benzo(a)pyrene	MG/KG	1	22	-		0.092 J			
Benzo(b)fluoranthene	MG/KG	1	1.7	-		0.096 J			
Benzo(g,h,i)perylene	MG/KG	100	1000	-		0.072 J			
Benzo(k)fluoranthene	MG/KG	0.8	1.7	-		0.056 J			
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	435 CP-51	-		0.075 J		0.26	0.073 J
Chrysene	MG/KG	1	1	-		0.083 J			
Dibenz(a,h)anthracene	MG/KG	0.33	1000	-		0.023 J			
Di-n-butylphthalate	MG/KG	0.014 CP-51	8.1 CP-51	0.09		0.13 J			
Fluoranthene	MG/KG	100	1000	-		0.11 J			
Fluorene	MG/KG	30	386	-			2.9		
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	8.2	-		0.058 J			
Naphthalene	MG/KG	12	12	-			3.0		

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.

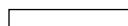
Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, plus CP-51 Table 1 10/21/10.

Criteria (3)- Background soil concentrations from Msgr. McGolrick Park collected August 3, 2011 exceeding 6 NYCRR Part 375.6 Unrestricted Use and CP-51 Table 1 limits.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria 1



Concentration Exceeds Criteria (2)



Concentration Exceeds Criteria (3)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

B (metals only) - The reported concentration is above the method detection limit but below the quantitation limit.

Blank cell - Not Detected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-2

**SUMMARY OF DETECTED SVOCs, PESTICIDES/PCBS, HERBICIDES, METALS AND CYANIDE IN RI
PHASE I AND SC PHASE I-III SOIL SAMPLES – SOIL BACKGROUND, UNRESTRICTED USE AND
PROTECTION OF GROUNDWATER CRITERIA
FORMER KLINK COSMO CLEANERS SITE**

Location ID					DEC-029D	DEC-030D	DEC-048	DEC-065D	DEC-065D
Sample ID					DEC-029D (75-76')	DEC-030D (3.5-4.5')	DEC-48(24.5-25.5)	DEC-065D(9-10')	DEC-065D(14-15')
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					75.0-76.0	3.5-4.5	24.5-25.5	9.0-10.0	14.0-15.0
Date Sampled					05/11/11	05/09/11	06/24/08	05/24/11	05/24/11
Parameter	Units	Criteria (1)	Criteria (2)	Criteria (3)					
Semivolatile Organic Compounds									
Phenanthrene	MG/KG	100	1000	-		0.046 J	7.1		
Pyrene	MG/KG	100	1000	-		0.16 J	0.67		
Pesticide Organic Compounds									
alpha-Chlordane	MG/KG	0.094	2.9	-		0.017 J	NA		
Dieldrin	MG/KG	0.005	0.1	0.043		0.0052	NA		
gamma-Chlordane	MG/KG	0.54 CP-51	14 CP-51	-		0.014 J	NA		
Metals									
Aluminum	MG/KG	10000 CP-51	-	10600	2,270	6,760	NA	7,470	10,100
Arsenic	MG/KG	13	16	16.4	0.70	2.5	NA	0.53 B	
Barium	MG/KG	350	820	-	19.3	59.9	NA	47.9	113
Beryllium	MG/KG	7.2	47	-	0.15 B	0.46	NA	0.68	1.1
Cadmium	MG/KG	2.5	7.5	-	0.048 B	0.49	NA		
Calcium	MG/KG	10000 CP-51	-	-	566	1,210	NA	2,490	6,070
Chromium	MG/KG	30	NS	-	4.7	27.3	NA	22.8	32.7
Cobalt	MG/KG	20 CP-51	-	-	2.9	7.0	NA	7.6	15.4
Copper	MG/KG	50	1720	161	6.4	23.7	NA	13.8	29.8
Iron	MG/KG	2000 CP-51	-	19500	4,730	23,100	NA	27,700	54,900

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.

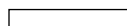
Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, plus CP-51 Table 1 10/21/10.

Criteria (3)- Background soil concentrations from Msgr. McGolrick Park collected August 3, 2011 exceeding 6 NYCRR Part 375.6 Unrestricted Use and CP-51 Table 1 limits.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria 1



Concentration Exceeds Criteria (2)



Concentration Exceeds Criteria (3)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

B (metals only) - The reported concentration is above the method detection limit but below the quantitation limit.

Blank cell - Not Detected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-2

**SUMMARY OF DETECTED SVOCs, PESTICIDES/PCBS, HERBICIDES, METALS AND CYANIDE IN RI
PHASE I AND SC PHASE I-III SOIL SAMPLES – SOIL BACKGROUND, UNRESTRICTED USE AND
PROTECTION OF GROUNDWATER CRITERIA
FORMER KLINK COSMO CLEANERS SITE**

Location ID					DEC-029D	DEC-030D	DEC-048	DEC-065D	DEC-065D
Sample ID					DEC-029D (75-76')	DEC-030D (3.5-4.5')	DEC-48(24.5-25.5)	DEC-065D(9-10')	DEC-065D(14-15')
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					75.0-76.0	3.5-4.5	24.5-25.5	9.0-10.0	14.0-15.0
Date Sampled					05/11/11	05/09/11	06/24/08	05/24/11	05/24/11
Parameter	Units	Criteria (1)	Criteria (2)	Criteria (3)					
Metals									
Lead	MG/KG	63	450	208	1.4	74.2	NA	6.8	10.5
Magnesium	MG/KG	-	-	-	1,220	2,080	NA	2,340	3,180
Manganese	MG/KG	1600	2000	-	242	421	NA	529	1,290
Mercury	MG/KG	0.18	0.73	1.4		0.32	NA	0.0063 B	0.0060 B
Nickel	MG/KG	30	130	-	5.6	12.2	NA	12.6	22.2
Potassium	MG/KG	-	-	-	290	1,270	NA	43.6	2,080
Selenium	MG/KG	3.9	4	-		0.49 B	NA		
Sodium	MG/KG	-	-	-	69.2	79.9	NA	9.0 B	360
Thallium	MG/KG	5 CP-51	-	-			NA	2.7	3.4
Vanadium	MG/KG	39 CP-51	-	-	5.1	23.4	NA	32.3	54.2
Zinc	MG/KG	109	2480	120	10.0	61.5	NA	44.0	55.4

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.

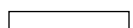
Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, plus CP-51 Table 1 10/21/10.

Criteria (3)- Background soil concentrations from Msgr. McGolrick Park collected August 3, 2011 exceeding 6 NYCRR Part 375.6 Unrestricted Use and CP-51 Table 1 limits.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria 1



Concentration Exceeds Criteria (2)



Border

Concentration Exceeds Criteria (3)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

B (metals only) - The reported concentration is above the method detection limit but below the quantitation limit.

Blank cell - Not Detected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-2

**SUMMARY OF DETECTED SVOCs, PESTICIDES/PCBS, HERBICIDES, METALS AND CYANIDE IN RI
PHASE I AND SC PHASE I-III SOIL SAMPLES – SOIL BACKGROUND, UNRESTRICTED USE AND
PROTECTION OF GROUNDWATER CRITERIA
FORMER KLINK COSMO CLEANERS SITE**

Location ID					DEC-066D
Sample ID					DEC-066D (24-25)
Matrix					Soil
Depth Interval (ft)					24.0-25.0
Date Sampled					05/20/11
Parameter	Units	Criteria (1)	Criteria (2)	Criteria (3)	
Semivolatile Organic Compounds					
1,1-Biphenyl	MG/KG	60 CP-51	-	-	
2-Methylnaphthalene	MG/KG	0.41 CP-51	36.4 CP-51	-	
Acenaphthene	MG/KG	20	98	-	
Anthracene	MG/KG	100	1000	-	
Benzo(a)anthracene	MG/KG	1	1	-	
Benzo(a)pyrene	MG/KG	1	22	-	
Benzo(b)fluoranthene	MG/KG	1	1.7	-	
Benzo(g,h,i)perylene	MG/KG	100	1000	-	
Benzo(k)fluoranthene	MG/KG	0.8	1.7	-	
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	435 CP-51	-	0.091 J
Chrysene	MG/KG	1	1	-	
Dibenz(a,h)anthracene	MG/KG	0.33	1000	-	
Di-n-butylphthalate	MG/KG	0.014 CP-51	8.1 CP-51	0.09	
Fluoranthene	MG/KG	100	1000	-	
Fluorene	MG/KG	30	386	-	
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	8.2	-	
Naphthalene	MG/KG	12	12	-	

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.

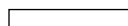
Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, plus CP-51 Table 1 10/21/10.

Criteria (3)- Background soil concentrations from Msgr. McGolrick Park collected August 3, 2011 exceeding 6 NYCRR Part 375.6 Unrestricted Use and CP-51 Table 1 limits.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria 1



Concentration Exceeds Criteria (2)



Concentration Exceeds Criteria (3)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

B (metals only) - The reported concentration is above the method detection limit but below the quantitation limit.

Blank cell - Not Detected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-2

**SUMMARY OF DETECTED SVOCs, PESTICIDES/PCBS, HERBICIDES, METALS AND CYANIDE IN RI
PHASE I AND SC PHASE I-III SOIL SAMPLES – SOIL BACKGROUND, UNRESTRICTED USE AND
PROTECTION OF GROUNDWATER CRITERIA
FORMER KLINK COSMO CLEANERS SITE**

Location ID					DEC-066D
Sample ID					DEC-066D (24-25)
Matrix					Soil
Depth Interval (ft)					24.0-25.0
Date Sampled					05/20/11
Parameter	Units	Criteria (1)	Criteria (2)	Criteria (3)	
Semivolatile Organic Compounds					
Phenanthrene	MG/KG	100	1000	-	
Pyrene	MG/KG	100	1000	-	
Pesticide Organic Compounds					
alpha-Chlordane	MG/KG	0.094	2.9	-	
Dieldrin	MG/KG	0.005	0.1	0.043	
gamma-Chlordane	MG/KG	0.54 CP-51	14 CP-51	-	
Metals					
Aluminum	MG/KG	10000 CP-51	-	10600	4,610
Arsenic	MG/KG	13	16	16.4	
Barium	MG/KG	350	820	-	27.2
Beryllium	MG/KG	7.2	47	-	0.40
Cadmium	MG/KG	2.5	7.5	-	
Calcium	MG/KG	10000 CP-51	-	-	1,580
Chromium	MG/KG	30	NS	-	11.6
Cobalt	MG/KG	20 CP-51	-	-	4.8
Copper	MG/KG	50	1720	161	8.3
Iron	MG/KG	2000 CP-51	-	19500	10,100

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.

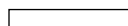
Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, plus CP-51 Table 1 10/21/10.

Criteria (3)- Background soil concentrations from Msgr. McGolrick Park collected August 3, 2011 exceeding 6 NYCRR Part 375.6 Unrestricted Use and CP-51 Table 1 limits.

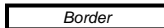
Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria 1



Concentration Exceeds Criteria (2)



Concentration Exceeds Criteria (3)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

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Blank cell - Not Detected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-2

**SUMMARY OF DETECTED SVOCs, PESTICIDES/PCBS, HERBICIDES, METALS AND CYANIDE IN RI
PHASE I AND SC PHASE I-III SOIL SAMPLES – SOIL BACKGROUND, UNRESTRICTED USE AND
PROTECTION OF GROUNDWATER CRITERIA
FORMER KLINK COSMO CLEANERS SITE**

Location ID					DEC-066D
Sample ID					DEC-066D (24-25)
Matrix					Soil
Depth Interval (ft)					24.0-25.0
Date Sampled					05/20/11
Parameter	Units	Criteria (1)	Criteria (2)	Criteria (3)	
Metals					
Lead	MG/KG	63	450	208	3.2
Magnesium	MG/KG	-	-	-	1,990
Manganese	MG/KG	1600	2000	-	235
Mercury	MG/KG	0.18	0.73	1.4	0.0032 B
Nickel	MG/KG	30	130	-	8.8
Potassium	MG/KG	-	-	-	1,070
Selenium	MG/KG	3.9	4	-	
Sodium	MG/KG	-	-	-	84.6
Thallium	MG/KG	5 CP-51	-	-	2.5
Vanadium	MG/KG	39 CP-51	-	-	15.4
Zinc	MG/KG	109	2480	120	22.1

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.

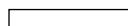
Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, plus CP-51 Table 1 10/21/10.

Criteria (3)- Background soil concentrations from Msgr. McGolrick Park collected August 3, 2011 exceeding 6 NYCRR Part 375.6 Unrestricted Use and CP-51 Table 1 limits.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria 1



Concentration Exceeds Criteria (2)



Concentration Exceeds Criteria (3)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

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Blank cell - Not Detected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-3
SUMMARY OF DETECTED VOCs IN ALL RI PHASE I AND SC PHASE I – III SOIL SAMPLES –
RESIDENTIAL AND RESTRICTED RESIDENTIAL CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID				DEC-004	DEC-006	DEC-008	DEC-009	DEC-009
Sample ID				DEC-04-35-36	DEC-06-23-24	DEC-08-38	DEC-09 12-13	DEC-09 38-39
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				35.0-36.0	23.0-24.0	38.0-38.0	12.0-13.0	38.0-39.0
Date Sampled				06/13/07	05/21/07	06/07/07	05/30/07	05/30/07
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
1,1,1-Trichloroethane	MG/KG	100	100					
1,1-Dichloroethane	MG/KG	19	26					
1,2-Dichloroethene (cis)	MG/KG	59	100					
Acetone	MG/KG	100	100	0.12 J	0.019 J		0.023 J	0.017 J
Isopropylbenzene (Cumene)	MG/KG	100 CP-51	-					
Methylcyclohexane	MG/KG	-	-					
Methylene chloride	MG/KG	51	100			0.0046 J		
Naphthalene	MG/KG	100	100	NA	NA	NA	NA	NA
Styrene	MG/KG	-	-					
Tetrachloroethene	MG/KG	5.5	19		0.023	0.0039 J	0.0036 J	0.0026 J
Toluene	MG/KG	100	100		0.0077		0.0019	0.0024
Trichloroethene	MG/KG	10	21					
Xylene (total)	MG/KG	100	100					

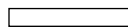
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Residential, plus CP-51 Table 1 10/21/10.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Restricted Residential, plus CP-51 Table 1 10/21/10.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

Blank cell - Not Detected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-3
SUMMARY OF DETECTED VOCs IN ALL RI PHASE I AND SC PHASE I – III SOIL SAMPLES –
RESIDENTIAL AND RESTRICTED RESIDENTIAL CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID				DEC-010	DEC-010	DEC-011	DEC-012	DEC-012
Sample ID				DEC-10-24-25	DEC-10 35-37	DEC-11 35-36	DEC-12-34	DEC-12-36
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				24.0-25.0	35.0-37.0	35.0-36.0	34.0-34.0	36.0-36.0
Date Sampled				05/24/07	05/25/07	05/29/07	06/04/07	06/04/07
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
1,1,1-Trichloroethane	MG/KG	100	100					
1,1-Dichloroethane	MG/KG	19	26					
1,2-Dichloroethene (cis)	MG/KG	59	100					
Acetone	MG/KG	100	100		0.027 J			
Isopropylbenzene (Cumene)	MG/KG	100 CP-51	-					
Methylcyclohexane	MG/KG	-	-					
Methylene chloride	MG/KG	51	100					0.0046 J
Naphthalene	MG/KG	100	100	NA	NA	NA	NA	NA
Styrene	MG/KG	-	-					
Tetrachloroethene	MG/KG	5.5	19	0.012	0.016			0.0021 J
Toluene	MG/KG	100	100		0.0039			
Trichloroethene	MG/KG	10	21					
Xylene (total)	MG/KG	100	100					

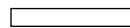
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Residential, plus CP-51 Table 1 10/21/10.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Restricted Residential, plus CP-51 Table 1 10/21/10.

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Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

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Blank cell - Not Detected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-3
SUMMARY OF DETECTED VOCs IN ALL RI PHASE I AND SC PHASE I – III SOIL SAMPLES –
RESIDENTIAL AND RESTRICTED RESIDENTIAL CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID				DEC-013	DEC-013	DEC-014	DEC-014D	DEC-015
Sample ID				DEC-13-34-35	DEC-13-35-36	DEC-14 20-21	DEC-014D 31-32	DEC-15 34-35
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				34.0-35.0	35.0-36.0	20.0-21.0	31.0-32.0	34.0-35.0
Date Sampled				11/23/07	11/23/07	05/25/07	05/17/11	05/29/07
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
1,1,1-Trichloroethane	MG/KG	100	100					
1,1-Dichloroethane	MG/KG	19	26					
1,2-Dichloroethene (cis)	MG/KG	59	100					
Acetone	MG/KG	100	100	0.019 J	0.020 J	0.020 J		
Isopropylbenzene (Cumene)	MG/KG	100 CP-51	-					
Methylcyclohexane	MG/KG	-	-					
Methylene chloride	MG/KG	51	100					
Naphthalene	MG/KG	100	100	NA	NA	NA		NA
Styrene	MG/KG	-	-					
Tetrachloroethene	MG/KG	5.5	19	0.0025 J		0.0039 J		0.037
Toluene	MG/KG	100	100			0.0020		0.0013
Trichloroethene	MG/KG	10	21					
Xylene (total)	MG/KG	100	100					

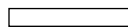
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Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Restricted Residential, plus CP-51 Table 1 10/21/10.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

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Only Detected Results Reported.

TABLE 4-3
SUMMARY OF DETECTED VOCs IN ALL RI PHASE I AND SC PHASE I – III SOIL SAMPLES –
RESIDENTIAL AND RESTRICTED RESIDENTIAL CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID				DEC-022	DEC-027	DEC-028	DEC-028	DEC-029
Sample ID				DEC-22 30-31	DEC-27 37-38'	DEC-28 18-20	DEC-28 36-38	DEC-29-33-35
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				30.0-31.0	37.0-38.0	18.0-20.0	36.0-38.0	33.0-35.0
Date Sampled				05/23/07	12/04/07	11/16/07	11/16/07	11/26/07
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
1,1,1-Trichloroethane	MG/KG	100	100					
1,1-Dichloroethane	MG/KG	19	26					
1,2-Dichloroethene (cis)	MG/KG	59	100					
Acetone	MG/KG	100	100	0.021 J	0.025 J	0.024 J	0.011 J	0.045 J
Isopropylbenzene (Cumene)	MG/KG	100 CP-51	-					
Methylcyclohexane	MG/KG	-	-					
Methylene chloride	MG/KG	51	100					0.029 J
Naphthalene	MG/KG	100	100	NA	NA	NA	NA	NA
Styrene	MG/KG	-	-					
Tetrachloroethene	MG/KG	5.5	19	0.013			0.013	
Toluene	MG/KG	100	100	0.0027				0.0030
Trichloroethene	MG/KG	10	21					
Xylene (total)	MG/KG	100	100					

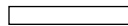
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Residential, plus CP-51 Table 1 10/21/10.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Restricted Residential, plus CP-51 Table 1 10/21/10.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

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Only Detected Results Reported.

TABLE 4-3
SUMMARY OF DETECTED VOCs IN ALL RI PHASE I AND SC PHASE I – III SOIL SAMPLES –
RESIDENTIAL AND RESTRICTED RESIDENTIAL CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID				DEC-029D	DEC-030	DEC-030	DEC-030D	DEC-031
Sample ID				DEC-029D (75-76")	DEC-30-26-27	DEC-30-33-34	DEC-030D (3.5-4.5')	DEC-31-29-30
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				75.0-76.0	26.0-27.0	33.0-34.0	3.5-4.5	29.0-30.0
Date Sampled				05/11/11	11/19/07	11/19/07	05/09/11	11/20/07
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
1,1,1-Trichloroethane	MG/KG	100	100					
1,1-Dichloroethane	MG/KG	19	26					
1,2-Dichloroethene (cis)	MG/KG	59	100					
Acetone	MG/KG	100	100					
Isopropylbenzene (Cumene)	MG/KG	100 CP-51	-					
Methylcyclohexane	MG/KG	-	-					
Methylene chloride	MG/KG	51	100		0.021 J	0.017 J		0.012 J
Naphthalene	MG/KG	100	100		NA	NA		NA
Styrene	MG/KG	-	-				0.0070	
Tetrachloroethene	MG/KG	5.5	19		0.018 J	0.0093 J		0.083 J
Toluene	MG/KG	100	100					
Trichloroethene	MG/KG	10	21					
Xylene (total)	MG/KG	100	100					

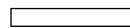
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Residential, plus CP-51 Table 1 10/21/10.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Restricted Residential, plus CP-51 Table 1 10/21/10.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

Blank cell - Not Detected. NA - Not analyzed.

Only Detected Results Reported.


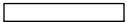
TABLE 4-3
SUMMARY OF DETECTED VOCs IN ALL RI PHASE I AND SC PHASE I – III SOIL SAMPLES –
RESIDENTIAL AND RESTRICTED RESIDENTIAL CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID				DEC-031	DEC-032	DEC-033	DEC-042	DEC-043D
Sample ID				DEC-31-33-34	DEC-32 29-31'	DEC-33 33-34'	DEC-042 38-39	DEC-043D (80-81')
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				33.0-34.0	29.0-31.0	33.0-34.0	38.0-39.0	80.0-81.0
Date Sampled				11/20/07	11/28/07	11/29/07	05/16/08	05/12/11
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
1,1,1-Trichloroethane	MG/KG	100	100					
1,1-Dichloroethane	MG/KG	19	26					
1,2-Dichloroethene (cis)	MG/KG	59	100					
Acetone	MG/KG	100	100		0.021 J			0.0057 J
Isopropylbenzene (Cumene)	MG/KG	100 CP-51	-					
Methylcyclohexane	MG/KG	-	-					
Methylene chloride	MG/KG	51	100	0.028 J	0.017 J	0.022 J		
Naphthalene	MG/KG	100	100	NA	NA	NA	NA	
Styrene	MG/KG	-	-					
Tetrachloroethene	MG/KG	5.5	19	0.20 J				
Toluene	MG/KG	100	100					
Trichloroethene	MG/KG	10	21					
Xylene (total)	MG/KG	100	100					

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Residential, plus CP-51 Table 1 10/21/10.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Restricted Residential, plus CP-51 Table 1 10/21/10.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria (1)
 Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

Blank cell - Not Detected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-3
SUMMARY OF DETECTED VOCs IN ALL RI PHASE I AND SC PHASE I – III SOIL SAMPLES –
RESIDENTIAL AND RESTRICTED RESIDENTIAL CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID				DEC-045	DEC-046	DEC-048	DEC-064D	DEC-065D
Sample ID				DEC-045 32-34	DEC-046 33-35	DEC-48(24.5-25.5)	DEC-064D (29-29.5)	DEC-065D(9-10')
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				32.0-34.0	33.0-35.0	24.5-25.5	29.0-29.5	9.0-10.0
Date Sampled				06/16/08	06/23/08	06/24/08	05/12/11	05/24/11
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
1,1,1-Trichloroethane	MG/KG	100	100					
1,1-Dichloroethane	MG/KG	19	26					
1,2-Dichloroethene (cis)	MG/KG	59	100					
Acetone	MG/KG	100	100		0.033		0.0043 J	0.0024 J
Isopropylbenzene (Cumene)	MG/KG	100 CP-51	-			0.42		
Methylcyclohexane	MG/KG	-	-			0.52		
Methylene chloride	MG/KG	51	100					0.0031 J
Naphthalene	MG/KG	100	100	NA	NA	NA		
Styrene	MG/KG	-	-					
Tetrachloroethene	MG/KG	5.5	19					
Toluene	MG/KG	100	100			0.20		
Trichloroethene	MG/KG	10	21					
Xylene (total)	MG/KG	100	100			0.89 J		

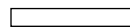
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Residential, plus CP-51 Table 1 10/21/10.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Restricted Residential, plus CP-51 Table 1 10/21/10.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

Blank cell - Not Detected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-3
SUMMARY OF DETECTED VOCs IN ALL RI PHASE I AND SC PHASE I – III SOIL SAMPLES –
RESIDENTIAL AND RESTRICTED RESIDENTIAL CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID				DEC-065D	DEC-065D	DEC-066D	DEC-066D	SB-11
Sample ID				DEC-065D(14-15')	DEC-065D(34-35)	DEC-066D (24-25)	DEC-066D (29-30)	SB-11-25-26
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				14.0-15.0	34.0-35.0	24.0-25.0	29.0-30.0	25.0-26.0
Date Sampled				05/24/11	05/24/11	05/20/11	05/23/11	11/29/07
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
1,1,1-Trichloroethane	MG/KG	100	100					0.036
1,1-Dichloroethane	MG/KG	19	26					0.0026 J
1,2-Dichloroethene (cis)	MG/KG	59	100					0.0029 J
Acetone	MG/KG	100	100	0.0028 J	0.0097 J			0.056 J
Isopropylbenzene (Cumene)	MG/KG	100 CP-51	-					
Methylcyclohexane	MG/KG	-	-					
Methylene chloride	MG/KG	51	100	0.0041 J		0.0022 J	0.0021 J	0.072 J
Naphthalene	MG/KG	100	100		0.014 J			NA
Styrene	MG/KG	-	-					
Tetrachloroethene	MG/KG	5.5	19			0.0022 J	0.0048 J	0.036
Toluene	MG/KG	100	100					
Trichloroethene	MG/KG	10	21					0.0040 J
Xylene (total)	MG/KG	100	100					

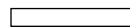
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Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Restricted Residential, plus CP-51 Table 1 10/21/10.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

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Blank cell - Not Detected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-3
SUMMARY OF DETECTED VOCs IN ALL RI PHASE I AND SC PHASE I – III SOIL SAMPLES –
RESIDENTIAL AND RESTRICTED RESIDENTIAL CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID				SB-11	SB-13	SB-14	SB-18	SB-19
Sample ID				SB-11-31.5-32.5	SB-13 (32-33')	SB-14 (33-34')	SB-18 (15-16')	SB-19 (11-12')
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				31.5-32.5	32.0-33.0	33.0-34.0	15.0-16.0	11.0-12.0
Date Sampled				11/29/07	05/14/08	05/14/08	05/13/08	05/13/08
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
1,1,1-Trichloroethane	MG/KG	100	100					
1,1-Dichloroethane	MG/KG	19	26					
1,2-Dichloroethene (cis)	MG/KG	59	100					
Acetone	MG/KG	100	100	0.027 J				
Isopropylbenzene (Cumene)	MG/KG	100 CP-51	-					
Methylcyclohexane	MG/KG	-	-					
Methylene chloride	MG/KG	51	100	0.033 J				
Naphthalene	MG/KG	100	100	NA	NA	NA	NA	NA
Styrene	MG/KG	-	-					
Tetrachloroethene	MG/KG	5.5	19				0.26	0.084
Toluene	MG/KG	100	100					
Trichloroethene	MG/KG	10	21					
Xylene (total)	MG/KG	100	100					

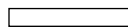
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Residential, plus CP-51 Table 1 10/21/10.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Restricted Residential, plus CP-51 Table 1 10/21/10.

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Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

Blank cell - Not Detected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-3
SUMMARY OF DETECTED VOCs IN ALL RI PHASE I AND SC PHASE I – III SOIL SAMPLES –
RESIDENTIAL AND RESTRICTED RESIDENTIAL CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID				SB-20	SB-21	SG-078	SG-079	SG-080
Sample ID				SB-20 (7-8')	SB-21 (13.5-15')	SG-78 (4-5')	SG-79 (7-8')	SG-80 (7-8')
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				7.0-8.0	13.5-15.0	4.0-5.0	7.0-8.0	7.0-8.0
Date Sampled				05/13/08	05/13/08	05/06/11	05/06/11	05/06/11
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
1,1,1-Trichloroethane	MG/KG	100	100					
1,1-Dichloroethane	MG/KG	19	26					
1,2-Dichloroethene (cis)	MG/KG	59	100					
Acetone	MG/KG	100	100			0.0045 J	0.0076 J	0.0039 J
Isopropylbenzene (Cumene)	MG/KG	100 CP-51	-					
Methylcyclohexane	MG/KG	-	-					
Methylene chloride	MG/KG	51	100					
Naphthalene	MG/KG	100	100	NA	NA			
Styrene	MG/KG	-	-					
Tetrachloroethene	MG/KG	5.5	19					
Toluene	MG/KG	100	100					
Trichloroethene	MG/KG	10	21					
Xylene (total)	MG/KG	100	100					

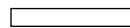
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Residential, plus CP-51 Table 1 10/21/10.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Restricted Residential, plus CP-51 Table 1 10/21/10.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

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Blank cell - Not Detected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-3
SUMMARY OF DETECTED VOCs IN ALL RI PHASE I AND SC PHASE I – III SOIL SAMPLES –
RESIDENTIAL AND RESTRICTED RESIDENTIAL CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID				SG-081	SG-082	SG-083	SG-084	SG-085
Sample ID				SG-81 (7-8")	SG-82 (7-8")	SG-83 (7-8")	SG-84 (7-8")	SG-85 (7-8")
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				7.0-8.0	7.0-8.0	7.0-8.0	7.0-8.0	7.0-8.0
Date Sampled				05/06/11	05/06/11	05/06/11	05/06/11	05/06/11
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
1,1,1-Trichloroethane	MG/KG	100	100					
1,1-Dichloroethane	MG/KG	19	26					
1,2-Dichloroethene (cis)	MG/KG	59	100					
Acetone	MG/KG	100	100	0.0025 J	0.0029 J	0.0035 J	0.0035 J	0.0028 J
Isopropylbenzene (Cumene)	MG/KG	100 CP-51	-					
Methylcyclohexane	MG/KG	-	-					
Methylene chloride	MG/KG	51	100					
Naphthalene	MG/KG	100	100					
Styrene	MG/KG	-	-					
Tetrachloroethene	MG/KG	5.5	19		0.0014 J	0.011	0.014	
Toluene	MG/KG	100	100			0.0015 J		
Trichloroethene	MG/KG	10	21					
Xylene (total)	MG/KG	100	100					

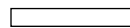
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Residential, plus CP-51 Table 1 10/21/10.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Restricted Residential, plus CP-51 Table 1 10/21/10.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

Blank cell - Not Detected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-3
SUMMARY OF DETECTED VOCs IN ALL RI PHASE I AND SC PHASE I – III SOIL SAMPLES –
RESIDENTIAL AND RESTRICTED RESIDENTIAL CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID				SG-086	SG-087
Sample ID				SG-86 (7-8")	SG-87 (7-8")
Matrix				Soil	Soil
Depth Interval (ft)				7.0-8.0	7.0-8.0
Date Sampled				05/06/11	05/06/11
Parameter	Units	Criteria (1)	Criteria (2)		
Volatile Organic Compounds					
1,1,1-Trichloroethane	MG/KG	100	100		
1,1-Dichloroethane	MG/KG	19	26		
1,2-Dichloroethene (cis)	MG/KG	59	100		
Acetone	MG/KG	100	100	0.0029 J	0.0028 J
Isopropylbenzene (Cumene)	MG/KG	100 CP-51	-		
Methylcyclohexane	MG/KG	-	-		
Methylene chloride	MG/KG	51	100		
Naphthalene	MG/KG	100	100		
Styrene	MG/KG	-	-		
Tetrachloroethene	MG/KG	5.5	19	0.0014 J	
Toluene	MG/KG	100	100		
Trichloroethene	MG/KG	10	21		
Xylene (total)	MG/KG	100	100		

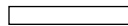
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Residential, plus CP-51 Table 1 10/21/10.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Restricted Residential, plus CP-51 Table 1 10/21/10.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

Blank cell - Not Detected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-4
SUMMARY OF DETECTED SVOCs, PESTICIDES/PCBS, HERBICIDES, METALS AND CYANIDE IN RI
PHASE I AND SC PHASE I-III SOIL SAMPLES
RESIDENTIAL AND RESTRICTED RESIDENTIAL USE CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID				DEC-029D	DEC-030D	DEC-048	DEC-065D	DEC-065D
Sample ID				DEC-029D (75-76")	DEC-030D (3.5-4.5')	DEC-48(24.5-25.5)	DEC-065D(9-10')	DEC-065D(14-15')
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				75.0-76.0	3.5-4.5	24.5-25.5	9.0-10.0	14.0-15.0
Date Sampled				05/11/11	05/09/11	06/24/08	05/24/11	05/24/11
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
1,1-Biphenyl	MG/KG	-	-			3.7		
2-Methylnaphthalene	MG/KG	0.41 CP-51	-			16		
Acenaphthene	MG/KG	100	100			2.3		
Anthracene	MG/KG	100	100			0.59		
Benzo(a)anthracene	MG/KG	1	1		0.073 J			
Benzo(a)pyrene	MG/KG	1	1		0.092 J			
Benzo(b)fluoranthene	MG/KG	1	1		0.096 J			
Benzo(g,h,i)perylene	MG/KG	100	100		0.072 J			
Benzo(k)fluoranthene	MG/KG	1	3.9		0.056 J			
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	-		0.075 J		0.26	0.073 J
Chrysene	MG/KG	1	3.9		0.083 J			
Dibenz(a,h)anthracene	MG/KG	0.33	0.33		0.023 J			
Di-n-butylphthalate	MG/KG	100 CP-51	-		0.13 J			
Fluoranthene	MG/KG	100	100		0.11 J			
Fluorene	MG/KG	100	100			2.9		
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	0.5		0.058 J			
Naphthalene	MG/KG	100	100			3.0		
Phenanthrene	MG/KG	100	100		0.046 J	7.1		
Pyrene	MG/KG	100	100		0.16 J	0.67		

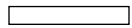
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Residential, plus CP-51 Table 1 10/21/10.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Restricted Residential, plus CP-51 Table 1 10/21/10.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

B (metals only) - The reported concentration is above the method detection limit but below the quantitation limit.

Blank cell - Not Detected. NA - Not analyzed.

Only Detected Results Reported.

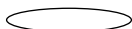
TABLE 4-4
SUMMARY OF DETECTED SVOCs, PESTICIDES/PCBS, HERBICIDES, METALS AND CYANIDE IN RI
PHASE I AND SC PHASE I-III SOIL SAMPLES
RESIDENTIAL AND RESTRICTED RESIDENTIAL USE CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID				DEC-029D	DEC-030D	DEC-048	DEC-065D	DEC-065D
Sample ID				DEC-029D (75-76")	DEC-030D (3.5-4.5')	DEC-48(24.5-25.5)	DEC-065D(9-10')	DEC-065D(14-15')
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				75.0-76.0	3.5-4.5	24.5-25.5	9.0-10.0	14.0-15.0
Date Sampled				05/11/11	05/09/11	06/24/08	05/24/11	05/24/11
Parameter	Units	Criteria (1)	Criteria (2)					
Pesticide Organic Compounds								
alpha-Chlordane	MG/KG	0.91	4.2		0.017 J	NA		
Dieldrin	MG/KG	0.039	0.2		0.0052	NA		
gamma-Chlordane	MG/KG	0.54 CP-51	-		0.014 J	NA		
Metals								
Aluminum	MG/KG	-	-	2,270	6,760	NA	7,470	10,100
Arsenic	MG/KG	16	16	0.70	2.5	NA	0.53 B	
Barium	MG/KG	350	400	19.3	59.9	NA	47.9	113
Beryllium	MG/KG	14	72	0.15 B	0.46	NA	0.68	1.1
Cadmium	MG/KG	2.5	4.3	0.048 B	0.49	NA		
Calcium	MG/KG	-	-	566	1,210	NA	2,490	6,070
Chromium	MG/KG	36	180	4.7	27.3	NA	22.8	32.7
Cobalt	MG/KG	30 CP-51	-	2.9	7.0	NA	7.6	15.4
Copper	MG/KG	270	270	6.4	23.7	NA	13.8	29.8
Iron	MG/KG	2000 CP-51	-	4,730	23,100	NA	27,700	54,900
Lead	MG/KG	400	400	1.4	74.2	NA	6.8	10.5
Magnesium	MG/KG	-	-	1,220	2,080	NA	2,340	3,180
Manganese	MG/KG	2000	2000	242	421	NA	529	1,290
Mercury	MG/KG	0.81	0.81		0.32	NA	0.0063 B	0.0060 B
Nickel	MG/KG	140	310	5.6	12.2	NA	12.6	22.2

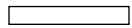
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Residential, plus CP-51 Table 1 10/21/10.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Restricted Residential, plus CP-51 Table 1 10/21/10.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

B (metals only) - The reported concentration is above the method detection limit but below the quantitation limit.

Blank cell - Not Detected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-4
SUMMARY OF DETECTED SVOCs, PESTICIDES/PCBS, HERBICIDES, METALS AND CYANIDE IN RI
PHASE I AND SC PHASE I-III SOIL SAMPLES
RESIDENTIAL AND RESTRICTED RESIDENTIAL USE CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID				DEC-029D	DEC-030D	DEC-048	DEC-065D	DEC-065D
Sample ID				DEC-029D (75-76")	DEC-030D (3.5-4.5')	DEC-48(24.5-25.5)	DEC-065D(9-10')	DEC-065D(14-15')
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				75.0-76.0	3.5-4.5	24.5-25.5	9.0-10.0	14.0-15.0
Date Sampled				05/11/11	05/09/11	06/24/08	05/24/11	05/24/11
Parameter	Units	Criteria (1)	Criteria (2)					
Metals								
Potassium	MG/KG	-	-	290	1,270	NA	43.6	2,080
Selenium	MG/KG	36	180		0.49 B	NA		
Sodium	MG/KG	-	-	69.2	79.9	NA	9.0 B	360
Thallium	MG/KG	-	-			NA	2.7	3.4
Vanadium	MG/KG	100 CP-51	-	5.1	23.4	NA	32.3	54.2
Zinc	MG/KG	2200	10000	10.0	61.5	NA	44.0	55.4

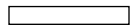
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Residential, plus CP-51 Table 1 10/21/10.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Restricted Residential, plus CP-51 Table 1 10/21/10.

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Concentration Exceeds Criteria (1)



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TABLE 4-4
SUMMARY OF DETECTED SVOCs, PESTICIDES/PCBS, HERBICIDES, METALS AND CYANIDE IN RI
PHASE I AND SC PHASE I-III SOIL SAMPLES
RESIDENTIAL AND RESTRICTED RESIDENTIAL USE CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID				DEC-066D
Sample ID				DEC-066D (24-25)
Matrix				Soil
Depth Interval (ft)				24.0-25.0
Date Sampled				05/20/11
Parameter	Units	Criteria (1)	Criteria (2)	
Semivolatile Organic Compounds				
1,1-Biphenyl	MG/KG	-	-	
2-Methylnaphthalene	MG/KG	0.41 CP-51	-	
Acenaphthene	MG/KG	100	100	
Anthracene	MG/KG	100	100	
Benzo(a)anthracene	MG/KG	1	1	
Benzo(a)pyrene	MG/KG	1	1	
Benzo(b)fluoranthene	MG/KG	1	1	
Benzo(g,h,i)perylene	MG/KG	100	100	
Benzo(k)fluoranthene	MG/KG	1	3.9	
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	-	0.091 J
Chrysene	MG/KG	1	3.9	
Dibenz(a,h)anthracene	MG/KG	0.33	0.33	
Di-n-butylphthalate	MG/KG	100 CP-51	-	
Fluoranthene	MG/KG	100	100	
Fluorene	MG/KG	100	100	
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	0.5	
Naphthalene	MG/KG	100	100	
Phenanthrene	MG/KG	100	100	
Pyrene	MG/KG	100	100	

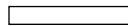
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Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

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B (metals only) - The reported concentration is above the method detection limit but below the quantitation limit.

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Only Detected Results Reported.

TABLE 4-4
SUMMARY OF DETECTED SVOCs, PESTICIDES/PCBS, HERBICIDES, METALS AND CYANIDE IN RI
PHASE I AND SC PHASE I-III SOIL SAMPLES
RESIDENTIAL AND RESTRICTED RESIDENTIAL USE CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID				DEC-066D
Sample ID				DEC-066D (24-25)
Matrix				Soil
Depth Interval (ft)				24.0-25.0
Date Sampled				05/20/11
Parameter	Units	Criteria (1)	Criteria (2)	
Pesticide Organic Compounds				
alpha-Chlordane	MG/KG	0.91	4.2	
Dieldrin	MG/KG	0.039	0.2	
gamma-Chlordane	MG/KG	0.54 CP-51	-	
Metals				
Aluminum	MG/KG	-	-	4,610
Arsenic	MG/KG	16	16	
Barium	MG/KG	350	400	27.2
Beryllium	MG/KG	14	72	0.40
Cadmium	MG/KG	2.5	4.3	
Calcium	MG/KG	-	-	1,580
Chromium	MG/KG	36	180	11.6
Cobalt	MG/KG	30 CP-51	-	4.8
Copper	MG/KG	270	270	8.3
Iron	MG/KG	2000 CP-51	-	10,100
Lead	MG/KG	400	400	3.2
Magnesium	MG/KG	-	-	1,990
Manganese	MG/KG	2000	2000	235
Mercury	MG/KG	0.81	0.81	0.0032 B
Nickel	MG/KG	140	310	8.8

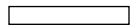
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Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

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Only Detected Results Reported.

TABLE 4-4
SUMMARY OF DETECTED SVOCs, PESTICIDES/PCBS, HERBICIDES, METALS AND CYANIDE IN RI
PHASE I AND SC PHASE I-III SOIL SAMPLES
RESIDENTIAL AND RESTRICTED RESIDENTIAL USE CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID				DEC-066D
Sample ID				DEC-066D (24-25)
Matrix				Soil
Depth Interval (ft)				24.0-25.0
Date Sampled				05/20/11
Parameter	Units	Criteria (1)	Criteria (2)	
Metals				
Potassium	MG/KG	-	-	1,070
Selenium	MG/KG	36	180	
Sodium	MG/KG	-	-	84.6
Thallium	MG/KG	-	-	2.5
Vanadium	MG/KG	100 CP-51	-	15.4
Zinc	MG/KG	2200	10000	22.1

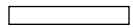
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Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Restricted Residential, plus CP-51 Table 1 10/21/10.

Flags assigned during chemistry validation are shown.



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Concentration Exceeds Criteria (2)

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Blank cell - Not Detected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-5
STATISTICAL SUMMARY OF VOCs DETECTED IN ALL RI PHASE I AND SC PHASE I – III SOIL SAMPLES IN THE KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Parameter	Units	No. of Samples	No. of Detections	Range of Detections			Location of Max Value	Depth Of Max
				Min	Max	Avg		
Volatile Organic Compounds								
1,1,1-Trichloroethane	MG/KG	57	1	0.036	0.036	0.036	SB-11	25-26
1,1-Dichloroethane	MG/KG	57	1	0.003	0.003	0.003	SB-11	25-26
1,2-Dichloroethene (cis)	MG/KG	57	1	0.003	0.003	0.003	SB-11	25-26
Acetone	MG/KG	57	32	0.002	0.120	0.018	DEC-004	35-36
Isopropylbenzene (Cumene)	MG/KG	57	1	0.420	0.420	0.420	DEC-048	24.5-25.5
Methylcyclohexane	MG/KG	57	1	0.520	0.520	0.520	DEC-048	24.5-25.5
Methylene chloride	MG/KG	57	15	0.002	0.072	0.018	SB-11	25-26
Naphthalene	MG/KG	20	1	0.014	0.014	0.014	DEC-065D	34-35
Styrene	MG/KG	57	1	0.007	0.007	0.007	DEC-030D	3.5-4.5
Tetrachloroethene	MG/KG	57	25	0.001	0.260	0.034	SB-18	15-16
Toluene	MG/KG	57	10	0.001	0.200	0.023	DEC-048	24.5-25.5
Trichloroethene	MG/KG	57	1	0.004	0.004	0.004	SB-11	25-26
Xylene (total)	MG/KG	57	1	0.890	0.890	0.890	DEC-048	24.5-25.5

Only Detected Results Reported.

TABLE 4-6
SUMMARY OF DETECTED VOCs IN RI PHASE II AND SC PHASE VI SOIL SAMPLES – SOIL
BACKGROUND, UNRESTRICTED USE AND PROTECTION OF GROUNDWATER CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID					DEC-029TC	DEC-071	DEC-088D	DEC-089D	DEC-090D
Sample ID					DEC-29TC 109-110	DEC-071 37-38	DEC-088D 37-38	DEC-89D 34-35	DEC-090D 30-31
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					109.0-110.0	37.0-38.0	37.0-38.0	34.0-35.0	30.0-31.0
Date Sampled					10/04/11	08/30/11	02/28/12	03/02/12	03/06/12
Parameter	Units	Criteria (1)	Criteria (2)	Criteria (3)					
Volatile Organic Compounds									
Acetone	MG/KG	0.05	0.05	-	0.0093 J				
Methylene chloride	MG/KG	0.05	0.05	-					0.0019 J
Tetrachloroethene	MG/KG	1.3	1.3	-					
Toluene	MG/KG	0.7	0.7	-					
Trichloroethene	MG/KG	0.47	0.47	-		0.0019 J			
Xylene (total)	MG/KG	0.26	1.6	-					

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.

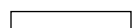
Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, plus CP-51 Table 1 10/21/10.

Criteria (3)- Background soil concentrations from Msgr. McGolrick Park collected August 3, 2011 exceeding 6 NYCRR Part 375.6 Unrestricted Use and CP-51 Table 1 limits.

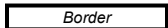
Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria 1



Concentration Exceeds Criteria (2)



Concentration Exceeds Criteria (3)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

Blank cell - Not Detected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-6
SUMMARY OF DETECTED VOCs IN RI PHASE II AND SC PHASE VI SOIL SAMPLES – SOIL
BACKGROUND, UNRESTRICTED USE AND PROTECTION OF GROUNDWATER CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID					DEC-091D	SG-061R	SG-088	SG-092	SG-097
Sample ID					DEC-091D 30-31	SG-61R 5-5.5	SG-88 (7-7.5)	SG-92 (3-4)	SG-97 (7-8)
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					30.0-31.0	5.0-5.5	7.0-7.5	3.0-4.0	7.0-8.0
Date Sampled					03/08/12	03/02/12	08/09/11	08/09/11	08/11/11
Parameter	Units	Criteria (1)	Criteria (2)	Criteria (3)					
Volatile Organic Compounds									
Acetone	MG/KG	0.05	0.05	-					
Methylene chloride	MG/KG	0.05	0.05	-					
Tetrachloroethene	MG/KG	1.3	1.3	-				0.0011 J	
Toluene	MG/KG	0.7	0.7	-					0.00057 J
Trichloroethene	MG/KG	0.47	0.47	-					
Xylene (total)	MG/KG	0.26	1.6	-					0.0017 J

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.

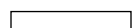
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Criteria (3)- Background soil concentrations from Msgr. McGolrick Park collected August 3, 2011 exceeding 6 NYCRR Part 375.6 Unrestricted Use and CP-51 Table 1 limits.

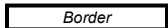
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Only Detected Results Reported.

TABLE 4-6
SUMMARY OF DETECTED VOCs IN RI PHASE II AND SC PHASE VI SOIL SAMPLES – SOIL
BACKGROUND, UNRESTRICTED USE AND PROTECTION OF GROUNDWATER CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID					SG-112	SG-113	SG-114	SG-115	SG-116
Sample ID					SG-112 4.5-5	SG-113 7.5-8	SG-114 7.5-8.0	SG-115 6.5-7.0	SG-116 4.0-4.5
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					4.5-5.0	7.5-8.0	7.5-8.0	6.5-7.0	4.0-4.5
Date Sampled					03/02/12	03/02/12	03/01/12	03/01/12	03/01/12
Parameter	Units	Criteria (1)	Criteria (2)	Criteria (3)					
Volatile Organic Compounds									
Acetone	MG/KG	0.05	0.05	-					
Methylene chloride	MG/KG	0.05	0.05	-			0.0015 J	0.0031 J	
Tetrachloroethene	MG/KG	1.3	1.3	-			0.0011 J	0.011	0.0043 J
Toluene	MG/KG	0.7	0.7	-					
Trichloroethene	MG/KG	0.47	0.47	-			0.0021 J		
Xylene (total)	MG/KG	0.26	1.6	-					

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.

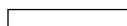
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Criteria (3)- Background soil concentrations from Msgr. McGolrick Park collected August 3, 2011 exceeding 6 NYCRR Part 375.6 Unrestricted Use and CP-51 Table 1 limits.

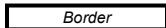
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Only Detected Results Reported.

TABLE 4-6
SUMMARY OF DETECTED VOCs IN RI PHASE II AND SC PHASE VI SOIL SAMPLES – SOIL
BACKGROUND, UNRESTRICTED USE AND PROTECTION OF GROUNDWATER CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID					SG-117	SG-118	SG-119	SG-120	SG-121
Sample ID					SG-117 3.0-3.5	SG-118 6.5-7.0	SG-119 3.5-4	SG-120 2-2.5	SG-121 2-2.5
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					3.0-3.5	6.5-7.0	3.5-4.0	2.0-2.5	2.0-2.5
Date Sampled					03/01/12	03/01/12	03/01/12	03/02/12	03/02/12
Parameter	Units	Criteria (1)	Criteria (2)	Criteria (3)					
Volatile Organic Compounds									
Acetone	MG/KG	0.05	0.05	-					
Methylene chloride	MG/KG	0.05	0.05	-					0.0063
Tetrachloroethene	MG/KG	1.3	1.3	-	0.0028 J				
Toluene	MG/KG	0.7	0.7	-					
Trichloroethene	MG/KG	0.47	0.47	-					
Xylene (total)	MG/KG	0.26	1.6	-					

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.

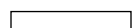
Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, plus CP-51 Table 1 10/21/10.

Criteria (3)- Background soil concentrations from Msgr. McGolrick Park collected August 3, 2011 exceeding 6 NYCRR Part 375.6 Unrestricted Use and CP-51 Table 1 limits.

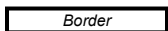
Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria 1



Concentration Exceeds Criteria (2)



Concentration Exceeds Criteria (3)

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Only Detected Results Reported.

TABLE 4-6
SUMMARY OF DETECTED VOCs IN RI PHASE II AND SC PHASE VI SOIL SAMPLES – SOIL
BACKGROUND, UNRESTRICTED USE AND PROTECTION OF GROUNDWATER CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-122			
Sample ID		SG-122 2-2.5			
Matrix		Soil			
Depth Interval (ft)		2.0-2.5			
Date Sampled		03/02/12			
Parameter	Units	Criteria (1)	Criteria (2)	Criteria (3)	
Volatile Organic Compounds					
Acetone	MG/KG	0.05	0.05	-	
Methylene chloride	MG/KG	0.05	0.05	-	
Tetrachloroethene	MG/KG	1.3	1.3	-	
Toluene	MG/KG	0.7	0.7	-	
Trichloroethene	MG/KG	0.47	0.47	-	
Xylene (total)	MG/KG	0.26	1.6	-	

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.

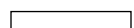
Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, plus CP-51 Table 1 10/21/10.

Criteria (3)- Background soil concentrations from Msgr. McGolrick Park collected August 3, 2011 exceeding 6 NYCRR Part 375.6 Unrestricted Use and CP-51 Table 1 limits.

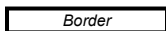
Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria 1



Concentration Exceeds Criteria (2)



Concentration Exceeds Criteria (3)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

Blank cell - Not Detected. NA - Not analyzed.

Only Detected Results Reported.

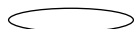
TABLE 4-7
SUMMARY OF DETECTED VOCs IN RI PHASE II AND SC PHASE VI SOIL SAMPLES – RESIDENTIAL
AND RESTRICTED RESIDENTIAL CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID				DEC-029TC	DEC-071	DEC-088D	DEC-089D	DEC-090D
Sample ID				DEC-29TC 109-110	DEC-071 37-38	DEC-088D 37-38	DEC-89D 34-35	DEC-090D 30-31
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				109.0-110.0	37.0-38.0	37.0-38.0	34.0-35.0	30.0-31.0
Date Sampled				10/04/11	08/30/11	02/28/12	03/02/12	03/06/12
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
Acetone	MG/KG	100	100	0.0093 J				
Methylene chloride	MG/KG	51	100					0.0019 J
Tetrachloroethene	MG/KG	5.5	19					
Toluene	MG/KG	100	100					
Trichloroethene	MG/KG	10	21		0.0019 J			
Xylene (total)	MG/KG	100	100					

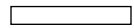
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Residential, plus CP-51 Table 1 10/21/10.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Restricted Residential, plus CP-51 Table 1 10/21/10.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

Blank cell - Not Detected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-7
SUMMARY OF DETECTED VOCs IN RI PHASE II AND SC PHASE VI SOIL SAMPLES – RESIDENTIAL
AND RESTRICTED RESIDENTIAL CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID				DEC-091D	SG-061R	SG-088	SG-092	SG-097
Sample ID				DEC-091D 30-31	SG-61R 5-5.5	SG-88 (7-7.5)	SG-92 (3-4)	SG-97 (7-8)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				30.0-31.0	5.0-5.5	7.0-7.5	3.0-4.0	7.0-8.0
Date Sampled				03/08/12	03/02/12	08/09/11	08/09/11	08/11/11
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
Acetone	MG/KG	100	100					
Methylene chloride	MG/KG	51	100					
Tetrachloroethene	MG/KG	5.5	19				0.0011 J	
Toluene	MG/KG	100	100					0.00057 J
Trichloroethene	MG/KG	10	21					
Xylene (total)	MG/KG	100	100					0.0017 J

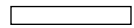
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Residential, plus CP-51 Table 1 10/21/10.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Restricted Residential, plus CP-51 Table 1 10/21/10.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

Blank cell - Not Detected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-7
SUMMARY OF DETECTED VOCs IN RI PHASE II AND SC PHASE VI SOIL SAMPLES – RESIDENTIAL
AND RESTRICTED RESIDENTIAL CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID				SG-112	SG-113	SG-114	SG-115	SG-116
Sample ID				SG-112 4.5-5	SG-113 7.5-8	SG-114 7.5-8.0	SG-115 6.5-7.0	SG-116 4.0-4.5
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				4.5-5.0	7.5-8.0	7.5-8.0	6.5-7.0	4.0-4.5
Date Sampled				03/02/12	03/02/12	03/01/12	03/01/12	03/01/12
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
Acetone	MG/KG	100	100					
Methylene chloride	MG/KG	51	100			0.0015 J	0.0031 J	
Tetrachloroethene	MG/KG	5.5	19			0.0011 J	0.011	0.0043 J
Toluene	MG/KG	100	100					
Trichloroethene	MG/KG	10	21			0.0021 J		
Xylene (total)	MG/KG	100	100					

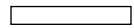
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Residential, plus CP-51 Table 1 10/21/10.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Restricted Residential, plus CP-51 Table 1 10/21/10.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

Blank cell - Not Detected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-7
SUMMARY OF DETECTED VOCs IN RI PHASE II AND SC PHASE VI SOIL SAMPLES – RESIDENTIAL
AND RESTRICTED RESIDENTIAL CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID				SG-117	SG-118	SG-119	SG-120	SG-121
Sample ID				SG-117 3.0-3.5	SG-118 6.5-7.0	SG-119 3.5-4	SG-120 2-2.5	SG-121 2-2.5
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.0-3.5	6.5-7.0	3.5-4.0	2.0-2.5	2.0-2.5
Date Sampled				03/01/12	03/01/12	03/01/12	03/02/12	03/02/12
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
Acetone	MG/KG	100	100					
Methylene chloride	MG/KG	51	100					0.0063
Tetrachloroethene	MG/KG	5.5	19	0.0028 J				
Toluene	MG/KG	100	100					
Trichloroethene	MG/KG	10	21					
Xylene (total)	MG/KG	100	100					

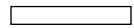
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Residential, plus CP-51 Table 1 10/21/10.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Restricted Residential, plus CP-51 Table 1 10/21/10.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

Blank cell - Not Detected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-7
SUMMARY OF DETECTED VOCs IN RI PHASE II AND SC PHASE VI SOIL SAMPLES – RESIDENTIAL
AND RESTRICTED RESIDENTIAL CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-122		
Sample ID		SG-122 2-2.5		
Matrix		Soil		
Depth Interval (ft)		2.0-2.5		
Date Sampled		03/02/12		
Parameter	Units	Criteria (1)	Criteria (2)	
Volatile Organic Compounds				
Acetone	MG/KG	100	100	
Methylene chloride	MG/KG	51	100	
Tetrachloroethene	MG/KG	5.5	19	
Toluene	MG/KG	100	100	
Trichloroethene	MG/KG	10	21	
Xylene (total)	MG/KG	100	100	

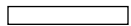
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Residential, plus CP-51 Table 1 10/21/10.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Restricted Residential, plus CP-51 Table 1 10/21/10.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

Blank cell - Not Detected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-8
SUMMARY OF DETECTED VOCs IN ALL SOIL SAMPLES – SOIL BACKGROUND, UNRESTRICTED
USE AND PROTECTION OF GROUNDWATER CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID					DEC-004	DEC-006	DEC-008	DEC-009	DEC-009
Sample ID					DEC-04-35-36	DEC-06-23-24	DEC-08-38	DEC-09 12-13	DEC-09 38-39
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					35.0-36.0	23.0-24.0	38.0-38.0	12.0-13.0	38.0-39.0
Date Sampled					06/13/07	05/21/07	06/07/07	05/30/07	05/30/07
Parameter	Units	Criteria (1)	Criteria (2)	Criteria (3)					
Volatile Organic Compounds									
1,1,1-Trichloroethane	MG/KG	0.68	0.68	-					
1,1-Dichloroethane	MG/KG	0.27	0.27	-					
1,2-Dichloroethene (cis)	MG/KG	0.25	0.25	-					
Acetone	MG/KG	0.05	0.05	-	0.12 J	0.019 J		0.023 J	0.017 J
Isopropylbenzene (Cumene)	MG/KG	2.3 CP-51	2.3 CP-51	-					
Methylcyclohexane	MG/KG	-	-	-					
Methylene chloride	MG/KG	0.05	0.05	-			0.0046 J		
Naphthalene	MG/KG	12	12	-	NA	NA	NA	NA	NA
Styrene	MG/KG	300 CP-51	-	-					
Tetrachloroethene	MG/KG	1.3	1.3	-		0.023	0.0039 J	0.0036 J	0.0026 J
Toluene	MG/KG	0.7	0.7	-		0.0077		0.0019	0.0024
Trichloroethene	MG/KG	0.47	0.47	-					
Xylene (total)	MG/KG	0.26	1.6	-					

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.

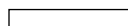
Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, plus CP-51 Table 1 10/21/10.

Criteria (3)- Background soil concentrations from Msgr. McGolrick Park collected August 3, 2011 exceeding 6 NYCRR Part 375.6 Unrestricted Use and CP-51 Table 1 limits.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria 1



Concentration Exceeds Criteria (2)



Concentration Exceeds Criteria (3)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-8
SUMMARY OF DETECTED VOCs IN ALL SOIL SAMPLES – SOIL BACKGROUND, UNRESTRICTED
USE AND PROTECTION OF GROUNDWATER CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID					DEC-010	DEC-010	DEC-011	DEC-012	DEC-012
Sample ID					DEC-10-24-25	DEC-10 35-37	DEC-11 35-36	DEC-12-34	DEC-12-36
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					24.0-25.0	35.0-37.0	35.0-36.0	34.0-34.0	36.0-36.0
Date Sampled					05/24/07	05/25/07	05/29/07	06/04/07	06/04/07
Parameter	Units	Criteria (1)	Criteria (2)	Criteria (3)					
Volatile Organic Compounds									
1,1,1-Trichloroethane	MG/KG	0.68	0.68	-					
1,1-Dichloroethane	MG/KG	0.27	0.27	-					
1,2-Dichloroethene (cis)	MG/KG	0.25	0.25	-					
Acetone	MG/KG	0.05	0.05	-		0.027 J			
Isopropylbenzene (Cumene)	MG/KG	2.3 CP-51	2.3 CP-51	-					
Methylcyclohexane	MG/KG	-	-	-					
Methylene chloride	MG/KG	0.05	0.05	-					0.0046 J
Naphthalene	MG/KG	12	12	-	NA	NA	NA	NA	NA
Styrene	MG/KG	300 CP-51	-	-					
Tetrachloroethene	MG/KG	1.3	1.3	-	0.012	0.016			0.0021 J
Toluene	MG/KG	0.7	0.7	-		0.0039			
Trichloroethene	MG/KG	0.47	0.47	-					
Xylene (total)	MG/KG	0.26	1.6	-					

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.

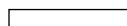
Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, plus CP-51 Table 1 10/21/10.

Criteria (3)- Background soil concentrations from Msgr. McGolrick Park collected August 3, 2011 exceeding 6 NYCRR Part 375.6 Unrestricted Use and CP-51 Table 1 limits.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria 1



Concentration Exceeds Criteria (2)



Concentration Exceeds Criteria (3)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-8
SUMMARY OF DETECTED VOCs IN ALL SOIL SAMPLES – SOIL BACKGROUND, UNRESTRICTED
USE AND PROTECTION OF GROUNDWATER CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID					DEC-013	DEC-013	DEC-014	DEC-014D	DEC-015
Sample ID					DEC-13-34-35	DEC-13-35-36	DEC-14 20-21	DEC-014D 31-32	DEC-15 34-35
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					34.0-35.0	35.0-36.0	20.0-21.0	31.0-32.0	34.0-35.0
Date Sampled					11/23/07	11/23/07	05/25/07	05/17/11	05/29/07
Parameter	Units	Criteria (1)	Criteria (2)	Criteria (3)					
Volatile Organic Compounds									
1,1,1-Trichloroethane	MG/KG	0.68	0.68	-					
1,1-Dichloroethane	MG/KG	0.27	0.27	-					
1,2-Dichloroethene (cis)	MG/KG	0.25	0.25	-					
Acetone	MG/KG	0.05	0.05	-	0.019 J	0.020 J	0.020 J		
Isopropylbenzene (Cumene)	MG/KG	2.3 CP-51	2.3 CP-51	-					
Methylcyclohexane	MG/KG	-	-	-					
Methylene chloride	MG/KG	0.05	0.05	-					
Naphthalene	MG/KG	12	12	-	NA	NA	NA		NA
Styrene	MG/KG	300 CP-51	-	-					
Tetrachloroethene	MG/KG	1.3	1.3	-	0.0025 J		0.0039 J		0.037
Toluene	MG/KG	0.7	0.7	-			0.0020		0.0013
Trichloroethene	MG/KG	0.47	0.47	-					
Xylene (total)	MG/KG	0.26	1.6	-					

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.

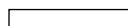
Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, plus CP-51 Table 1 10/21/10.

Criteria (3)- Background soil concentrations from Msgr. McGolrick Park collected August 3, 2011 exceeding 6 NYCRR Part 375.6 Unrestricted Use and CP-51 Table 1 limits.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria 1



Concentration Exceeds Criteria (2)



Concentration Exceeds Criteria (3)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-8
SUMMARY OF DETECTED VOCs IN ALL SOIL SAMPLES – SOIL BACKGROUND, UNRESTRICTED
USE AND PROTECTION OF GROUNDWATER CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID					DEC-022	DEC-027	DEC-028	DEC-028	DEC-029
Sample ID					DEC-22 30-31	DEC-27 37-38	DEC-28 18-20	DEC-28 36-38	DEC-29-33-35
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					30.0-31.0	37.0-38.0	18.0-20.0	36.0-38.0	33.0-35.0
Date Sampled					05/23/07	12/04/07	11/16/07	11/16/07	11/26/07
Parameter	Units	Criteria (1)	Criteria (2)	Criteria (3)					
Volatile Organic Compounds									
1,1,1-Trichloroethane	MG/KG	0.68	0.68	-					
1,1-Dichloroethane	MG/KG	0.27	0.27	-					
1,2-Dichloroethene (cis)	MG/KG	0.25	0.25	-					
Acetone	MG/KG	0.05	0.05	-	0.021 J	0.025 J	0.024 J	0.011 J	0.045 J
Isopropylbenzene (Cumene)	MG/KG	2.3 CP-51	2.3 CP-51	-					
Methylcyclohexane	MG/KG	-	-	-					
Methylene chloride	MG/KG	0.05	0.05	-					0.029 J
Naphthalene	MG/KG	12	12	-	NA	NA	NA	NA	NA
Styrene	MG/KG	300 CP-51	-	-					
Tetrachloroethene	MG/KG	1.3	1.3	-	0.013			0.013	
Toluene	MG/KG	0.7	0.7	-	0.0027				0.0030
Trichloroethene	MG/KG	0.47	0.47	-					
Xylene (total)	MG/KG	0.26	1.6	-					

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.

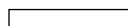
Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, plus CP-51 Table 1 10/21/10.

Criteria (3)- Background soil concentrations from Msgr. McGolrick Park collected August 3, 2011 exceeding 6 NYCRR Part 375.6 Unrestricted Use and CP-51 Table 1 limits.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria 1



Concentration Exceeds Criteria (2)



Border

Concentration Exceeds Criteria (3)

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Only Detected Results Reported.

TABLE 4-8
SUMMARY OF DETECTED VOCs IN ALL SOIL SAMPLES – SOIL BACKGROUND, UNRESTRICTED
USE AND PROTECTION OF GROUNDWATER CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID					DEC-029D	DEC-029TC	DEC-030	DEC-030	DEC-030D
Sample ID					DEC-029D (75-76')	DEC-29TC 109-110	DEC-30-26-27	DEC-30-33-34	DEC-030D (3.5-4.5')
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					75.0-76.0	109.0-110.0	26.0-27.0	33.0-34.0	3.5-4.5
Date Sampled					05/11/11	10/04/11	11/19/07	11/19/07	05/09/11
Parameter	Units	Criteria (1)	Criteria (2)	Criteria (3)					
Volatile Organic Compounds									
1,1,1-Trichloroethane	MG/KG	0.68	0.68	-					
1,1-Dichloroethane	MG/KG	0.27	0.27	-					
1,2-Dichloroethene (cis)	MG/KG	0.25	0.25	-					
Acetone	MG/KG	0.05	0.05	-		0.0093 J			
Isopropylbenzene (Cumene)	MG/KG	2.3 CP-51	2.3 CP-51	-					
Methylcyclohexane	MG/KG	-	-	-					
Methylene chloride	MG/KG	0.05	0.05	-			0.021 J	0.017 J	
Naphthalene	MG/KG	12	12	-		NA	NA	NA	
Styrene	MG/KG	300 CP-51	-	-					0.0070
Tetrachloroethene	MG/KG	1.3	1.3	-			0.018 J	0.0093 J	
Toluene	MG/KG	0.7	0.7	-					
Trichloroethene	MG/KG	0.47	0.47	-					
Xylene (total)	MG/KG	0.26	1.6	-					

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.

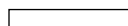
Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, plus CP-51 Table 1 10/21/10.

Criteria (3)- Background soil concentrations from Msgr. McGolrick Park collected August 3, 2011 exceeding 6 NYCRR Part 375.6 Unrestricted Use and CP-51 Table 1 limits.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria 1



Concentration Exceeds Criteria (2)



Concentration Exceeds Criteria (3)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-8
SUMMARY OF DETECTED VOCs IN ALL SOIL SAMPLES – SOIL BACKGROUND, UNRESTRICTED
USE AND PROTECTION OF GROUNDWATER CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID					DEC-031	DEC-031	DEC-032	DEC-033	DEC-042
Sample ID					DEC-31-29-30	DEC-31-33-34	DEC-32 29-31'	DEC-33 33-34'	DEC-042 38-39
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					29.0-30.0	33.0-34.0	29.0-31.0	33.0-34.0	38.0-39.0
Date Sampled					11/20/07	11/20/07	11/28/07	11/29/07	05/16/08
Parameter	Units	Criteria (1)	Criteria (2)	Criteria (3)					
Volatile Organic Compounds									
1,1,1-Trichloroethane	MG/KG	0.68	0.68	-					
1,1-Dichloroethane	MG/KG	0.27	0.27	-					
1,2-Dichloroethene (cis)	MG/KG	0.25	0.25	-					
Acetone	MG/KG	0.05	0.05	-			0.021 J		
Isopropylbenzene (Cumene)	MG/KG	2.3 CP-51	2.3 CP-51	-					
Methylcyclohexane	MG/KG	-	-	-					
Methylene chloride	MG/KG	0.05	0.05	-	0.012 J	0.028 J	0.017 J	0.022 J	
Naphthalene	MG/KG	12	12	-	NA	NA	NA	NA	NA
Styrene	MG/KG	300 CP-51	-	-					
Tetrachloroethene	MG/KG	1.3	1.3	-	0.083 J	0.20 J			
Toluene	MG/KG	0.7	0.7	-					
Trichloroethene	MG/KG	0.47	0.47	-					
Xylene (total)	MG/KG	0.26	1.6	-					

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.

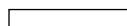
Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, plus CP-51 Table 1 10/21/10.

Criteria (3)- Background soil concentrations from Msgr. McGolrick Park collected August 3, 2011 exceeding 6 NYCRR Part 375.6 Unrestricted Use and CP-51 Table 1 limits.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria 1



Concentration Exceeds Criteria (2)



Concentration Exceeds Criteria (3)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-8
SUMMARY OF DETECTED VOCs IN ALL SOIL SAMPLES – SOIL BACKGROUND, UNRESTRICTED
USE AND PROTECTION OF GROUNDWATER CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID					DEC-043D	DEC-045	DEC-046	DEC-048	DEC-064D
Sample ID					DEC-043D (80-81')	DEC-045 32-34	DEC-046 33-35	DEC-48(24.5-25.5)	DEC-064D (29-29.5)
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					80.0-81.0	32.0-34.0	33.0-35.0	24.5-25.5	29.0-29.5
Date Sampled					05/12/11	06/16/08	06/23/08	06/24/08	05/12/11
Parameter	Units	Criteria (1)	Criteria (2)	Criteria (3)					
Volatile Organic Compounds									
1,1,1-Trichloroethane	MG/KG	0.68	0.68	-					
1,1-Dichloroethane	MG/KG	0.27	0.27	-					
1,2-Dichloroethene (cis)	MG/KG	0.25	0.25	-					
Acetone	MG/KG	0.05	0.05	-	0.0057 J		0.033		0.0043 J
Isopropylbenzene (Cumene)	MG/KG	2.3 CP-51	2.3 CP-51	-				0.42	
Methylcyclohexane	MG/KG	-	-	-				0.52	
Methylene chloride	MG/KG	0.05	0.05	-					
Naphthalene	MG/KG	12	12	-		NA	NA	NA	
Styrene	MG/KG	300 CP-51	-	-					
Tetrachloroethene	MG/KG	1.3	1.3	-					
Toluene	MG/KG	0.7	0.7	-				0.20	
Trichloroethene	MG/KG	0.47	0.47	-					
Xylene (total)	MG/KG	0.26	1.6	-				0.89 J	

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.

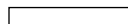
Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, plus CP-51 Table 1 10/21/10.

Criteria (3)- Background soil concentrations from Msgr. McGolrick Park collected August 3, 2011 exceeding 6 NYCRR Part 375.6 Unrestricted Use and CP-51 Table 1 limits.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria 1



Concentration Exceeds Criteria (2)



Border

Concentration Exceeds Criteria (3)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-8
SUMMARY OF DETECTED VOCs IN ALL SOIL SAMPLES – SOIL BACKGROUND, UNRESTRICTED
USE AND PROTECTION OF GROUNDWATER CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID					DEC-065D	DEC-065D	DEC-065D	DEC-066D	DEC-066D
Sample ID					DEC-065D(9-10')	DEC-065D(14-15')	DEC-065D(34-35)	DEC-066D (24-25)	DEC-066D (29-30)
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					9.0-10.0	14.0-15.0	34.0-35.0	24.0-25.0	29.0-30.0
Date Sampled					05/24/11	05/24/11	05/24/11	05/20/11	05/23/11
Parameter	Units	Criteria (1)	Criteria (2)	Criteria (3)					
Volatile Organic Compounds									
1,1,1-Trichloroethane	MG/KG	0.68	0.68	-					
1,1-Dichloroethane	MG/KG	0.27	0.27	-					
1,2-Dichloroethene (cis)	MG/KG	0.25	0.25	-					
Acetone	MG/KG	0.05	0.05	-	0.0024 J	0.0028 J	0.0097 J		
Isopropylbenzene (Cumene)	MG/KG	2.3 CP-51	2.3 CP-51	-					
Methylcyclohexane	MG/KG	-	-	-					
Methylene chloride	MG/KG	0.05	0.05	-	0.0031 J	0.0041 J		0.0022 J	0.0021 J
Naphthalene	MG/KG	12	12	-			0.014 J		
Styrene	MG/KG	300 CP-51	-	-					
Tetrachloroethene	MG/KG	1.3	1.3	-				0.0022 J	0.0048 J
Toluene	MG/KG	0.7	0.7	-					
Trichloroethene	MG/KG	0.47	0.47	-					
Xylene (total)	MG/KG	0.26	1.6	-					

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.

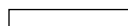
Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, plus CP-51 Table 1 10/21/10.

Criteria (3)- Background soil concentrations from Msgr. McGolrick Park collected August 3, 2011 exceeding 6 NYCRR Part 375.6 Unrestricted Use and CP-51 Table 1 limits.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria 1



Concentration Exceeds Criteria (2)



Concentration Exceeds Criteria (3)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-8
SUMMARY OF DETECTED VOCs IN ALL SOIL SAMPLES – SOIL BACKGROUND, UNRESTRICTED
USE AND PROTECTION OF GROUNDWATER CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID					DEC-071	DEC-088D	DEC-089D	DEC-090D	DEC-091D
Sample ID					DEC-071 37-38	DEC-088D 37-38	DEC-89D 34-35	DEC-090D 30-31	DEC-091D 30-31
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					37.0-38.0	37.0-38.0	34.0-35.0	30.0-31.0	30.0-31.0
Date Sampled					08/30/11	02/28/12	03/02/12	03/06/12	03/08/12
Parameter	Units	Criteria (1)	Criteria (2)	Criteria (3)					
Volatile Organic Compounds									
1,1,1-Trichloroethane	MG/KG	0.68	0.68	-					
1,1-Dichloroethane	MG/KG	0.27	0.27	-					
1,2-Dichloroethene (cis)	MG/KG	0.25	0.25	-					
Acetone	MG/KG	0.05	0.05	-					
Isopropylbenzene (Cumene)	MG/KG	2.3 CP-51	2.3 CP-51	-					
Methylcyclohexane	MG/KG	-	-	-					
Methylene chloride	MG/KG	0.05	0.05	-				0.0019 J	
Naphthalene	MG/KG	12	12	-	NA				
Styrene	MG/KG	300 CP-51	-	-					
Tetrachloroethene	MG/KG	1.3	1.3	-					
Toluene	MG/KG	0.7	0.7	-					
Trichloroethene	MG/KG	0.47	0.47	-	0.0019 J				
Xylene (total)	MG/KG	0.26	1.6	-					

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.

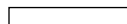
Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, plus CP-51 Table 1 10/21/10.

Criteria (3)- Background soil concentrations from Msgr. McGolrick Park collected August 3, 2011 exceeding 6 NYCRR Part 375.6 Unrestricted Use and CP-51 Table 1 limits.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria 1



Concentration Exceeds Criteria (2)



Border

Concentration Exceeds Criteria (3)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-8
SUMMARY OF DETECTED VOCs IN ALL SOIL SAMPLES – SOIL BACKGROUND, UNRESTRICTED
USE AND PROTECTION OF GROUNDWATER CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID					SB-11	SB-11	SB-13	SB-14	SB-18
Sample ID					SB-11-25-26	SB-11-31.5-32.5	SB-13 (32-33')	SB-14 (33-34')	SB-18 (15-16')
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					25.0-26.0	31.5-32.5	32.0-33.0	33.0-34.0	15.0-16.0
Date Sampled					11/29/07	11/29/07	05/14/08	05/14/08	05/13/08
Parameter	Units	Criteria (1)	Criteria (2)	Criteria (3)					
Volatile Organic Compounds									
1,1,1-Trichloroethane	MG/KG	0.68	0.68	-	0.036				
1,1-Dichloroethane	MG/KG	0.27	0.27	-	0.0026 J				
1,2-Dichloroethene (cis)	MG/KG	0.25	0.25	-	0.0029 J				
Acetone	MG/KG	0.05	0.05	-	0.056 J	0.027 J			
Isopropylbenzene (Cumene)	MG/KG	2.3 CP-51	2.3 CP-51	-					
Methylcyclohexane	MG/KG	-	-	-					
Methylene chloride	MG/KG	0.05	0.05	-	0.072 J	0.033 J			
Naphthalene	MG/KG	12	12	-	NA	NA	NA	NA	NA
Styrene	MG/KG	300 CP-51	-	-					
Tetrachloroethene	MG/KG	1.3	1.3	-	0.036				0.26
Toluene	MG/KG	0.7	0.7	-					
Trichloroethene	MG/KG	0.47	0.47	-	0.0040 J				
Xylene (total)	MG/KG	0.26	1.6	-					

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.

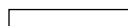
Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, plus CP-51 Table 1 10/21/10.

Criteria (3)- Background soil concentrations from Msgr. McGolrick Park collected August 3, 2011 exceeding 6 NYCRR Part 375.6 Unrestricted Use and CP-51 Table 1 limits.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria 1



Concentration Exceeds Criteria (2)



Concentration Exceeds Criteria (3)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-8
SUMMARY OF DETECTED VOCs IN ALL SOIL SAMPLES – SOIL BACKGROUND, UNRESTRICTED
USE AND PROTECTION OF GROUNDWATER CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID					SB-19	SB-20	SB-21	SG-061R	SG-078
Sample ID					SB-19 (11-12')	SB-20 (7-8')	SB-21 (13.5-15')	SG-61R 5-5.5	SG-78 (4-5')
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					11.0-12.0	7.0-8.0	13.5-15.0	5.0-5.5	4.0-5.0
Date Sampled					05/13/08	05/13/08	05/13/08	03/02/12	05/06/11
Parameter	Units	Criteria (1)	Criteria (2)	Criteria (3)					
Volatile Organic Compounds									
1,1,1-Trichloroethane	MG/KG	0.68	0.68	-					
1,1-Dichloroethane	MG/KG	0.27	0.27	-					
1,2-Dichloroethene (cis)	MG/KG	0.25	0.25	-					
Acetone	MG/KG	0.05	0.05	-					0.0045 J
Isopropylbenzene (Cumene)	MG/KG	2.3 CP-51	2.3 CP-51	-					
Methylcyclohexane	MG/KG	-	-	-					
Methylene chloride	MG/KG	0.05	0.05	-					
Naphthalene	MG/KG	12	12	-	NA	NA	NA		
Styrene	MG/KG	300 CP-51	-	-					
Tetrachloroethene	MG/KG	1.3	1.3	-	0.084				
Toluene	MG/KG	0.7	0.7	-					
Trichloroethene	MG/KG	0.47	0.47	-					
Xylene (total)	MG/KG	0.26	1.6	-					

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.

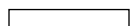
Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, plus CP-51 Table 1 10/21/10.

Criteria (3)- Background soil concentrations from Msgr. McGolrick Park collected August 3, 2011 exceeding 6 NYCRR Part 375.6 Unrestricted Use and CP-51 Table 1 limits.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria 1



Concentration Exceeds Criteria (2)



Concentration Exceeds Criteria (3)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-8
SUMMARY OF DETECTED VOCs IN ALL SOIL SAMPLES – SOIL BACKGROUND, UNRESTRICTED
USE AND PROTECTION OF GROUNDWATER CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID					SG-079	SG-080	SG-081	SG-082	SG-083
Sample ID					SG-79 (7-8')	SG-80 (7-8')	SG-81 (7-8')	SG-82 (7-8')	SG-83 (7-8')
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					7.0-8.0	7.0-8.0	7.0-8.0	7.0-8.0	7.0-8.0
Date Sampled					05/06/11	05/06/11	05/06/11	05/06/11	05/06/11
Parameter	Units	Criteria (1)	Criteria (2)	Criteria (3)					
Volatile Organic Compounds									
1,1,1-Trichloroethane	MG/KG	0.68	0.68	-					
1,1-Dichloroethane	MG/KG	0.27	0.27	-					
1,2-Dichloroethene (cis)	MG/KG	0.25	0.25	-					
Acetone	MG/KG	0.05	0.05	-	0.0076 J	0.0039 J	0.0025 J	0.0029 J	0.0035 J
Isopropylbenzene (Cumene)	MG/KG	2.3 CP-51	2.3 CP-51	-					
Methylcyclohexane	MG/KG	-	-	-					
Methylene chloride	MG/KG	0.05	0.05	-					
Naphthalene	MG/KG	12	12	-					
Styrene	MG/KG	300 CP-51	-	-					
Tetrachloroethene	MG/KG	1.3	1.3	-				0.0014 J	0.011
Toluene	MG/KG	0.7	0.7	-					0.0015 J
Trichloroethene	MG/KG	0.47	0.47	-					
Xylene (total)	MG/KG	0.26	1.6	-					

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.

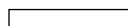
Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, plus CP-51 Table 1 10/21/10.

Criteria (3)- Background soil concentrations from Msgr. McGolrick Park collected August 3, 2011 exceeding 6 NYCRR Part 375.6 Unrestricted Use and CP-51 Table 1 limits.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria 1



Concentration Exceeds Criteria (2)



Concentration Exceeds Criteria (3)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-8
SUMMARY OF DETECTED VOCs IN ALL SOIL SAMPLES – SOIL BACKGROUND, UNRESTRICTED
USE AND PROTECTION OF GROUNDWATER CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID					SG-084	SG-085	SG-086	SG-087	SG-088
Sample ID					SG-84 (7-8')	SG-85 (7-8')	SG-86 (7-8')	SG-87 (7-8')	SG-88 (7-7.5)
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					7.0-8.0	7.0-8.0	7.0-8.0	7.0-8.0	7.0-7.5
Date Sampled					05/06/11	05/06/11	05/06/11	05/06/11	08/09/11
Parameter	Units	Criteria (1)	Criteria (2)	Criteria (3)					
Volatile Organic Compounds									
1,1,1-Trichloroethane	MG/KG	0.68	0.68	-					
1,1-Dichloroethane	MG/KG	0.27	0.27	-					
1,2-Dichloroethene (cis)	MG/KG	0.25	0.25	-					
Acetone	MG/KG	0.05	0.05	-	0.0035 J	0.0028 J	0.0029 J	0.0028 J	
Isopropylbenzene (Cumene)	MG/KG	2.3 CP-51	2.3 CP-51	-					
Methylcyclohexane	MG/KG	-	-	-					
Methylene chloride	MG/KG	0.05	0.05	-					
Naphthalene	MG/KG	12	12	-					NA
Styrene	MG/KG	300 CP-51	-	-					
Tetrachloroethene	MG/KG	1.3	1.3	-	0.014		0.0014 J		
Toluene	MG/KG	0.7	0.7	-					
Trichloroethene	MG/KG	0.47	0.47	-					
Xylene (total)	MG/KG	0.26	1.6	-					

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.

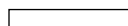
Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, plus CP-51 Table 1 10/21/10.

Criteria (3)- Background soil concentrations from Msgr. McGolrick Park collected August 3, 2011 exceeding 6 NYCRR Part 375.6 Unrestricted Use and CP-51 Table 1 limits.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria 1



Concentration Exceeds Criteria (2)



Concentration Exceeds Criteria (3)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-8
SUMMARY OF DETECTED VOCs IN ALL SOIL SAMPLES – SOIL BACKGROUND, UNRESTRICTED
USE AND PROTECTION OF GROUNDWATER CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID					SG-092	SG-097	SG-112	SG-113	SG-114
Sample ID					SG-92 (3-4)	SG-97 (7-8)	SG-112 4.5-5	SG-113 7.5-8	SG-114 7.5-8.0
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					3.0-4.0	7.0-8.0	4.5-5.0	7.5-8.0	7.5-8.0
Date Sampled					08/09/11	08/11/11	03/02/12	03/02/12	03/01/12
Parameter	Units	Criteria (1)	Criteria (2)	Criteria (3)					
Volatile Organic Compounds									
1,1,1-Trichloroethane	MG/KG	0.68	0.68	-					
1,1-Dichloroethane	MG/KG	0.27	0.27	-					
1,2-Dichloroethene (cis)	MG/KG	0.25	0.25	-					
Acetone	MG/KG	0.05	0.05	-					
Isopropylbenzene (Cumene)	MG/KG	2.3 CP-51	2.3 CP-51	-					
Methylcyclohexane	MG/KG	-	-	-					
Methylene chloride	MG/KG	0.05	0.05	-					0.0015 J
Naphthalene	MG/KG	12	12	-	NA	NA			
Styrene	MG/KG	300 CP-51	-	-					
Tetrachloroethene	MG/KG	1.3	1.3	-	0.0011 J				0.0011 J
Toluene	MG/KG	0.7	0.7	-		0.00057 J			
Trichloroethene	MG/KG	0.47	0.47	-					0.0021 J
Xylene (total)	MG/KG	0.26	1.6	-		0.0017 J			

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.

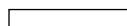
Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, plus CP-51 Table 1 10/21/10.

Criteria (3)- Background soil concentrations from Msgr. McGolrick Park collected August 3, 2011 exceeding 6 NYCRR Part 375.6 Unrestricted Use and CP-51 Table 1 limits.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria 1



Concentration Exceeds Criteria (2)



Concentration Exceeds Criteria (3)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-8
SUMMARY OF DETECTED VOCs IN ALL SOIL SAMPLES – SOIL BACKGROUND, UNRESTRICTED
USE AND PROTECTION OF GROUNDWATER CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID					SG-115	SG-116	SG-117	SG-118	SG-119
Sample ID					SG-115 6.5-7.0	SG-116 4.0-4.5	SG-117 3.0-3.5	SG-118 6.5-7.0	SG-119 3.5-4
Matrix					Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)					6.5-7.0	4.0-4.5	3.0-3.5	6.5-7.0	3.5-4.0
Date Sampled					03/01/12	03/01/12	03/01/12	03/01/12	03/01/12
Parameter	Units	Criteria (1)	Criteria (2)	Criteria (3)					
Volatile Organic Compounds									
1,1,1-Trichloroethane	MG/KG	0.68	0.68	-					
1,1-Dichloroethane	MG/KG	0.27	0.27	-					
1,2-Dichloroethene (cis)	MG/KG	0.25	0.25	-					
Acetone	MG/KG	0.05	0.05	-					
Isopropylbenzene (Cumene)	MG/KG	2.3 CP-51	2.3 CP-51	-					
Methylcyclohexane	MG/KG	-	-	-					
Methylene chloride	MG/KG	0.05	0.05	-	0.0031 J				
Naphthalene	MG/KG	12	12	-					
Styrene	MG/KG	300 CP-51	-	-					
Tetrachloroethene	MG/KG	1.3	1.3	-	0.011	0.0043 J	0.0028 J		
Toluene	MG/KG	0.7	0.7	-					
Trichloroethene	MG/KG	0.47	0.47	-					
Xylene (total)	MG/KG	0.26	1.6	-					

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.

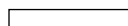
Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, plus CP-51 Table 1 10/21/10.

Criteria (3)- Background soil concentrations from Msgr. McGolrick Park collected August 3, 2011 exceeding 6 NYCRR Part 375.6 Unrestricted Use and CP-51 Table 1 limits.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria 1



Concentration Exceeds Criteria (2)



Concentration Exceeds Criteria (3)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-8
SUMMARY OF DETECTED VOCs IN ALL SOIL SAMPLES – SOIL BACKGROUND, UNRESTRICTED
USE AND PROTECTION OF GROUNDWATER CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID					SG-120	SG-121	SG-122
Sample ID					SG-120 2-2.5	SG-121 2-2.5	SG-122 2-2.5
Matrix					Soil	Soil	Soil
Depth Interval (ft)					2.0-2.5	2.0-2.5	2.0-2.5
Date Sampled					03/02/12	03/02/12	03/02/12
Parameter	Units	Criteria (1)	Criteria (2)	Criteria (3)			
Volatile Organic Compounds							
1,1,1-Trichloroethane	MG/KG	0.68	0.68	-			
1,1-Dichloroethane	MG/KG	0.27	0.27	-			
1,2-Dichloroethene (cis)	MG/KG	0.25	0.25	-			
Acetone	MG/KG	0.05	0.05	-			
Isopropylbenzene (Cumene)	MG/KG	2.3 CP-51	2.3 CP-51	-			
Methylcyclohexane	MG/KG	-	-	-			
Methylene chloride	MG/KG	0.05	0.05	-		0.0063	
Naphthalene	MG/KG	12	12	-			
Styrene	MG/KG	300 CP-51	-	-			
Tetrachloroethene	MG/KG	1.3	1.3	-			
Toluene	MG/KG	0.7	0.7	-			
Trichloroethene	MG/KG	0.47	0.47	-			
Xylene (total)	MG/KG	0.26	1.6	-			

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.

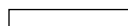
Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Restricted Use. Protection of Groundwater, plus CP-51 Table 1 10/21/10.

Criteria (3)- Background soil concentrations from Msgr. McGolrick Park collected August 3, 2011 exceeding 6 NYCRR Part 375.6 Unrestricted Use and CP-51 Table 1 limits.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria 1



Concentration Exceeds Criteria (2)



Concentration Exceeds Criteria (3)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-9
SUMMARY OF DETECTED VOCs IN ALL SOIL SAMPLES – RESIDENTIAL AND RESTRICTED
RESIDENTIAL CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID				DEC-004	DEC-006	DEC-008	DEC-009	DEC-009
Sample ID				DEC-04-35-36	DEC-06-23-24	DEC-08-38	DEC-09 12-13	DEC-09 38-39
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				35.0-36.0	23.0-24.0	38.0-38.0	12.0-13.0	38.0-39.0
Date Sampled				06/13/07	05/21/07	06/07/07	05/30/07	05/30/07
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
1,1,1-Trichloroethane	MG/KG	100	100					
1,1-Dichloroethane	MG/KG	19	26					
1,2-Dichloroethene (cis)	MG/KG	59	100					
Acetone	MG/KG	100	100	0.12 J	0.019 J		0.023 J	0.017 J
Isopropylbenzene (Cumene)	MG/KG	100 CP-51	-					
Methylcyclohexane	MG/KG	-	-					
Methylene chloride	MG/KG	51	100			0.0046 J		
Naphthalene	MG/KG	100	100	NA	NA	NA	NA	NA
Styrene	MG/KG	-	-					
Tetrachloroethene	MG/KG	5.5	19		0.023	0.0039 J	0.0036 J	0.0026 J
Toluene	MG/KG	100	100		0.0077		0.0019	0.0024
Trichloroethene	MG/KG	10	21					
Xylene (total)	MG/KG	100	100					

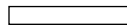
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Residential, plus CP-51 Table 1 10/21/10.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Restricted Residential, plus CP-51 Table 1 10/21/10.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-9
SUMMARY OF DETECTED VOCs IN ALL SOIL SAMPLES – RESIDENTIAL AND RESTRICTED
RESIDENTIAL CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID				DEC-010	DEC-010	DEC-011	DEC-012	DEC-012
Sample ID				DEC-10-24-25	DEC-10 35-37	DEC-11 35-36	DEC-12-34	DEC-12-36
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				24.0-25.0	35.0-37.0	35.0-36.0	34.0-34.0	36.0-36.0
Date Sampled				05/24/07	05/25/07	05/29/07	06/04/07	06/04/07
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
1,1,1-Trichloroethane	MG/KG	100	100					
1,1-Dichloroethane	MG/KG	19	26					
1,2-Dichloroethene (cis)	MG/KG	59	100					
Acetone	MG/KG	100	100		0.027 J			
Isopropylbenzene (Cumene)	MG/KG	100 CP-51	-					
Methylcyclohexane	MG/KG	-	-					
Methylene chloride	MG/KG	51	100					0.0046 J
Naphthalene	MG/KG	100	100	NA	NA	NA	NA	NA
Styrene	MG/KG	-	-					
Tetrachloroethene	MG/KG	5.5	19	0.012	0.016			0.0021 J
Toluene	MG/KG	100	100		0.0039			
Trichloroethene	MG/KG	10	21					
Xylene (total)	MG/KG	100	100					

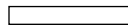
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Residential, plus CP-51 Table 1 10/21/10.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Restricted Residential, plus CP-51 Table 1 10/21/10.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-9
SUMMARY OF DETECTED VOCs IN ALL SOIL SAMPLES – RESIDENTIAL AND RESTRICTED
RESIDENTIAL CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID				DEC-013	DEC-013	DEC-014	DEC-014D	DEC-015
Sample ID				DEC-13-34-35	DEC-13-35-36	DEC-14 20-21	DEC-014D 31-32	DEC-15 34-35
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				34.0-35.0	35.0-36.0	20.0-21.0	31.0-32.0	34.0-35.0
Date Sampled				11/23/07	11/23/07	05/25/07	05/17/11	05/29/07
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
1,1,1-Trichloroethane	MG/KG	100	100					
1,1-Dichloroethane	MG/KG	19	26					
1,2-Dichloroethene (cis)	MG/KG	59	100					
Acetone	MG/KG	100	100	0.019 J	0.020 J	0.020 J		
Isopropylbenzene (Cumene)	MG/KG	100 CP-51	-					
Methylcyclohexane	MG/KG	-	-					
Methylene chloride	MG/KG	51	100					
Naphthalene	MG/KG	100	100	NA	NA	NA		NA
Styrene	MG/KG	-	-					
Tetrachloroethene	MG/KG	5.5	19	0.0025 J		0.0039 J		0.037
Toluene	MG/KG	100	100			0.0020		0.0013
Trichloroethene	MG/KG	10	21					
Xylene (total)	MG/KG	100	100					

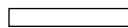
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Residential, plus CP-51 Table 1 10/21/10.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Restricted Residential, plus CP-51 Table 1 10/21/10.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-9
SUMMARY OF DETECTED VOCs IN ALL SOIL SAMPLES – RESIDENTIAL AND RESTRICTED
RESIDENTIAL CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID				DEC-022	DEC-027	DEC-028	DEC-028	DEC-029
Sample ID				DEC-22 30-31	DEC-27 37-38'	DEC-28 18-20	DEC-28 36-38	DEC-29-33-35
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				30.0-31.0	37.0-38.0	18.0-20.0	36.0-38.0	33.0-35.0
Date Sampled				05/23/07	12/04/07	11/16/07	11/16/07	11/26/07
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
1,1,1-Trichloroethane	MG/KG	100	100					
1,1-Dichloroethane	MG/KG	19	26					
1,2-Dichloroethene (cis)	MG/KG	59	100					
Acetone	MG/KG	100	100	0.021 J	0.025 J	0.024 J	0.011 J	0.045 J
Isopropylbenzene (Cumene)	MG/KG	100 CP-51	-					
Methylcyclohexane	MG/KG	-	-					
Methylene chloride	MG/KG	51	100					0.029 J
Naphthalene	MG/KG	100	100	NA	NA	NA	NA	NA
Styrene	MG/KG	-	-					
Tetrachloroethene	MG/KG	5.5	19	0.013			0.013	
Toluene	MG/KG	100	100	0.0027				0.0030
Trichloroethene	MG/KG	10	21					
Xylene (total)	MG/KG	100	100					

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Residential, plus CP-51 Table 1 10/21/10.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Restricted Residential, plus CP-51 Table 1 10/21/10.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-9
SUMMARY OF DETECTED VOCs IN ALL SOIL SAMPLES – RESIDENTIAL AND RESTRICTED
RESIDENTIAL CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID				DEC-029D	DEC-029TC	DEC-030	DEC-030	DEC-030D
Sample ID				DEC-029D (75-76")	DEC-29TC 109-110	DEC-30-26-27	DEC-30-33-34	DEC-030D (3.5-4.5")
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				75.0-76.0	109.0-110.0	26.0-27.0	33.0-34.0	3.5-4.5
Date Sampled				05/11/11	10/04/11	11/19/07	11/19/07	05/09/11
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
1,1,1-Trichloroethane	MG/KG	100	100					
1,1-Dichloroethane	MG/KG	19	26					
1,2-Dichloroethene (cis)	MG/KG	59	100					
Acetone	MG/KG	100	100		0.0093 J			
Isopropylbenzene (Cumene)	MG/KG	100 CP-51	-					
Methylcyclohexane	MG/KG	-	-					
Methylene chloride	MG/KG	51	100			0.021 J	0.017 J	
Naphthalene	MG/KG	100	100		NA	NA	NA	
Styrene	MG/KG	-	-					0.0070
Tetrachloroethene	MG/KG	5.5	19			0.018 J	0.0093 J	
Toluene	MG/KG	100	100					
Trichloroethene	MG/KG	10	21					
Xylene (total)	MG/KG	100	100					

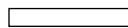
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Residential, plus CP-51 Table 1 10/21/10.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Restricted Residential, plus CP-51 Table 1 10/21/10.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-9
SUMMARY OF DETECTED VOCs IN ALL SOIL SAMPLES – RESIDENTIAL AND RESTRICTED
RESIDENTIAL CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID				DEC-031	DEC-031	DEC-032	DEC-033	DEC-042
Sample ID				DEC-31-29-30	DEC-31-33-34	DEC-32 29-31'	DEC-33 33-34'	DEC-042 38-39
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				29.0-30.0	33.0-34.0	29.0-31.0	33.0-34.0	38.0-39.0
Date Sampled				11/20/07	11/20/07	11/28/07	11/29/07	05/16/08
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
1,1,1-Trichloroethane	MG/KG	100	100					
1,1-Dichloroethane	MG/KG	19	26					
1,2-Dichloroethene (cis)	MG/KG	59	100					
Acetone	MG/KG	100	100			0.021 J		
Isopropylbenzene (Cumene)	MG/KG	100 CP-51	-					
Methylcyclohexane	MG/KG	-	-					
Methylene chloride	MG/KG	51	100	0.012 J	0.028 J	0.017 J	0.022 J	
Naphthalene	MG/KG	100	100	NA	NA	NA	NA	NA
Styrene	MG/KG	-	-					
Tetrachloroethene	MG/KG	5.5	19	0.083 J	0.20 J			
Toluene	MG/KG	100	100					
Trichloroethene	MG/KG	10	21					
Xylene (total)	MG/KG	100	100					

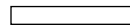
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Residential, plus CP-51 Table 1 10/21/10.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Restricted Residential, plus CP-51 Table 1 10/21/10.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-9
SUMMARY OF DETECTED VOCs IN ALL SOIL SAMPLES – RESIDENTIAL AND RESTRICTED
RESIDENTIAL CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID				DEC-043D	DEC-045	DEC-046	DEC-048	DEC-064D
Sample ID				DEC-043D (80-81')	DEC-045 32-34	DEC-046 33-35	DEC-48(24.5-25.5)	DEC-064D (29-29.5)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				80.0-81.0	32.0-34.0	33.0-35.0	24.5-25.5	29.0-29.5
Date Sampled				05/12/11	06/16/08	06/23/08	06/24/08	05/12/11
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
1,1,1-Trichloroethane	MG/KG	100	100					
1,1-Dichloroethane	MG/KG	19	26					
1,2-Dichloroethene (cis)	MG/KG	59	100					
Acetone	MG/KG	100	100	0.0057 J		0.033		0.0043 J
Isopropylbenzene (Cumene)	MG/KG	100 CP-51	-				0.42	
Methylcyclohexane	MG/KG	-	-				0.52	
Methylene chloride	MG/KG	51	100					
Naphthalene	MG/KG	100	100		NA	NA	NA	
Styrene	MG/KG	-	-					
Tetrachloroethene	MG/KG	5.5	19					
Toluene	MG/KG	100	100				0.20	
Trichloroethene	MG/KG	10	21					
Xylene (total)	MG/KG	100	100				0.89 J	

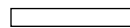
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Residential, plus CP-51 Table 1 10/21/10.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Restricted Residential, plus CP-51 Table 1 10/21/10.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-9
SUMMARY OF DETECTED VOCs IN ALL SOIL SAMPLES – RESIDENTIAL AND RESTRICTED
RESIDENTIAL CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID				DEC-065D	DEC-065D	DEC-065D	DEC-066D	DEC-066D
Sample ID				DEC-065D(9-10')	DEC-065D(14-15')	DEC-065D(34-35)	DEC-066D (24-25)	DEC-066D (29-30)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				9.0-10.0	14.0-15.0	34.0-35.0	24.0-25.0	29.0-30.0
Date Sampled				05/24/11	05/24/11	05/24/11	05/20/11	05/23/11
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
1,1,1-Trichloroethane	MG/KG	100	100					
1,1-Dichloroethane	MG/KG	19	26					
1,2-Dichloroethene (cis)	MG/KG	59	100					
Acetone	MG/KG	100	100	0.0024 J	0.0028 J	0.0097 J		
Isopropylbenzene (Cumene)	MG/KG	100 CP-51	-					
Methylcyclohexane	MG/KG	-	-					
Methylene chloride	MG/KG	51	100	0.0031 J	0.0041 J		0.0022 J	0.0021 J
Naphthalene	MG/KG	100	100			0.014 J		
Styrene	MG/KG	-	-					
Tetrachloroethene	MG/KG	5.5	19				0.0022 J	0.0048 J
Toluene	MG/KG	100	100					
Trichloroethene	MG/KG	10	21					
Xylene (total)	MG/KG	100	100					

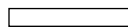
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Residential, plus CP-51 Table 1 10/21/10.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Restricted Residential, plus CP-51 Table 1 10/21/10.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-9
SUMMARY OF DETECTED VOCs IN ALL SOIL SAMPLES – RESIDENTIAL AND RESTRICTED
RESIDENTIAL CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID				DEC-071	DEC-088D	DEC-089D	DEC-090D	DEC-091D
Sample ID				DEC-071 37-38	DEC-088D 37-38	DEC-89D 34-35	DEC-090D 30-31	DEC-091D 30-31
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				37.0-38.0	37.0-38.0	34.0-35.0	30.0-31.0	30.0-31.0
Date Sampled				08/30/11	02/28/12	03/02/12	03/06/12	03/08/12
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
1,1,1-Trichloroethane	MG/KG	100	100					
1,1-Dichloroethane	MG/KG	19	26					
1,2-Dichloroethene (cis)	MG/KG	59	100					
Acetone	MG/KG	100	100					
Isopropylbenzene (Cumene)	MG/KG	100 CP-51	-					
Methylcyclohexane	MG/KG	-	-					
Methylene chloride	MG/KG	51	100				0.0019 J	
Naphthalene	MG/KG	100	100	NA				
Styrene	MG/KG	-	-					
Tetrachloroethene	MG/KG	5.5	19					
Toluene	MG/KG	100	100					
Trichloroethene	MG/KG	10	21	0.0019 J				
Xylene (total)	MG/KG	100	100					

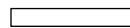
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Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Restricted Residential, plus CP-51 Table 1 10/21/10.

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Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-9
SUMMARY OF DETECTED VOCs IN ALL SOIL SAMPLES – RESIDENTIAL AND RESTRICTED
RESIDENTIAL CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID				SB-11	SB-11	SB-13	SB-14	SB-18
Sample ID				SB-11-25-26	SB-11-31.5-32.5	SB-13 (32-33")	SB-14 (33-34")	SB-18 (15-16")
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				25.0-26.0	31.5-32.5	32.0-33.0	33.0-34.0	15.0-16.0
Date Sampled				11/29/07	11/29/07	05/14/08	05/14/08	05/13/08
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
1,1,1-Trichloroethane	MG/KG	100	100	0.036				
1,1-Dichloroethane	MG/KG	19	26	0.0026 J				
1,2-Dichloroethene (cis)	MG/KG	59	100	0.0029 J				
Acetone	MG/KG	100	100	0.056 J	0.027 J			
Isopropylbenzene (Cumene)	MG/KG	100 CP-51	-					
Methylcyclohexane	MG/KG	-	-					
Methylene chloride	MG/KG	51	100	0.072 J	0.033 J			
Naphthalene	MG/KG	100	100	NA	NA	NA	NA	NA
Styrene	MG/KG	-	-					
Tetrachloroethene	MG/KG	5.5	19	0.036				0.26
Toluene	MG/KG	100	100					
Trichloroethene	MG/KG	10	21	0.0040 J				
Xylene (total)	MG/KG	100	100					

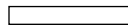
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Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Restricted Residential, plus CP-51 Table 1 10/21/10.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-9
SUMMARY OF DETECTED VOCs IN ALL SOIL SAMPLES – RESIDENTIAL AND RESTRICTED
RESIDENTIAL CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID				SB-19	SB-20	SB-21	SG-061R	SG-078
Sample ID				SB-19 (11-12')	SB-20 (7-8')	SB-21 (13.5-15')	SG-61R 5-5.5	SG-78 (4-5')
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				11.0-12.0	7.0-8.0	13.5-15.0	5.0-5.5	4.0-5.0
Date Sampled				05/13/08	05/13/08	05/13/08	03/02/12	05/06/11
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
1,1,1-Trichloroethane	MG/KG	100	100					
1,1-Dichloroethane	MG/KG	19	26					
1,2-Dichloroethene (cis)	MG/KG	59	100					
Acetone	MG/KG	100	100					0.0045 J
Isopropylbenzene (Cumene)	MG/KG	100 CP-51	-					
Methylcyclohexane	MG/KG	-	-					
Methylene chloride	MG/KG	51	100					
Naphthalene	MG/KG	100	100	NA	NA	NA		
Styrene	MG/KG	-	-					
Tetrachloroethene	MG/KG	5.5	19	0.084				
Toluene	MG/KG	100	100					
Trichloroethene	MG/KG	10	21					
Xylene (total)	MG/KG	100	100					

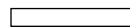
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Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Restricted Residential, plus CP-51 Table 1 10/21/10.

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Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-9
SUMMARY OF DETECTED VOCs IN ALL SOIL SAMPLES – RESIDENTIAL AND RESTRICTED
RESIDENTIAL CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID				SG-079	SG-080	SG-081	SG-082	SG-083
Sample ID				SG-79 (7-8")	SG-80 (7-8")	SG-81 (7-8")	SG-82 (7-8")	SG-83 (7-8")
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				7.0-8.0	7.0-8.0	7.0-8.0	7.0-8.0	7.0-8.0
Date Sampled				05/06/11	05/06/11	05/06/11	05/06/11	05/06/11
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
1,1,1-Trichloroethane	MG/KG	100	100					
1,1-Dichloroethane	MG/KG	19	26					
1,2-Dichloroethene (cis)	MG/KG	59	100					
Acetone	MG/KG	100	100	0.0076 J	0.0039 J	0.0025 J	0.0029 J	0.0035 J
Isopropylbenzene (Cumene)	MG/KG	100 CP-51	-					
Methylcyclohexane	MG/KG	-	-					
Methylene chloride	MG/KG	51	100					
Naphthalene	MG/KG	100	100					
Styrene	MG/KG	-	-					
Tetrachloroethene	MG/KG	5.5	19				0.0014 J	0.011
Toluene	MG/KG	100	100					0.0015 J
Trichloroethene	MG/KG	10	21					
Xylene (total)	MG/KG	100	100					

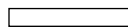
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Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Restricted Residential, plus CP-51 Table 1 10/21/10.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-9
SUMMARY OF DETECTED VOCs IN ALL SOIL SAMPLES – RESIDENTIAL AND RESTRICTED
RESIDENTIAL CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID				SG-084	SG-085	SG-086	SG-087	SG-088
Sample ID				SG-84 (7-8")	SG-85 (7-8")	SG-86 (7-8")	SG-87 (7-8")	SG-88 (7-7.5)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				7.0-8.0	7.0-8.0	7.0-8.0	7.0-8.0	7.0-7.5
Date Sampled				05/06/11	05/06/11	05/06/11	05/06/11	08/09/11
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
1,1,1-Trichloroethane	MG/KG	100	100					
1,1-Dichloroethane	MG/KG	19	26					
1,2-Dichloroethene (cis)	MG/KG	59	100					
Acetone	MG/KG	100	100	0.0035 J	0.0028 J	0.0029 J	0.0028 J	
Isopropylbenzene (Cumene)	MG/KG	100 CP-51	-					
Methylcyclohexane	MG/KG	-	-					
Methylene chloride	MG/KG	51	100					
Naphthalene	MG/KG	100	100					NA
Styrene	MG/KG	-	-					
Tetrachloroethene	MG/KG	5.5	19	0.014		0.0014 J		
Toluene	MG/KG	100	100					
Trichloroethene	MG/KG	10	21					
Xylene (total)	MG/KG	100	100					

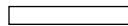
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Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Restricted Residential, plus CP-51 Table 1 10/21/10.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-9
SUMMARY OF DETECTED VOCs IN ALL SOIL SAMPLES – RESIDENTIAL AND RESTRICTED
RESIDENTIAL CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID				SG-092	SG-097	SG-112	SG-113	SG-114
Sample ID				SG-92 (3-4)	SG-97 (7-8)	SG-112 4.5-5	SG-113 7.5-8	SG-114 7.5-8.0
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.0-4.0	7.0-8.0	4.5-5.0	7.5-8.0	7.5-8.0
Date Sampled				08/09/11	08/11/11	03/02/12	03/02/12	03/01/12
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
1,1,1-Trichloroethane	MG/KG	100	100					
1,1-Dichloroethane	MG/KG	19	26					
1,2-Dichloroethene (cis)	MG/KG	59	100					
Acetone	MG/KG	100	100					
Isopropylbenzene (Cumene)	MG/KG	100 CP-51	-					
Methylcyclohexane	MG/KG	-	-					
Methylene chloride	MG/KG	51	100					0.0015 J
Naphthalene	MG/KG	100	100	NA	NA			
Styrene	MG/KG	-	-					
Tetrachloroethene	MG/KG	5.5	19	0.0011 J				0.0011 J
Toluene	MG/KG	100	100		0.00057 J			
Trichloroethene	MG/KG	10	21					0.0021 J
Xylene (total)	MG/KG	100	100		0.0017 J			

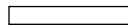
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Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Restricted Residential, plus CP-51 Table 1 10/21/10.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-9
SUMMARY OF DETECTED VOCs IN ALL SOIL SAMPLES – RESIDENTIAL AND RESTRICTED
RESIDENTIAL CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID				SG-115	SG-116	SG-117	SG-118	SG-119
Sample ID				SG-115 6.5-7.0	SG-116 4.0-4.5	SG-117 3.0-3.5	SG-118 6.5-7.0	SG-119 3.5-4
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				6.5-7.0	4.0-4.5	3.0-3.5	6.5-7.0	3.5-4.0
Date Sampled				03/01/12	03/01/12	03/01/12	03/01/12	03/01/12
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
1,1,1-Trichloroethane	MG/KG	100	100					
1,1-Dichloroethane	MG/KG	19	26					
1,2-Dichloroethene (cis)	MG/KG	59	100					
Acetone	MG/KG	100	100					
Isopropylbenzene (Cumene)	MG/KG	100 CP-51	-					
Methylcyclohexane	MG/KG	-	-					
Methylene chloride	MG/KG	51	100	0.0031 J				
Naphthalene	MG/KG	100	100					
Styrene	MG/KG	-	-					
Tetrachloroethene	MG/KG	5.5	19	0.011	0.0043 J	0.0028 J		
Toluene	MG/KG	100	100					
Trichloroethene	MG/KG	10	21					
Xylene (total)	MG/KG	100	100					

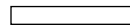
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Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Restricted Residential, plus CP-51 Table 1 10/21/10.

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Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-9
SUMMARY OF DETECTED VOCs IN ALL SOIL SAMPLES – RESIDENTIAL AND RESTRICTED
RESIDENTIAL CRITERIA
FORMER KLINK COSMO CLEANERS SITE

Location ID				SG-120	SG-121	SG-122
Sample ID				SG-120 2-2.5	SG-121 2-2.5	SG-122 2-2.5
Matrix				Soil	Soil	Soil
Depth Interval (ft)				2.0-2.5	2.0-2.5	2.0-2.5
Date Sampled				03/02/12	03/02/12	03/02/12
Parameter	Units	Criteria (1)	Criteria (2)			
Volatile Organic Compounds						
1,1,1-Trichloroethane	MG/KG	100	100			
1,1-Dichloroethane	MG/KG	19	26			
1,2-Dichloroethene (cis)	MG/KG	59	100			
Acetone	MG/KG	100	100			
Isopropylbenzene (Cumene)	MG/KG	100 CP-51	-			
Methylcyclohexane	MG/KG	-	-			
Methylene chloride	MG/KG	51	100		0.0063	
Naphthalene	MG/KG	100	100			
Styrene	MG/KG	-	-			
Tetrachloroethene	MG/KG	5.5	19			
Toluene	MG/KG	100	100			
Trichloroethene	MG/KG	10	21			
Xylene (total)	MG/KG	100	100			

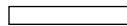
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Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Restricted Residential, plus CP-51 Table 1 10/21/10.

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Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value. CP-51 - The criteria was obtained from CP-51. All other criteria are from 6NYCRR Part 375.6.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-10
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN ALL SOIL SAMPLES IN THE KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Parameter	Units	No. of Samples	No. of Detections	Range of Detections			Location of Max Value	Depth Of Max
				Min	Max	Avg		
Volatile Organic Compounds								
1,1,1-Trichloroethane	MG/KG	78	1	0.036	0.036	0.036	SB-11	25-26
1,1-Dichloroethane	MG/KG	78	1	0.003	0.003	0.003	SB-11	25-26
1,2-Dichloroethene (cis)	MG/KG	78	1	0.003	0.003	0.003	SB-11	25-26
Acetone	MG/KG	78	33	0.002	0.120	0.018	DEC-004	35-36
Isopropylbenzene (Cumene)	MG/KG	78	1	0.420	0.420	0.420	DEC-048	24.5-25.5
Methylcyclohexane	MG/KG	78	1	0.520	0.520	0.520	DEC-048	24.5-25.5
Methylene chloride	MG/KG	78	19	0.002	0.072	0.015	SB-11	25-26
Naphthalene	MG/KG	36	1	0.014	0.014	0.014	DEC-065D	34-35
Styrene	MG/KG	78	1	0.007	0.007	0.007	DEC-030D	3.5-4.5
Tetrachloroethene	MG/KG	78	30	0.001	0.260	0.029	SB-18	15-16
Toluene	MG/KG	78	11	0.0006	0.200	0.021	DEC-048	24.5-25.5
Trichloroethene	MG/KG	78	3	0.002	0.004	0.003	SB-11	25-26
Xylene (total)	MG/KG	78	2	0.002	0.890	0.446	DEC-048	24.5-25.5
Semivolatile Organic Compounds								
1,1-Biphenyl	MG/KG	6	1	3.70	3.70	3.70	DEC-048	24.5-25.5
2-Methylnaphthalene	MG/KG	6	1	16.00	16.00	16.00	DEC-048	24.5-25.5
Acenaphthene	MG/KG	6	1	2.30	2.30	2.30	DEC-048	24.5-25.5
Anthracene	MG/KG	6	1	0.590	0.590	0.590	DEC-048	24.5-25.5
Benzo(a)anthracene	MG/KG	6	1	0.073	0.073	0.073	DEC-030D	3.5-4.5
Benzo(a)pyrene	MG/KG	6	1	0.092	0.092	0.092	DEC-030D	3.5-4.5

Only Detected Results Reported.

TABLE 4-10
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN ALL SOIL SAMPLES IN THE KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Parameter	Units	No. of Samples	No. of Detections	Range of Detections			Location of Max Value	Depth Of Max
				Min	Max	Avg		
Semivolatile Organic Compounds								
Benzo(b)fluoranthene	MG/KG	6	1	0.096	0.096	0.096	DEC-030D	3.5-4.5
Benzo(g,h,i)perylene	MG/KG	6	1	0.072	0.072	0.072	DEC-030D	3.5-4.5
Benzo(k)fluoranthene	MG/KG	6	1	0.056	0.056	0.056	DEC-030D	3.5-4.5
bis(2-Ethylhexyl)phthalate	MG/KG	6	4	0.073	0.260	0.125	DEC-065D	9-10
Chrysene	MG/KG	6	1	0.083	0.083	0.083	DEC-030D	3.5-4.5
Dibenz(a,h)anthracene	MG/KG	6	1	0.023	0.023	0.023	DEC-030D	3.5-4.5
Di-n-butylphthalate	MG/KG	6	1	0.130	0.130	0.130	DEC-030D	3.5-4.5
Fluoranthene	MG/KG	6	1	0.110	0.110	0.110	DEC-030D	3.5-4.5
Fluorene	MG/KG	6	1	2.90	2.90	2.90	DEC-048	24.5-25.5
Indeno(1,2,3-cd)pyrene	MG/KG	6	1	0.058	0.058	0.058	DEC-030D	3.5-4.5
Naphthalene	MG/KG	6	1	3.00	3.00	3.00	DEC-048	24.5-25.5
Phenanthrene	MG/KG	6	2	0.046	7.10	3.57	DEC-048	24.5-25.5
Pyrene	MG/KG	6	2	0.160	0.670	0.415	DEC-048	24.5-25.5
Pesticide Organic Compounds								
alpha-Chlordane	MG/KG	5	1	0.017	0.017	0.017	DEC-030D	3.5-4.5
Dieldrin	MG/KG	5	1	0.005	0.005	0.005	DEC-030D	3.5-4.5
gamma-Chlordane	MG/KG	5	1	0.014	0.014	0.014	DEC-030D	3.5-4.5
Metals								
Aluminum	MG/KG	5	5	2,270	1.01E+04	6,242	DEC-065D	14-15

Only Detected Results Reported.

TABLE 4-10
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN ALL SOIL SAMPLES IN THE KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Parameter	Units	No. of Samples	No. of Detections	Range of Detections			Location of Max Value	Depth Of Max
				Min	Max	Avg		
Metals								
Arsenic	MG/KG	5	3	0.530	2.50	1.24	DEC-030D	3.5-4.5
Barium	MG/KG	5	5	19.30	113.0	53.46	DEC-065D	14-15
Beryllium	MG/KG	5	5	0.150	1.10	0.558	DEC-065D	14-15
Cadmium	MG/KG	5	2	0.048	0.490	0.269	DEC-030D	3.5-4.5
Calcium	MG/KG	5	5	566.0	6,070	2,383	DEC-065D	14-15
Chromium	MG/KG	5	5	4.70	32.70	19.82	DEC-065D	14-15
Cobalt	MG/KG	5	5	2.90	15.40	7.54	DEC-065D	14-15
Copper	MG/KG	5	5	6.40	29.80	16.40	DEC-065D	14-15
Iron	MG/KG	5	5	4,730	5.49E+04	2.41E+04	DEC-065D	14-15
Lead	MG/KG	5	5	1.40	74.20	19.22	DEC-030D	3.5-4.5
Magnesium	MG/KG	5	5	1,220	3,180	2,162	DEC-065D	14-15
Manganese	MG/KG	5	5	235.0	1,290	543.4	DEC-065D	14-15
Mercury	MG/KG	5	4	0.003	0.320	0.084	DEC-030D	3.5-4.5
Nickel	MG/KG	5	5	5.60	22.20	12.28	DEC-065D	14-15
Potassium	MG/KG	5	5	43.60	2,080	950.7	DEC-065D	14-15
Selenium	MG/KG	5	1	0.490	0.490	0.490	DEC-030D	3.5-4.5
Sodium	MG/KG	5	5	9.00	360.0	120.5	DEC-065D	14-15
Thallium	MG/KG	5	3	2.50	3.40	2.87	DEC-065D	14-15
Vanadium	MG/KG	5	5	5.10	54.20	26.08	DEC-065D	14-15
Zinc	MG/KG	5	5	10.00	61.50	38.60	DEC-030D	3.5-4.5

Only Detected Results Reported.

TABLE 4-11
SUMMARY OF PROPERTIES AND DETECTED COMPOUNDS IN ALL NAPL SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-048
Sample ID		DEC-048
Matrix		LNAPL
Depth Interval (ft)		-
Date Sampled		06/24/11
Parameter	Units	
Volatile Organic Compounds		
1,2,4-Trimethylbenzene	MG/KG	420 J
Semivolatile Organic Compounds		
1,1-Biphenyl	MG/KG	740
2-Methylnaphthalene	MG/KG	3,500
Acenaphthene	MG/KG	200 J
bis(2-Ethylhexyl)phthalate	MG/KG	210 J
Fluorene	MG/KG	490 J
Naphthalene	MG/KG	610
Phenanthrene	MG/KG	1,200
Pyrene	MG/KG	130 J
Miscellaneous Parameters		
Fuel Oils	MG/KG	950,000
Specific Gravity	REL	0.8608

Flags assigned during chemistry validation are shown.

J - The reported concentration is an estimated value.

Only Detected Results Reported.

TABLE 4-12
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE I GROUNDWATER SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-004	DEC-006D	DEC-006DD	DEC-006DD	DEC-007
Sample ID			DEC-004	DEC-006D	DEC-006DD	DUP-062011	DEC-007
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/24/11	06/20/11	06/20/11	06/20/11	06/21/11
Parameter	Units	Criteria*				Field Duplicate (1-1)	
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-					
1,1,1-Trichloroethane	UG/L	5			13	13	
1,1-Dichloroethane	UG/L	5			5.4	5.0	2.8 J
1,1-Dichloroethene	UG/L	5			69 J	72 J	
1,2,3-Trichlorobenzene	UG/L	-					
1,2,3-Trichloropropane	UG/L	-					
1,2,4-Trichlorobenzene	UG/L	5					
1,2,4-Trimethylbenzene	UG/L	-					
1,2-Dichloroethane	UG/L	0.6				1.3 J	
1,2-Dichloroethene (cis)	UG/L	5	4.8 J	26	16	16	7.9
1,2-Dichloroethene (trans)	UG/L	5					
1,4-Dichlorobenzene	UG/L	3					
Acetone	UG/L	50					
Carbon tetrachloride	UG/L	5					
Chloroform	UG/L	7		4.6 J			2.7 J
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Methyl tert-butyl ether	UG/L	10			2.6 J	2.6 J	
Naphthalene	UG/L	-					
sec-Butylbenzene	UG/L	-					
Tetrachloroethene	UG/L	5	1.5 J	6,600 D	410 D	420 D	1,200 D
Trichloroethene	UG/L	5	37	39	210 D	210 D	25
Trichlorofluoromethane	UG/L	5					
Vinyl chloride	UG/L	2	1.0 J				

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

Flags assigned during chemistry validation are shown.

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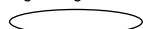
Only Detected Results Reported.

TABLE 4-12
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE I GROUNDWATER SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-004	DEC-006D	DEC-006DD	DEC-006DD	DEC-007
Sample ID			DEC-004	DEC-006D	DEC-006DD	DUP-062011	DEC-007
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/24/11	06/20/11	06/20/11	06/20/11	06/21/11
Parameter	Units	Criteria*				Field Duplicate (1-1)	
Semivolatile Organic Compounds							
1,1-Biphenyl	UG/L	-	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	-	NA	NA	NA	NA	NA
Carbazole	UG/L	50	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	50	NA	NA	NA	NA	NA
Naphthalene	UG/L	10	NA	NA	NA	NA	NA
Pesticide Organic Compounds							
gamma-BHC (Lindane)	UG/L	-	NA	NA	NA	NA	NA
Metals							
Aluminum	UG/L	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	NA	NA	NA	NA	NA
Calcium	UG/L	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	NA	NA	NA	NA	NA
Cobalt	UG/L	-	NA	NA	NA	NA	NA
Iron	UG/L	300	NA	NA	NA	NA	NA
Magnesium	UG/L	35000	NA	NA	NA	NA	NA
Manganese	UG/L	300	NA	NA	NA	NA	NA
Nickel	UG/L	100	NA	NA	NA	NA	NA
Potassium	UG/L	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	NA	NA	NA	NA	NA
Vanadium	UG/L	-	NA	NA	NA	NA	NA
Zinc	UG/L	2000	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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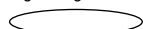
Only Detected Results Reported.

TABLE 4-12
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE I GROUNDWATER SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-007D	DEC-008	DEC-009	DEC-010	DEC-011
Sample ID			DEC-007D	DEC-008	DEC-009	DEC-010	DEC-011
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/21/11	06/23/11	06/23/11	06/21/11	06/21/11
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-					
1,1,1-Trichloroethane	UG/L	5	1.5 J	1.8 J			
1,1-Dichloroethane	UG/L	5	1.2 J	3.4 J	6.5	28	
1,1-Dichloroethene	UG/L	5	4.4 J	2.0 J	5.1	25	
1,2,3-Trichlorobenzene	UG/L	-					
1,2,3-Trichloropropane	UG/L	-					
1,2,4-Trichlorobenzene	UG/L	5					
1,2,4-Trimethylbenzene	UG/L	-					
1,2-Dichloroethane	UG/L	0.6					
1,2-Dichloroethene (cis)	UG/L	5	4.8 J	41 J	51	8.5	
1,2-Dichloroethene (trans)	UG/L	5		3.5 J			
1,4-Dichlorobenzene	UG/L	3					
Acetone	UG/L	50					
Carbon tetrachloride	UG/L	5					
Chloroform	UG/L	7		1.6 J			
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Methyl tert-butyl ether	UG/L	10		1.1 J	1.1 J		
Naphthalene	UG/L	-					
sec-Butylbenzene	UG/L	-			3.0 J		
Tetrachloroethene	UG/L	5	340 D	1,300 D	180	20	13 J
Trichloroethene	UG/L	5	26	120	70	87	17 J
Trichlorofluoromethane	UG/L	5		1.4 J			
Vinyl chloride	UG/L	2		19	54		

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

Flags assigned during chemistry validation are shown.



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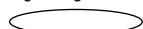
Only Detected Results Reported.

TABLE 4-12
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE I GROUNDWATER SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-007D	DEC-008	DEC-009	DEC-010	DEC-011
Sample ID			DEC-007D	DEC-008	DEC-009	DEC-010	DEC-011
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/21/11	06/23/11	06/23/11	06/21/11	06/21/11
Parameter	Units	Criteria*					
Semivolatile Organic Compounds							
1,1-Biphenyl	UG/L	-	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	-	NA	NA	NA	NA	NA
Carbazole	UG/L	50	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	50	NA	NA	NA	NA	NA
Naphthalene	UG/L	10	NA	NA	NA	NA	NA
Pesticide Organic Compounds							
gamma-BHC (Lindane)	UG/L	-	NA	NA	NA	NA	NA
Metals							
Aluminum	UG/L	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	NA	NA	NA	NA	NA
Calcium	UG/L	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	NA	NA	NA	NA	NA
Cobalt	UG/L	-	NA	NA	NA	NA	NA
Iron	UG/L	300	NA	NA	NA	NA	NA
Magnesium	UG/L	35000	NA	NA	NA	NA	NA
Manganese	UG/L	300	NA	NA	NA	NA	NA
Nickel	UG/L	100	NA	NA	NA	NA	NA
Potassium	UG/L	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	NA	NA	NA	NA	NA
Vanadium	UG/L	-	NA	NA	NA	NA	NA
Zinc	UG/L	2000	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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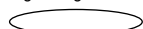
Only Detected Results Reported.

TABLE 4-12
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE I GROUNDWATER SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-012	DEC-013	DEC-013	DEC-013D	DEC-014D
Sample ID			DEC-012	DEC-013	DUP-062311	DEC-013D	DEC-014D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/22/11	06/23/11	06/23/11	06/23/11	06/23/11
Parameter	Units	Criteria*			Field Duplicate (1-1)		
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-					
1,1,1-Trichloroethane	UG/L	5					
1,1-Dichloroethane	UG/L	5		2.3 J			
1,1-Dichloroethene	UG/L	5					
1,2,3-Trichlorobenzene	UG/L	-					
1,2,3-Trichloropropane	UG/L	-		2.3 J			
1,2,4-Trichlorobenzene	UG/L	5					
1,2,4-Trimethylbenzene	UG/L	-					
1,2-Dichloroethane	UG/L	0.6					
1,2-Dichloroethene (cis)	UG/L	5		13 J	2.5 J	2.1 J	1.6 J
1,2-Dichloroethene (trans)	UG/L	5					
1,4-Dichlorobenzene	UG/L	3					
Acetone	UG/L	50					
Carbon tetrachloride	UG/L	5					
Chloroform	UG/L	7			4.8 J	4.8 J	
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Methyl tert-butyl ether	UG/L	10		2.3 J			3.8 J
Naphthalene	UG/L	-					
sec-Butylbenzene	UG/L	-		1.9 J			
Tetrachloroethene	UG/L	5	270 D	2,100 D	200 D	190	26
Trichloroethene	UG/L	5	3.9 J	36	27	24	3.6 J
Trichlorofluoromethane	UG/L	5					
Vinyl chloride	UG/L	2					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

Flags assigned during chemistry validation are shown.



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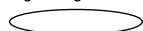
Only Detected Results Reported.

TABLE 4-12
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE I GROUNDWATER SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-012	DEC-013	DEC-013	DEC-013D	DEC-014D
Sample ID			DEC-012	DEC-013	DUP-062311	DEC-013D	DEC-014D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/22/11	06/23/11	06/23/11	06/23/11	06/23/11
Parameter	Units	Criteria*			Field Duplicate (1-1)		
Semivolatile Organic Compounds							
1,1-Biphenyl	UG/L	-	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	-	NA	NA	NA	NA	NA
Carbazole	UG/L	50	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	50	NA	NA	NA	NA	NA
Naphthalene	UG/L	10	NA	NA	NA	NA	NA
Pesticide Organic Compounds							
gamma-BHC (Lindane)	UG/L	-	NA	NA	NA	NA	NA
Metals							
Aluminum	UG/L	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	NA	NA	NA	NA	NA
Calcium	UG/L	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	NA	NA	NA	NA	NA
Cobalt	UG/L	-	NA	NA	NA	NA	NA
Iron	UG/L	300	NA	NA	NA	NA	NA
Magnesium	UG/L	35000	NA	NA	NA	NA	NA
Manganese	UG/L	300	NA	NA	NA	NA	NA
Nickel	UG/L	100	NA	NA	NA	NA	NA
Potassium	UG/L	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	NA	NA	NA	NA	NA
Vanadium	UG/L	-	NA	NA	NA	NA	NA
Zinc	UG/L	2000	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria

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Only Detected Results Reported.

TABLE 4-12
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE I GROUNDWATER SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-014R	DEC-015	DEC-015D	DEC-022D	DEC-027
Sample ID			DEC-014R	DEC-015	DEC-015D	DEC-022D	DEC-027
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/23/11	06/22/11	06/22/11	06/22/11	06/24/11
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-	9.5				
1,1,1-Trichloroethane	UG/L	5		2.0 J	2.2 J	2.6 J	
1,1-Dichloroethane	UG/L	5		6.9	2.8 J	5.6	
1,1-Dichloroethene	UG/L	5	1.6 J		7.2	1.8 J	
1,2,3-Trichlorobenzene	UG/L	-					
1,2,3-Trichloropropane	UG/L	-					
1,2,4-Trichlorobenzene	UG/L	5					
1,2,4-Trimethylbenzene	UG/L	-					
1,2-Dichloroethane	UG/L	0.6					
1,2-Dichloroethene (cis)	UG/L	5	39 J	8.8	9.5	42 J	48
1,2-Dichloroethene (trans)	UG/L	5					3.9 J
1,4-Dichlorobenzene	UG/L	3	4.3 J				
Acetone	UG/L	50					
Carbon tetrachloride	UG/L	5	1.0 J				
Chloroform	UG/L	7	6.2	9.2		3.5 J	
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Methyl tert-butyl ether	UG/L	10			1.7 J	1.3 J	
Naphthalene	UG/L	-					
sec-Butylbenzene	UG/L	-					
Tetrachloroethene	UG/L	5	44,000 D	140	640 D	1,300 D	34
Trichloroethene	UG/L	5	300 J	13	42	94	750 D
Trichlorofluoromethane	UG/L	5				2.0 J	2.1 J
Vinyl chloride	UG/L	2					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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 Concentration Exceeds Criteria

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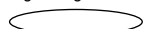
Only Detected Results Reported.

TABLE 4-12
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE I GROUNDWATER SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-014R	DEC-015	DEC-015D	DEC-022D	DEC-027
Sample ID			DEC-014R	DEC-015	DEC-015D	DEC-022D	DEC-027
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/23/11	06/22/11	06/22/11	06/22/11	06/24/11
Parameter	Units	Criteria*					
Semivolatile Organic Compounds							
1,1-Biphenyl	UG/L	-	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	-	NA	NA	NA	NA	NA
Carbazole	UG/L	50	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	50	NA	NA	NA	NA	NA
Naphthalene	UG/L	10	NA	NA	NA	NA	NA
Pesticide Organic Compounds							
gamma-BHC (Lindane)	UG/L	-	NA	NA	NA	NA	NA
Metals							
Aluminum	UG/L	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	NA	NA	NA	NA	NA
Calcium	UG/L	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	NA	NA	NA	NA	NA
Cobalt	UG/L	-	NA	NA	NA	NA	NA
Iron	UG/L	300	NA	NA	NA	NA	NA
Magnesium	UG/L	35000	NA	NA	NA	NA	NA
Manganese	UG/L	300	NA	NA	NA	NA	NA
Nickel	UG/L	100	NA	NA	NA	NA	NA
Potassium	UG/L	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	NA	NA	NA	NA	NA
Vanadium	UG/L	-	NA	NA	NA	NA	NA
Zinc	UG/L	2000	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-12
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE I GROUNDWATER SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-028	DEC-029	DEC-029D	DEC-030	DEC-030D
Sample ID			DEC-028	DEC-029	DEC-029D	DEC-030	DEC-030D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/21/11	06/23/11	06/23/11	06/20/11	06/20/11
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-					
1,1,1-Trichloroethane	UG/L	5					4.2 J
1,1-Dichloroethane	UG/L	5	3.0 J				1.9 J
1,1-Dichloroethene	UG/L	5	1.5 J				47 J
1,2,3-Trichlorobenzene	UG/L	-					
1,2,3-Trichloropropane	UG/L	-					
1,2,4-Trichlorobenzene	UG/L	5					
1,2,4-Trimethylbenzene	UG/L	-					
1,2-Dichloroethane	UG/L	0.6			7.8		
1,2-Dichloroethene (cis)	UG/L	5	52	8.2 J		25	4.7 J
1,2-Dichloroethene (trans)	UG/L	5	1.9 J				
1,4-Dichlorobenzene	UG/L	3		1.1 J			
Acetone	UG/L	50					
Carbon tetrachloride	UG/L	5					
Chloroform	UG/L	7		1.0 J			
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Methyl tert-butyl ether	UG/L	10					
Naphthalene	UG/L	-					
sec-Butylbenzene	UG/L	-	3.4 J				
Tetrachloroethene	UG/L	5	2,300 D	5,700 D	20	2,000 D	43
Trichloroethene	UG/L	5	220 D	7.4	3.4 J	27	170
Trichlorofluoromethane	UG/L	5					
Vinyl chloride	UG/L	2					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-12
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE I GROUNDWATER SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-028	DEC-029	DEC-029D	DEC-030	DEC-030D
Sample ID			DEC-028	DEC-029	DEC-029D	DEC-030	DEC-030D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/21/11	06/23/11	06/23/11	06/20/11	06/20/11
Parameter	Units	Criteria*					
Semivolatile Organic Compounds							
1,1-Biphenyl	UG/L	-	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	-	NA	NA	NA	NA	NA
Carbazole	UG/L	50	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	50	NA	NA	NA	NA	NA
Naphthalene	UG/L	10	NA	NA	NA	NA	NA
Pesticide Organic Compounds							
gamma-BHC (Lindane)	UG/L	-	NA	NA	NA	NA	NA
Metals							
Aluminum	UG/L	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	NA	NA	NA	NA	NA
Calcium	UG/L	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	NA	NA	NA	NA	NA
Cobalt	UG/L	-	NA	NA	NA	NA	NA
Iron	UG/L	300	NA	NA	NA	NA	NA
Magnesium	UG/L	35000	NA	NA	NA	NA	NA
Manganese	UG/L	300	NA	NA	NA	NA	NA
Nickel	UG/L	100	NA	NA	NA	NA	NA
Potassium	UG/L	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	NA	NA	NA	NA	NA
Vanadium	UG/L	-	NA	NA	NA	NA	NA
Zinc	UG/L	2000	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-12
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE I GROUNDWATER SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-031	DEC-031D	DEC-032	DEC-033	DEC-039
Sample ID			DEC-031	DEC-031D	DEC-032	DEC-033	DEC-039
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/21/11	06/21/11	06/22/11	06/21/11	06/24/11
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-	2.1 J				
1,1,1-Trichloroethane	UG/L	5					3.6 J
1,1-Dichloroethane	UG/L	5	1.1 J				2.6 J
1,1-Dichloroethene	UG/L	5					
1,2,3-Trichlorobenzene	UG/L	-					
1,2,3-Trichloropropane	UG/L	-					
1,2,4-Trichlorobenzene	UG/L	5					
1,2,4-Trimethylbenzene	UG/L	-					
1,2-Dichloroethane	UG/L	0.6		86			
1,2-Dichloroethene (cis)	UG/L	5	17				23
1,2-Dichloroethene (trans)	UG/L	5					
1,4-Dichlorobenzene	UG/L	3	1.3 J				
Acetone	UG/L	50					
Carbon tetrachloride	UG/L	5					
Chloroform	UG/L	7	2.1 J				
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Methyl tert-butyl ether	UG/L	10					
Naphthalene	UG/L	-					
sec-Butylbenzene	UG/L	-					
Tetrachloroethene	UG/L	5	6,100 D	16	3.0 J		58
Trichloroethene	UG/L	5	23	1.2 J	1.3 J		230 D
Trichlorofluoromethane	UG/L	5					24
Vinyl chloride	UG/L	2					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-12
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE I GROUNDWATER SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-031	DEC-031D	DEC-032	DEC-033	DEC-039
Sample ID			DEC-031	DEC-031D	DEC-032	DEC-033	DEC-039
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/21/11	06/21/11	06/22/11	06/21/11	06/24/11
Parameter	Units	Criteria*					
Semivolatile Organic Compounds							
1,1-Biphenyl	UG/L	-			NA	NA	NA
2-Methylnaphthalene	UG/L	-			NA	NA	NA
Carbazole	UG/L	50			NA	NA	NA
Di-n-butylphthalate	UG/L	50	0.56 J	0.72 J	NA	NA	NA
Naphthalene	UG/L	10			NA	NA	NA
Pesticide Organic Compounds							
gamma-BHC (Lindane)	UG/L	-	0.051 J		NA	NA	NA
Metals							
Aluminum	UG/L	-	154 B	464	NA	NA	NA
Barium	UG/L	1000	48.5 B	36.8 B	NA	NA	NA
Calcium	UG/L	-	61,200	111,000	NA	NA	NA
Chromium	UG/L	50		2.0 B	NA	NA	NA
Cobalt	UG/L	-	1.8 B	6.1 B	NA	NA	NA
Iron	UG/L	300	314	1,530	NA	NA	NA
Magnesium	UG/L	35000	21,400	58,400	NA	NA	NA
Manganese	UG/L	300	249	2,300	NA	NA	NA
Nickel	UG/L	100	10.8 B	4.2 B	NA	NA	NA
Potassium	UG/L	-	2,350	7,020	NA	NA	NA
Sodium	UG/L	20000	71,000	102,000	NA	NA	NA
Vanadium	UG/L	-		2.2 B	NA	NA	NA
Zinc	UG/L	2000		11.0 B	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-12
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE I GROUNDWATER SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-039	DEC-042	DEC-043	DEC-043D	DEC-044
Sample ID			DUP-062411	DEC-042	DEC-043	DEC-043D	DEC-044
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/24/11	06/23/11	06/22/11	06/22/11	06/23/11
Parameter	Units	Criteria*	Field Duplicate (1-1)				
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-					
1,1,1-Trichloroethane	UG/L	5		2.9 J			
1,1-Dichloroethane	UG/L	5	2.8 J	1.1 J			
1,1-Dichloroethene	UG/L	5					
1,2,3-Trichlorobenzene	UG/L	-					
1,2,3-Trichloropropane	UG/L	-					
1,2,4-Trichlorobenzene	UG/L	5					
1,2,4-Trimethylbenzene	UG/L	-					
1,2-Dichloroethane	UG/L	0.6				9.4	
1,2-Dichloroethene (cis)	UG/L	5	24	6.3 J			2.0 J
1,2-Dichloroethene (trans)	UG/L	5					
1,4-Dichlorobenzene	UG/L	3					
Acetone	UG/L	50					
Carbon tetrachloride	UG/L	5					
Chloroform	UG/L	7		1.4 J			
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Methyl tert-butyl ether	UG/L	10					
Naphthalene	UG/L	-					
sec-Butylbenzene	UG/L	-					
Tetrachloroethene	UG/L	5	59	62	12	9.0	1,500 D
Trichloroethene	UG/L	5	240 D	73		1.2 J	8.6
Trichlorofluoromethane	UG/L	5	26	23			
Vinyl chloride	UG/L	2					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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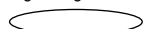
Only Detected Results Reported.

TABLE 4-12
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE I GROUNDWATER SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-039	DEC-042	DEC-043	DEC-043D	DEC-044
Sample ID			DUP-062411	DEC-042	DEC-043	DEC-043D	DEC-044
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/24/11	06/23/11	06/22/11	06/22/11	06/23/11
Parameter	Units	Criteria*	Field Duplicate (1-1)				
Semivolatile Organic Compounds							
1,1-Biphenyl	UG/L	-	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	-	NA	NA	NA	NA	NA
Carbazole	UG/L	50	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	50	NA	NA	NA	NA	NA
Naphthalene	UG/L	10	NA	NA	NA	NA	NA
Pesticide Organic Compounds							
gamma-BHC (Lindane)	UG/L	-	NA	NA	NA	NA	NA
Metals							
Aluminum	UG/L	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	NA	NA	NA	NA	NA
Calcium	UG/L	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	NA	NA	NA	NA	NA
Cobalt	UG/L	-	NA	NA	NA	NA	NA
Iron	UG/L	300	NA	NA	NA	NA	NA
Magnesium	UG/L	35000	NA	NA	NA	NA	NA
Manganese	UG/L	300	NA	NA	NA	NA	NA
Nickel	UG/L	100	NA	NA	NA	NA	NA
Potassium	UG/L	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	NA	NA	NA	NA	NA
Vanadium	UG/L	-	NA	NA	NA	NA	NA
Zinc	UG/L	2000	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-12
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE I GROUNDWATER SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-044D	DEC-045	DEC-045D	DEC-046	DEC-047
Sample ID			DEC-044D	DEC-045	DEC-045D	DEC-046	DEC-047
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/23/11	06/21/11	06/21/11	06/21/11	06/21/11
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-					
1,1,1-Trichloroethane	UG/L	5					
1,1-Dichloroethane	UG/L	5					
1,1-Dichloroethene	UG/L	5	1.3 J				
1,2,3-Trichlorobenzene	UG/L	-					
1,2,3-Trichloropropane	UG/L	-					
1,2,4-Trichlorobenzene	UG/L	5					
1,2,4-Trimethylbenzene	UG/L	-					
1,2-Dichloroethane	UG/L	0.6	500 D		81		
1,2-Dichloroethene (cis)	UG/L	5					
1,2-Dichloroethene (trans)	UG/L	5					
1,4-Dichlorobenzene	UG/L	3					
Acetone	UG/L	50					
Carbon tetrachloride	UG/L	5					
Chloroform	UG/L	7	6.5			1.1 J	1.4 J
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Methyl tert-butyl ether	UG/L	10					19
Naphthalene	UG/L	-				5.7 J	
sec-Butylbenzene	UG/L	-					
Tetrachloroethene	UG/L	5	1.5 J	43		7.4	2.9 J
Trichloroethene	UG/L	5				1.5 J	
Trichlorofluoromethane	UG/L	5					
Vinyl chloride	UG/L	2					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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 Concentration Exceeds Criteria

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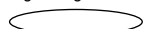
Only Detected Results Reported.

TABLE 4-12
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE I GROUNDWATER SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-044D	DEC-045	DEC-045D	DEC-046	DEC-047
Sample ID			DEC-044D	DEC-045	DEC-045D	DEC-046	DEC-047
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/23/11	06/21/11	06/21/11	06/21/11	06/21/11
Parameter	Units	Criteria*					
Semivolatile Organic Compounds							
1,1-Biphenyl	UG/L	-	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	-	NA	NA	NA	NA	NA
Carbazole	UG/L	50	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	50	NA	NA	NA	NA	NA
Naphthalene	UG/L	10	NA	NA	NA	NA	NA
Pesticide Organic Compounds							
gamma-BHC (Lindane)	UG/L	-	NA	NA	NA	NA	NA
Metals							
Aluminum	UG/L	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	NA	NA	NA	NA	NA
Calcium	UG/L	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	NA	NA	NA	NA	NA
Cobalt	UG/L	-	NA	NA	NA	NA	NA
Iron	UG/L	300	NA	NA	NA	NA	NA
Magnesium	UG/L	35000	NA	NA	NA	NA	NA
Manganese	UG/L	300	NA	NA	NA	NA	NA
Nickel	UG/L	100	NA	NA	NA	NA	NA
Potassium	UG/L	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	NA	NA	NA	NA	NA
Vanadium	UG/L	-	NA	NA	NA	NA	NA
Zinc	UG/L	2000	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria

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Only Detected Results Reported.

TABLE 4-12
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE I GROUNDWATER SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-048	DEC-048	DEC-064	DEC-064D	DEC-065
Sample ID			DEC-048	DUP2-062411	DEC-064	DEC-064D	DEC-065
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/24/11	06/24/11	06/20/11	06/20/11	06/22/11
Parameter	Units	Criteria*		Field Duplicate (1-1)			
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-					
1,1,1-Trichloroethane	UG/L	5				1.8 J	
1,1-Dichloroethane	UG/L	5				1.3 J	
1,1-Dichloroethene	UG/L	5				11	
1,2,3-Trichlorobenzene	UG/L	-				2.1 J	
1,2,3-Trichloropropane	UG/L	-					
1,2,4-Trichlorobenzene	UG/L	5				5.5	
1,2,4-Trimethylbenzene	UG/L	-	1.5 J	1.7 J			
1,2-Dichloroethane	UG/L	0.6				2.6 J	
1,2-Dichloroethene (cis)	UG/L	5			2.3 J	2.0 J	
1,2-Dichloroethene (trans)	UG/L	5					
1,4-Dichlorobenzene	UG/L	3					
Acetone	UG/L	50	3.1 J	7.5 J			
Carbon tetrachloride	UG/L	5					
Chloroform	UG/L	7			3.3 J	2.3 J	12
Methyl ethyl ketone (2-Butanone)	UG/L	50	13 J	18 J			
Methyl tert-butyl ether	UG/L	10				1.7 J	
Naphthalene	UG/L	-	2.2 J	2.4 J			
sec-Butylbenzene	UG/L	-					
Tetrachloroethene	UG/L	5	3.2 J	3.6 J	220 D	14	160
Trichloroethene	UG/L	5	2.6 J	1.4 J	6.8 J	160	3.6 J
Trichlorofluoromethane	UG/L	5					
Vinyl chloride	UG/L	2					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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 Concentration Exceeds Criteria

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Only Detected Results Reported.

TABLE 4-12
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE I GROUNDWATER SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-048	DEC-048	DEC-064	DEC-064D	DEC-065
Sample ID			DEC-048	DUP2-062411	DEC-064	DEC-064D	DEC-065
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/24/11	06/24/11	06/20/11	06/20/11	06/22/11
Parameter	Units	Criteria*		Field Duplicate (1-1)			
Semivolatile Organic Compounds							
1,1-Biphenyl	UG/L	-		0.68 J	NA	NA	NA
2-Methylnaphthalene	UG/L	-		1.4 J	NA	NA	NA
Carbazole	UG/L	50		0.72 J	NA	NA	NA
Di-n-butylphthalate	UG/L	50			NA	NA	NA
Naphthalene	UG/L	10		1.2 J	NA	NA	NA
Pesticide Organic Compounds							
gamma-BHC (Lindane)	UG/L	-			NA	NA	NA
Metals							
Aluminum	UG/L	-			NA	NA	NA
Barium	UG/L	1000	95.0 B	95.4 B	NA	NA	NA
Calcium	UG/L	-	66,300	65,900	NA	NA	NA
Chromium	UG/L	50	0.79 B		NA	NA	NA
Cobalt	UG/L	-	1.1 B	1.1 B	NA	NA	NA
Iron	UG/L	300	1,010 J	1,990 J	NA	NA	NA
Magnesium	UG/L	35000	28,400	28,100	NA	NA	NA
Manganese	UG/L	300	738	702	NA	NA	NA
Nickel	UG/L	100	6.6 B	6.0 B	NA	NA	NA
Potassium	UG/L	-	2,890	2,850	NA	NA	NA
Sodium	UG/L	20000	76,000	75,500	NA	NA	NA
Vanadium	UG/L	-			NA	NA	NA
Zinc	UG/L	2000			NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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 Concentration Exceeds Criteria

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Only Detected Results Reported.

TABLE 4-12
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE I GROUNDWATER SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-065	DEC-065D	DEC-066	DEC-066D
Sample ID			DUP-062211	DEC-065D	DEC-066	DEC-066D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-
Date Sampled			06/22/11	06/22/11	06/22/11	06/22/11
Parameter	Units	Criteria*	Field Duplicate (1-1)			
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	UG/L	-				
1,1,1-Trichloroethane	UG/L	5		22		
1,1-Dichloroethane	UG/L	5		6.8		
1,1-Dichloroethene	UG/L	5		120		
1,2,3-Trichlorobenzene	UG/L	-				
1,2,3-Trichloropropane	UG/L	-				
1,2,4-Trichlorobenzene	UG/L	5				
1,2,4-Trimethylbenzene	UG/L	-				
1,2-Dichloroethane	UG/L	0.6				23
1,2-Dichloroethene (cis)	UG/L	5		11	4.1 J	
1,2-Dichloroethene (trans)	UG/L	5				
1,4-Dichlorobenzene	UG/L	3				
Acetone	UG/L	50				2.7 J
Carbon tetrachloride	UG/L	5				
Chloroform	UG/L	7	14	2.8 J		
Methyl ethyl ketone (2-Butanone)	UG/L	50				
Methyl tert-butyl ether	UG/L	10				
Naphthalene	UG/L	-				
sec-Butylbenzene	UG/L	-				
Tetrachloroethene	UG/L	5	170	83	8.4	1.7 J
Trichloroethene	UG/L	5	2.3 J	670 D	2.1 J	
Trichlorofluoromethane	UG/L	5		1.3 J		
Vinyl chloride	UG/L	2				

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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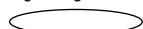
Only Detected Results Reported.

TABLE 4-12
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE I GROUNDWATER SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-065	DEC-065D	DEC-066	DEC-066D
Sample ID			DUP-062211	DEC-065D	DEC-066	DEC-066D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-
Date Sampled			06/22/11	06/22/11	06/22/11	06/22/11
Parameter	Units	Criteria*	Field Duplicate (1-1)			
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	-	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	-	NA	NA	NA	NA
Carbazole	UG/L	50	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	50	NA	NA	NA	NA
Naphthalene	UG/L	10	NA	NA	NA	NA
Pesticide Organic Compounds						
gamma-BHC (Lindane)	UG/L	-	NA	NA	NA	NA
Metals						
Aluminum	UG/L	-	NA	NA	NA	NA
Barium	UG/L	1000	NA	NA	NA	NA
Calcium	UG/L	-	NA	NA	NA	NA
Chromium	UG/L	50	NA	NA	NA	NA
Cobalt	UG/L	-	NA	NA	NA	NA
Iron	UG/L	300	NA	NA	NA	NA
Magnesium	UG/L	35000	NA	NA	NA	NA
Manganese	UG/L	300	NA	NA	NA	NA
Nickel	UG/L	100	NA	NA	NA	NA
Potassium	UG/L	-	NA	NA	NA	NA
Sodium	UG/L	20000	NA	NA	NA	NA
Vanadium	UG/L	-	NA	NA	NA	NA
Zinc	UG/L	2000	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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- = No standard, criteria or guidance value. Blank cell or ND - Not Detected. NA - Not analyzed.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

B (metals only) - The reported concentration is above the method detection limit but below the quantitation limit.

Only Detected Results Reported.

TABLE 4-13
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN RI PHASE I GROUNDWATER SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value
					Min	Max	Avg		
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	UG/L	-	49	2	2.10	9.50	5.80	0	DEC-014R
1,1,1-Trichloroethane	UG/L	5	49	12	1.50	22.00	5.88	3	DEC-065D
1,1-Dichloroethane	UG/L	5	49	19	1.10	28.00	4.76	7	DEC-010
1,1-Dichloroethene	UG/L	5	49	14	1.30	120.0	26.35	8	DEC-065D
1,2,3-Trichlorobenzene	UG/L	-	49	1	2.10	2.10	2.10	0	DEC-064D
1,2,3-Trichloropropane	UG/L	-	49	1	2.30	2.30	2.30	0	DEC-013
1,2,4-Trichlorobenzene	UG/L	5	49	1	5.50	5.50	5.50	1	DEC-064D
1,2,4-Trimethylbenzene	UG/L	-	49	2	1.50	1.70	1.60	0	DEC-048
1,2-Dichloroethane	UG/L	0.6	49	8	1.30	500.0	88.89	8	DEC-044D
1,2-Dichloroethene (cis)	UG/L	5	49	31	1.60	52.00	16.91	21	DEC-028
1,2-Dichloroethene (trans)	UG/L	5	49	3	1.90	3.90	3.10	0	DEC-027
1,4-Dichlorobenzene	UG/L	3	49	3	1.10	4.30	2.23	1	DEC-014R
Acetone	UG/L	50	49	3	2.70	7.50	4.43	0	DEC-048
Carbon tetrachloride	UG/L	5	49	1	1.00	1.00	1.00	0	DEC-014R
Chloroform	UG/L	7	49	19	1.00	14.00	4.49	3	DEC-065
Methyl ethyl ketone (2-Butanone)	UG/L	50	49	2	13.00	18.00	15.50	0	DEC-048
Methyl tert-butyl ether	UG/L	10	49	10	1.10	19.00	3.72	1	DEC-047

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.



Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-13
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN RI PHASE I GROUNDWATER SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value
					Min	Max	Avg		
Volatile Organic Compounds									
Naphthalene	UG/L	-	49	3	2.20	5.70	3.43	0	DEC-046
sec-Butylbenzene	UG/L	-	49	3	1.90	3.40	2.77	0	DEC-028
Tetrachloroethene	UG/L	5	49	47	1.50	4.40E+04	1,659	40	DEC-014R
Trichloroethene	UG/L	5	49	42	1.20	750.0	95.02	30	DEC-027
Trichlorofluoromethane	UG/L	5	49	7	1.30	26.00	11.40	3	DEC-039
Vinyl chloride	UG/L	2	49	3	1.00	54.00	24.67	2	DEC-009
Semivolatile Organic Compounds									
1,1-Biphenyl	UG/L	-	4	1	0.680	0.680	0.680	0	DEC-048
2-Methylnaphthalene	UG/L	-	4	1	1.40	1.40	1.40	0	DEC-048
Carbazole	UG/L	50	4	1	0.720	0.720	0.720	0	DEC-048
Di-n-butylphthalate	UG/L	50	4	2	0.560	0.720	0.640	0	DEC-031D
Naphthalene	UG/L	10	4	1	1.20	1.20	1.20	0	DEC-048
Pesticide Organic Compounds									
gamma-BHC (Lindane)	UG/L	-	4	1	0.051	0.051	0.051	0	DEC-031
Metals									
Aluminum	UG/L	-	4	2	154.0	464.0	309.0	0	DEC-031D
Barium	UG/L	1000	4	4	36.80	95.40	68.93	0	DEC-048

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.



Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-13
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN RI PHASE I GROUNDWATER SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value
					Min	Max	Avg		
Metals									
Calcium	UG/L	-	4	4	6.12E+04	1.11E+05	7.61E+04	0	DEC-031D
Chromium	UG/L	50	4	2	0.790	2.00	1.40	0	DEC-031D
Cobalt	UG/L	-	4	4	1.10	6.10	2.53	0	DEC-031D
Iron	UG/L	300	4	4	314.0	1,990	1,211	4	DEC-048
Magnesium	UG/L	35000	4	4	2.14E+04	5.84E+04	3.41E+04	1	DEC-031D
Manganese	UG/L	300	4	4	249.0	2,300	997.3	3	DEC-031D
Nickel	UG/L	100	4	4	4.20	10.80	6.90	0	DEC-031
Potassium	UG/L	-	4	4	2,350	7,020	3,778	0	DEC-031D
Sodium	UG/L	20000	4	4	7.10E+04	1.02E+05	8.11E+04	4	DEC-031D
Vanadium	UG/L	-	4	1	2.20	2.20	2.20	0	DEC-031D
Zinc	UG/L	2000	4	1	11.00	11.00	11.00	0	DEC-031D

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.



Concentration Exceeds Criteria

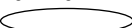
Only Detected Results Reported.

TABLE 4-14
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE II GROUNDWATER SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-004	DEC-006D	DEC-006DD	DEC-007	DEC-007D
Sample ID			DEC-004	DEC-006D	DEC-006DD	DEC-007	DEC-007D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/30/12	03/26/12	03/26/12	03/28/12	03/28/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-					
1,1,1-Trichloroethane	UG/L	5			9.1 J	0.86 J	0.89 J
1,1-Dichloroethane	UG/L	5				4.8 J	0.91 J
1,1-Dichloroethene	UG/L	5			40	1.6 J	4.1 J
1,2,3-Trichloropropane	UG/L	-					
1,2,4-Trimethylbenzene	UG/L	-					
1,2-Dichloroethane	UG/L	0.6					
1,2-Dichloroethene (cis)	UG/L	5			11 J	10	4.6 J
1,2-Dichloroethene (trans)	UG/L	5					
1,2-Dichloropropane	UG/L	1					
1,4-Dichlorobenzene	UG/L	3					
Chloroform	UG/L	7				3.2 J	
Chloromethane	UG/L	5					
Methyl tert-butyl ether	UG/L	10				1.3 J	
Naphthalene	UG/L	-					
sec-Butylbenzene	UG/L	-					
Tetrachloroethene	UG/L	5	1.2 J	3,300	320	830 DJ	190 DJ
Trichloroethene	UG/L	5	2.1 J		220	39	39
Trichlorofluoromethane	UG/L	5					
Vinyl chloride	UG/L	2					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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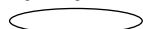
Only Detected Results Reported.

TABLE 4-14
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE II GROUNDWATER SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-004	DEC-006D	DEC-006DD	DEC-007	DEC-007D
Sample ID			DEC-004	DEC-006D	DEC-006DD	DEC-007	DEC-007D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/30/12	03/26/12	03/26/12	03/28/12	03/28/12
Parameter	Units	Criteria*					
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	460	160	120	180	240
Chloride	MG/L	250	120	160	160	130	230
Nitrate-Nitrite	MG/L	10	6.46	7.84	4.60	8.28	5.58
Phosphorous, Total (as P)	MG/L	-	0.13	0.27	0.39	0.13	0.14
Sulfate (as SO ₄)	MG/L	250	170	100	160	90	130
Sulfide	MG/L	0.05					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

Flags assigned during chemistry validation are shown.



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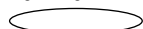
Only Detected Results Reported.

TABLE 4-14
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE II GROUNDWATER SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-008	DEC-009	DEC-010	DEC-011	DEC-011D
Sample ID			DEC-008	DEC-009	DEC-010	DEC-011	DEC-011D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/30/12	03/28/12	03/30/12	03/30/12	03/30/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-					
1,1,1-Trichloroethane	UG/L	5		2.1 J			
1,1-Dichloroethane	UG/L	5		5.6	32		
1,1-Dichloroethene	UG/L	5		4.3 J	27		
1,2,3-Trichloropropane	UG/L	-					
1,2,4-Trimethylbenzene	UG/L	-					
1,2-Dichloroethane	UG/L	0.6			2.1 J		
1,2-Dichloroethene (cis)	UG/L	5	22 J	36	8.1		
1,2-Dichloroethene (trans)	UG/L	5					
1,2-Dichloropropane	UG/L	1					
1,4-Dichlorobenzene	UG/L	3					
Chloroform	UG/L	7					3.1 J
Chloromethane	UG/L	5					
Methyl tert-butyl ether	UG/L	10					
Naphthalene	UG/L	-					
sec-Butylbenzene	UG/L	-					
Tetrachloroethene	UG/L	5	1,300 J	130 J	19 J	5.8 J	1.9 J
Trichloroethene	UG/L	5	83 J	59	79	15	5.5
Trichlorofluoromethane	UG/L	5					
Vinyl chloride	UG/L	2		37			

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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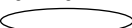
Only Detected Results Reported.

TABLE 4-14
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE II GROUNDWATER SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-008	DEC-009	DEC-010	DEC-011	DEC-011D
Sample ID			DEC-008	DEC-009	DEC-010	DEC-011	DEC-011D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/30/12	03/28/12	03/30/12	03/30/12	03/30/12
Parameter	Units	Criteria*					
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	260	220	100	150	150
Chloride	MG/L	250	280	220	220	380	53
Nitrate-Nitrite	MG/L	10	9.44	6.68	3.60	5.82	1.49
Phosphorous, Total (as P)	MG/L	-	0.13	0.28	0.10	0.12	0.094
Sulfate (as SO ₄)	MG/L	250	110	140	380	53	29
Sulfide	MG/L	0.05					0.10

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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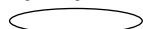
Only Detected Results Reported.

TABLE 4-14
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE II GROUNDWATER SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-012	DEC-013	DEC-013D	DEC-014D	DEC-014R
Sample ID			DEC-012	DEC-013	DEC-013D	DEC-014D	DEC-014R
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/29/12	03/30/12	03/30/12	03/28/12	03/28/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-					3.9 J
1,1,1-Trichloroethane	UG/L	5					
1,1-Dichloroethane	UG/L	5					
1,1-Dichloroethene	UG/L	5	1.1 J				
1,2,3-Trichloropropane	UG/L	-					
1,2,4-Trimethylbenzene	UG/L	-					
1,2-Dichloroethane	UG/L	0.6					
1,2-Dichloroethene (cis)	UG/L	5	0.90 J	21 J	0.61 J	1.1 J	17
1,2-Dichloroethene (trans)	UG/L	5					
1,2-Dichloropropane	UG/L	1					
1,4-Dichlorobenzene	UG/L	3					1.1 J
Chloroform	UG/L	7					3.0 J
Chloromethane	UG/L	5					
Methyl tert-butyl ether	UG/L	10				1.2 J	
Naphthalene	UG/L	-					
sec-Butylbenzene	UG/L	-					
Tetrachloroethene	UG/L	5	270 DJ	2,500 J	47 J	28 J	15,000 DJ
Trichloroethene	UG/L	5	8.9	59 J	12	2.7 J	34
Trichlorofluoromethane	UG/L	5					
Vinyl chloride	UG/L	2					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria

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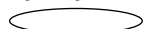
Only Detected Results Reported.

TABLE 4-14
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE II GROUNDWATER SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-012	DEC-013	DEC-013D	DEC-014D	DEC-014R
Sample ID			DEC-012	DEC-013	DEC-013D	DEC-014D	DEC-014R
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/29/12	03/30/12	03/30/12	03/28/12	03/28/12
Parameter	Units	Criteria*					
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	140	190	240	150	160
Chloride	MG/L	250	140	56	250	240	340
Nitrate-Nitrite	MG/L	10	3.74	1.61	4.04	7.08	4.26
Phosphorous, Total (as P)	MG/L	-	0.13	0.085	0.044	0.087	0.18
Sulfate (as SO ₄)	MG/L	250	71	78	120	120	100
Sulfide	MG/L	0.05					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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Concentration Exceeds Criteria

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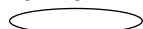
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TABLE 4-14
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE II GROUNDWATER SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-015	DEC-015D	DEC-015R	DEC-022D	DEC-027
Sample ID			DEC-015	DEC-015D	DEC-015R	DEC-022D	DEC-027
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/29/12	03/29/12	03/29/12	03/28/12	04/01/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-					
1,1,1-Trichloroethane	UG/L	5	1.3 J	1.2 J	1.5 J	1.5 J	
1,1-Dichloroethane	UG/L	5	11	1.6 J	14	5.0	
1,1-Dichloroethene	UG/L	5		6.1		0.89 J	
1,2,3-Trichloropropane	UG/L	-		2.7 J			
1,2,4-Trimethylbenzene	UG/L	-					
1,2-Dichloroethane	UG/L	0.6					
1,2-Dichloroethene (cis)	UG/L	5	19	6.8	27	38	6.8
1,2-Dichloroethene (trans)	UG/L	5				0.69 J	
1,2-Dichloropropane	UG/L	1					
1,4-Dichlorobenzene	UG/L	3					
Chloroform	UG/L	7	1.1 J		1.4 J	2.4 J	
Chloromethane	UG/L	5					
Methyl tert-butyl ether	UG/L	10		0.58 J		0.96 J	
Naphthalene	UG/L	-					
sec-Butylbenzene	UG/L	-					
Tetrachloroethene	UG/L	5	37 J	310 DJ	24 J	1,200 DJ	17 J
Trichloroethene	UG/L	5	7.6	45	6.4	64	190
Trichlorofluoromethane	UG/L	5					3.4 J
Vinyl chloride	UG/L	2					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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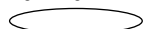
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TABLE 4-14
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE II GROUNDWATER SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-015	DEC-015D	DEC-015R	DEC-022D	DEC-027
Sample ID			DEC-015	DEC-015D	DEC-015R	DEC-022D	DEC-027
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/29/12	03/29/12	03/29/12	03/28/12	04/01/12
Parameter	Units	Criteria*					
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	260	120	250	270	260
Chloride	MG/L	250	460	250	450	210	200
Nitrate-Nitrite	MG/L	10	7.06	8.28	9.50	8.72	11.0
Phosphorous, Total (as P)	MG/L	-	0.20	0.23	0.23	0.19	0.077
Sulfate (as SO ₄)	MG/L	250	130	110	110	98	82
Sulfide	MG/L	0.05	0.062				

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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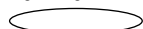
Only Detected Results Reported.

TABLE 4-14
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE II GROUNDWATER SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-028	DEC-028D	DEC-028D	DEC-029	DEC-029D
Sample ID			DEC-028	20120330-FD-1	DEC-028D	DEC-029	DEC-029D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/30/12	03/30/12	03/30/12	03/29/12	03/29/12
Parameter	Units	Criteria*		Field Duplicate (1-1)			
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-				1.9 J	
1,1,1-Trichloroethane	UG/L	5					
1,1-Dichloroethane	UG/L	5		2.2 J	2.3 J	0.66 J	0.94 J
1,1-Dichloroethene	UG/L	5		2.7 J	3.2 J		
1,2,3-Trichloropropane	UG/L	-					
1,2,4-Trimethylbenzene	UG/L	-					
1,2-Dichloroethane	UG/L	0.6					4.6 J
1,2-Dichloroethene (cis)	UG/L	5	27	6.1	7.1	14	3.1 J
1,2-Dichloroethene (trans)	UG/L	5			1.1 J		
1,2-Dichloropropane	UG/L	1					
1,4-Dichlorobenzene	UG/L	3				0.82 J	
Chloroform	UG/L	7				2.0 J	
Chloromethane	UG/L	5					
Methyl tert-butyl ether	UG/L	10					1.7 J
Naphthalene	UG/L	-					
sec-Butylbenzene	UG/L	-					
Tetrachloroethene	UG/L	5	320 J	6.0 J	4.6 J	12,000 DJ	19
Trichloroethene	UG/L	5	190	99	97	21	5.0
Trichlorofluoromethane	UG/L	5					
Vinyl chloride	UG/L	2					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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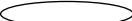
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TABLE 4-14
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE II GROUNDWATER SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-028	DEC-028D	DEC-028D	DEC-029	DEC-029D
Sample ID			DEC-028	20120330-FD-1	DEC-028D	DEC-029	DEC-029D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/30/12	03/30/12	03/30/12	03/29/12	03/29/12
Parameter	Units	Criteria*		Field Duplicate (1-1)			
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	310	180 J	140 J	160	160
Chloride	MG/L	250	230	220	220	210	250
Nitrate-Nitrite	MG/L	10	0.20			4.92	3.92
Phosphorous, Total (as P)	MG/L	-	0.12	0.081	0.082	0.31	0.18
Sulfate (as SO ₄)	MG/L	250	86	320	330	84	170
Sulfide	MG/L	0.05					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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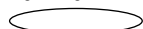
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TABLE 4-14
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE II GROUNDWATER SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-029TC	DEC-029TC	DEC-030	DEC-030	DEC-030D
Sample ID			20120331-FD-1	DEC-029TC	20120327-FD-1	DEC-030	DEC-030D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/31/12	03/31/12	03/27/12	03/27/12	03/27/12
Parameter	Units	Criteria*	Field Duplicate (1-1)		Field Duplicate (1-1)		
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-					
1,1,1-Trichloroethane	UG/L	5					1.1 J
1,1-Dichloroethane	UG/L	5					
1,1-Dichloroethene	UG/L	5	1.1 J				5.0
1,2,3-Trichloropropane	UG/L	-					
1,2,4-Trimethylbenzene	UG/L	-					
1,2-Dichloroethane	UG/L	0.6	2,100 D	3,700 D			
1,2-Dichloroethene (cis)	UG/L	5	16	14	23	23	0.93 J
1,2-Dichloroethene (trans)	UG/L	5	2.3 J	2.6 J			
1,2-Dichloropropane	UG/L	1	2.1 J	2.2 J			
1,4-Dichlorobenzene	UG/L	3					
Chloroform	UG/L	7			0.65 J	0.63 J	
Chloromethane	UG/L	5					
Methyl tert-butyl ether	UG/L	10					1.8 J
Naphthalene	UG/L	-					
sec-Butylbenzene	UG/L	-					
Tetrachloroethene	UG/L	5	4,500 DJ	2,300 DJ	1,900 DJ	1,900 DJ	33 J
Trichloroethene	UG/L	5	300 D	300 D	27	27	57
Trichlorofluoromethane	UG/L	5					
Vinyl chloride	UG/L	2					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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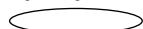
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TABLE 4-14
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE II GROUNDWATER SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-029TC	DEC-029TC	DEC-030	DEC-030	DEC-030D
Sample ID			20120331-FD-1	DEC-029TC	20120327-FD-1	DEC-030	DEC-030D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/31/12	03/31/12	03/27/12	03/27/12	03/27/12
Parameter	Units	Criteria*	Field Duplicate (1-1)		Field Duplicate (1-1)		
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	260	310	90	90	140
Chloride	MG/L	250	2,400	2,500	310	310	210
Nitrate-Nitrite	MG/L	10			5.64	5.54	8.72
Phosphorous, Total (as P)	MG/L	-	0.10	0.086	0.39	0.36	0.28
Sulfate (as SO ₄)	MG/L	250	720	720	130	130	160
Sulfide	MG/L	0.05					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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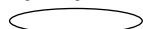
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TABLE 4-14
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE II GROUNDWATER SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-031	DEC-031	DEC-031D	DEC-031TC	DEC-032
Sample ID			DEC-031	DEC-031	DEC-031D	DEC-031TC	DEC-032
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			04/01/12	04/20/12	03/31/12	03/30/12	03/27/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-	NA	3.8 J			
1,1,1-Trichloroethane	UG/L	5	NA				
1,1-Dichloroethane	UG/L	5	NA				
1,1-Dichloroethene	UG/L	5	NA				
1,2,3-Trichloropropane	UG/L	-	NA				
1,2,4-Trimethylbenzene	UG/L	-	NA				
1,2-Dichloroethane	UG/L	0.6	NA		130		
1,2-Dichloroethene (cis)	UG/L	5	NA	22			
1,2-Dichloroethene (trans)	UG/L	5	NA				
1,2-Dichloropropane	UG/L	1	NA				
1,4-Dichlorobenzene	UG/L	3	NA	1.0 J			
Chloroform	UG/L	7	NA	6.2		1.3 J	
Chloromethane	UG/L	5	NA				
Methyl tert-butyl ether	UG/L	10	NA				
Naphthalene	UG/L	-	NA				
sec-Butylbenzene	UG/L	-	NA				
Tetrachloroethene	UG/L	5	NA	9,200 DJ	3.6 J	1.9 J	
Trichloroethene	UG/L	5	NA	35			
Trichlorofluoromethane	UG/L	5	NA				
Vinyl chloride	UG/L	2	NA				

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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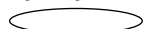
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TABLE 4-14
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE II GROUNDWATER SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-031	DEC-031	DEC-031D	DEC-031TC	DEC-032
Sample ID			DEC-031	DEC-031	DEC-031D	DEC-031TC	DEC-032
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			04/01/12	04/20/12	03/31/12	03/30/12	03/27/12
Parameter	Units	Criteria*					
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	170	NA	150	91	90
Chloride	MG/L	250	130	NA	250	180	200
Nitrate-Nitrite	MG/L	10	2.76	NA	5.28		
Phosphorous, Total (as P)	MG/L	-	0.082	NA	0.089	0.16	0.10
Sulfate (as SO ₄)	MG/L	250	48	NA	210	2.6 J	10.0
Sulfide	MG/L	0.05		NA			

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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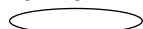
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TABLE 4-14
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE II GROUNDWATER SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-033	DEC-039	DEC-042	DEC-043	DEC-043D
Sample ID			DEC-033	DEC-039	DEC-042	DEC-043	DEC-043D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/30/12	03/28/12	03/30/12	03/29/12	03/29/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-					
1,1,1-Trichloroethane	UG/L	5		6.9	12		
1,1-Dichloroethane	UG/L	5		4.2 J	4.9 J		
1,1-Dichloroethene	UG/L	5					
1,2,3-Trichloropropane	UG/L	-					
1,2,4-Trimethylbenzene	UG/L	-					
1,2-Dichloroethane	UG/L	0.6					4.6 J
1,2-Dichloroethene (cis)	UG/L	5		23	15		
1,2-Dichloroethene (trans)	UG/L	5					
1,2-Dichloropropane	UG/L	1					
1,4-Dichlorobenzene	UG/L	3					
Chloroform	UG/L	7			1.3 J		
Chloromethane	UG/L	5					
Methyl tert-butyl ether	UG/L	10					0.60 J
Naphthalene	UG/L	-					
sec-Butylbenzene	UG/L	-					
Tetrachloroethene	UG/L	5	2.1 J	62 J	72 J	14 J	8.2 J
Trichloroethene	UG/L	5	0.85 J	150	48	1.3 J	1.3 J
Trichlorofluoromethane	UG/L	5		11	13		
Vinyl chloride	UG/L	2					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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- = No standard, criteria or guidance value. Blank cell or ND - Not Detected. NA - Not analyzed.

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B (metals only) - The reported concentration is above the method detection limit but below the quantitation limit.

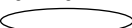
Only Detected Results Reported.

TABLE 4-14
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE II GROUNDWATER SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-033	DEC-039	DEC-042	DEC-043	DEC-043D
Sample ID			DEC-033	DEC-039	DEC-042	DEC-043	DEC-043D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/30/12	03/28/12	03/30/12	03/29/12	03/29/12
Parameter	Units	Criteria*					
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	140	210	190	250	190
Chloride	MG/L	250	900	200	190	68	220
Nitrate-Nitrite	MG/L	10	1.17	19.2	16.4	2.26	2.40
Phosphorous, Total (as P)	MG/L	-	0.50	0.28	0.15	0.083	0.11
Sulfate (as SO ₄)	MG/L	250	150	120	96	69	110
Sulfide	MG/L	0.05					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria

- = No standard, criteria or guidance value. Blank cell or ND - Not Detected. NA - Not analyzed.

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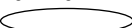
Only Detected Results Reported.

TABLE 4-14
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE II GROUNDWATER SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-044	DEC-044D	DEC-044D	DEC-045	DEC-045D
Sample ID			DEC-044	20120401-FD-1	DEC-044D	DEC-045	DEC-045D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/31/12	04/01/12	04/01/12	03/27/12	03/27/12
Parameter	Units	Criteria*		Field Duplicate (1-1)			
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-					
1,1,1-Trichloroethane	UG/L	5					
1,1-Dichloroethane	UG/L	5					
1,1-Dichloroethene	UG/L	5					
1,2,3-Trichloropropane	UG/L	-					
1,2,4-Trimethylbenzene	UG/L	-					
1,2-Dichloroethane	UG/L	0.6		300 D	280 D		53
1,2-Dichloroethene (cis)	UG/L	5				1.5 J	
1,2-Dichloroethene (trans)	UG/L	5					
1,2-Dichloropropane	UG/L	1					
1,4-Dichlorobenzene	UG/L	3					
Chloroform	UG/L	7					
Chloromethane	UG/L	5					
Methyl tert-butyl ether	UG/L	10					2.1 J
Naphthalene	UG/L	-					
sec-Butylbenzene	UG/L	-					
Tetrachloroethene	UG/L	5	890 J			38	
Trichloroethene	UG/L	5	49 J		1.1 J	1.3 J	
Trichlorofluoromethane	UG/L	5					
Vinyl chloride	UG/L	2					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria

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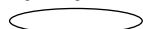
Only Detected Results Reported.

TABLE 4-14
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE II GROUNDWATER SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-044	DEC-044D	DEC-044D	DEC-045	DEC-045D
Sample ID			DEC-044	20120401-FD-1	DEC-044D	DEC-045	DEC-045D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/31/12	04/01/12	04/01/12	03/27/12	03/27/12
Parameter	Units	Criteria*		Field Duplicate (1-1)			
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	100	180	180	190	220
Chloride	MG/L	250	40	280	280	160	220
Nitrate-Nitrite	MG/L	10	0.774	4.52	4.94	1.72	6.64
Phosphorous, Total (as P)	MG/L	-	0.067	0.13	0.15	0.18	0.095
Sulfate (as SO ₄)	MG/L	250	36	350	360	36	170
Sulfide	MG/L	0.05					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria

- = No standard, criteria or guidance value. Blank cell or ND - Not Detected. NA - Not analyzed.

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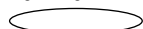
Only Detected Results Reported.

TABLE 4-14
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE II GROUNDWATER SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-046	DEC-046D	DEC-047	DEC-048	DEC-048
Sample ID			DEC-046	DEC-046D	DEC-047	20120329-FD-1	DEC-048
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/26/12	03/26/12	03/29/12	03/29/12	03/29/12
Parameter	Units	Criteria*				Field Duplicate (1-1)	
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-					
1,1,1-Trichloroethane	UG/L	5					
1,1-Dichloroethane	UG/L	5					
1,1-Dichloroethene	UG/L	5					
1,2,3-Trichloropropane	UG/L	-					
1,2,4-Trimethylbenzene	UG/L	-				1.0 J	0.95 J
1,2-Dichloroethane	UG/L	0.6					
1,2-Dichloroethene (cis)	UG/L	5					
1,2-Dichloroethene (trans)	UG/L	5					
1,2-Dichloropropane	UG/L	1					
1,4-Dichlorobenzene	UG/L	3					
Chloroform	UG/L	7	1.6 J	2.5 J			
Chloromethane	UG/L	5		1.1 J			
Methyl tert-butyl ether	UG/L	10			36		
Naphthalene	UG/L	-				1.8 J	
sec-Butylbenzene	UG/L	-				0.69 J	
Tetrachloroethene	UG/L	5	7.4	3.5 J	2.5 J	4.3 J	4.4 J
Trichloroethene	UG/L	5	2.4 J	3.3 J	0.67 J	1.3 J	1.3 J
Trichlorofluoromethane	UG/L	5					
Vinyl chloride	UG/L	2					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria

- = No standard, criteria or guidance value. Blank cell or ND - Not Detected. NA - Not analyzed.

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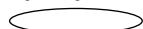
Only Detected Results Reported.

TABLE 4-14
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE II GROUNDWATER SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-046	DEC-046D	DEC-047	DEC-048	DEC-048
Sample ID			DEC-046	DEC-046D	DEC-047	20120329-FD-1	DEC-048
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/26/12	03/26/12	03/29/12	03/29/12	03/29/12
Parameter	Units	Criteria*				Field Duplicate (1-1)	
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	150	130	150	150	140
Chloride	MG/L	250	160	170	410	140	140
Nitrate-Nitrite	MG/L	10	6.16	3.66	2.22	7.92	7.32
Phosphorous, Total (as P)	MG/L	-	0.16	0.31	0.12	0.097	0.092
Sulfate (as SO ₄)	MG/L	250	78	220	110	83	85
Sulfide	MG/L	0.05					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria

- = No standard, criteria or guidance value. Blank cell or ND - Not Detected. NA - Not analyzed.

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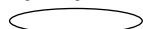
Only Detected Results Reported.

TABLE 4-14
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE II GROUNDWATER SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-064	DEC-064D	DEC-065	DEC-065D	DEC-066
Sample ID			DEC-064	DEC-064D	DEC-065	DEC-065D	DEC-066
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/28/12	03/28/12	03/31/12	03/31/12	03/27/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-					
1,1,1-Trichloroethane	UG/L	5		1.6 J		14 J	
1,1-Dichloroethane	UG/L	5		0.81 J		5.9 J	
1,1-Dichloroethene	UG/L	5		6.3		75	
1,2,3-Trichloropropane	UG/L	-					
1,2,4-Trimethylbenzene	UG/L	-					
1,2-Dichloroethane	UG/L	0.6					
1,2-Dichloroethene (cis)	UG/L	5	2.2 J	1.1 J		8.8 J	3.9 J
1,2-Dichloroethene (trans)	UG/L	5					
1,2-Dichloropropane	UG/L	1					
1,4-Dichlorobenzene	UG/L	3					
Chloroform	UG/L	7	2.2 J				
Chloromethane	UG/L	5					
Methyl tert-butyl ether	UG/L	10		1.6 J			
Naphthalene	UG/L	-					
sec-Butylbenzene	UG/L	-					
Tetrachloroethene	UG/L	5	140 DJ	14 J	200 J	65 J	42
Trichloroethene	UG/L	5	4.5 J	80	2.5 J	470	2.3 J
Trichlorofluoromethane	UG/L	5					
Vinyl chloride	UG/L	2					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria

- = No standard, criteria or guidance value. Blank cell or ND - Not Detected. NA - Not analyzed.

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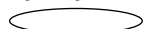
Only Detected Results Reported.

TABLE 4-14
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE II GROUNDWATER SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-064	DEC-064D	DEC-065	DEC-065D	DEC-066
Sample ID			DEC-064	DEC-064D	DEC-065	DEC-065D	DEC-066
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/28/12	03/28/12	03/31/12	03/31/12	03/27/12
Parameter	Units	Criteria*					
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	70	130	150	140	110
Chloride	MG/L	250	390	250	140	240	110
Nitrate-Nitrite	MG/L	10	5.88	8.18	1.96	3.88	0.976
Phosphorous, Total (as P)	MG/L	-	0.071	0.24	0.13	0.16	0.13
Sulfate (as SO ₄)	MG/L	250	100	140	57	150	23
Sulfide	MG/L	0.05					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria

- = No standard, criteria or guidance value. Blank cell or ND - Not Detected. NA - Not analyzed.

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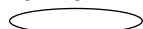
Only Detected Results Reported.

TABLE 4-14
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE II GROUNDWATER SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-066D	DEC-088	DEC-088D	DEC-089	DEC-089D
Sample ID			DEC-066D	DEC-088	DEC-088D	DEC-089	DEC-089D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/27/12	03/27/12	03/27/12	03/27/12	03/27/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-					
1,1,1-Trichloroethane	UG/L	5					
1,1-Dichloroethane	UG/L	5					
1,1-Dichloroethene	UG/L	5					
1,2,3-Trichloropropane	UG/L	-					
1,2,4-Trimethylbenzene	UG/L	-					
1,2-Dichloroethane	UG/L	0.6	22		2.8 J		23 J
1,2-Dichloroethene (cis)	UG/L	5		1.0 J		1.5 J	
1,2-Dichloroethene (trans)	UG/L	5					
1,2-Dichloropropane	UG/L	1					
1,4-Dichlorobenzene	UG/L	3					
Chloroform	UG/L	7					
Chloromethane	UG/L	5					
Methyl tert-butyl ether	UG/L	10					
Naphthalene	UG/L	-					
sec-Butylbenzene	UG/L	-					
Tetrachloroethene	UG/L	5		150	190	59	1,200
Trichloroethene	UG/L	5		1.7 J	2.7 J	1.3 J	
Trichlorofluoromethane	UG/L	5					
Vinyl chloride	UG/L	2					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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Concentration Exceeds Criteria

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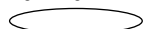
Only Detected Results Reported.

TABLE 4-14
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE II GROUNDWATER SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-066D	DEC-088	DEC-088D	DEC-089	DEC-089D
Sample ID			DEC-066D	DEC-088	DEC-088D	DEC-089	DEC-089D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/27/12	03/27/12	03/27/12	03/27/12	03/27/12
Parameter	Units	Criteria*					
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	100	150	160	160	150
Chloride	MG/L	250	230	160	160	53	220
Nitrate-Nitrite	MG/L	10	8.02	4.78	4.18	3.76	3.80
Phosphorous, Total (as P)	MG/L	-	0.23	0.26	0.52	0.21	0.19
Sulfate (as SO ₄)	MG/L	250	190	88	120	78	200
Sulfide	MG/L	0.05					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria

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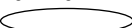
Only Detected Results Reported.

TABLE 4-14
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE II GROUNDWATER SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-090	DEC-090D	DEC-091	DEC-091D	DEC-091D
Sample ID			DEC-090	DEC-090D	DEC-091	DEC-091D	FD-03272012-2
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/28/12	03/28/12	03/27/12	03/27/12	03/27/12
Parameter	Units	Criteria*					Field Duplicate (1-1)
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-	1.2 J				
1,1,1-Trichloroethane	UG/L	5					
1,1-Dichloroethane	UG/L	5					
1,1-Dichloroethene	UG/L	5					
1,2,3-Trichloropropane	UG/L	-					
1,2,4-Trimethylbenzene	UG/L	-					
1,2-Dichloroethane	UG/L	0.6					
1,2-Dichloroethene (cis)	UG/L	5	9.2	1.5 J			
1,2-Dichloroethene (trans)	UG/L	5					
1,2-Dichloropropane	UG/L	1					
1,4-Dichlorobenzene	UG/L	3					
Chloroform	UG/L	7		0.55 J			0.77 J
Chloromethane	UG/L	5					
Methyl tert-butyl ether	UG/L	10		0.70 J			0.52 J
Naphthalene	UG/L	-			1.0 J		
sec-Butylbenzene	UG/L	-			0.97 J		
Tetrachloroethene	UG/L	5	2,400 DJ	10 J		2.2 J	3.3 J
Trichloroethene	UG/L	5	12	1.8 J			0.60 J
Trichlorofluoromethane	UG/L	5					
Vinyl chloride	UG/L	2					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria

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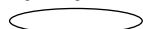
Only Detected Results Reported.

TABLE 4-14
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE II GROUNDWATER SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-090	DEC-090D	DEC-091	DEC-091D	DEC-091D
Sample ID			DEC-090	DEC-090D	DEC-091	DEC-091D	FD-03272012-2
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/28/12	03/28/12	03/27/12	03/27/12	03/27/12
Parameter	Units	Criteria*					Field Duplicate (1-1)
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	150	160	150	180	200
Chloride	MG/L	250	73	240	160	150	150
Nitrate-Nitrite	MG/L	10	2.66	4.02		1.02	1.39
Phosphorous, Total (as P)	MG/L	-	0.12	0.11	0.29	0.46	0.46
Sulfate (as SO ₄)	MG/L	250	42	150	4.7 J	82	85
Sulfide	MG/L	0.05	0.030			0.038	0.040

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria

- = No standard, criteria or guidance value. Blank cell or ND - Not Detected. NA - Not analyzed.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

B (metals only) - The reported concentration is above the method detection limit but below the quantitation limit.

Only Detected Results Reported.

TABLE 4-15
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN RI PHASE II GROUNDWATER SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value
					Min	Max	Avg		
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	UG/L	-	64	4	1.20	3.90	2.70	0	DEC-014R
1,1,1-Trichloroethane	UG/L	5	64	13	0.860	14.00	4.16	4	DEC-065D
1,1-Dichloroethane	UG/L	5	64	16	0.660	32.00	6.05	6	DEC-010
1,1-Dichloroethene	UG/L	5	64	14	0.890	75.00	12.74	6	DEC-065D
1,2,3-Trichloropropane	UG/L	-	64	1	2.70	2.70	2.70	0	DEC-015D
1,2,4-Trimethylbenzene	UG/L	-	64	2	0.950	1.00	0.975	0	DEC-048
1,2-Dichloroethane	UG/L	0.6	64	12	2.10	3,700	551.8	12	DEC-029TC
1,2-Dichloroethene (cis)	UG/L	5	64	38	0.610	38.00	11.97	25	DEC-022D
1,2-Dichloroethene (trans)	UG/L	5	64	4	0.690	2.60	1.67	0	DEC-029TC
1,2-Dichloropropane	UG/L	1	64	2	2.10	2.20	2.15	2	DEC-029TC
1,4-Dichlorobenzene	UG/L	3	64	3	0.820	1.10	0.973	0	DEC-014R
Chloroform	UG/L	7	64	17	0.550	6.20	1.99	0	DEC-031
Chloromethane	UG/L	5	64	1	1.10	1.10	1.10	0	DEC-046D
Methyl tert-butyl ether	UG/L	10	64	12	0.520	36.00	4.09	1	DEC-047
Naphthalene	UG/L	-	64	2	1.00	1.80	1.40	0	DEC-048
sec-Butylbenzene	UG/L	-	64	2	0.690	0.970	0.830	0	DEC-091
Tetrachloroethene	UG/L	5	64	58	1.20	1.50E+04	1,091	46	DEC-014R

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.



Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-15
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN RI PHASE II GROUNDWATER SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value
					Min	Max	Avg		
Volatile Organic Compounds									
Trichloroethene	UG/L	5	64	54	0.600	470.0	55.01	34	DEC-065D
Trichlorofluoromethane	UG/L	5	64	3	3.40	13.00	9.13	2	DEC-042
Vinyl chloride	UG/L	2	64	1	37.00	37.00	37.00	1	DEC-009
Miscellaneous Parameters									
Alkalinity, Total (as CaCO3)	MG/L	-	64	64	70.00	460.0	174.2	0	DEC-004
Chloride	MG/L	250	64	64	40.00	2,500	288.6	19	DEC-029TC
Nitrate-Nitrite	MG/L	10	64	57	0.200	19.20	5.33	3	DEC-039
Phosphorous, Total (as P)	MG/L	-	64	64	0.044	0.520	0.184	0	DEC-088D
Sulfate (as SO4)	MG/L	250	64	64	2.60	720.0	141.9	7	DEC-029TC
Sulfide	MG/L	0.05	64	5	0.030	0.100	0.054	2	DEC-011D

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.



Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-004	DEC-004	DEC-004	DEC-004	DEC-004
Sample ID			DEC-04	DEC-004	DEC-004	DEC-004	DEC-004
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/27/07	12/12/07	07/16/08	09/24/09	06/24/11
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-	NA	NA	NA	NA	
1,1,1-Trichloroethane	UG/L	5				NA	
1,1,2-Trichloroethane	UG/L	1				NA	
1,1-Dichloroethane	UG/L	5				NA	
1,1-Dichloroethene	UG/L	5	3.7 J	1.7 J	2.9	NA	
1,2,3-Trichlorobenzene	UG/L	-	NA	NA	NA	NA	
1,2,3-Trichloropropane	UG/L	-	NA	NA	NA	NA	
1,2,4-Trichlorobenzene	UG/L	5				NA	
1,2,4-Trimethylbenzene	UG/L	-	NA	NA	NA	NA	
1,2-Dichlorobenzene	UG/L	3				NA	
1,2-Dichloroethane	UG/L	0.6				NA	
1,2-Dichloroethene (cis)	UG/L	5	8.5	19	33	15	4.8 J
1,2-Dichloroethene (trans)	UG/L	5		1.8 J	2.9	NA	
1,2-Dichloropropane	UG/L	1				NA	
1,4-Dichlorobenzene	UG/L	3				NA	
Acetone	UG/L	50	56			NA	
Benzene	UG/L	1				NA	
Carbon disulfide	UG/L	60				NA	
Carbon tetrachloride	UG/L	5				NA	
Chloroethane	UG/L	5				NA	
Chloroform	UG/L	7	1.0 J			NA	
Chloromethane	UG/L	5				NA	

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria

- = No standard, criteria or guidance value. Blank cell or ND - Not Detected. NA - Not analyzed.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

B (metals only) - The reported concentration is above the method detection limit but below the quantitation limit.

Only Detected Results Reported.

TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-004	DEC-004	DEC-004	DEC-004	DEC-004
Sample ID			DEC-04	DEC-004	DEC-004	DEC-004	DEC-004
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/27/07	12/12/07	07/16/08	09/24/09	06/24/11
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Cyclohexane	UG/L	-				NA	
Ethylbenzene	UG/L	5				NA	
Isopropylbenzene (Cumene)	UG/L	5				NA	
Methyl ethyl ketone (2-Butanone)	UG/L	50				NA	
Methyl tert-butyl ether	UG/L	10				NA	
Methylcyclohexane	UG/L	-				NA	
Methylene chloride	UG/L	5				NA	
Naphthalene	UG/L	-	NA	NA	NA	NA	
sec-Butylbenzene	UG/L	-	NA	NA	NA	NA	
Tetrachloroethene	UG/L	5	1.4 J	3.2 J	4.4	2.0	1.5 J
Toluene	UG/L	5				NA	
Trichloroethene	UG/L	5	230 J	220	580 D	120	37
Trichlorofluoromethane	UG/L	5				NA	
Vinyl chloride	UG/L	2				NA	1.0 J
Xylene (total)	UG/L	5				NA	
Semivolatile Organic Compounds							
1,1-Biphenyl	UG/L	-	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	-	NA	NA	NA	NA	NA
Carbazole	UG/L	50	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	50	NA	NA	NA	NA	NA
Naphthalene	UG/L	10	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

Flags assigned during chemistry validation are shown.



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Only Detected Results Reported.

TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-004	DEC-004	DEC-004	DEC-004	DEC-004
Sample ID			DEC-04	DEC-004	DEC-004	DEC-004	DEC-004
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/27/07	12/12/07	07/16/08	09/24/09	06/24/11
Parameter	Units	Criteria*					
Pesticide Organic Compounds							
gamma-BHC (Lindane)	UG/L	-	NA	NA	NA	NA	NA
Metals							
Aluminum	UG/L	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	NA	NA	NA	NA	NA
Calcium	UG/L	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	NA	NA	NA	NA	NA
Cobalt	UG/L	-	NA	NA	NA	NA	NA
Iron	UG/L	300	NA	NA	NA	NA	NA
Magnesium	UG/L	35000	NA	NA	NA	NA	NA
Manganese	UG/L	300	NA	NA	NA	NA	NA
Nickel	UG/L	100	NA	NA	NA	NA	NA
Potassium	UG/L	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	NA	NA	NA	NA	NA
Vanadium	UG/L	-	NA	NA	NA	NA	NA
Zinc	UG/L	2000	NA	NA	NA	NA	NA
Dissolved Metals							
Iron	UG/L	300	NA	NA	NA	NA	NA
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	NA	NA	NA	NA	NA
Chloride	MG/L	250	NA	NA	NA	NA	NA
Nitrate-Nitrite	MG/L	10	NA	NA	NA	NA	NA
Phosphorous, Total (as P)	MG/L	-	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-004	DEC-004	DEC-004	DEC-004	DEC-004
Sample ID			DEC-04	DEC-004	DEC-004	DEC-004	DEC-004
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/27/07	12/12/07	07/16/08	09/24/09	06/24/11
Parameter	Units	Criteria*					
Miscellaneous Parameters							
Sulfate (as SO ₄)	MG/L	250	NA	NA	NA	NA	NA
Sulfide	MG/L	0.05	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	MG/L	-	NA	NA	NA	NA	NA
Dissolved Gases							
Ethane	UG/L	-	NA	NA	NA	NA	NA
Ethene	UG/L	-	NA	NA	NA	NA	NA
Methane	UG/L	-	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-004	DEC-004	DEC-006	DEC-006	DEC-006
Sample ID			DEC-004	DEC-004	DEC-06	DEC-006	DEC-006
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			10/24/11	03/30/12	06/22/07	12/11/07	07/15/08
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-	NA		NA	NA	NA
1,1,1-Trichloroethane	UG/L	5					
1,1,2-Trichloroethane	UG/L	1					
1,1-Dichloroethane	UG/L	5					
1,1-Dichloroethene	UG/L	5					
1,2,3-Trichlorobenzene	UG/L	-	NA		NA	NA	NA
1,2,3-Trichloropropane	UG/L	-	NA		NA	NA	NA
1,2,4-Trichlorobenzene	UG/L	5					
1,2,4-Trimethylbenzene	UG/L	-	NA		NA	NA	NA
1,2-Dichlorobenzene	UG/L	3					
1,2-Dichloroethane	UG/L	0.6					
1,2-Dichloroethene (cis)	UG/L	5					
1,2-Dichloroethene (trans)	UG/L	5					
1,2-Dichloropropane	UG/L	1					
1,4-Dichlorobenzene	UG/L	3					
Acetone	UG/L	50					
Benzene	UG/L	1					
Carbon disulfide	UG/L	60					
Carbon tetrachloride	UG/L	5					
Chloroethane	UG/L	5					
Chloroform	UG/L	7					
Chloromethane	UG/L	5					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-004	DEC-004	DEC-006	DEC-006	DEC-006
Sample ID			DEC-004	DEC-004	DEC-06	DEC-006	DEC-006
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			10/24/11	03/30/12	06/22/07	12/11/07	07/15/08
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Cyclohexane	UG/L	-					
Ethylbenzene	UG/L	5					
Isopropylbenzene (Cumene)	UG/L	5					
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Methyl tert-butyl ether	UG/L	10					
Methylcyclohexane	UG/L	-					
Methylene chloride	UG/L	5					
Naphthalene	UG/L	-	NA		NA	NA	NA
sec-Butylbenzene	UG/L	-	NA		NA	NA	NA
Tetrachloroethene	UG/L	5		1.2 J			
Toluene	UG/L	5					
Trichloroethene	UG/L	5		2.1 J			
Trichlorofluoromethane	UG/L	5					
Vinyl chloride	UG/L	2					
Xylene (total)	UG/L	5					
Semivolatile Organic Compounds							
1,1-Biphenyl	UG/L	-	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	-	NA	NA	NA	NA	NA
Carbazole	UG/L	50	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	50	NA	NA	NA	NA	NA
Naphthalene	UG/L	10	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-004	DEC-004	DEC-006	DEC-006	DEC-006
Sample ID			DEC-004	DEC-004	DEC-06	DEC-006	DEC-006
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			10/24/11	03/30/12	06/22/07	12/11/07	07/15/08
Parameter	Units	Criteria*					
Pesticide Organic Compounds							
gamma-BHC (Lindane)	UG/L	-	NA	NA	NA	NA	NA
Metals							
Aluminum	UG/L	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	NA	NA	NA	NA	NA
Calcium	UG/L	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	NA	NA	NA	NA	NA
Cobalt	UG/L	-	NA	NA	NA	NA	NA
Iron	UG/L	300	1,800	NA	NA	NA	NA
Magnesium	UG/L	35000	NA	NA	NA	NA	NA
Manganese	UG/L	300	NA	NA	NA	NA	NA
Nickel	UG/L	100	NA	NA	NA	NA	NA
Potassium	UG/L	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	NA	NA	NA	NA	NA
Vanadium	UG/L	-	NA	NA	NA	NA	NA
Zinc	UG/L	2000	NA	NA	NA	NA	NA
Dissolved Metals							
Iron	UG/L	300	1,500	NA	NA	NA	NA
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	557	460	NA	NA	NA
Chloride	MG/L	250	123	120	NA	NA	NA
Nitrate-Nitrite	MG/L	10	0.028 J	6.46	NA	NA	NA
Phosphorous, Total (as P)	MG/L	-	NA	0.13	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria

- = No standard, criteria or guidance value. Blank cell or ND - Not Detected. NA - Not analyzed.

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Only Detected Results Reported.

TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-004	DEC-004	DEC-006	DEC-006	DEC-006
Sample ID			DEC-004	DEC-004	DEC-06	DEC-006	DEC-006
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			10/24/11	03/30/12	06/22/07	12/11/07	07/15/08
Parameter	Units	Criteria*					
Miscellaneous Parameters							
Sulfate (as SO ₄)	MG/L	250	160	170	NA	NA	NA
Sulfide	MG/L	0.05	NA		NA	NA	NA
Total Organic Carbon (TOC)	MG/L	-	4.9	NA	NA	NA	NA
Dissolved Gases							
Ethane	UG/L	-		NA	NA	NA	NA
Ethene	UG/L	-		NA	NA	NA	NA
Methane	UG/L	-	14	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria

- = No standard, criteria or guidance value. Blank cell or ND - Not Detected. NA - Not analyzed.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

B (metals only) - The reported concentration is above the method detection limit but below the quantitation limit.

Only Detected Results Reported.

TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-006D	DEC-006D	DEC-006D	DEC-006D	DEC-006D
Sample ID			DEC-006D	DEC-006D	DEC-006D	DEC-006D	DEC-006D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			07/21/08	11/04/09	06/20/11	10/22/11	03/26/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-	NA	NA		NA	
1,1,1-Trichloroethane	UG/L	5	2.3				
1,1,2-Trichloroethane	UG/L	1					
1,1-Dichloroethane	UG/L	5	16			0.87 J	
1,1-Dichloroethene	UG/L	5					
1,2,3-Trichlorobenzene	UG/L	-	NA	NA		NA	
1,2,3-Trichloropropane	UG/L	-	NA	NA		NA	
1,2,4-Trichlorobenzene	UG/L	5					
1,2,4-Trimethylbenzene	UG/L	-	NA	NA		NA	
1,2-Dichlorobenzene	UG/L	3					
1,2-Dichloroethane	UG/L	0.6					
1,2-Dichloroethene (cis)	UG/L	5	82 D		26	19	
1,2-Dichloroethene (trans)	UG/L	5					
1,2-Dichloropropane	UG/L	1					
1,4-Dichlorobenzene	UG/L	3					
Acetone	UG/L	50	16 J				
Benzene	UG/L	1					
Carbon disulfide	UG/L	60					
Carbon tetrachloride	UG/L	5					
Chloroethane	UG/L	5					
Chloroform	UG/L	7	3.5		4.6 J	3.2	
Chloromethane	UG/L	5					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria

- = No standard, criteria or guidance value. Blank cell or ND - Not Detected. NA - Not analyzed.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

B (metals only) - The reported concentration is above the method detection limit but below the quantitation limit.

Only Detected Results Reported.

TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-006D	DEC-006D	DEC-006D	DEC-006D	DEC-006D
Sample ID			DEC-006D	DEC-006D	DEC-006D	DEC-006D	DEC-006D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			07/21/08	11/04/09	06/20/11	10/22/11	03/26/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Cyclohexane	UG/L	-					
Ethylbenzene	UG/L	5					
Isopropylbenzene (Cumene)	UG/L	5					
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Methyl tert-butyl ether	UG/L	10	8.4			0.45 J	
Methylcyclohexane	UG/L	-					
Methylene chloride	UG/L	5					
Naphthalene	UG/L	-	NA	NA		NA	
sec-Butylbenzene	UG/L	-	NA	NA		NA	
Tetrachloroethene	UG/L	5	1,600 D	1,200	6,600 D	8,000 D	3,300
Toluene	UG/L	5					
Trichloroethene	UG/L	5	71	23	39	34	
Trichlorofluoromethane	UG/L	5					
Vinyl chloride	UG/L	2					
Xylene (total)	UG/L	5					
Semivolatile Organic Compounds							
1,1-Biphenyl	UG/L	-	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	-	NA	NA	NA	NA	NA
Carbazole	UG/L	50	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	50	NA	NA	NA	NA	NA
Naphthalene	UG/L	10	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-006D	DEC-006D	DEC-006D	DEC-006D	DEC-006D
Sample ID			DEC-006D	DEC-006D	DEC-006D	DEC-006D	DEC-006D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			07/21/08	11/04/09	06/20/11	10/22/11	03/26/12
Parameter	Units	Criteria*					
Pesticide Organic Compounds							
gamma-BHC (Lindane)	UG/L	-	NA	NA	NA	NA	NA
Metals							
Aluminum	UG/L	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	NA	NA	NA	NA	NA
Calcium	UG/L	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	NA	NA	NA	NA	NA
Cobalt	UG/L	-	NA	NA	NA	NA	NA
Iron	UG/L	300	NA	NA	NA	1,100	NA
Magnesium	UG/L	35000	NA	NA	NA	NA	NA
Manganese	UG/L	300	NA	NA	NA	NA	NA
Nickel	UG/L	100	NA	NA	NA	NA	NA
Potassium	UG/L	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	NA	NA	NA	NA	NA
Vanadium	UG/L	-	NA	NA	NA	NA	NA
Zinc	UG/L	2000	NA	NA	NA	NA	NA
Dissolved Metals							
Iron	UG/L	300	NA	NA	NA	78.0	NA
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	NA	NA	NA	161	160
Chloride	MG/L	250	NA	NA	NA	170	160
Nitrate-Nitrite	MG/L	10	NA	NA	NA	7.7	7.84
Phosphorous, Total (as P)	MG/L	-	NA	NA	NA	NA	0.27

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-006D	DEC-006D	DEC-006D	DEC-006D	DEC-006D
Sample ID			DEC-006D	DEC-006D	DEC-006D	DEC-006D	DEC-006D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			07/21/08	11/04/09	06/20/11	10/22/11	03/26/12
Parameter	Units	Criteria*					
Miscellaneous Parameters							
Sulfate (as SO ₄)	MG/L	250	NA	NA	NA	96.2	100
Sulfide	MG/L	0.05	NA	NA	NA	NA	
Total Organic Carbon (TOC)	MG/L	-	NA	NA	NA	0.85 J	NA
Dissolved Gases							
Ethane	UG/L	-	NA	NA	NA		NA
Ethene	UG/L	-	NA	NA	NA		NA
Methane	UG/L	-	NA	NA	NA		NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-006DD	DEC-006DD	DEC-006DD	DEC-006DD	DEC-007
Sample ID			DEC-006DD	DUP-062011	DEC-006DD	DEC-006DD	DEC-007
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/20/11	06/20/11	10/22/11	03/26/12	12/20/07
Parameter	Units	Criteria*		Field Duplicate (1-1)			
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-			NA		NA
1,1,1-Trichloroethane	UG/L	5	13	13		9.1 J	
1,1,2-Trichloroethane	UG/L	1					
1,1-Dichloroethane	UG/L	5	5.4	5.0			15
1,1-Dichloroethene	UG/L	5	69 J	72 J	12	40	1.6 J
1,2,3-Trichlorobenzene	UG/L	-			NA		NA
1,2,3-Trichloropropane	UG/L	-			NA		NA
1,2,4-Trichlorobenzene	UG/L	5					
1,2,4-Trimethylbenzene	UG/L	-			NA		NA
1,2-Dichlorobenzene	UG/L	3					
1,2-Dichloroethane	UG/L	0.6		1.3 J			
1,2-Dichloroethene (cis)	UG/L	5	16	16		11 J	54
1,2-Dichloroethene (trans)	UG/L	5					
1,2-Dichloropropane	UG/L	1					
1,4-Dichlorobenzene	UG/L	3					
Acetone	UG/L	50					
Benzene	UG/L	1					
Carbon disulfide	UG/L	60					
Carbon tetrachloride	UG/L	5					
Chloroethane	UG/L	5					
Chloroform	UG/L	7					5.9
Chloromethane	UG/L	5					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-006DD	DEC-006DD	DEC-006DD	DEC-006DD	DEC-007
Sample ID			DEC-006DD	DUP-062011	DEC-006DD	DEC-006DD	DEC-007
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/20/11	06/20/11	10/22/11	03/26/12	12/20/07
Parameter	Units	Criteria*		Field Duplicate (1-1)			
Volatile Organic Compounds							
Cyclohexane	UG/L	-					
Ethylbenzene	UG/L	5					
Isopropylbenzene (Cumene)	UG/L	5					
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Methyl tert-butyl ether	UG/L	10	2.6 J	2.6 J			
Methylcyclohexane	UG/L	-					
Methylene chloride	UG/L	5					
Naphthalene	UG/L	-			NA		NA
sec-Butylbenzene	UG/L	-			NA		NA
Tetrachloroethene	UG/L	5	410 D	420 D	440	320	2,600 D
Toluene	UG/L	5					
Trichloroethene	UG/L	5	210 D	210 D	120	220	81
Trichlorofluoromethane	UG/L	5					
Vinyl chloride	UG/L	2					
Xylene (total)	UG/L	5					
Semivolatile Organic Compounds							
1,1-Biphenyl	UG/L	-	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	-	NA	NA	NA	NA	NA
Carbazole	UG/L	50	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	50	NA	NA	NA	NA	NA
Naphthalene	UG/L	10	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-006DD	DEC-006DD	DEC-006DD	DEC-006DD	DEC-007
Sample ID			DEC-006DD	DUP-062011	DEC-006DD	DEC-006DD	DEC-007
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/20/11	06/20/11	10/22/11	03/26/12	12/20/07
Parameter	Units	Criteria*		Field Duplicate (1-1)			
Pesticide Organic Compounds							
gamma-BHC (Lindane)	UG/L	-	NA	NA	NA	NA	NA
Metals							
Aluminum	UG/L	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	NA	NA	NA	NA	NA
Calcium	UG/L	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	NA	NA	NA	NA	NA
Cobalt	UG/L	-	NA	NA	NA	NA	NA
Iron	UG/L	300	NA	NA	64.0	NA	NA
Magnesium	UG/L	35000	NA	NA	NA	NA	NA
Manganese	UG/L	300	NA	NA	NA	NA	NA
Nickel	UG/L	100	NA	NA	NA	NA	NA
Potassium	UG/L	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	NA	NA	NA	NA	NA
Vanadium	UG/L	-	NA	NA	NA	NA	NA
Zinc	UG/L	2000	NA	NA	NA	NA	NA
Dissolved Metals							
Iron	UG/L	300	NA	NA	34.0 J	NA	NA
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	NA	NA	132	120	NA
Chloride	MG/L	250	NA	NA	189	160	NA
Nitrate-Nitrite	MG/L	10	NA	NA	8.0	4.60	NA
Phosphorous, Total (as P)	MG/L	-	NA	NA	NA	0.39	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-006DD	DEC-006DD	DEC-006DD	DEC-006DD	DEC-007
Sample ID			DEC-006DD	DUP-062011	DEC-006DD	DEC-006DD	DEC-007
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/20/11	06/20/11	10/22/11	03/26/12	12/20/07
Parameter	Units	Criteria*		Field Duplicate (1-1)			
Miscellaneous Parameters							
Sulfate (as SO ₄)	MG/L	250	NA	NA	165	160	NA
Sulfide	MG/L	0.05	NA	NA	NA		NA
Total Organic Carbon (TOC)	MG/L	-	NA	NA	0.73 J	NA	NA
Dissolved Gases							
Ethane	UG/L	-	NA	NA		NA	NA
Ethene	UG/L	-	NA	NA		NA	NA
Methane	UG/L	-	NA	NA		NA	NA

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-007	DEC-007	DEC-007	DEC-007	DEC-007
Sample ID			072108-FD-1	DEC-007	DEC-007	DEC-007	DEC-007
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			07/21/08	07/21/08	11/06/09	06/21/11	10/21/11
Parameter	Units	Criteria*	Field Duplicate (1-1)				
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-	NA	NA	NA		NA
1,1,1-Trichloroethane	UG/L	5					
1,1,2-Trichloroethane	UG/L	1					
1,1-Dichloroethane	UG/L	5				2.8 J	
1,1-Dichloroethene	UG/L	5					
1,2,3-Trichlorobenzene	UG/L	-	NA	NA	NA		NA
1,2,3-Trichloropropane	UG/L	-	NA	NA	NA		NA
1,2,4-Trichlorobenzene	UG/L	5					
1,2,4-Trimethylbenzene	UG/L	-	NA	NA	NA		NA
1,2-Dichlorobenzene	UG/L	3					
1,2-Dichloroethane	UG/L	0.6					
1,2-Dichloroethene (cis)	UG/L	5	32	33	40	7.9	
1,2-Dichloroethene (trans)	UG/L	5					
1,2-Dichloropropane	UG/L	1					
1,4-Dichlorobenzene	UG/L	3					
Acetone	UG/L	50					
Benzene	UG/L	1					
Carbon disulfide	UG/L	60					
Carbon tetrachloride	UG/L	5					
Chloroethane	UG/L	5					
Chloroform	UG/L	7				2.7 J	
Chloromethane	UG/L	5					

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FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-007	DEC-007	DEC-007	DEC-007	DEC-007
Sample ID			072108-FD-1	DEC-007	DEC-007	DEC-007	DEC-007
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			07/21/08	07/21/08	11/06/09	06/21/11	10/21/11
Parameter	Units	Criteria*	Field Duplicate (1-1)				
Volatile Organic Compounds							
Cyclohexane	UG/L	-					
Ethylbenzene	UG/L	5					
Isopropylbenzene (Cumene)	UG/L	5					
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Methyl tert-butyl ether	UG/L	10					
Methylcyclohexane	UG/L	-					
Methylene chloride	UG/L	5					
Naphthalene	UG/L	-	NA	NA	NA		NA
sec-Butylbenzene	UG/L	-	NA	NA	NA		NA
Tetrachloroethene	UG/L	5	1,100	1,400	1,300	1,200 D	1,400 J
Toluene	UG/L	5					
Trichloroethene	UG/L	5	46	45	53	25	21 J
Trichlorofluoromethane	UG/L	5					
Vinyl chloride	UG/L	2					
Xylene (total)	UG/L	5					
Semivolatile Organic Compounds							
1,1-Biphenyl	UG/L	-	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	-	NA	NA	NA	NA	NA
Carbazole	UG/L	50	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	50	NA	NA	NA	NA	NA
Naphthalene	UG/L	10	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-007	DEC-007	DEC-007	DEC-007	DEC-007
Sample ID			072108-FD-1	DEC-007	DEC-007	DEC-007	DEC-007
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			07/21/08	07/21/08	11/06/09	06/21/11	10/21/11
Parameter	Units	Criteria*	Field Duplicate (1-1)				
Pesticide Organic Compounds							
gamma-BHC (Lindane)	UG/L	-	NA	NA	NA	NA	NA
Metals							
Aluminum	UG/L	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	NA	NA	NA	NA	NA
Calcium	UG/L	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	NA	NA	NA	NA	NA
Cobalt	UG/L	-	NA	NA	NA	NA	NA
Iron	UG/L	300	NA	NA	NA	NA	3,800
Magnesium	UG/L	35000	NA	NA	NA	NA	NA
Manganese	UG/L	300	NA	NA	NA	NA	NA
Nickel	UG/L	100	NA	NA	NA	NA	NA
Potassium	UG/L	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	NA	NA	NA	NA	NA
Vanadium	UG/L	-	NA	NA	NA	NA	NA
Zinc	UG/L	2000	NA	NA	NA	NA	NA
Dissolved Metals							
Iron	UG/L	300	NA	NA	NA	NA	280
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	NA	NA	NA	NA	158
Chloride	MG/L	250	NA	NA	NA	NA	163
Nitrate-Nitrite	MG/L	10	NA	NA	NA	NA	10.4
Phosphorous, Total (as P)	MG/L	-	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-007	DEC-007	DEC-007	DEC-007	DEC-007
Sample ID			072108-FD-1	DEC-007	DEC-007	DEC-007	DEC-007
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			07/21/08	07/21/08	11/06/09	06/21/11	10/21/11
Parameter	Units	Criteria*	Field Duplicate (1-1)				
Miscellaneous Parameters							
Sulfate (as SO ₄)	MG/L	250	NA	NA	NA	NA	98.3
Sulfide	MG/L	0.05	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	MG/L	-	NA	NA	NA	NA	
Dissolved Gases							
Ethane	UG/L	-	NA	NA	NA	NA	
Ethene	UG/L	-	NA	NA	NA	NA	
Methane	UG/L	-	NA	NA	NA	NA	

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria

- = No standard, criteria or guidance value. Blank cell or ND - Not Detected. NA - Not analyzed.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-007	DEC-007D	DEC-007D	DEC-007D	DEC-008
Sample ID			DEC-007	DEC-007D	DEC-007D	DEC-007D	DEC-08
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/28/12	06/21/11	10/21/11	03/28/12	06/28/07
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-			NA		NA
1,1,1-Trichloroethane	UG/L	5	0.86 J	1.5 J	12 J	0.89 J	
1,1,2-Trichloroethane	UG/L	1					
1,1-Dichloroethane	UG/L	5	4.8 J	1.2 J	4.3	0.91 J	
1,1-Dichloroethene	UG/L	5	1.6 J	4.4 J	43	4.1 J	
1,2,3-Trichlorobenzene	UG/L	-			NA		NA
1,2,3-Trichloropropane	UG/L	-			NA		NA
1,2,4-Trichlorobenzene	UG/L	5					
1,2,4-Trimethylbenzene	UG/L	-			NA		NA
1,2-Dichlorobenzene	UG/L	3					
1,2-Dichloroethane	UG/L	0.6			1.2 J		
1,2-Dichloroethene (cis)	UG/L	5	10	4.8 J	15	4.6 J	
1,2-Dichloroethene (trans)	UG/L	5					
1,2-Dichloropropane	UG/L	1					
1,4-Dichlorobenzene	UG/L	3					
Acetone	UG/L	50					
Benzene	UG/L	1					50
Carbon disulfide	UG/L	60					
Carbon tetrachloride	UG/L	5					
Chloroethane	UG/L	5					
Chloroform	UG/L	7	3.2 J				
Chloromethane	UG/L	5					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-007	DEC-007D	DEC-007D	DEC-007D	DEC-008
Sample ID			DEC-007	DEC-007D	DEC-007D	DEC-007D	DEC-008
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/28/12	06/21/11	10/21/11	03/28/12	06/28/07
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Cyclohexane	UG/L	-					11
Ethylbenzene	UG/L	5					1.7
Isopropylbenzene (Cumene)	UG/L	5					
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Methyl tert-butyl ether	UG/L	10	1.3 J		0.55 J		
Methylcyclohexane	UG/L	-					1.5 J
Methylene chloride	UG/L	5					
Naphthalene	UG/L	-			NA		NA
sec-Butylbenzene	UG/L	-			NA		NA
Tetrachloroethene	UG/L	5	830 DJ	340 D	400 D	190 DJ	
Toluene	UG/L	5					8.6
Trichloroethene	UG/L	5	39	26	280 D	39	1.0 J
Trichlorofluoromethane	UG/L	5					
Vinyl chloride	UG/L	2					
Xylene (total)	UG/L	5					17
Semivolatile Organic Compounds							
1,1-Biphenyl	UG/L	-	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	-	NA	NA	NA	NA	NA
Carbazole	UG/L	50	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	50	NA	NA	NA	NA	NA
Naphthalene	UG/L	10	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-007	DEC-007D	DEC-007D	DEC-007D	DEC-008
Sample ID			DEC-007	DEC-007D	DEC-007D	DEC-007D	DEC-08
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/28/12	06/21/11	10/21/11	03/28/12	06/28/07
Parameter	Units	Criteria*					
Pesticide Organic Compounds							
gamma-BHC (Lindane)	UG/L	-	NA	NA	NA	NA	NA
Metals							
Aluminum	UG/L	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	NA	NA	NA	NA	NA
Calcium	UG/L	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	NA	NA	NA	NA	NA
Cobalt	UG/L	-	NA	NA	NA	NA	NA
Iron	UG/L	300	NA	NA	220	NA	NA
Magnesium	UG/L	35000	NA	NA	NA	NA	NA
Manganese	UG/L	300	NA	NA	NA	NA	NA
Nickel	UG/L	100	NA	NA	NA	NA	NA
Potassium	UG/L	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	NA	NA	NA	NA	NA
Vanadium	UG/L	-	NA	NA	NA	NA	NA
Zinc	UG/L	2000	NA	NA	NA	NA	NA
Dissolved Metals							
Iron	UG/L	300	NA	NA	36.0 J	NA	NA
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	180	NA	170	240	NA
Chloride	MG/L	250	130	NA	227	230	NA
Nitrate-Nitrite	MG/L	10	8.28	NA	7.8	5.58	NA
Phosphorous, Total (as P)	MG/L	-	0.13	NA	NA	0.14	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-007	DEC-007D	DEC-007D	DEC-007D	DEC-008
Sample ID			DEC-007	DEC-007D	DEC-007D	DEC-007D	DEC-08
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/28/12	06/21/11	10/21/11	03/28/12	06/28/07
Parameter	Units	Criteria*					
Miscellaneous Parameters							
Sulfate (as SO ₄)	MG/L	250	90	NA	162	130	NA
Sulfide	MG/L	0.05		NA	NA		NA
Total Organic Carbon (TOC)	MG/L	-	NA	NA	1.3	NA	NA
Dissolved Gases							
Ethane	UG/L	-	NA	NA		NA	NA
Ethene	UG/L	-	NA	NA		NA	NA
Methane	UG/L	-	NA	NA	1.4	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-008	DEC-008	DEC-008	DEC-008	DEC-008
Sample ID			DEC-008	DEC-008	DEC-008	DEC-008	DEC-008
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			12/12/07	07/18/08	09/24/09	11/09/09	06/23/11
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-	NA	NA	NA	NA	
1,1,1-Trichloroethane	UG/L	5		4.4	NA		1.8 J
1,1,2-Trichloroethane	UG/L	1			NA		
1,1-Dichloroethane	UG/L	5	5.4	3.0	NA		3.4 J
1,1-Dichloroethene	UG/L	5	5.3	1.6	NA		2.0 J
1,2,3-Trichlorobenzene	UG/L	-	NA	NA	NA	NA	
1,2,3-Trichloropropane	UG/L	-	NA	NA	NA	NA	
1,2,4-Trichlorobenzene	UG/L	5			NA		
1,2,4-Trimethylbenzene	UG/L	-	NA	NA	NA	NA	
1,2-Dichlorobenzene	UG/L	3			NA		
1,2-Dichloroethane	UG/L	0.6			NA		
1,2-Dichloroethene (cis)	UG/L	5	34	14	17	15	41 J
1,2-Dichloroethene (trans)	UG/L	5			NA		3.5 J
1,2-Dichloropropane	UG/L	1			NA		
1,4-Dichlorobenzene	UG/L	3			NA		
Acetone	UG/L	50			NA		
Benzene	UG/L	1			NA		
Carbon disulfide	UG/L	60			NA		
Carbon tetrachloride	UG/L	5			NA		
Chloroethane	UG/L	5			NA		
Chloroform	UG/L	7	1.1 J	1.1	NA		1.6 J
Chloromethane	UG/L	5			NA		

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-008	DEC-008	DEC-008	DEC-008	DEC-008
Sample ID			DEC-008	DEC-008	DEC-008	DEC-008	DEC-008
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			12/12/07	07/18/08	09/24/09	11/09/09	06/23/11
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Cyclohexane	UG/L	-			NA		
Ethylbenzene	UG/L	5			NA		
Isopropylbenzene (Cumene)	UG/L	5			NA		
Methyl ethyl ketone (2-Butanone)	UG/L	50			NA		
Methyl tert-butyl ether	UG/L	10	3.2	2.0	NA		1.1 J
Methylcyclohexane	UG/L	-			NA		
Methylene chloride	UG/L	5			NA		
Naphthalene	UG/L	-	NA	NA	NA	NA	
sec-Butylbenzene	UG/L	-	NA	NA	NA	NA	
Tetrachloroethene	UG/L	5	400	450 D	550 D	330	1,300 D
Toluene	UG/L	5			NA		
Trichloroethene	UG/L	5	89	60	59	67	120
Trichlorofluoromethane	UG/L	5			NA	5.2	1.4 J
Vinyl chloride	UG/L	2			NA		19
Xylene (total)	UG/L	5			NA		
Semivolatile Organic Compounds							
1,1-Biphenyl	UG/L	-	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	-	NA	NA	NA	NA	NA
Carbazole	UG/L	50	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	50	NA	NA	NA	NA	NA
Naphthalene	UG/L	10	NA	NA	NA	NA	NA

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Location ID			DEC-008	DEC-008	DEC-008	DEC-008	DEC-008
Sample ID			DEC-008	DEC-008	DEC-008	DEC-008	DEC-008
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			12/12/07	07/18/08	09/24/09	11/09/09	06/23/11
Parameter	Units	Criteria*					
Pesticide Organic Compounds							
gamma-BHC (Lindane)	UG/L	-	NA	NA	NA	NA	NA
Metals							
Aluminum	UG/L	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	NA	NA	NA	NA	NA
Calcium	UG/L	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	NA	NA	NA	NA	NA
Cobalt	UG/L	-	NA	NA	NA	NA	NA
Iron	UG/L	300	NA	NA	NA	NA	NA
Magnesium	UG/L	35000	NA	NA	NA	NA	NA
Manganese	UG/L	300	NA	NA	NA	NA	NA
Nickel	UG/L	100	NA	NA	NA	NA	NA
Potassium	UG/L	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	NA	NA	NA	NA	NA
Vanadium	UG/L	-	NA	NA	NA	NA	NA
Zinc	UG/L	2000	NA	NA	NA	NA	NA
Dissolved Metals							
Iron	UG/L	300	NA	NA	NA	NA	NA
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	NA	NA	NA	NA	NA
Chloride	MG/L	250	NA	NA	NA	NA	NA
Nitrate-Nitrite	MG/L	10	NA	NA	NA	NA	NA
Phosphorous, Total (as P)	MG/L	-	NA	NA	NA	NA	NA

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FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-008	DEC-008	DEC-008	DEC-008	DEC-008
Sample ID			DEC-008	DEC-008	DEC-008	DEC-008	DEC-008
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			12/12/07	07/18/08	09/24/09	11/09/09	06/23/11
Parameter	Units	Criteria*					
Miscellaneous Parameters							
Sulfate (as SO ₄)	MG/L	250	NA	NA	NA	NA	NA
Sulfide	MG/L	0.05	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	MG/L	-	NA	NA	NA	NA	NA
Dissolved Gases							
Ethane	UG/L	-	NA	NA	NA	NA	NA
Ethene	UG/L	-	NA	NA	NA	NA	NA
Methane	UG/L	-	NA	NA	NA	NA	NA

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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-008	DEC-008	DEC-009	DEC-009	DEC-009
Sample ID			DEC-008	DEC-008	DEC-09	DEC-009	DEC-009
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			10/23/11	03/30/12	06/22/07	12/20/07	07/17/08
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-	NA		NA	NA	NA
1,1,1-Trichloroethane	UG/L	5	2.2 J				6.6 J
1,1,2-Trichloroethane	UG/L	1					
1,1-Dichloroethane	UG/L	5	2.5		8.2	7.9	7.1
1,1-Dichloroethene	UG/L	5	0.94 J		20	10	9.1
1,2,3-Trichlorobenzene	UG/L	-	NA		NA	NA	NA
1,2,3-Trichloropropane	UG/L	-	NA		NA	NA	NA
1,2,4-Trichlorobenzene	UG/L	5					
1,2,4-Trimethylbenzene	UG/L	-	NA		NA	NA	NA
1,2-Dichlorobenzene	UG/L	3					
1,2-Dichloroethane	UG/L	0.6			1.2 J	1.5 J	1.3
1,2-Dichloroethene (cis)	UG/L	5	39	22 J	45	41	51
1,2-Dichloroethene (trans)	UG/L	5	2.5		1.5 J	1.3 J	1.5
1,2-Dichloropropane	UG/L	1					
1,4-Dichlorobenzene	UG/L	3					
Acetone	UG/L	50					
Benzene	UG/L	1					
Carbon disulfide	UG/L	60					
Carbon tetrachloride	UG/L	5					
Chloroethane	UG/L	5					1.3
Chloroform	UG/L	7					
Chloromethane	UG/L	5					

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FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-008	DEC-008	DEC-009	DEC-009	DEC-009
Sample ID			DEC-008	DEC-008	DEC-09	DEC-009	DEC-009
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			10/23/11	03/30/12	06/22/07	12/20/07	07/17/08
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Cyclohexane	UG/L	-					
Ethylbenzene	UG/L	5					
Isopropylbenzene (Cumene)	UG/L	5					
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Methyl tert-butyl ether	UG/L	10	0.50 J		1.8	1.6 J	2.0
Methylcyclohexane	UG/L	-					
Methylene chloride	UG/L	5					
Naphthalene	UG/L	-	NA		NA	NA	NA
sec-Butylbenzene	UG/L	-	NA		NA	NA	NA
Tetrachloroethene	UG/L	5	3,000 D	1,300 J	62	39	47
Toluene	UG/L	5					
Trichloroethene	UG/L	5	170 D	83 J	81	100	95
Trichlorofluoromethane	UG/L	5					
Vinyl chloride	UG/L	2	1.7		25	25	28
Xylene (total)	UG/L	5					
Semivolatile Organic Compounds							
1,1-Biphenyl	UG/L	-	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	-	NA	NA	NA	NA	NA
Carbazole	UG/L	50	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	50	NA	NA	NA	NA	NA
Naphthalene	UG/L	10	NA	NA	NA	NA	NA

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FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-008	DEC-008	DEC-009	DEC-009	DEC-009
Sample ID			DEC-008	DEC-008	DEC-09	DEC-009	DEC-009
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			10/23/11	03/30/12	06/22/07	12/20/07	07/17/08
Parameter	Units	Criteria*					
Pesticide Organic Compounds							
gamma-BHC (Lindane)	UG/L	-	NA	NA	NA	NA	NA
Metals							
Aluminum	UG/L	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	NA	NA	NA	NA	NA
Calcium	UG/L	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	NA	NA	NA	NA	NA
Cobalt	UG/L	-	NA	NA	NA	NA	NA
Iron	UG/L	300	940	NA	NA	NA	NA
Magnesium	UG/L	35000	NA	NA	NA	NA	NA
Manganese	UG/L	300	NA	NA	NA	NA	NA
Nickel	UG/L	100	NA	NA	NA	NA	NA
Potassium	UG/L	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	NA	NA	NA	NA	NA
Vanadium	UG/L	-	NA	NA	NA	NA	NA
Zinc	UG/L	2000	NA	NA	NA	NA	NA
Dissolved Metals							
Iron	UG/L	300	140	NA	NA	NA	NA
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	252	260	NA	NA	NA
Chloride	MG/L	250	309	280	NA	NA	NA
Nitrate-Nitrite	MG/L	10	10.3	9.44	NA	NA	NA
Phosphorous, Total (as P)	MG/L	-	NA	0.13	NA	NA	NA

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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-008	DEC-008	DEC-009	DEC-009	DEC-009
Sample ID			DEC-008	DEC-008	DEC-09	DEC-009	DEC-009
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			10/23/11	03/30/12	06/22/07	12/20/07	07/17/08
Parameter	Units	Criteria*					
Miscellaneous Parameters							
Sulfate (as SO ₄)	MG/L	250	145	110	NA	NA	NA
Sulfide	MG/L	0.05	NA		NA	NA	NA
Total Organic Carbon (TOC)	MG/L	-	1.4	NA	NA	NA	NA
Dissolved Gases							
Ethane	UG/L	-	2.0	NA	NA	NA	NA
Ethene	UG/L	-		NA	NA	NA	NA
Methane	UG/L	-	9.2	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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Concentration Exceeds Criteria

- = No standard, criteria or guidance value. Blank cell or ND - Not Detected. NA - Not analyzed.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-009	DEC-009	DEC-009	DEC-010	DEC-010
Sample ID			DEC-009	DEC-009	DEC-009	DEC-010	DEC-010
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/23/11	10/20/11	03/28/12	06/22/07	12/19/07
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-		NA		NA	NA
1,1,1-Trichloroethane	UG/L	5			2.1 J		
1,1,2-Trichloroethane	UG/L	1					
1,1-Dichloroethane	UG/L	5	6.5	4.2 J	5.6	27	29
1,1-Dichloroethene	UG/L	5	5.1	2.9 J	4.3 J	39	28
1,2,3-Trichlorobenzene	UG/L	-		NA		NA	NA
1,2,3-Trichloropropane	UG/L	-		NA		NA	NA
1,2,4-Trichlorobenzene	UG/L	5					
1,2,4-Trimethylbenzene	UG/L	-		NA		NA	NA
1,2-Dichlorobenzene	UG/L	3					
1,2-Dichloroethane	UG/L	0.6				2.4 J	2.4 J
1,2-Dichloroethene (cis)	UG/L	5	51	28	36	9.3	8.9
1,2-Dichloroethene (trans)	UG/L	5					
1,2-Dichloropropane	UG/L	1					
1,4-Dichlorobenzene	UG/L	3					
Acetone	UG/L	50					
Benzene	UG/L	1					
Carbon disulfide	UG/L	60					
Carbon tetrachloride	UG/L	5					
Chloroethane	UG/L	5					
Chloroform	UG/L	7				1.3 J	1.0 J
Chloromethane	UG/L	5					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-009	DEC-009	DEC-009	DEC-010	DEC-010
Sample ID			DEC-009	DEC-009	DEC-009	DEC-10	DEC-010
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/23/11	10/20/11	03/28/12	06/22/07	12/19/07
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Cyclohexane	UG/L	-					
Ethylbenzene	UG/L	5					
Isopropylbenzene (Cumene)	UG/L	5					
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Methyl tert-butyl ether	UG/L	10	1.1 J	0.92 J			
Methylcyclohexane	UG/L	-					
Methylene chloride	UG/L	5					
Naphthalene	UG/L	-		NA		NA	NA
sec-Butylbenzene	UG/L	-	3.0 J	NA		NA	NA
Tetrachloroethene	UG/L	5	180	100 J	130 J	47	28
Toluene	UG/L	5					
Trichloroethene	UG/L	5	70	57	59	90	89
Trichlorofluoromethane	UG/L	5					
Vinyl chloride	UG/L	2	54	36	37		
Xylene (total)	UG/L	5					
Semivolatile Organic Compounds							
1,1-Biphenyl	UG/L	-	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	-	NA	NA	NA	NA	NA
Carbazole	UG/L	50	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	50	NA	NA	NA	NA	NA
Naphthalene	UG/L	10	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-009	DEC-009	DEC-009	DEC-010	DEC-010
Sample ID			DEC-009	DEC-009	DEC-009	DEC-010	DEC-010
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/23/11	10/20/11	03/28/12	06/22/07	12/19/07
Parameter	Units	Criteria*					
Pesticide Organic Compounds							
gamma-BHC (Lindane)	UG/L	-	NA	NA	NA	NA	NA
Metals							
Aluminum	UG/L	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	NA	NA	NA	NA	NA
Calcium	UG/L	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	NA	NA	NA	NA	NA
Cobalt	UG/L	-	NA	NA	NA	NA	NA
Iron	UG/L	300	NA	7,700	NA	NA	NA
Magnesium	UG/L	35000	NA	NA	NA	NA	NA
Manganese	UG/L	300	NA	NA	NA	NA	NA
Nickel	UG/L	100	NA	NA	NA	NA	NA
Potassium	UG/L	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	NA	NA	NA	NA	NA
Vanadium	UG/L	-	NA	NA	NA	NA	NA
Zinc	UG/L	2000	NA	NA	NA	NA	NA
Dissolved Metals							
Iron	UG/L	300	NA	4,500	NA	NA	NA
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	NA	248	220	NA	NA
Chloride	MG/L	250	NA	225	220	NA	NA
Nitrate-Nitrite	MG/L	10	NA	0.15	6.68	NA	NA
Phosphorous, Total (as P)	MG/L	-	NA	NA	0.28	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-009	DEC-009	DEC-009	DEC-010	DEC-010
Sample ID			DEC-009	DEC-009	DEC-009	DEC-10	DEC-010
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/23/11	10/20/11	03/28/12	06/22/07	12/19/07
Parameter	Units	Criteria*					
Miscellaneous Parameters							
Sulfate (as SO ₄)	MG/L	250	NA	156	140	NA	NA
Sulfide	MG/L	0.05	NA	NA		NA	NA
Total Organic Carbon (TOC)	MG/L	-	NA	2.8	NA	NA	NA
Dissolved Gases							
Ethane	UG/L	-	NA	2.2	NA	NA	NA
Ethene	UG/L	-	NA	4.2	NA	NA	NA
Methane	UG/L	-	NA	26	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-010	DEC-010	DEC-010	DEC-011	DEC-011
Sample ID			DEC-010	DEC-010	DEC-010	DEC-11	DEC-011
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/21/11	10/20/11	03/30/12	06/21/07	12/19/07
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-		NA		NA	NA
1,1,1-Trichloroethane	UG/L	5					
1,1,2-Trichloroethane	UG/L	1					
1,1-Dichloroethane	UG/L	5	28	29	32		
1,1-Dichloroethene	UG/L	5	25	28	27		
1,2,3-Trichlorobenzene	UG/L	-		NA		NA	NA
1,2,3-Trichloropropane	UG/L	-		NA		NA	NA
1,2,4-Trichlorobenzene	UG/L	5					
1,2,4-Trimethylbenzene	UG/L	-		NA		NA	NA
1,2-Dichlorobenzene	UG/L	3					
1,2-Dichloroethane	UG/L	0.6		2.0 J	2.1 J		
1,2-Dichloroethene (cis)	UG/L	5	8.5	11	8.1		
1,2-Dichloroethene (trans)	UG/L	5					
1,2-Dichloropropane	UG/L	1					
1,4-Dichlorobenzene	UG/L	3					
Acetone	UG/L	50					
Benzene	UG/L	1					
Carbon disulfide	UG/L	60					
Carbon tetrachloride	UG/L	5					
Chloroethane	UG/L	5					
Chloroform	UG/L	7					1.2 J
Chloromethane	UG/L	5					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-010	DEC-010	DEC-010	DEC-011	DEC-011
Sample ID			DEC-010	DEC-010	DEC-010	DEC-11	DEC-011
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/21/11	10/20/11	03/30/12	06/21/07	12/19/07
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Cyclohexane	UG/L	-					
Ethylbenzene	UG/L	5					
Isopropylbenzene (Cumene)	UG/L	5					
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Methyl tert-butyl ether	UG/L	10		0.91 J			
Methylcyclohexane	UG/L	-					
Methylene chloride	UG/L	5					2.2 J
Naphthalene	UG/L	-		NA		NA	NA
sec-Butylbenzene	UG/L	-		NA		NA	NA
Tetrachloroethene	UG/L	5	20	15	19 J	12	12
Toluene	UG/L	5					
Trichloroethene	UG/L	5	87	76	79	27	33
Trichlorofluoromethane	UG/L	5					
Vinyl chloride	UG/L	2					
Xylene (total)	UG/L	5					
Semivolatile Organic Compounds							
1,1-Biphenyl	UG/L	-	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	-	NA	NA	NA	NA	NA
Carbazole	UG/L	50	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	50	NA	NA	NA	NA	NA
Naphthalene	UG/L	10	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-010	DEC-010	DEC-010	DEC-011	DEC-011
Sample ID			DEC-010	DEC-010	DEC-010	DEC-11	DEC-011
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/21/11	10/20/11	03/30/12	06/21/07	12/19/07
Parameter	Units	Criteria*					
Pesticide Organic Compounds							
gamma-BHC (Lindane)	UG/L	-	NA	NA	NA	NA	NA
Metals							
Aluminum	UG/L	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	NA	NA	NA	NA	NA
Calcium	UG/L	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	NA	NA	NA	NA	NA
Cobalt	UG/L	-	NA	NA	NA	NA	NA
Iron	UG/L	300	NA		NA	NA	NA
Magnesium	UG/L	35000	NA	NA	NA	NA	NA
Manganese	UG/L	300	NA	NA	NA	NA	NA
Nickel	UG/L	100	NA	NA	NA	NA	NA
Potassium	UG/L	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	NA	NA	NA	NA	NA
Vanadium	UG/L	-	NA	NA	NA	NA	NA
Zinc	UG/L	2000	NA	NA	NA	NA	NA
Dissolved Metals							
Iron	UG/L	300	NA	29.0 J	NA	NA	NA
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	NA	103	100	NA	NA
Chloride	MG/L	250	NA	229	220	NA	NA
Nitrate-Nitrite	MG/L	10	NA	3.4	3.60	NA	NA
Phosphorous, Total (as P)	MG/L	-	NA	NA	0.10	NA	NA

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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-010	DEC-010	DEC-010	DEC-011	DEC-011
Sample ID			DEC-010	DEC-010	DEC-010	DEC-11	DEC-011
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/21/11	10/20/11	03/30/12	06/21/07	12/19/07
Parameter	Units	Criteria*					
Miscellaneous Parameters							
Sulfate (as SO ₄)	MG/L	250	NA	406	380	NA	NA
Sulfide	MG/L	0.05	NA	NA		NA	NA
Total Organic Carbon (TOC)	MG/L	-	NA		NA	NA	NA
Dissolved Gases							
Ethane	UG/L	-	NA		NA	NA	NA
Ethene	UG/L	-	NA		NA	NA	NA
Methane	UG/L	-	NA	0.58 J	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-011	DEC-011	DEC-011	DEC-011D	DEC-012
Sample ID			DEC-011	DEC-011	DEC-011	DEC-011D	DEC-12
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/21/11	10/21/11	03/30/12	03/30/12	06/21/07
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-		NA			NA
1,1,1-Trichloroethane	UG/L	5					
1,1,2-Trichloroethane	UG/L	1					
1,1-Dichloroethane	UG/L	5					
1,1-Dichloroethene	UG/L	5					
1,2,3-Trichlorobenzene	UG/L	-		NA			NA
1,2,3-Trichloropropane	UG/L	-		NA			NA
1,2,4-Trichlorobenzene	UG/L	5					
1,2,4-Trimethylbenzene	UG/L	-		NA			NA
1,2-Dichlorobenzene	UG/L	3					
1,2-Dichloroethane	UG/L	0.6					
1,2-Dichloroethene (cis)	UG/L	5					1.5 J
1,2-Dichloroethene (trans)	UG/L	5					
1,2-Dichloropropane	UG/L	1					
1,4-Dichlorobenzene	UG/L	3					
Acetone	UG/L	50					
Benzene	UG/L	1					
Carbon disulfide	UG/L	60					
Carbon tetrachloride	UG/L	5					
Chloroethane	UG/L	5					
Chloroform	UG/L	7				3.1 J	
Chloromethane	UG/L	5					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-011	DEC-011	DEC-011	DEC-011D	DEC-012
Sample ID			DEC-011	DEC-011	DEC-011	DEC-011D	DEC-12
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/21/11	10/21/11	03/30/12	03/30/12	06/21/07
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Cyclohexane	UG/L	-					
Ethylbenzene	UG/L	5					
Isopropylbenzene (Cumene)	UG/L	5					
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Methyl tert-butyl ether	UG/L	10					
Methylcyclohexane	UG/L	-					
Methylene chloride	UG/L	5					
Naphthalene	UG/L	-		NA			NA
sec-Butylbenzene	UG/L	-		NA			NA
Tetrachloroethene	UG/L	5	13 J	6.5	5.8 J	1.9 J	680 D
Toluene	UG/L	5					
Trichloroethene	UG/L	5	17 J	25	15	5.5	13
Trichlorofluoromethane	UG/L	5					
Vinyl chloride	UG/L	2					
Xylene (total)	UG/L	5					
Semivolatile Organic Compounds							
1,1-Biphenyl	UG/L	-	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	-	NA	NA	NA	NA	NA
Carbazole	UG/L	50	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	50	NA	NA	NA	NA	NA
Naphthalene	UG/L	10	NA	NA	NA	NA	NA

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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-011	DEC-011	DEC-011	DEC-011D	DEC-012
Sample ID			DEC-011	DEC-011	DEC-011	DEC-011D	DEC-12
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/21/11	10/21/11	03/30/12	03/30/12	06/21/07
Parameter	Units	Criteria*					
Pesticide Organic Compounds							
gamma-BHC (Lindane)	UG/L	-	NA	NA	NA	NA	NA
Metals							
Aluminum	UG/L	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	NA	NA	NA	NA	NA
Calcium	UG/L	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	NA	NA	NA	NA	NA
Cobalt	UG/L	-	NA	NA	NA	NA	NA
Iron	UG/L	300	NA	200	NA	NA	NA
Magnesium	UG/L	35000	NA	NA	NA	NA	NA
Manganese	UG/L	300	NA	NA	NA	NA	NA
Nickel	UG/L	100	NA	NA	NA	NA	NA
Potassium	UG/L	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	NA	NA	NA	NA	NA
Vanadium	UG/L	-	NA	NA	NA	NA	NA
Zinc	UG/L	2000	NA	NA	NA	NA	NA
Dissolved Metals							
Iron	UG/L	300	NA	24.0 J	NA	NA	NA
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	NA	113	150	150	NA
Chloride	MG/L	250	NA	611	380	53	NA
Nitrate-Nitrite	MG/L	10	NA	7.4	5.82	1.49	NA
Phosphorous, Total (as P)	MG/L	-	NA	NA	0.12	0.094	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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Concentration Exceeds Criteria

- = No standard, criteria or guidance value. Blank cell or ND - Not Detected. NA - Not analyzed.

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Only Detected Results Reported.

TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-011	DEC-011	DEC-011	DEC-011D	DEC-012
Sample ID			DEC-011	DEC-011	DEC-011	DEC-011D	DEC-12
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/21/11	10/21/11	03/30/12	03/30/12	06/21/07
Parameter	Units	Criteria*					
Miscellaneous Parameters							
Sulfate (as SO ₄)	MG/L	250	NA	49.6	53	29	NA
Sulfide	MG/L	0.05	NA	NA		0.10	NA
Total Organic Carbon (TOC)	MG/L	-	NA		NA	NA	NA
Dissolved Gases							
Ethane	UG/L	-	NA		NA	NA	NA
Ethene	UG/L	-	NA		NA	NA	NA
Methane	UG/L	-	NA		NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-012	DEC-012	DEC-012	DEC-012	DEC-012
Sample ID			DEC-12	DEC-012	DEC-012	DEC-012	DEC-012
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			12/21/07	07/21/08	11/04/09	06/22/11	03/29/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-	NA	NA	NA		
1,1,1-Trichloroethane	UG/L	5					
1,1,2-Trichloroethane	UG/L	1					
1,1-Dichloroethane	UG/L	5					
1,1-Dichloroethene	UG/L	5					1.1 J
1,2,3-Trichlorobenzene	UG/L	-	NA	NA	NA		
1,2,3-Trichloropropane	UG/L	-	NA	NA	NA		
1,2,4-Trichlorobenzene	UG/L	5					
1,2,4-Trimethylbenzene	UG/L	-	NA	NA	NA		
1,2-Dichlorobenzene	UG/L	3					
1,2-Dichloroethane	UG/L	0.6					
1,2-Dichloroethene (cis)	UG/L	5	18				0.90 J
1,2-Dichloroethene (trans)	UG/L	5					
1,2-Dichloropropane	UG/L	1					
1,4-Dichlorobenzene	UG/L	3					
Acetone	UG/L	50					
Benzene	UG/L	1					
Carbon disulfide	UG/L	60					
Carbon tetrachloride	UG/L	5					
Chloroethane	UG/L	5					
Chloroform	UG/L	7					
Chloromethane	UG/L	5					

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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-012	DEC-012	DEC-012	DEC-012	DEC-012
Sample ID			DEC-12	DEC-012	DEC-012	DEC-012	DEC-012
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			12/21/07	07/21/08	11/04/09	06/22/11	03/29/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Cyclohexane	UG/L	-					
Ethylbenzene	UG/L	5					
Isopropylbenzene (Cumene)	UG/L	5					
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Methyl tert-butyl ether	UG/L	10	1.2				
Methylcyclohexane	UG/L	-					
Methylene chloride	UG/L	5					
Naphthalene	UG/L	-	NA	NA	NA		
sec-Butylbenzene	UG/L	-	NA	NA	NA		
Tetrachloroethene	UG/L	5	1,200 D	950	700	270 D	270 DJ
Toluene	UG/L	5					
Trichloroethene	UG/L	5	29		12	3.9 J	8.9
Trichlorofluoromethane	UG/L	5					
Vinyl chloride	UG/L	2					
Xylene (total)	UG/L	5					
Semivolatile Organic Compounds							
1,1-Biphenyl	UG/L	-	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	-	NA	NA	NA	NA	NA
Carbazole	UG/L	50	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	50	NA	NA	NA	NA	NA
Naphthalene	UG/L	10	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-012	DEC-012	DEC-012	DEC-012	DEC-012
Sample ID			DEC-12	DEC-012	DEC-012	DEC-012	DEC-012
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			12/21/07	07/21/08	11/04/09	06/22/11	03/29/12
Parameter	Units	Criteria*					
Pesticide Organic Compounds							
gamma-BHC (Lindane)	UG/L	-	NA	NA	NA	NA	NA
Metals							
Aluminum	UG/L	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	NA	NA	NA	NA	NA
Calcium	UG/L	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	NA	NA	NA	NA	NA
Cobalt	UG/L	-	NA	NA	NA	NA	NA
Iron	UG/L	300	NA	NA	NA	NA	NA
Magnesium	UG/L	35000	NA	NA	NA	NA	NA
Manganese	UG/L	300	NA	NA	NA	NA	NA
Nickel	UG/L	100	NA	NA	NA	NA	NA
Potassium	UG/L	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	NA	NA	NA	NA	NA
Vanadium	UG/L	-	NA	NA	NA	NA	NA
Zinc	UG/L	2000	NA	NA	NA	NA	NA
Dissolved Metals							
Iron	UG/L	300	NA	NA	NA	NA	NA
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	NA	NA	NA	NA	140
Chloride	MG/L	250	NA	NA	NA	NA	140
Nitrate-Nitrite	MG/L	10	NA	NA	NA	NA	3.74
Phosphorous, Total (as P)	MG/L	-	NA	NA	NA	NA	0.13

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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-012	DEC-012	DEC-012	DEC-012	DEC-012
Sample ID			DEC-12	DEC-012	DEC-012	DEC-012	DEC-012
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			12/21/07	07/21/08	11/04/09	06/22/11	03/29/12
Parameter	Units	Criteria*					
Miscellaneous Parameters							
Sulfate (as SO ₄)	MG/L	250	NA	NA	NA	NA	71
Sulfide	MG/L	0.05	NA	NA	NA	NA	
Total Organic Carbon (TOC)	MG/L	-	NA	NA	NA	NA	NA
Dissolved Gases							
Ethane	UG/L	-	NA	NA	NA	NA	NA
Ethene	UG/L	-	NA	NA	NA	NA	NA
Methane	UG/L	-	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-013	DEC-013	DEC-013	DEC-013	DEC-013
Sample ID			DEC-013	DEC-013	DEC-013	DEC-013	DUP-062311
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			12/26/07	07/23/08	11/05/09	06/23/11	06/23/11
Parameter	Units	Criteria*					Field Duplicate (1-1)
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-	NA	NA	NA		
1,1,1-Trichloroethane	UG/L	5					
1,1,2-Trichloroethane	UG/L	1					
1,1-Dichloroethane	UG/L	5	7.4			2.3 J	
1,1-Dichloroethene	UG/L	5					
1,2,3-Trichlorobenzene	UG/L	-	NA	NA	NA		
1,2,3-Trichloropropane	UG/L	-	NA	NA	NA	2.3 J	
1,2,4-Trichlorobenzene	UG/L	5					
1,2,4-Trimethylbenzene	UG/L	-	NA	NA	NA		
1,2-Dichlorobenzene	UG/L	3					
1,2-Dichloroethane	UG/L	0.6					
1,2-Dichloroethene (cis)	UG/L	5	100	49	47	13 J	2.5 J
1,2-Dichloroethene (trans)	UG/L	5	1.7 J				
1,2-Dichloropropane	UG/L	1					
1,4-Dichlorobenzene	UG/L	3					
Acetone	UG/L	50					
Benzene	UG/L	1					
Carbon disulfide	UG/L	60					
Carbon tetrachloride	UG/L	5					
Chloroethane	UG/L	5					
Chloroform	UG/L	7	1.1 J				4.8 J
Chloromethane	UG/L	5					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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Location ID			DEC-013	DEC-013	DEC-013	DEC-013	DEC-013
Sample ID			DEC-013	DEC-013	DEC-013	DEC-013	DUP-062311
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			12/26/07	07/23/08	11/05/09	06/23/11	06/23/11
Parameter	Units	Criteria*					Field Duplicate (1-1)
Volatile Organic Compounds							
Cyclohexane	UG/L	-					
Ethylbenzene	UG/L	5					
Isopropylbenzene (Cumene)	UG/L	5					
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Methyl tert-butyl ether	UG/L	10				2.3 J	
Methylcyclohexane	UG/L	-					
Methylene chloride	UG/L	5					
Naphthalene	UG/L	-	NA	NA	NA		
sec-Butylbenzene	UG/L	-	NA	NA	NA	1.9 J	
Tetrachloroethene	UG/L	5	7,800 D	3,600 J	6,400	2,100 D	200 D
Toluene	UG/L	5					
Trichloroethene	UG/L	5	130	140	110	36	27
Trichlorofluoromethane	UG/L	5					
Vinyl chloride	UG/L	2					
Xylene (total)	UG/L	5					
Semivolatile Organic Compounds							
1,1-Biphenyl	UG/L	-	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	-	NA	NA	NA	NA	NA
Carbazole	UG/L	50	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	50	NA	NA	NA	NA	NA
Naphthalene	UG/L	10	NA	NA	NA	NA	NA

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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-013	DEC-013	DEC-013	DEC-013	DEC-013
Sample ID			DEC-013	DEC-013	DEC-013	DEC-013	DUP-062311
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			12/26/07	07/23/08	11/05/09	06/23/11	06/23/11
Parameter	Units	Criteria*					Field Duplicate (1-1)
Pesticide Organic Compounds							
gamma-BHC (Lindane)	UG/L	-	NA	NA	NA	NA	NA
Metals							
Aluminum	UG/L	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	NA	NA	NA	NA	NA
Calcium	UG/L	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	NA	NA	NA	NA	NA
Cobalt	UG/L	-	NA	NA	NA	NA	NA
Iron	UG/L	300	NA	NA	NA	NA	NA
Magnesium	UG/L	35000	NA	NA	NA	NA	NA
Manganese	UG/L	300	NA	NA	NA	NA	NA
Nickel	UG/L	100	NA	NA	NA	NA	NA
Potassium	UG/L	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	NA	NA	NA	NA	NA
Vanadium	UG/L	-	NA	NA	NA	NA	NA
Zinc	UG/L	2000	NA	NA	NA	NA	NA
Dissolved Metals							
Iron	UG/L	300	NA	NA	NA	NA	NA
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	NA	NA	NA	NA	NA
Chloride	MG/L	250	NA	NA	NA	NA	NA
Nitrate-Nitrite	MG/L	10	NA	NA	NA	NA	NA
Phosphorous, Total (as P)	MG/L	-	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-013	DEC-013	DEC-013	DEC-013	DEC-013
Sample ID			DEC-013	DEC-013	DEC-013	DEC-013	DUP-062311
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			12/26/07	07/23/08	11/05/09	06/23/11	06/23/11
Parameter	Units	Criteria*					Field Duplicate (1-1)
Miscellaneous Parameters							
Sulfate (as SO ₄)	MG/L	250	NA	NA	NA	NA	NA
Sulfide	MG/L	0.05	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	MG/L	-	NA	NA	NA	NA	NA
Dissolved Gases							
Ethane	UG/L	-	NA	NA	NA	NA	NA
Ethene	UG/L	-	NA	NA	NA	NA	NA
Methane	UG/L	-	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-013	DEC-013	DEC-013D	DEC-013D	DEC-013D
Sample ID			DEC-013	DEC-013	DEC-013D	DEC-013D	DEC-013D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			10/20/11	03/30/12	06/23/11	10/20/11	03/30/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-	NA			NA	
1,1,1-Trichloroethane	UG/L	5					
1,1,2-Trichloroethane	UG/L	1					
1,1-Dichloroethane	UG/L	5					
1,1-Dichloroethene	UG/L	5					
1,2,3-Trichlorobenzene	UG/L	-	NA			NA	
1,2,3-Trichloropropane	UG/L	-	NA			NA	
1,2,4-Trichlorobenzene	UG/L	5					
1,2,4-Trimethylbenzene	UG/L	-	NA			NA	
1,2-Dichlorobenzene	UG/L	3					
1,2-Dichloroethane	UG/L	0.6					
1,2-Dichloroethene (cis)	UG/L	5		21 J	2.1 J		0.61 J
1,2-Dichloroethene (trans)	UG/L	5					
1,2-Dichloropropane	UG/L	1					
1,4-Dichlorobenzene	UG/L	3					
Acetone	UG/L	50					
Benzene	UG/L	1					
Carbon disulfide	UG/L	60					
Carbon tetrachloride	UG/L	5					
Chloroethane	UG/L	5					
Chloroform	UG/L	7			4.8 J		
Chloromethane	UG/L	5					

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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-013	DEC-013	DEC-013D	DEC-013D	DEC-013D
Sample ID			DEC-013	DEC-013	DEC-013D	DEC-013D	DEC-013D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			10/20/11	03/30/12	06/23/11	10/20/11	03/30/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Cyclohexane	UG/L	-					
Ethylbenzene	UG/L	5					
Isopropylbenzene (Cumene)	UG/L	5					
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Methyl tert-butyl ether	UG/L	10					
Methylcyclohexane	UG/L	-					
Methylene chloride	UG/L	5					
Naphthalene	UG/L	-	NA			NA	
sec-Butylbenzene	UG/L	-	NA			NA	
Tetrachloroethene	UG/L	5	1,800 J	2,500 J	190	53	47 J
Toluene	UG/L	5					
Trichloroethene	UG/L	5	40 J	59 J	24	16	12
Trichlorofluoromethane	UG/L	5					
Vinyl chloride	UG/L	2					
Xylene (total)	UG/L	5					
Semivolatile Organic Compounds							
1,1-Biphenyl	UG/L	-	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	-	NA	NA	NA	NA	NA
Carbazole	UG/L	50	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	50	NA	NA	NA	NA	NA
Naphthalene	UG/L	10	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-013	DEC-013	DEC-013D	DEC-013D	DEC-013D
Sample ID			DEC-013	DEC-013	DEC-013D	DEC-013D	DEC-013D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			10/20/11	03/30/12	06/23/11	10/20/11	03/30/12
Parameter	Units	Criteria*					
Pesticide Organic Compounds							
gamma-BHC (Lindane)	UG/L	-	NA	NA	NA	NA	NA
Metals							
Aluminum	UG/L	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	NA	NA	NA	NA	NA
Calcium	UG/L	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	NA	NA	NA	NA	NA
Cobalt	UG/L	-	NA	NA	NA	NA	NA
Iron	UG/L	300	2,500	NA	NA	540	NA
Magnesium	UG/L	35000	NA	NA	NA	NA	NA
Manganese	UG/L	300	NA	NA	NA	NA	NA
Nickel	UG/L	100	NA	NA	NA	NA	NA
Potassium	UG/L	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	NA	NA	NA	NA	NA
Vanadium	UG/L	-	NA	NA	NA	NA	NA
Zinc	UG/L	2000	NA	NA	NA	NA	NA
Dissolved Metals							
Iron	UG/L	300		NA	NA	490	NA
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	153	190	NA	277	240
Chloride	MG/L	250	52.5	56	NA	273	250
Nitrate-Nitrite	MG/L	10	2.2	1.61	NA	1.8	4.04
Phosphorous, Total (as P)	MG/L	-	NA	0.085	NA	NA	0.044

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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 Concentration Exceeds Criteria

- = No standard, criteria or guidance value. Blank cell or ND - Not Detected. NA - Not analyzed.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

B (metals only) - The reported concentration is above the method detection limit but below the quantitation limit.

Only Detected Results Reported.

TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-013	DEC-013	DEC-013D	DEC-013D	DEC-013D
Sample ID			DEC-013	DEC-013	DEC-013D	DEC-013D	DEC-013D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			10/20/11	03/30/12	06/23/11	10/20/11	03/30/12
Parameter	Units	Criteria*					
Miscellaneous Parameters							
Sulfate (as SO ₄)	MG/L	250	118	78	NA	104	120
Sulfide	MG/L	0.05	NA		NA	NA	
Total Organic Carbon (TOC)	MG/L	-	1.9	NA	NA	4.1	NA
Dissolved Gases							
Ethane	UG/L	-		NA	NA		NA
Ethene	UG/L	-		NA	NA		NA
Methane	UG/L	-		NA	NA	2.9	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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- = No standard, criteria or guidance value. Blank cell or ND - Not Detected. NA - Not analyzed.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-014	DEC-014	DEC-014	DEC-014	DEC-014D
Sample ID			DEC-14	DEC-014	DEC-014	DEC-014	DEC-014D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/29/07	12/21/07	07/22/08	11/09/09	06/23/11
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-	NA	NA	NA	NA	
1,1,1-Trichloroethane	UG/L	5					
1,1,2-Trichloroethane	UG/L	1					
1,1-Dichloroethane	UG/L	5					
1,1-Dichloroethene	UG/L	5					
1,2,3-Trichlorobenzene	UG/L	-	NA	NA	NA	NA	
1,2,3-Trichloropropane	UG/L	-	NA	NA	NA	NA	
1,2,4-Trichlorobenzene	UG/L	5					
1,2,4-Trimethylbenzene	UG/L	-	NA	NA	NA	NA	
1,2-Dichlorobenzene	UG/L	3					
1,2-Dichloroethane	UG/L	0.6					
1,2-Dichloroethene (cis)	UG/L	5	3.1 J	13			1.6 J
1,2-Dichloroethene (trans)	UG/L	5					
1,2-Dichloropropane	UG/L	1					
1,4-Dichlorobenzene	UG/L	3					
Acetone	UG/L	50					
Benzene	UG/L	1					
Carbon disulfide	UG/L	60					
Carbon tetrachloride	UG/L	5					
Chloroethane	UG/L	5					
Chloroform	UG/L	7	2.0 J	4.0 J			
Chloromethane	UG/L	5					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-014	DEC-014	DEC-014	DEC-014	DEC-014D
Sample ID			DEC-14	DEC-014	DEC-014	DEC-014	DEC-014D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/29/07	12/21/07	07/22/08	11/09/09	06/23/11
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Cyclohexane	UG/L	-					
Ethylbenzene	UG/L	5					
Isopropylbenzene (Cumene)	UG/L	5					
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Methyl tert-butyl ether	UG/L	10					3.8 J
Methylcyclohexane	UG/L	-					
Methylene chloride	UG/L	5					
Naphthalene	UG/L	-	NA	NA	NA	NA	
sec-Butylbenzene	UG/L	-	NA	NA	NA	NA	
Tetrachloroethene	UG/L	5	1,900 D	5,900 D	230	63	26
Toluene	UG/L	5					
Trichloroethene	UG/L	5	14 J	36		2.2	3.6 J
Trichlorofluoromethane	UG/L	5					
Vinyl chloride	UG/L	2					
Xylene (total)	UG/L	5					
Semivolatile Organic Compounds							
1,1-Biphenyl	UG/L	-	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	-	NA	NA	NA	NA	NA
Carbazole	UG/L	50	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	50	NA	NA	NA	NA	NA
Naphthalene	UG/L	10	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-014	DEC-014	DEC-014	DEC-014	DEC-014D
Sample ID			DEC-14	DEC-014	DEC-014	DEC-014	DEC-014D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/29/07	12/21/07	07/22/08	11/09/09	06/23/11
Parameter	Units	Criteria*					
Pesticide Organic Compounds							
gamma-BHC (Lindane)	UG/L	-	NA	NA	NA	NA	NA
Metals							
Aluminum	UG/L	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	NA	NA	NA	NA	NA
Calcium	UG/L	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	NA	NA	NA	NA	NA
Cobalt	UG/L	-	NA	NA	NA	NA	NA
Iron	UG/L	300	NA	NA	NA	NA	NA
Magnesium	UG/L	35000	NA	NA	NA	NA	NA
Manganese	UG/L	300	NA	NA	NA	NA	NA
Nickel	UG/L	100	NA	NA	NA	NA	NA
Potassium	UG/L	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	NA	NA	NA	NA	NA
Vanadium	UG/L	-	NA	NA	NA	NA	NA
Zinc	UG/L	2000	NA	NA	NA	NA	NA
Dissolved Metals							
Iron	UG/L	300	NA	NA	NA	NA	NA
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	NA	NA	NA	NA	NA
Chloride	MG/L	250	NA	NA	NA	NA	NA
Nitrate-Nitrite	MG/L	10	NA	NA	NA	NA	NA
Phosphorous, Total (as P)	MG/L	-	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-014	DEC-014	DEC-014	DEC-014	DEC-014D
Sample ID			DEC-14	DEC-014	DEC-014	DEC-014	DEC-014D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/29/07	12/21/07	07/22/08	11/09/09	06/23/11
Parameter	Units	Criteria*					
Miscellaneous Parameters							
Sulfate (as SO ₄)	MG/L	250	NA	NA	NA	NA	NA
Sulfide	MG/L	0.05	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	MG/L	-	NA	NA	NA	NA	NA
Dissolved Gases							
Ethane	UG/L	-	NA	NA	NA	NA	NA
Ethene	UG/L	-	NA	NA	NA	NA	NA
Methane	UG/L	-	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-014D	DEC-014D	DEC-014R	DEC-014R	DEC-014R
Sample ID			DEC-014D	DEC-014D	DEC-014R	DEC-014R	DEC-014R
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			10/19/11	03/28/12	06/23/11	10/19/11	03/28/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-	NA		9.5	NA	3.9 J
1,1,1-Trichloroethane	UG/L	5					
1,1,2-Trichloroethane	UG/L	1					
1,1-Dichloroethane	UG/L	5					
1,1-Dichloroethene	UG/L	5			1.6 J		
1,2,3-Trichlorobenzene	UG/L	-	NA			NA	
1,2,3-Trichloropropane	UG/L	-	NA			NA	
1,2,4-Trichlorobenzene	UG/L	5					
1,2,4-Trimethylbenzene	UG/L	-	NA			NA	
1,2-Dichlorobenzene	UG/L	3					
1,2-Dichloroethane	UG/L	0.6					
1,2-Dichloroethene (cis)	UG/L	5	2.0 J	1.1 J	39 J		17
1,2-Dichloroethene (trans)	UG/L	5					
1,2-Dichloropropane	UG/L	1					
1,4-Dichlorobenzene	UG/L	3			4.3 J		1.1 J
Acetone	UG/L	50					
Benzene	UG/L	1					
Carbon disulfide	UG/L	60					
Carbon tetrachloride	UG/L	5			1.0 J		
Chloroethane	UG/L	5					
Chloroform	UG/L	7			6.2		3.0 J
Chloromethane	UG/L	5					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-014D	DEC-014D	DEC-014R	DEC-014R	DEC-014R
Sample ID			DEC-014D	DEC-014D	DEC-014R	DEC-014R	DEC-014R
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			10/19/11	03/28/12	06/23/11	10/19/11	03/28/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Cyclohexane	UG/L	-					
Ethylbenzene	UG/L	5					
Isopropylbenzene (Cumene)	UG/L	5					
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Methyl tert-butyl ether	UG/L	10	2.1 J	1.2 J			
Methylcyclohexane	UG/L	-					
Methylene chloride	UG/L	5					
Naphthalene	UG/L	-	NA			NA	
sec-Butylbenzene	UG/L	-	NA			NA	
Tetrachloroethene	UG/L	5	15	28 J	44,000 D	46,000 J	15,000 DJ
Toluene	UG/L	5					
Trichloroethene	UG/L	5	2.4 J	2.7 J	300 J		34
Trichlorofluoromethane	UG/L	5					
Vinyl chloride	UG/L	2					
Xylene (total)	UG/L	5					
Semivolatile Organic Compounds							
1,1-Biphenyl	UG/L	-	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	-	NA	NA	NA	NA	NA
Carbazole	UG/L	50	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	50	NA	NA	NA	NA	NA
Naphthalene	UG/L	10	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-014D	DEC-014D	DEC-014R	DEC-014R	DEC-014R
Sample ID			DEC-014D	DEC-014D	DEC-014R	DEC-014R	DEC-014R
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			10/19/11	03/28/12	06/23/11	10/19/11	03/28/12
Parameter	Units	Criteria*					
Pesticide Organic Compounds							
gamma-BHC (Lindane)	UG/L	-	NA	NA	NA	NA	NA
Metals							
Aluminum	UG/L	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	NA	NA	NA	NA	NA
Calcium	UG/L	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	NA	NA	NA	NA	NA
Cobalt	UG/L	-	NA	NA	NA	NA	NA
Iron	UG/L	300	210	NA	NA	2,800	NA
Magnesium	UG/L	35000	NA	NA	NA	NA	NA
Manganese	UG/L	300	NA	NA	NA	NA	NA
Nickel	UG/L	100	NA	NA	NA	NA	NA
Potassium	UG/L	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	NA	NA	NA	NA	NA
Vanadium	UG/L	-	NA	NA	NA	NA	NA
Zinc	UG/L	2000	NA	NA	NA	NA	NA
Dissolved Metals							
Iron	UG/L	300	83.0	NA	NA	710	NA
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	152	150	NA	150	160
Chloride	MG/L	250	248	240	NA	523 JD	340
Nitrate-Nitrite	MG/L	10	8.4	7.08	NA	8.4	4.26
Phosphorous, Total (as P)	MG/L	-	NA	0.087	NA	NA	0.18

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-014D	DEC-014D	DEC-014R	DEC-014R	DEC-014R
Sample ID			DEC-014D	DEC-014D	DEC-014R	DEC-014R	DEC-014R
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			10/19/11	03/28/12	06/23/11	10/19/11	03/28/12
Parameter	Units	Criteria*					
Miscellaneous Parameters							
Sulfate (as SO ₄)	MG/L	250	135	120	NA	87.5	100
Sulfide	MG/L	0.05	NA		NA	NA	
Total Organic Carbon (TOC)	MG/L	-		NA	NA	1.8	NA
Dissolved Gases							
Ethane	UG/L	-		NA	NA	0.64 J	NA
Ethene	UG/L	-		NA	NA	2.0	NA
Methane	UG/L	-		NA	NA	8.3	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-015	DEC-015	DEC-015	DEC-015	DEC-015
Sample ID			DEC-15	DEC-15	DEC-015	DEC-015	DEC-015
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/26/07	12/21/07	07/17/08	11/09/09	06/22/11
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-	NA	NA	NA	NA	
1,1,1-Trichloroethane	UG/L	5			3.1	1.4	2.0 J
1,1,2-Trichloroethane	UG/L	1					
1,1-Dichloroethane	UG/L	5	10	11	6.9	5.4	6.9
1,1-Dichloroethene	UG/L	5	1.3 J	1.1 J	1.1		
1,2,3-Trichlorobenzene	UG/L	-	NA	NA	NA	NA	
1,2,3-Trichloropropane	UG/L	-	NA	NA	NA	NA	
1,2,4-Trichlorobenzene	UG/L	5					
1,2,4-Trimethylbenzene	UG/L	-	NA	NA	NA	NA	
1,2-Dichlorobenzene	UG/L	3					
1,2-Dichloroethane	UG/L	0.6					
1,2-Dichloroethene (cis)	UG/L	5	11	11	6.5	4.7	8.8
1,2-Dichloroethene (trans)	UG/L	5					
1,2-Dichloropropane	UG/L	1					
1,4-Dichlorobenzene	UG/L	3					
Acetone	UG/L	50					
Benzene	UG/L	1					
Carbon disulfide	UG/L	60					
Carbon tetrachloride	UG/L	5					
Chloroethane	UG/L	5					
Chloroform	UG/L	7	1.8 J	2.8 J	2.8	2.6	9.2
Chloromethane	UG/L	5					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-015	DEC-015	DEC-015	DEC-015	DEC-015
Sample ID			DEC-15	DEC-15	DEC-015	DEC-015	DEC-015
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/26/07	12/21/07	07/17/08	11/09/09	06/22/11
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Cyclohexane	UG/L	-					
Ethylbenzene	UG/L	5					
Isopropylbenzene (Cumene)	UG/L	5					
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Methyl tert-butyl ether	UG/L	10					
Methylcyclohexane	UG/L	-					
Methylene chloride	UG/L	5					
Naphthalene	UG/L	-	NA	NA	NA	NA	
sec-Butylbenzene	UG/L	-	NA	NA	NA	NA	
Tetrachloroethene	UG/L	5	120	160 J	160	100	140
Toluene	UG/L	5					
Trichloroethene	UG/L	5	15	19	20	16	13
Trichlorofluoromethane	UG/L	5					
Vinyl chloride	UG/L	2					
Xylene (total)	UG/L	5					
Semivolatile Organic Compounds							
1,1-Biphenyl	UG/L	-	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	-	NA	NA	NA	NA	NA
Carbazole	UG/L	50	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	50	NA	NA	NA	NA	NA
Naphthalene	UG/L	10	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-015	DEC-015	DEC-015	DEC-015	DEC-015
Sample ID			DEC-15	DEC-15	DEC-015	DEC-015	DEC-015
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/26/07	12/21/07	07/17/08	11/09/09	06/22/11
Parameter	Units	Criteria*					
Pesticide Organic Compounds							
gamma-BHC (Lindane)	UG/L	-	NA	NA	NA	NA	NA
Metals							
Aluminum	UG/L	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	NA	NA	NA	NA	NA
Calcium	UG/L	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	NA	NA	NA	NA	NA
Cobalt	UG/L	-	NA	NA	NA	NA	NA
Iron	UG/L	300	NA	NA	NA	NA	NA
Magnesium	UG/L	35000	NA	NA	NA	NA	NA
Manganese	UG/L	300	NA	NA	NA	NA	NA
Nickel	UG/L	100	NA	NA	NA	NA	NA
Potassium	UG/L	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	NA	NA	NA	NA	NA
Vanadium	UG/L	-	NA	NA	NA	NA	NA
Zinc	UG/L	2000	NA	NA	NA	NA	NA
Dissolved Metals							
Iron	UG/L	300	NA	NA	NA	NA	NA
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	NA	NA	NA	NA	NA
Chloride	MG/L	250	NA	NA	NA	NA	NA
Nitrate-Nitrite	MG/L	10	NA	NA	NA	NA	NA
Phosphorous, Total (as P)	MG/L	-	NA	NA	NA	NA	NA

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TABLE 4-16
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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-015	DEC-015	DEC-015	DEC-015	DEC-015
Sample ID			DEC-15	DEC-15	DEC-015	DEC-015	DEC-015
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/26/07	12/21/07	07/17/08	11/09/09	06/22/11
Parameter	Units	Criteria*					
Miscellaneous Parameters							
Sulfate (as SO ₄)	MG/L	250	NA	NA	NA	NA	NA
Sulfide	MG/L	0.05	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	MG/L	-	NA	NA	NA	NA	NA
Dissolved Gases							
Ethane	UG/L	-	NA	NA	NA	NA	NA
Ethene	UG/L	-	NA	NA	NA	NA	NA
Methane	UG/L	-	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-015	DEC-015	DEC-015D	DEC-015D	DEC-015D
Sample ID			DEC-015	DEC-015	DEC-015D	DEC-015D	DEC-015D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			10/23/11	03/29/12	06/22/11	10/23/11	03/29/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-	NA			NA	
1,1,1-Trichloroethane	UG/L	5	1.8 J	1.3 J	2.2 J	2.6 J	1.2 J
1,1,2-Trichloroethane	UG/L	1	0.48 J				
1,1-Dichloroethane	UG/L	5	10	11	2.8 J	2.0	1.6 J
1,1-Dichloroethene	UG/L	5			7.2	11	6.1
1,2,3-Trichlorobenzene	UG/L	-	NA			NA	
1,2,3-Trichloropropane	UG/L	-	NA			NA	2.7 J
1,2,4-Trichlorobenzene	UG/L	5					
1,2,4-Trimethylbenzene	UG/L	-	NA			NA	
1,2-Dichlorobenzene	UG/L	3					
1,2-Dichloroethane	UG/L	0.6	0.60 J			0.40 J	
1,2-Dichloroethene (cis)	UG/L	5	15	19	9.5	8.6	6.8
1,2-Dichloroethene (trans)	UG/L	5					
1,2-Dichloropropane	UG/L	1					
1,4-Dichlorobenzene	UG/L	3					
Acetone	UG/L	50					
Benzene	UG/L	1					
Carbon disulfide	UG/L	60					
Carbon tetrachloride	UG/L	5					
Chloroethane	UG/L	5					
Chloroform	UG/L	7		1.1 J			
Chloromethane	UG/L	5					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-015	DEC-015	DEC-015D	DEC-015D	DEC-015D
Sample ID			DEC-015	DEC-015	DEC-015D	DEC-015D	DEC-015D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			10/23/11	03/29/12	06/22/11	10/23/11	03/29/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Cyclohexane	UG/L	-					
Ethylbenzene	UG/L	5					
Isopropylbenzene (Cumene)	UG/L	5					
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Methyl tert-butyl ether	UG/L	10			1.7 J	0.61 J	0.58 J
Methylcyclohexane	UG/L	-					
Methylene chloride	UG/L	5					
Naphthalene	UG/L	-	NA			NA	
sec-Butylbenzene	UG/L	-	NA			NA	
Tetrachloroethene	UG/L	5	66	37 J	640 D	290 D	310 DJ
Toluene	UG/L	5					
Trichloroethene	UG/L	5	11	7.6	42	93	45
Trichlorofluoromethane	UG/L	5					
Vinyl chloride	UG/L	2					
Xylene (total)	UG/L	5					
Semivolatile Organic Compounds							
1,1-Biphenyl	UG/L	-	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	-	NA	NA	NA	NA	NA
Carbazole	UG/L	50	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	50	NA	NA	NA	NA	NA
Naphthalene	UG/L	10	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-015	DEC-015	DEC-015D	DEC-015D	DEC-015D
Sample ID			DEC-015	DEC-015	DEC-015D	DEC-015D	DEC-015D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			10/23/11	03/29/12	06/22/11	10/23/11	03/29/12
Parameter	Units	Criteria*					
Pesticide Organic Compounds							
gamma-BHC (Lindane)	UG/L	-	NA	NA	NA	NA	NA
Metals							
Aluminum	UG/L	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	NA	NA	NA	NA	NA
Calcium	UG/L	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	NA	NA	NA	NA	NA
Cobalt	UG/L	-	NA	NA	NA	NA	NA
Iron	UG/L	300	1,900	NA	NA	68.0	NA
Magnesium	UG/L	35000	NA	NA	NA	NA	NA
Manganese	UG/L	300	NA	NA	NA	NA	NA
Nickel	UG/L	100	NA	NA	NA	NA	NA
Potassium	UG/L	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	NA	NA	NA	NA	NA
Vanadium	UG/L	-	NA	NA	NA	NA	NA
Zinc	UG/L	2000	NA	NA	NA	NA	NA
Dissolved Metals							
Iron	UG/L	300	140	NA	NA	21.0 J	NA
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	309	260	NA	153	120
Chloride	MG/L	250	535	460	NA	241	250
Nitrate-Nitrite	MG/L	10	7.2	7.06	NA	5.3	8.28
Phosphorous, Total (as P)	MG/L	-	NA	0.20	NA	NA	0.23

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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-015	DEC-015	DEC-015D	DEC-015D	DEC-015D
Sample ID			DEC-015	DEC-015	DEC-015D	DEC-015D	DEC-015D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			10/23/11	03/29/12	06/22/11	10/23/11	03/29/12
Parameter	Units	Criteria*					
Miscellaneous Parameters							
Sulfate (as SO ₄)	MG/L	250	144	130	NA	137	110
Sulfide	MG/L	0.05	NA	0.062	NA	NA	
Total Organic Carbon (TOC)	MG/L	-	3.4	NA	NA	2.1	NA
Dissolved Gases							
Ethane	UG/L	-		NA	NA		NA
Ethene	UG/L	-		NA	NA		NA
Methane	UG/L	-		NA	NA	1.5	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-015R	DEC-022	DEC-022	DEC-022	DEC-022D
Sample ID			DEC-015R	DEC-22	DEC-022	DEC-022	DEC-022D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/29/12	06/27/07	12/11/07	09/24/09	12/11/07
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-		NA	NA	NA	NA
1,1,1-Trichloroethane	UG/L	5	1.5 J			NA	
1,1,2-Trichloroethane	UG/L	1				NA	
1,1-Dichloroethane	UG/L	5	14			NA	7.3
1,1-Dichloroethene	UG/L	5				NA	3.5 J
1,2,3-Trichlorobenzene	UG/L	-		NA	NA	NA	NA
1,2,3-Trichloropropane	UG/L	-		NA	NA	NA	NA
1,2,4-Trichlorobenzene	UG/L	5				NA	
1,2,4-Trimethylbenzene	UG/L	-		NA	NA	NA	NA
1,2-Dichlorobenzene	UG/L	3				NA	
1,2-Dichloroethane	UG/L	0.6				NA	
1,2-Dichloroethene (cis)	UG/L	5	27				21
1,2-Dichloroethene (trans)	UG/L	5				NA	
1,2-Dichloropropane	UG/L	1				NA	
1,4-Dichlorobenzene	UG/L	3				NA	
Acetone	UG/L	50				NA	23 J
Benzene	UG/L	1				NA	
Carbon disulfide	UG/L	60				NA	
Carbon tetrachloride	UG/L	5				NA	
Chloroethane	UG/L	5				NA	
Chloroform	UG/L	7	1.4 J			NA	4.4 J
Chloromethane	UG/L	5				NA	

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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-015R	DEC-022	DEC-022	DEC-022	DEC-022D
Sample ID			DEC-015R	DEC-22	DEC-022	DEC-022	DEC-022D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/29/12	06/27/07	12/11/07	09/24/09	12/11/07
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Cyclohexane	UG/L	-				NA	
Ethylbenzene	UG/L	5				NA	
Isopropylbenzene (Cumene)	UG/L	5				NA	
Methyl ethyl ketone (2-Butanone)	UG/L	50				NA	
Methyl tert-butyl ether	UG/L	10				NA	2.4
Methylcyclohexane	UG/L	-				NA	
Methylene chloride	UG/L	5				NA	
Naphthalene	UG/L	-		NA	NA	NA	NA
sec-Butylbenzene	UG/L	-		NA	NA	NA	NA
Tetrachloroethene	UG/L	5	24 J	3.3 J		1.3	330
Toluene	UG/L	5				NA	
Trichloroethene	UG/L	5	6.4	1.8 J		0.95	120
Trichlorofluoromethane	UG/L	5				NA	
Vinyl chloride	UG/L	2				NA	
Xylene (total)	UG/L	5				NA	
Semivolatile Organic Compounds							
1,1-Biphenyl	UG/L	-	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	-	NA	NA	NA	NA	NA
Carbazole	UG/L	50	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	50	NA	NA	NA	NA	NA
Naphthalene	UG/L	10	NA	NA	NA	NA	NA

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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-015R	DEC-022	DEC-022	DEC-022	DEC-022D
Sample ID			DEC-015R	DEC-22	DEC-022	DEC-022	DEC-022D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/29/12	06/27/07	12/11/07	09/24/09	12/11/07
Parameter	Units	Criteria*					
Pesticide Organic Compounds							
gamma-BHC (Lindane)	UG/L	-	NA	NA	NA	NA	NA
Metals							
Aluminum	UG/L	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	NA	NA	NA	NA	NA
Calcium	UG/L	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	NA	NA	NA	NA	NA
Cobalt	UG/L	-	NA	NA	NA	NA	NA
Iron	UG/L	300	NA	NA	NA	NA	NA
Magnesium	UG/L	35000	NA	NA	NA	NA	NA
Manganese	UG/L	300	NA	NA	NA	NA	NA
Nickel	UG/L	100	NA	NA	NA	NA	NA
Potassium	UG/L	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	NA	NA	NA	NA	NA
Vanadium	UG/L	-	NA	NA	NA	NA	NA
Zinc	UG/L	2000	NA	NA	NA	NA	NA
Dissolved Metals							
Iron	UG/L	300	NA	NA	NA	NA	NA
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	250	NA	NA	NA	NA
Chloride	MG/L	250	450	NA	NA	NA	NA
Nitrate-Nitrite	MG/L	10	9.50	NA	NA	NA	NA
Phosphorous, Total (as P)	MG/L	-	0.23	NA	NA	NA	NA

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SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-015R	DEC-022	DEC-022	DEC-022	DEC-022D
Sample ID			DEC-015R	DEC-22	DEC-022	DEC-022	DEC-022D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/29/12	06/27/07	12/11/07	09/24/09	12/11/07
Parameter	Units	Criteria*					
Miscellaneous Parameters							
Sulfate (as SO ₄)	MG/L	250	110	NA	NA	NA	NA
Sulfide	MG/L	0.05		NA	NA	NA	NA
Total Organic Carbon (TOC)	MG/L	-	NA	NA	NA	NA	NA
Dissolved Gases							
Ethane	UG/L	-	NA	NA	NA	NA	NA
Ethene	UG/L	-	NA	NA	NA	NA	NA
Methane	UG/L	-	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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Concentration Exceeds Criteria

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-022D	DEC-022D	DEC-022D	DEC-027	DEC-027
Sample ID			DEC-022D	DEC-022D	DEC-022D	DEC-027	DEC-027
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			07/18/08	06/22/11	03/28/12	12/11/07	07/17/08
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-	NA			NA	NA
1,1,1-Trichloroethane	UG/L	5	6.6	2.6 J	1.5 J		
1,1,2-Trichloroethane	UG/L	1					
1,1-Dichloroethane	UG/L	5	7.4	5.6	5.0		
1,1-Dichloroethene	UG/L	5	4.0	1.8 J	0.89 J	1.2 J	1.1
1,2,3-Trichlorobenzene	UG/L	-	NA			NA	NA
1,2,3-Trichloropropane	UG/L	-	NA			NA	NA
1,2,4-Trichlorobenzene	UG/L	5					
1,2,4-Trimethylbenzene	UG/L	-	NA			NA	NA
1,2-Dichlorobenzene	UG/L	3					
1,2-Dichloroethane	UG/L	0.6					
1,2-Dichloroethene (cis)	UG/L	5	32	42 J	38	10	13
1,2-Dichloroethene (trans)	UG/L	5	1.2		0.69 J		1.3
1,2-Dichloropropane	UG/L	1					
1,4-Dichlorobenzene	UG/L	3					
Acetone	UG/L	50					
Benzene	UG/L	1					
Carbon disulfide	UG/L	60					
Carbon tetrachloride	UG/L	5					
Chloroethane	UG/L	5					
Chloroform	UG/L	7	4.3	3.5 J	2.4 J		
Chloromethane	UG/L	5					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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B (metals only) - The reported concentration is above the method detection limit but below the quantitation limit.

Only Detected Results Reported.

TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-022D	DEC-022D	DEC-022D	DEC-027	DEC-027
Sample ID			DEC-022D	DEC-022D	DEC-022D	DEC-027	DEC-027
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			07/18/08	06/22/11	03/28/12	12/11/07	07/17/08
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Cyclohexane	UG/L	-					
Ethylbenzene	UG/L	5					
Isopropylbenzene (Cumene)	UG/L	5					
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Methyl tert-butyl ether	UG/L	10	4.0	1.3 J	0.96 J		
Methylcyclohexane	UG/L	-					
Methylene chloride	UG/L	5					
Naphthalene	UG/L	-	NA			NA	NA
sec-Butylbenzene	UG/L	-	NA			NA	NA
Tetrachloroethene	UG/L	5	320 D	1,300 D	1,200 DJ	5.6	8.1
Toluene	UG/L	5					
Trichloroethene	UG/L	5	130	94	64	320	300
Trichlorofluoromethane	UG/L	5		2.0 J			
Vinyl chloride	UG/L	2					
Xylene (total)	UG/L	5					
Semivolatile Organic Compounds							
1,1-Biphenyl	UG/L	-	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	-	NA	NA	NA	NA	NA
Carbazole	UG/L	50	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	50	NA	NA	NA	NA	NA
Naphthalene	UG/L	10	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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- = No standard, criteria or guidance value. Blank cell or ND - Not Detected. NA - Not analyzed.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-022D	DEC-022D	DEC-022D	DEC-027	DEC-027
Sample ID			DEC-022D	DEC-022D	DEC-022D	DEC-027	DEC-027
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			07/18/08	06/22/11	03/28/12	12/11/07	07/17/08
Parameter	Units	Criteria*					
Pesticide Organic Compounds							
gamma-BHC (Lindane)	UG/L	-	NA	NA	NA	NA	NA
Metals							
Aluminum	UG/L	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	NA	NA	NA	NA	NA
Calcium	UG/L	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	NA	NA	NA	NA	NA
Cobalt	UG/L	-	NA	NA	NA	NA	NA
Iron	UG/L	300	NA	NA	NA	NA	NA
Magnesium	UG/L	35000	NA	NA	NA	NA	NA
Manganese	UG/L	300	NA	NA	NA	NA	NA
Nickel	UG/L	100	NA	NA	NA	NA	NA
Potassium	UG/L	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	NA	NA	NA	NA	NA
Vanadium	UG/L	-	NA	NA	NA	NA	NA
Zinc	UG/L	2000	NA	NA	NA	NA	NA
Dissolved Metals							
Iron	UG/L	300	NA	NA	NA	NA	NA
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	NA	NA	270	NA	NA
Chloride	MG/L	250	NA	NA	210	NA	NA
Nitrate-Nitrite	MG/L	10	NA	NA	8.72	NA	NA
Phosphorous, Total (as P)	MG/L	-	NA	NA	0.19	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-022D	DEC-022D	DEC-022D	DEC-027	DEC-027
Sample ID			DEC-022D	DEC-022D	DEC-022D	DEC-027	DEC-027
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			07/18/08	06/22/11	03/28/12	12/11/07	07/17/08
Parameter	Units	Criteria*					
Miscellaneous Parameters							
Sulfate (as SO ₄)	MG/L	250	NA	NA	98	NA	NA
Sulfide	MG/L	0.05	NA	NA		NA	NA
Total Organic Carbon (TOC)	MG/L	-	NA	NA	NA	NA	NA
Dissolved Gases							
Ethane	UG/L	-	NA	NA	NA	NA	NA
Ethene	UG/L	-	NA	NA	NA	NA	NA
Methane	UG/L	-	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-027	DEC-027	DEC-027	DEC-028	DEC-028
Sample ID			DEC-027	DEC-027	DEC-027	DEC-028	DEC-028
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/24/11	10/24/11	04/01/12	12/11/07	07/17/08
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-		NA		NA	NA
1,1,1-Trichloroethane	UG/L	5		1.3 J			
1,1,2-Trichloroethane	UG/L	1					
1,1-Dichloroethane	UG/L	5		1.1		3.0 J	4.5
1,1-Dichloroethene	UG/L	5		1.7			
1,2,3-Trichlorobenzene	UG/L	-		NA		NA	NA
1,2,3-Trichloropropane	UG/L	-		NA		NA	NA
1,2,4-Trichlorobenzene	UG/L	5					
1,2,4-Trimethylbenzene	UG/L	-		NA		NA	NA
1,2-Dichlorobenzene	UG/L	3					
1,2-Dichloroethane	UG/L	0.6					
1,2-Dichloroethene (cis)	UG/L	5	48	14	6.8	16	45
1,2-Dichloroethene (trans)	UG/L	5	3.9 J	1.8		3.0 J	3.5
1,2-Dichloropropane	UG/L	1					
1,4-Dichlorobenzene	UG/L	3					
Acetone	UG/L	50					
Benzene	UG/L	1					
Carbon disulfide	UG/L	60					
Carbon tetrachloride	UG/L	5					
Chloroethane	UG/L	5				1.2 J	1.8
Chloroform	UG/L	7					1.2
Chloromethane	UG/L	5					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-027	DEC-027	DEC-027	DEC-028	DEC-028
Sample ID			DEC-027	DEC-027	DEC-027	DEC-028	DEC-028
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/24/11	10/24/11	04/01/12	12/11/07	07/17/08
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Cyclohexane	UG/L	-					
Ethylbenzene	UG/L	5					
Isopropylbenzene (Cumene)	UG/L	5					
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Methyl tert-butyl ether	UG/L	10				3.2	3.3
Methylcyclohexane	UG/L	-					
Methylene chloride	UG/L	5					
Naphthalene	UG/L	-		NA		NA	NA
sec-Butylbenzene	UG/L	-		NA		NA	NA
Tetrachloroethene	UG/L	5	34	26	17 J	180	500 D
Toluene	UG/L	5					
Trichloroethene	UG/L	5	750 D	310 D	190	37 J	55
Trichlorofluoromethane	UG/L	5	2.1 J	2.9	3.4 J		
Vinyl chloride	UG/L	2				12	22
Xylene (total)	UG/L	5					
Semivolatile Organic Compounds							
1,1-Biphenyl	UG/L	-	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	-	NA	NA	NA	NA	NA
Carbazole	UG/L	50	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	50	NA	NA	NA	NA	NA
Naphthalene	UG/L	10	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-027	DEC-027	DEC-027	DEC-028	DEC-028
Sample ID			DEC-027	DEC-027	DEC-027	DEC-028	DEC-028
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/24/11	10/24/11	04/01/12	12/11/07	07/17/08
Parameter	Units	Criteria*					
Pesticide Organic Compounds							
gamma-BHC (Lindane)	UG/L	-	NA	NA	NA	NA	NA
Metals							
Aluminum	UG/L	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	NA	NA	NA	NA	NA
Calcium	UG/L	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	NA	NA	NA	NA	NA
Cobalt	UG/L	-	NA	NA	NA	NA	NA
Iron	UG/L	300	NA	1,400	NA	NA	NA
Magnesium	UG/L	35000	NA	NA	NA	NA	NA
Manganese	UG/L	300	NA	NA	NA	NA	NA
Nickel	UG/L	100	NA	NA	NA	NA	NA
Potassium	UG/L	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	NA	NA	NA	NA	NA
Vanadium	UG/L	-	NA	NA	NA	NA	NA
Zinc	UG/L	2000	NA	NA	NA	NA	NA
Dissolved Metals							
Iron	UG/L	300	NA		NA	NA	NA
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	NA	219	260	NA	NA
Chloride	MG/L	250	NA	101	200	NA	NA
Nitrate-Nitrite	MG/L	10	NA	14.4	11.0	NA	NA
Phosphorous, Total (as P)	MG/L	-	NA	NA	0.077	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-027	DEC-027	DEC-027	DEC-028	DEC-028
Sample ID			DEC-027	DEC-027	DEC-027	DEC-028	DEC-028
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/24/11	10/24/11	04/01/12	12/11/07	07/17/08
Parameter	Units	Criteria*					
Miscellaneous Parameters							
Sulfate (as SO ₄)	MG/L	250	NA	87.0	82	NA	NA
Sulfide	MG/L	0.05	NA	NA		NA	NA
Total Organic Carbon (TOC)	MG/L	-	NA	1.7	NA	NA	NA
Dissolved Gases							
Ethane	UG/L	-	NA	0.49 J	NA	NA	NA
Ethene	UG/L	-	NA	1.3 J	NA	NA	NA
Methane	UG/L	-	NA	36	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-028	DEC-028	DEC-028	DEC-028	DEC-028
Sample ID			DEC-028	DUP-110909	DEC-028	DEC-028	DEC-028
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			11/09/09	11/09/09	06/21/11	10/20/11	03/30/12
Parameter	Units	Criteria*		Field Duplicate (1-1)			
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-	NA	NA		NA	
1,1,1-Trichloroethane	UG/L	5					
1,1,2-Trichloroethane	UG/L	1					
1,1-Dichloroethane	UG/L	5		4.2	3.0 J		
1,1-Dichloroethene	UG/L	5			1.5 J		
1,2,3-Trichlorobenzene	UG/L	-	NA	NA		NA	
1,2,3-Trichloropropane	UG/L	-	NA	NA		NA	
1,2,4-Trichlorobenzene	UG/L	5					
1,2,4-Trimethylbenzene	UG/L	-	NA	NA		NA	
1,2-Dichlorobenzene	UG/L	3					
1,2-Dichloroethane	UG/L	0.6					
1,2-Dichloroethene (cis)	UG/L	5	57	43	52		27
1,2-Dichloroethene (trans)	UG/L	5		2.1	1.9 J		
1,2-Dichloropropane	UG/L	1					
1,4-Dichlorobenzene	UG/L	3					
Acetone	UG/L	50					
Benzene	UG/L	1					
Carbon disulfide	UG/L	60					
Carbon tetrachloride	UG/L	5					
Chloroethane	UG/L	5					
Chloroform	UG/L	7		1.2			
Chloromethane	UG/L	5					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-028	DEC-028	DEC-028	DEC-028	DEC-028
Sample ID			DEC-028	DUP-110909	DEC-028	DEC-028	DEC-028
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			11/09/09	11/09/09	06/21/11	10/20/11	03/30/12
Parameter	Units	Criteria*		Field Duplicate (1-1)			
Volatile Organic Compounds							
Cyclohexane	UG/L	-					
Ethylbenzene	UG/L	5					
Isopropylbenzene (Cumene)	UG/L	5					
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Methyl tert-butyl ether	UG/L	10		1.6			
Methylcyclohexane	UG/L	-					
Methylene chloride	UG/L	5					
Naphthalene	UG/L	-	NA	NA		NA	
sec-Butylbenzene	UG/L	-	NA	NA	3.4 J	NA	
Tetrachloroethene	UG/L	5	600	590 D	2,300 D	3,100 J	320 J
Toluene	UG/L	5					
Trichloroethene	UG/L	5	76	63	220 D	150 J	190
Trichlorofluoromethane	UG/L	5					
Vinyl chloride	UG/L	2	22	20			
Xylene (total)	UG/L	5					
Semivolatile Organic Compounds							
1,1-Biphenyl	UG/L	-	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	-	NA	NA	NA	NA	NA
Carbazole	UG/L	50	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	50	NA	NA	NA	NA	NA
Naphthalene	UG/L	10	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-028	DEC-028	DEC-028	DEC-028	DEC-028
Sample ID			DEC-028	DUP-110909	DEC-028	DEC-028	DEC-028
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			11/09/09	11/09/09	06/21/11	10/20/11	03/30/12
Parameter	Units	Criteria*		Field Duplicate (1-1)			
Pesticide Organic Compounds							
gamma-BHC (Lindane)	UG/L	-	NA	NA	NA	NA	NA
Metals							
Aluminum	UG/L	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	NA	NA	NA	NA	NA
Calcium	UG/L	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	NA	NA	NA	NA	NA
Cobalt	UG/L	-	NA	NA	NA	NA	NA
Iron	UG/L	300	NA	NA	NA	2,000	NA
Magnesium	UG/L	35000	NA	NA	NA	NA	NA
Manganese	UG/L	300	NA	NA	NA	NA	NA
Nickel	UG/L	100	NA	NA	NA	NA	NA
Potassium	UG/L	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	NA	NA	NA	NA	NA
Vanadium	UG/L	-	NA	NA	NA	NA	NA
Zinc	UG/L	2000	NA	NA	NA	NA	NA
Dissolved Metals							
Iron	UG/L	300	NA	NA	NA		NA
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	NA	NA	NA	284	310
Chloride	MG/L	250	NA	NA	NA	212	230
Nitrate-Nitrite	MG/L	10	NA	NA	NA	17.3	0.20
Phosphorous, Total (as P)	MG/L	-	NA	NA	NA	NA	0.12

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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Only Detected Results Reported.

TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-028	DEC-028	DEC-028	DEC-028	DEC-028
Sample ID			DEC-028	DUP-110909	DEC-028	DEC-028	DEC-028
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			11/09/09	11/09/09	06/21/11	10/20/11	03/30/12
Parameter	Units	Criteria*		Field Duplicate (1-1)			
Miscellaneous Parameters							
Sulfate (as SO ₄)	MG/L	250	NA	NA	NA	125	86
Sulfide	MG/L	0.05	NA	NA	NA	NA	
Total Organic Carbon (TOC)	MG/L	-	NA	NA	NA	2.5	NA
Dissolved Gases							
Ethane	UG/L	-	NA	NA	NA		NA
Ethene	UG/L	-	NA	NA	NA		NA
Methane	UG/L	-	NA	NA	NA	5.0	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-028D	DEC-028D	DEC-029	DEC-029	DEC-029
Sample ID			20120330-FD-1	DEC-028D	DEC-029	072408-FD-1	DEC-029
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/30/12	03/30/12	12/20/07	07/24/08	07/24/08
Parameter	Units	Criteria*	Field Duplicate (1-1)			Field Duplicate (1-1)	
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-			NA	NA	NA
1,1,1-Trichloroethane	UG/L	5					
1,1,2-Trichloroethane	UG/L	1					
1,1-Dichloroethane	UG/L	5	2.2 J	2.3 J			
1,1-Dichloroethene	UG/L	5	2.7 J	3.2 J			
1,2,3-Trichlorobenzene	UG/L	-			NA	NA	NA
1,2,3-Trichloropropane	UG/L	-			NA	NA	NA
1,2,4-Trichlorobenzene	UG/L	5					
1,2,4-Trimethylbenzene	UG/L	-			NA	NA	NA
1,2-Dichlorobenzene	UG/L	3					
1,2-Dichloroethane	UG/L	0.6					
1,2-Dichloroethene (cis)	UG/L	5	6.1	7.1	12	36	36
1,2-Dichloroethene (trans)	UG/L	5		1.1 J			
1,2-Dichloropropane	UG/L	1					
1,4-Dichlorobenzene	UG/L	3					
Acetone	UG/L	50			120 J		
Benzene	UG/L	1					
Carbon disulfide	UG/L	60					
Carbon tetrachloride	UG/L	5					
Chloroethane	UG/L	5					
Chloroform	UG/L	7			2.9 J	3.7	
Chloromethane	UG/L	5					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-028D	DEC-028D	DEC-029	DEC-029	DEC-029
Sample ID			20120330-FD-1	DEC-028D	DEC-029	072408-FD-1	DEC-029
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/30/12	03/30/12	12/20/07	07/24/08	07/24/08
Parameter	Units	Criteria*	Field Duplicate (1-1)			Field Duplicate (1-1)	
Volatile Organic Compounds							
Cyclohexane	UG/L	-					
Ethylbenzene	UG/L	5					
Isopropylbenzene (Cumene)	UG/L	5					
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Methyl tert-butyl ether	UG/L	10					
Methylcyclohexane	UG/L	-					
Methylene chloride	UG/L	5					
Naphthalene	UG/L	-			NA	NA	NA
sec-Butylbenzene	UG/L	-			NA	NA	NA
Tetrachloroethene	UG/L	5	6.0 J	4.6 J	7,200 D	5,900 D	7,600 D
Toluene	UG/L	5					
Trichloroethene	UG/L	5	99	97	59	54	86
Trichlorofluoromethane	UG/L	5					
Vinyl chloride	UG/L	2					
Xylene (total)	UG/L	5					
Semivolatile Organic Compounds							
1,1-Biphenyl	UG/L	-	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	-	NA	NA	NA	NA	NA
Carbazole	UG/L	50	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	50	NA	NA	NA	NA	NA
Naphthalene	UG/L	10	NA	NA	NA	NA	NA

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-028D	DEC-028D	DEC-029	DEC-029	DEC-029
Sample ID			20120330-FD-1	DEC-028D	DEC-029	072408-FD-1	DEC-029
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/30/12	03/30/12	12/20/07	07/24/08	07/24/08
Parameter	Units	Criteria*	Field Duplicate (1-1)			Field Duplicate (1-1)	
Pesticide Organic Compounds							
gamma-BHC (Lindane)	UG/L	-	NA	NA	NA	NA	NA
Metals							
Aluminum	UG/L	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	NA	NA	NA	NA	NA
Calcium	UG/L	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	NA	NA	NA	NA	NA
Cobalt	UG/L	-	NA	NA	NA	NA	NA
Iron	UG/L	300	NA	NA	NA	NA	NA
Magnesium	UG/L	35000	NA	NA	NA	NA	NA
Manganese	UG/L	300	NA	NA	NA	NA	NA
Nickel	UG/L	100	NA	NA	NA	NA	NA
Potassium	UG/L	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	NA	NA	NA	NA	NA
Vanadium	UG/L	-	NA	NA	NA	NA	NA
Zinc	UG/L	2000	NA	NA	NA	NA	NA
Dissolved Metals							
Iron	UG/L	300	NA	NA	NA	NA	NA
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	180 J	140 J	NA	NA	NA
Chloride	MG/L	250	220	220	NA	NA	NA
Nitrate-Nitrite	MG/L	10			NA	NA	NA
Phosphorous, Total (as P)	MG/L	-	0.081	0.082	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-028D	DEC-028D	DEC-029	DEC-029	DEC-029
Sample ID			20120330-FD-1	DEC-028D	DEC-029	072408-FD-1	DEC-029
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/30/12	03/30/12	12/20/07	07/24/08	07/24/08
Parameter	Units	Criteria*	Field Duplicate (1-1)			Field Duplicate (1-1)	
Miscellaneous Parameters							
Sulfate (as SO ₄)	MG/L	250	320	330	NA	NA	NA
Sulfide	MG/L	0.05			NA	NA	NA
Total Organic Carbon (TOC)	MG/L	-	NA	NA	NA	NA	NA
Dissolved Gases							
Ethane	UG/L	-	NA	NA	NA	NA	NA
Ethene	UG/L	-	NA	NA	NA	NA	NA
Methane	UG/L	-	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-029	DEC-029	DEC-029	DEC-029	DEC-029D
Sample ID			DEC-029	DEC-029	DEC-029	DEC-029	DEC-029D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			11/05/09	06/23/11	10/21/11	03/29/12	06/23/11
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-	NA		NA	1.9 J	
1,1,1-Trichloroethane	UG/L	5					
1,1,2-Trichloroethane	UG/L	1					
1,1-Dichloroethane	UG/L	5				0.66 J	
1,1-Dichloroethene	UG/L	5					
1,2,3-Trichlorobenzene	UG/L	-	NA		NA		
1,2,3-Trichloropropane	UG/L	-	NA		NA		
1,2,4-Trichlorobenzene	UG/L	5					
1,2,4-Trimethylbenzene	UG/L	-	NA		NA		
1,2-Dichlorobenzene	UG/L	3					
1,2-Dichloroethane	UG/L	0.6					7.8
1,2-Dichloroethene (cis)	UG/L	5		8.2 J		14	
1,2-Dichloroethene (trans)	UG/L	5					
1,2-Dichloropropane	UG/L	1					
1,4-Dichlorobenzene	UG/L	3		1.1 J		0.82 J	
Acetone	UG/L	50					
Benzene	UG/L	1					
Carbon disulfide	UG/L	60					
Carbon tetrachloride	UG/L	5					
Chloroethane	UG/L	5					
Chloroform	UG/L	7		1.0 J		2.0 J	
Chloromethane	UG/L	5					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-029	DEC-029	DEC-029	DEC-029	DEC-029D
Sample ID			DEC-029	DEC-029	DEC-029	DEC-029	DEC-029D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			11/05/09	06/23/11	10/21/11	03/29/12	06/23/11
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Cyclohexane	UG/L	-					
Ethylbenzene	UG/L	5					
Isopropylbenzene (Cumene)	UG/L	5					
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Methyl tert-butyl ether	UG/L	10					
Methylcyclohexane	UG/L	-					
Methylene chloride	UG/L	5					
Naphthalene	UG/L	-	NA		NA		
sec-Butylbenzene	UG/L	-	NA		NA		
Tetrachloroethene	UG/L	5	10,000	5,700 D	4,400 J	12,000 DJ	20
Toluene	UG/L	5					
Trichloroethene	UG/L	5		7.4		21	3.4 J
Trichlorofluoromethane	UG/L	5					
Vinyl chloride	UG/L	2					
Xylene (total)	UG/L	5					
Semivolatile Organic Compounds							
1,1-Biphenyl	UG/L	-	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	-	NA	NA	NA	NA	NA
Carbazole	UG/L	50	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	50	NA	NA	NA	NA	NA
Naphthalene	UG/L	10	NA	NA	NA	NA	NA

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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-029	DEC-029	DEC-029	DEC-029	DEC-029D
Sample ID			DEC-029	DEC-029	DEC-029	DEC-029	DEC-029D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			11/05/09	06/23/11	10/21/11	03/29/12	06/23/11
Parameter	Units	Criteria*					
Pesticide Organic Compounds							
gamma-BHC (Lindane)	UG/L	-	NA	NA	NA	NA	NA
Metals							
Aluminum	UG/L	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	NA	NA	NA	NA	NA
Calcium	UG/L	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	NA	NA	NA	NA	NA
Cobalt	UG/L	-	NA	NA	NA	NA	NA
Iron	UG/L	300	NA	NA	1,200	NA	NA
Magnesium	UG/L	35000	NA	NA	NA	NA	NA
Manganese	UG/L	300	NA	NA	NA	NA	NA
Nickel	UG/L	100	NA	NA	NA	NA	NA
Potassium	UG/L	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	NA	NA	NA	NA	NA
Vanadium	UG/L	-	NA	NA	NA	NA	NA
Zinc	UG/L	2000	NA	NA	NA	NA	NA
Dissolved Metals							
Iron	UG/L	300	NA	NA		NA	NA
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	NA	NA	168	160	NA
Chloride	MG/L	250	NA	NA	114	210	NA
Nitrate-Nitrite	MG/L	10	NA	NA	4.6	4.92	NA
Phosphorous, Total (as P)	MG/L	-	NA	NA	NA	0.31	NA

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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-029	DEC-029	DEC-029	DEC-029	DEC-029D
Sample ID			DEC-029	DEC-029	DEC-029	DEC-029	DEC-029D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			11/05/09	06/23/11	10/21/11	03/29/12	06/23/11
Parameter	Units	Criteria*					
Miscellaneous Parameters							
Sulfate (as SO ₄)	MG/L	250	NA	NA	89.4	84	NA
Sulfide	MG/L	0.05	NA	NA	NA		NA
Total Organic Carbon (TOC)	MG/L	-	NA	NA	1.5	NA	NA
Dissolved Gases							
Ethane	UG/L	-	NA	NA		NA	NA
Ethene	UG/L	-	NA	NA		NA	NA
Methane	UG/L	-	NA	NA		NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-029D	DEC-029D	DEC-029TC	DEC-029TC	DEC-029TC
Sample ID			DEC-029D	DEC-029D	20111026-FD-1	DEC-029TC	20120331-FD-1
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			10/21/11	03/29/12	10/26/11	10/26/11	03/31/12
Parameter	Units	Criteria*			Field Duplicate (1-1)		Field Duplicate (1-1)
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-	NA		NA	NA	
1,1,1-Trichloroethane	UG/L	5					
1,1,2-Trichloroethane	UG/L	1					
1,1-Dichloroethane	UG/L	5	1.0 J	0.94 J			
1,1-Dichloroethene	UG/L	5	0.98 J		0.57 J	0.45 J	1.1 J
1,2,3-Trichlorobenzene	UG/L	-	NA		NA	NA	
1,2,3-Trichloropropane	UG/L	-	NA		NA	NA	
1,2,4-Trichlorobenzene	UG/L	5					
1,2,4-Trimethylbenzene	UG/L	-	NA		NA	NA	
1,2-Dichlorobenzene	UG/L	3					
1,2-Dichloroethane	UG/L	0.6	5.5	4.6 J	2,300 D	2,900 D	2,100 D
1,2-Dichloroethene (cis)	UG/L	5	4.9 J	3.1 J	2.7	2.4	16
1,2-Dichloroethene (trans)	UG/L	5			0.97 J		2.3 J
1,2-Dichloropropane	UG/L	1			2.1	2.0	2.1 J
1,4-Dichlorobenzene	UG/L	3					
Acetone	UG/L	50					
Benzene	UG/L	1					
Carbon disulfide	UG/L	60					
Carbon tetrachloride	UG/L	5					
Chloroethane	UG/L	5					
Chloroform	UG/L	7			1.9	2.0	
Chloromethane	UG/L	5					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-029D	DEC-029D	DEC-029TC	DEC-029TC	DEC-029TC
Sample ID			DEC-029D	DEC-029D	20111026-FD-1	DEC-029TC	20120331-FD-1
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			10/21/11	03/29/12	10/26/11	10/26/11	03/31/12
Parameter	Units	Criteria*			Field Duplicate (1-1)		Field Duplicate (1-1)
Volatile Organic Compounds							
Cyclohexane	UG/L	-					
Ethylbenzene	UG/L	5					
Isopropylbenzene (Cumene)	UG/L	5					
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Methyl tert-butyl ether	UG/L	10	1.4 J	1.7 J			
Methylcyclohexane	UG/L	-					
Methylene chloride	UG/L	5					
Naphthalene	UG/L	-	NA		NA	NA	
sec-Butylbenzene	UG/L	-	NA		NA	NA	
Tetrachloroethene	UG/L	5	27 J	19	2,400 D	2,800 D	4,500 DJ
Toluene	UG/L	5					
Trichloroethene	UG/L	5	3.8 J	5.0	110 D	98	300 D
Trichlorofluoromethane	UG/L	5					
Vinyl chloride	UG/L	2					
Xylene (total)	UG/L	5					
Semivolatile Organic Compounds							
1,1-Biphenyl	UG/L	-	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	-	NA	NA	NA	NA	NA
Carbazole	UG/L	50	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	50	NA	NA	NA	NA	NA
Naphthalene	UG/L	10	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-029D	DEC-029D	DEC-029TC	DEC-029TC	DEC-029TC
Sample ID			DEC-029D	DEC-029D	20111026-FD-1	DEC-029TC	20120331-FD-1
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			10/21/11	03/29/12	10/26/11	10/26/11	03/31/12
Parameter	Units	Criteria*			Field Duplicate (1-1)		Field Duplicate (1-1)
Pesticide Organic Compounds							
gamma-BHC (Lindane)	UG/L	-	NA	NA	NA	NA	NA
Metals							
Aluminum	UG/L	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	NA	NA	NA	NA	NA
Calcium	UG/L	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	NA	NA	NA	NA	NA
Cobalt	UG/L	-	NA	NA	NA	NA	NA
Iron	UG/L	300	340	NA	23,700	25,200	NA
Magnesium	UG/L	35000	NA	NA	NA	NA	NA
Manganese	UG/L	300	NA	NA	NA	NA	NA
Nickel	UG/L	100	NA	NA	NA	NA	NA
Potassium	UG/L	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	NA	NA	NA	NA	NA
Vanadium	UG/L	-	NA	NA	NA	NA	NA
Zinc	UG/L	2000	NA	NA	NA	NA	NA
Dissolved Metals							
Iron	UG/L	300	270	NA	26,300	26,600	NA
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	167	160	258 J	267	260
Chloride	MG/L	250	253	250	2,600	2,640	2,400
Nitrate-Nitrite	MG/L	10	3.6	3.92			
Phosphorous, Total (as P)	MG/L	-	NA	0.18	NA	NA	0.10

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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 Concentration Exceeds Criteria

- = No standard, criteria or guidance value. Blank cell or ND - Not Detected. NA - Not analyzed.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-029D	DEC-029D	DEC-029TC	DEC-029TC	DEC-029TC
Sample ID			DEC-029D	DEC-029D	20111026-FD-1	DEC-029TC	20120331-FD-1
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			10/21/11	03/29/12	10/26/11	10/26/11	03/31/12
Parameter	Units	Criteria*			Field Duplicate (1-1)		Field Duplicate (1-1)
Miscellaneous Parameters							
Sulfate (as SO ₄)	MG/L	250	173	170	718	726	720
Sulfide	MG/L	0.05	NA		NA	NA	
Total Organic Carbon (TOC)	MG/L	-	1.4	NA	2.9	3.0	NA
Dissolved Gases							
Ethane	UG/L	-		NA	4.5	4.4	NA
Ethene	UG/L	-		NA	9.9	9.7	NA
Methane	UG/L	-	0.99 J	NA	18	18	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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Concentration Exceeds Criteria

- = No standard, criteria or guidance value. Blank cell or ND - Not Detected. NA - Not analyzed.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-029TC	DEC-030	DEC-030	DEC-030	DEC-030
Sample ID			DEC-029TC	122107-FD-05	DEC-30	DEC-030	DEC-030
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/31/12	12/21/07	12/21/07	07/21/08	11/05/09
Parameter	Units	Criteria*		Field Duplicate (1-1)			
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-		NA	NA	NA	NA
1,1,1-Trichloroethane	UG/L	5				2.1	
1,1,2-Trichloroethane	UG/L	1					
1,1-Dichloroethane	UG/L	5					
1,1-Dichloroethene	UG/L	5					
1,2,3-Trichlorobenzene	UG/L	-		NA	NA	NA	NA
1,2,3-Trichloropropane	UG/L	-		NA	NA	NA	NA
1,2,4-Trichlorobenzene	UG/L	5					
1,2,4-Trimethylbenzene	UG/L	-		NA	NA	NA	NA
1,2-Dichlorobenzene	UG/L	3					
1,2-Dichloroethane	UG/L	0.6	3,700 D				
1,2-Dichloroethene (cis)	UG/L	5	14	9.2	10	19	
1,2-Dichloroethene (trans)	UG/L	5	2.6 J				
1,2-Dichloropropane	UG/L	1	2.2 J				
1,4-Dichlorobenzene	UG/L	3					
Acetone	UG/L	50					
Benzene	UG/L	1		2.0	1.8		
Carbon disulfide	UG/L	60					
Carbon tetrachloride	UG/L	5					
Chloroethane	UG/L	5					
Chloroform	UG/L	7					
Chloromethane	UG/L	5					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-029TC	DEC-030	DEC-030	DEC-030	DEC-030
Sample ID			DEC-029TC	122107-FD-05	DEC-30	DEC-030	DEC-030
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/31/12	12/21/07	12/21/07	07/21/08	11/05/09
Parameter	Units	Criteria*		Field Duplicate (1-1)			
Volatile Organic Compounds							
Cyclohexane	UG/L	-					
Ethylbenzene	UG/L	5					
Isopropylbenzene (Cumene)	UG/L	5					
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Methyl tert-butyl ether	UG/L	10					
Methylcyclohexane	UG/L	-					
Methylene chloride	UG/L	5					
Naphthalene	UG/L	-		NA	NA	NA	NA
sec-Butylbenzene	UG/L	-		NA	NA	NA	NA
Tetrachloroethene	UG/L	5	2,300 DJ	3,400 D	4,400 D	2,000 D	3,200
Toluene	UG/L	5					
Trichloroethene	UG/L	5	300 D	28	29	29	
Trichlorofluoromethane	UG/L	5					
Vinyl chloride	UG/L	2					
Xylene (total)	UG/L	5					
Semivolatile Organic Compounds							
1,1-Biphenyl	UG/L	-	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	-	NA	NA	NA	NA	NA
Carbazole	UG/L	50	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	50	NA	NA	NA	NA	NA
Naphthalene	UG/L	10	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-029TC	DEC-030	DEC-030	DEC-030	DEC-030
Sample ID			DEC-029TC	122107-FD-05	DEC-30	DEC-030	DEC-030
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/31/12	12/21/07	12/21/07	07/21/08	11/05/09
Parameter	Units	Criteria*		Field Duplicate (1-1)			
Pesticide Organic Compounds							
gamma-BHC (Lindane)	UG/L	-	NA	NA	NA	NA	NA
Metals							
Aluminum	UG/L	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	NA	NA	NA	NA	NA
Calcium	UG/L	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	NA	NA	NA	NA	NA
Cobalt	UG/L	-	NA	NA	NA	NA	NA
Iron	UG/L	300	NA	NA	NA	NA	NA
Magnesium	UG/L	35000	NA	NA	NA	NA	NA
Manganese	UG/L	300	NA	NA	NA	NA	NA
Nickel	UG/L	100	NA	NA	NA	NA	NA
Potassium	UG/L	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	NA	NA	NA	NA	NA
Vanadium	UG/L	-	NA	NA	NA	NA	NA
Zinc	UG/L	2000	NA	NA	NA	NA	NA
Dissolved Metals							
Iron	UG/L	300	NA	NA	NA	NA	NA
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	310	NA	NA	NA	NA
Chloride	MG/L	250	2,500	NA	NA	NA	NA
Nitrate-Nitrite	MG/L	10		NA	NA	NA	NA
Phosphorous, Total (as P)	MG/L	-	0.086	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-029TC	DEC-030	DEC-030	DEC-030	DEC-030
Sample ID			DEC-029TC	122107-FD-05	DEC-30	DEC-030	DEC-030
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/31/12	12/21/07	12/21/07	07/21/08	11/05/09
Parameter	Units	Criteria*		Field Duplicate (1-1)			
Miscellaneous Parameters							
Sulfate (as SO ₄)	MG/L	250	720	NA	NA	NA	NA
Sulfide	MG/L	0.05		NA	NA	NA	NA
Total Organic Carbon (TOC)	MG/L	-	NA	NA	NA	NA	NA
Dissolved Gases							
Ethane	UG/L	-	NA	NA	NA	NA	NA
Ethene	UG/L	-	NA	NA	NA	NA	NA
Methane	UG/L	-	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-030	DEC-030	DEC-030	DEC-030	DEC-030D
Sample ID			DEC-030	DEC-030	20120327-FD-1	DEC-030	DEC-030D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/20/11	10/18/11	03/27/12	03/27/12	06/20/11
Parameter	Units	Criteria*			Field Duplicate (1-1)		
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-		NA			
1,1,1-Trichloroethane	UG/L	5					4.2 J
1,1,2-Trichloroethane	UG/L	1					
1,1-Dichloroethane	UG/L	5					1.9 J
1,1-Dichloroethene	UG/L	5					47 J
1,2,3-Trichlorobenzene	UG/L	-		NA			
1,2,3-Trichloropropane	UG/L	-		NA			
1,2,4-Trichlorobenzene	UG/L	5					
1,2,4-Trimethylbenzene	UG/L	-		NA			
1,2-Dichlorobenzene	UG/L	3					
1,2-Dichloroethane	UG/L	0.6					
1,2-Dichloroethene (cis)	UG/L	5	25		23	23	4.7 J
1,2-Dichloroethene (trans)	UG/L	5					
1,2-Dichloropropane	UG/L	1					
1,4-Dichlorobenzene	UG/L	3					
Acetone	UG/L	50					
Benzene	UG/L	1					
Carbon disulfide	UG/L	60					
Carbon tetrachloride	UG/L	5					
Chloroethane	UG/L	5					
Chloroform	UG/L	7			0.65 J	0.63 J	
Chloromethane	UG/L	5					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-030	DEC-030	DEC-030	DEC-030	DEC-030D
Sample ID			DEC-030	DEC-030	20120327-FD-1	DEC-030	DEC-030D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/20/11	10/18/11	03/27/12	03/27/12	06/20/11
Parameter	Units	Criteria*			Field Duplicate (1-1)		
Volatile Organic Compounds							
Cyclohexane	UG/L	-					
Ethylbenzene	UG/L	5					
Isopropylbenzene (Cumene)	UG/L	5					
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Methyl tert-butyl ether	UG/L	10					
Methylcyclohexane	UG/L	-					
Methylene chloride	UG/L	5					
Naphthalene	UG/L	-		NA			
sec-Butylbenzene	UG/L	-		NA			
Tetrachloroethene	UG/L	5	2,000 D	2,400 J	1,900 DJ	1,900 DJ	43
Toluene	UG/L	5					
Trichloroethene	UG/L	5	27		27	27	170
Trichlorofluoromethane	UG/L	5					
Vinyl chloride	UG/L	2					
Xylene (total)	UG/L	5					
Semivolatile Organic Compounds							
1,1-Biphenyl	UG/L	-	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	-	NA	NA	NA	NA	NA
Carbazole	UG/L	50	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	50	NA	NA	NA	NA	NA
Naphthalene	UG/L	10	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-030	DEC-030	DEC-030	DEC-030	DEC-030D
Sample ID			DEC-030	DEC-030	20120327-FD-1	DEC-030	DEC-030D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/20/11	10/18/11	03/27/12	03/27/12	06/20/11
Parameter	Units	Criteria*			Field Duplicate (1-1)		
Pesticide Organic Compounds							
gamma-BHC (Lindane)	UG/L	-	NA	NA	NA	NA	NA
Metals							
Aluminum	UG/L	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	NA	NA	NA	NA	NA
Calcium	UG/L	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	NA	NA	NA	NA	NA
Cobalt	UG/L	-	NA	NA	NA	NA	NA
Iron	UG/L	300	NA	2,100	NA	NA	NA
Magnesium	UG/L	35000	NA	NA	NA	NA	NA
Manganese	UG/L	300	NA	NA	NA	NA	NA
Nickel	UG/L	100	NA	NA	NA	NA	NA
Potassium	UG/L	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	NA	NA	NA	NA	NA
Vanadium	UG/L	-	NA	NA	NA	NA	NA
Zinc	UG/L	2000	NA	NA	NA	NA	NA
Dissolved Metals							
Iron	UG/L	300	NA		NA	NA	NA
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	NA	80.2	90	90	NA
Chloride	MG/L	250	NA	196	310	310	NA
Nitrate-Nitrite	MG/L	10	NA	4.6	5.64	5.54	NA
Phosphorous, Total (as P)	MG/L	-	NA	NA	0.39	0.36	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-030	DEC-030	DEC-030	DEC-030	DEC-030D
Sample ID			DEC-030	DEC-030	20120327-FD-1	DEC-030	DEC-030D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/20/11	10/18/11	03/27/12	03/27/12	06/20/11
Parameter	Units	Criteria*			Field Duplicate (1-1)		
Miscellaneous Parameters							
Sulfate (as SO ₄)	MG/L	250	NA	132	130	130	NA
Sulfide	MG/L	0.05	NA	NA			NA
Total Organic Carbon (TOC)	MG/L	-	NA	2.2	NA	NA	NA
Dissolved Gases							
Ethane	UG/L	-	NA		NA	NA	NA
Ethene	UG/L	-	NA		NA	NA	NA
Methane	UG/L	-	NA		NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-030D	DEC-030D	DEC-031	DEC-031	DEC-031
Sample ID			DEC-030D	DEC-030D	DEC-031	DEC-031	DEC-031
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			10/18/11	03/27/12	12/26/07	07/24/08	11/03/09
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-	NA		NA	NA	NA
1,1,1-Trichloroethane	UG/L	5	11 J	1.1 J			
1,1,2-Trichloroethane	UG/L	1					
1,1-Dichloroethane	UG/L	5					
1,1-Dichloroethene	UG/L	5	69	5.0			
1,2,3-Trichlorobenzene	UG/L	-	NA		NA	NA	NA
1,2,3-Trichloropropane	UG/L	-	NA		NA	NA	NA
1,2,4-Trichlorobenzene	UG/L	5					
1,2,4-Trimethylbenzene	UG/L	-	NA		NA	NA	NA
1,2-Dichlorobenzene	UG/L	3					
1,2-Dichloroethane	UG/L	0.6					
1,2-Dichloroethene (cis)	UG/L	5	6.3 J	0.93 J	34		
1,2-Dichloroethene (trans)	UG/L	5					
1,2-Dichloropropane	UG/L	1					
1,4-Dichlorobenzene	UG/L	3					
Acetone	UG/L	50					
Benzene	UG/L	1					
Carbon disulfide	UG/L	60					
Carbon tetrachloride	UG/L	5					
Chloroethane	UG/L	5					
Chloroform	UG/L	7			6.2		
Chloromethane	UG/L	5					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-030D	DEC-030D	DEC-031	DEC-031	DEC-031
Sample ID			DEC-030D	DEC-030D	DEC-031	DEC-031	DEC-031
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			10/18/11	03/27/12	12/26/07	07/24/08	11/03/09
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Cyclohexane	UG/L	-					
Ethylbenzene	UG/L	5					
Isopropylbenzene (Cumene)	UG/L	5					
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Methyl tert-butyl ether	UG/L	10		1.8 J			
Methylcyclohexane	UG/L	-					
Methylene chloride	UG/L	5					
Naphthalene	UG/L	-	NA		NA	NA	NA
sec-Butylbenzene	UG/L	-	NA		NA	NA	NA
Tetrachloroethene	UG/L	5	37 J	33 J	33,000 D	24,000 J	4,000 D
Toluene	UG/L	5					
Trichloroethene	UG/L	5	320	57	54		30
Trichlorofluoromethane	UG/L	5					
Vinyl chloride	UG/L	2					
Xylene (total)	UG/L	5					
Semivolatile Organic Compounds							
1,1-Biphenyl	UG/L	-	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	-	NA	NA	NA	NA	NA
Carbazole	UG/L	50	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	50	NA	NA	NA	NA	NA
Naphthalene	UG/L	10	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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Concentration Exceeds Criteria

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-030D	DEC-030D	DEC-031	DEC-031	DEC-031
Sample ID			DEC-030D	DEC-030D	DEC-031	DEC-031	DEC-031
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			10/18/11	03/27/12	12/26/07	07/24/08	11/03/09
Parameter	Units	Criteria*					
Pesticide Organic Compounds							
gamma-BHC (Lindane)	UG/L	-	NA	NA	NA	NA	NA
Metals							
Aluminum	UG/L	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	NA	NA	NA	NA	NA
Calcium	UG/L	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	NA	NA	NA	NA	NA
Cobalt	UG/L	-	NA	NA	NA	NA	NA
Iron	UG/L	300	1,600	NA	NA	NA	NA
Magnesium	UG/L	35000	NA	NA	NA	NA	NA
Manganese	UG/L	300	NA	NA	NA	NA	NA
Nickel	UG/L	100	NA	NA	NA	NA	NA
Potassium	UG/L	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	NA	NA	NA	NA	NA
Vanadium	UG/L	-	NA	NA	NA	NA	NA
Zinc	UG/L	2000	NA	NA	NA	NA	NA
Dissolved Metals							
Iron	UG/L	300		NA	NA	NA	NA
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	142	140	NA	NA	NA
Chloride	MG/L	250	173	210	NA	NA	NA
Nitrate-Nitrite	MG/L	10	8.3	8.72	NA	NA	NA
Phosphorous, Total (as P)	MG/L	-	NA	0.28	NA	NA	NA

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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-030D	DEC-030D	DEC-031	DEC-031	DEC-031
Sample ID			DEC-030D	DEC-030D	DEC-031	DEC-031	DEC-031
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			10/18/11	03/27/12	12/26/07	07/24/08	11/03/09
Parameter	Units	Criteria*					
Miscellaneous Parameters							
Sulfate (as SO ₄)	MG/L	250	224	160	NA	NA	NA
Sulfide	MG/L	0.05	NA		NA	NA	NA
Total Organic Carbon (TOC)	MG/L	-	1.3	NA	NA	NA	NA
Dissolved Gases							
Ethane	UG/L	-		NA	NA	NA	NA
Ethene	UG/L	-		NA	NA	NA	NA
Methane	UG/L	-		NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-031	DEC-031	DEC-031	DEC-031	DEC-031
Sample ID			DEC-031	20111021-FD-1	DEC-031	DEC-031	DEC-031
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/21/11	10/21/11	10/21/11	04/01/12	04/20/12
Parameter	Units	Criteria*		Field Duplicate (1-1)			
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-	2.1 J	NA	NA	NA	3.8 J
1,1,1-Trichloroethane	UG/L	5				NA	
1,1,2-Trichloroethane	UG/L	1				NA	
1,1-Dichloroethane	UG/L	5	1.1 J			NA	
1,1-Dichloroethene	UG/L	5				NA	
1,2,3-Trichlorobenzene	UG/L	-		NA	NA	NA	
1,2,3-Trichloropropane	UG/L	-		NA	NA	NA	
1,2,4-Trichlorobenzene	UG/L	5				NA	
1,2,4-Trimethylbenzene	UG/L	-		NA	NA	NA	
1,2-Dichlorobenzene	UG/L	3				NA	
1,2-Dichloroethane	UG/L	0.6				NA	
1,2-Dichloroethene (cis)	UG/L	5	17			NA	22
1,2-Dichloroethene (trans)	UG/L	5				NA	
1,2-Dichloropropane	UG/L	1				NA	
1,4-Dichlorobenzene	UG/L	3	1.3 J			NA	1.0 J
Acetone	UG/L	50				NA	
Benzene	UG/L	1				NA	
Carbon disulfide	UG/L	60				NA	
Carbon tetrachloride	UG/L	5				NA	
Chloroethane	UG/L	5				NA	
Chloroform	UG/L	7	2.1 J			NA	6.2
Chloromethane	UG/L	5				NA	

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-031	DEC-031	DEC-031	DEC-031	DEC-031
Sample ID			DEC-031	20111021-FD-1	DEC-031	DEC-031	DEC-031
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/21/11	10/21/11	10/21/11	04/01/12	04/20/12
Parameter	Units	Criteria*		Field Duplicate (1-1)			
Volatile Organic Compounds							
Cyclohexane	UG/L	-				NA	
Ethylbenzene	UG/L	5				NA	
Isopropylbenzene (Cumene)	UG/L	5				NA	
Methyl ethyl ketone (2-Butanone)	UG/L	50				NA	
Methyl tert-butyl ether	UG/L	10				NA	
Methylcyclohexane	UG/L	-				NA	
Methylene chloride	UG/L	5				NA	
Naphthalene	UG/L	-		NA	NA	NA	
sec-Butylbenzene	UG/L	-		NA	NA	NA	
Tetrachloroethene	UG/L	5	6,100 D	5,800 J	3,700	NA	9,200 DJ
Toluene	UG/L	5				NA	
Trichloroethene	UG/L	5	23			NA	35
Trichlorofluoromethane	UG/L	5				NA	
Vinyl chloride	UG/L	2				NA	
Xylene (total)	UG/L	5				NA	
Semivolatile Organic Compounds							
1,1-Biphenyl	UG/L	-		NA	NA	NA	NA
2-Methylnaphthalene	UG/L	-		NA	NA	NA	NA
Carbazole	UG/L	50		NA	NA	NA	NA
Di-n-butylphthalate	UG/L	50	0.56 J	NA	NA	NA	NA
Naphthalene	UG/L	10		NA	NA	NA	NA

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Location ID			DEC-031	DEC-031	DEC-031	DEC-031	DEC-031
Sample ID			DEC-031	20111021-FD-1	DEC-031	DEC-031	DEC-031
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/21/11	10/21/11	10/21/11	04/01/12	04/20/12
Parameter	Units	Criteria*		Field Duplicate (1-1)			
Pesticide Organic Compounds							
gamma-BHC (Lindane)	UG/L	-	0.051 J	NA	NA	NA	NA
Metals							
Aluminum	UG/L	-	154 B	NA	NA	NA	NA
Barium	UG/L	1000	48.5 B	NA	NA	NA	NA
Calcium	UG/L	-	61,200	NA	NA	NA	NA
Chromium	UG/L	50		NA	NA	NA	NA
Cobalt	UG/L	-	1.8 B	NA	NA	NA	NA
Iron	UG/L	300	314	1,100 J	2,000 J	NA	NA
Magnesium	UG/L	35000	21,400	NA	NA	NA	NA
Manganese	UG/L	300	249	NA	NA	NA	NA
Nickel	UG/L	100	10.8 B	NA	NA	NA	NA
Potassium	UG/L	-	2,350	NA	NA	NA	NA
Sodium	UG/L	20000	71,000	NA	NA	NA	NA
Vanadium	UG/L	-		NA	NA	NA	NA
Zinc	UG/L	2000		NA	NA	NA	NA
Dissolved Metals							
Iron	UG/L	300	NA			NA	NA
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	NA	165	165	170	NA
Chloride	MG/L	250	NA	127	126	130	NA
Nitrate-Nitrite	MG/L	10	NA	0.50	0.47	2.76	NA
Phosphorous, Total (as P)	MG/L	-	NA	NA	NA	0.082	NA

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FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-031	DEC-031	DEC-031	DEC-031	DEC-031
Sample ID			DEC-031	20111021-FD-1	DEC-031	DEC-031	DEC-031
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/21/11	10/21/11	10/21/11	04/01/12	04/20/12
Parameter	Units	Criteria*		Field Duplicate (1-1)			
Miscellaneous Parameters							
Sulfate (as SO ₄)	MG/L	250	NA	32.6	31.6	48	NA
Sulfide	MG/L	0.05	NA	NA	NA		NA
Total Organic Carbon (TOC)	MG/L	-	NA	0.78 J	0.64 J	NA	NA
Dissolved Gases							
Ethane	UG/L	-	NA			NA	NA
Ethene	UG/L	-	NA			NA	NA
Methane	UG/L	-	NA	8.3	7.9	NA	NA

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TABLE 4-16
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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-031D	DEC-031D	DEC-031D	DEC-031D	DEC-031D
Sample ID			DEC-031D	DEC-031D	DEC-031D	DEC-031D	DEC-031D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			07/24/08	11/03/09	06/21/11	10/21/11	03/31/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-	NA	NA		NA	
1,1,1-Trichloroethane	UG/L	5					
1,1,2-Trichloroethane	UG/L	1					
1,1-Dichloroethane	UG/L	5					
1,1-Dichloroethene	UG/L	5					
1,2,3-Trichlorobenzene	UG/L	-	NA	NA		NA	
1,2,3-Trichloropropane	UG/L	-	NA	NA		NA	
1,2,4-Trichlorobenzene	UG/L	5					
1,2,4-Trimethylbenzene	UG/L	-	NA	NA		NA	
1,2-Dichlorobenzene	UG/L	3					
1,2-Dichloroethane	UG/L	0.6	100	130	86	59	130
1,2-Dichloroethene (cis)	UG/L	5					
1,2-Dichloroethene (trans)	UG/L	5					
1,2-Dichloropropane	UG/L	1					
1,4-Dichlorobenzene	UG/L	3					
Acetone	UG/L	50					
Benzene	UG/L	1					
Carbon disulfide	UG/L	60	4.6				
Carbon tetrachloride	UG/L	5					
Chloroethane	UG/L	5					
Chloroform	UG/L	7	1.3				
Chloromethane	UG/L	5					

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Location ID			DEC-031D	DEC-031D	DEC-031D	DEC-031D	DEC-031D
Sample ID			DEC-031D	DEC-031D	DEC-031D	DEC-031D	DEC-031D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			07/24/08	11/03/09	06/21/11	10/21/11	03/31/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Cyclohexane	UG/L	-					
Ethylbenzene	UG/L	5					
Isopropylbenzene (Cumene)	UG/L	5					
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Methyl tert-butyl ether	UG/L	10	1.2 J	0.97		0.89 J	
Methylcyclohexane	UG/L	-					
Methylene chloride	UG/L	5					
Naphthalene	UG/L	-	NA	NA		NA	
sec-Butylbenzene	UG/L	-	NA	NA		NA	
Tetrachloroethene	UG/L	5	20	9.0	16	3.8 J	3.6 J
Toluene	UG/L	5					
Trichloroethene	UG/L	5	1.1	1.2	1.2 J	0.96 J	
Trichlorofluoromethane	UG/L	5					
Vinyl chloride	UG/L	2					
Xylene (total)	UG/L	5					
Semivolatile Organic Compounds							
1,1-Biphenyl	UG/L	-	NA	NA		NA	NA
2-Methylnaphthalene	UG/L	-	NA	NA		NA	NA
Carbazole	UG/L	50	NA	NA		NA	NA
Di-n-butylphthalate	UG/L	50	NA	NA	0.72 J	NA	NA
Naphthalene	UG/L	10	NA	NA		NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-031D	DEC-031D	DEC-031D	DEC-031D	DEC-031D
Sample ID			DEC-031D	DEC-031D	DEC-031D	DEC-031D	DEC-031D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			07/24/08	11/03/09	06/21/11	10/21/11	03/31/12
Parameter	Units	Criteria*					
Pesticide Organic Compounds							
gamma-BHC (Lindane)	UG/L	-	NA	NA		NA	NA
Metals							
Aluminum	UG/L	-	NA	NA	464	NA	NA
Barium	UG/L	1000	NA	NA	36.8 B	NA	NA
Calcium	UG/L	-	NA	NA	111,000	NA	NA
Chromium	UG/L	50	NA	NA	2.0 B	NA	NA
Cobalt	UG/L	-	NA	NA	6.1 B	NA	NA
Iron	UG/L	300	NA	NA	1,530	1,000	NA
Magnesium	UG/L	35000	NA	NA	58,400	NA	NA
Manganese	UG/L	300	NA	NA	2,300	NA	NA
Nickel	UG/L	100	NA	NA	4.2 B	NA	NA
Potassium	UG/L	-	NA	NA	7,020	NA	NA
Sodium	UG/L	20000	NA	NA	102,000	NA	NA
Vanadium	UG/L	-	NA	NA	2.2 B	NA	NA
Zinc	UG/L	2000	NA	NA	11.0 B	NA	NA
Dissolved Metals							
Iron	UG/L	300	NA	NA	NA	230	NA
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	NA	NA	NA	148	150
Chloride	MG/L	250	NA	NA	NA	262	250
Nitrate-Nitrite	MG/L	10	NA	NA	NA	4.2	5.28
Phosphorous, Total (as P)	MG/L	-	NA	NA	NA	NA	0.089

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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-031D	DEC-031D	DEC-031D	DEC-031D	DEC-031D
Sample ID			DEC-031D	DEC-031D	DEC-031D	DEC-031D	DEC-031D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			07/24/08	11/03/09	06/21/11	10/21/11	03/31/12
Parameter	Units	Criteria*					
Miscellaneous Parameters							
Sulfate (as SO ₄)	MG/L	250	NA	NA	NA	233	210
Sulfide	MG/L	0.05	NA	NA	NA	NA	
Total Organic Carbon (TOC)	MG/L	-	NA	NA	NA		NA
Dissolved Gases							
Ethane	UG/L	-	NA	NA	NA		NA
Ethene	UG/L	-	NA	NA	NA		NA
Methane	UG/L	-	NA	NA	NA	0.49 J	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-031TC	DEC-031TC	DEC-032	DEC-032	DEC-032
Sample ID			DEC-031TC	DEC-031TC	121207-FD-01	DEC-032	DEC-032
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			10/26/11	03/30/12	12/12/07	12/12/07	07/17/08
Parameter	Units	Criteria*			Field Duplicate (1-1)		
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-	NA		NA	NA	NA
1,1,1-Trichloroethane	UG/L	5					
1,1,2-Trichloroethane	UG/L	1					
1,1-Dichloroethane	UG/L	5					
1,1-Dichloroethene	UG/L	5					
1,2,3-Trichlorobenzene	UG/L	-	NA		NA	NA	NA
1,2,3-Trichloropropane	UG/L	-	NA		NA	NA	NA
1,2,4-Trichlorobenzene	UG/L	5					
1,2,4-Trimethylbenzene	UG/L	-	NA		NA	NA	NA
1,2-Dichlorobenzene	UG/L	3					
1,2-Dichloroethane	UG/L	0.6	4.4				
1,2-Dichloroethene (cis)	UG/L	5					
1,2-Dichloroethene (trans)	UG/L	5					
1,2-Dichloropropane	UG/L	1					
1,4-Dichlorobenzene	UG/L	3					
Acetone	UG/L	50			190 J	180 J	
Benzene	UG/L	1					
Carbon disulfide	UG/L	60					
Carbon tetrachloride	UG/L	5					
Chloroethane	UG/L	5					
Chloroform	UG/L	7	7.4	1.3 J			
Chloromethane	UG/L	5					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria

- = No standard, criteria or guidance value. Blank cell or ND - Not Detected. NA - Not analyzed.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

B (metals only) - The reported concentration is above the method detection limit but below the quantitation limit.

Only Detected Results Reported.

TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-031TC	DEC-031TC	DEC-032	DEC-032	DEC-032
Sample ID			DEC-031TC	DEC-031TC	121207-FD-01	DEC-032	DEC-032
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			10/26/11	03/30/12	12/12/07	12/12/07	07/17/08
Parameter	Units	Criteria*			Field Duplicate (1-1)		
Volatile Organic Compounds							
Cyclohexane	UG/L	-					
Ethylbenzene	UG/L	5					
Isopropylbenzene (Cumene)	UG/L	5					
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Methyl tert-butyl ether	UG/L	10					
Methylcyclohexane	UG/L	-					
Methylene chloride	UG/L	5	1.1				
Naphthalene	UG/L	-	NA		NA	NA	NA
sec-Butylbenzene	UG/L	-	NA		NA	NA	NA
Tetrachloroethene	UG/L	5	3.4	1.9 J	1.5 J	1.5 J	1.2
Toluene	UG/L	5					
Trichloroethene	UG/L	5					
Trichlorofluoromethane	UG/L	5					
Vinyl chloride	UG/L	2					
Xylene (total)	UG/L	5					
Semivolatile Organic Compounds							
1,1-Biphenyl	UG/L	-	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	-	NA	NA	NA	NA	NA
Carbazole	UG/L	50	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	50	NA	NA	NA	NA	NA
Naphthalene	UG/L	10	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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- = No standard, criteria or guidance value. Blank cell or ND - Not Detected. NA - Not analyzed.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

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Only Detected Results Reported.

TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-031TC	DEC-031TC	DEC-032	DEC-032	DEC-032
Sample ID			DEC-031TC	DEC-031TC	121207-FD-01	DEC-032	DEC-032
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			10/26/11	03/30/12	12/12/07	12/12/07	07/17/08
Parameter	Units	Criteria*			Field Duplicate (1-1)		
Pesticide Organic Compounds							
gamma-BHC (Lindane)	UG/L	-	NA	NA	NA	NA	NA
Metals							
Aluminum	UG/L	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	NA	NA	NA	NA	NA
Calcium	UG/L	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	NA	NA	NA	NA	NA
Cobalt	UG/L	-	NA	NA	NA	NA	NA
Iron	UG/L	300	11,900	NA	NA	NA	NA
Magnesium	UG/L	35000	NA	NA	NA	NA	NA
Manganese	UG/L	300	NA	NA	NA	NA	NA
Nickel	UG/L	100	NA	NA	NA	NA	NA
Potassium	UG/L	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	NA	NA	NA	NA	NA
Vanadium	UG/L	-	NA	NA	NA	NA	NA
Zinc	UG/L	2000	NA	NA	NA	NA	NA
Dissolved Metals							
Iron	UG/L	300	11,700	NA	NA	NA	NA
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	92.0	91	NA	NA	NA
Chloride	MG/L	250	170	180	NA	NA	NA
Nitrate-Nitrite	MG/L	10			NA	NA	NA
Phosphorous, Total (as P)	MG/L	-	NA	0.16	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-031TC	DEC-031TC	DEC-032	DEC-032	DEC-032
Sample ID			DEC-031TC	DEC-031TC	121207-FD-01	DEC-032	DEC-032
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			10/26/11	03/30/12	12/12/07	12/12/07	07/17/08
Parameter	Units	Criteria*			Field Duplicate (1-1)		
Miscellaneous Parameters							
Sulfate (as SO ₄)	MG/L	250	6.0	2.6 J	NA	NA	NA
Sulfide	MG/L	0.05	NA		NA	NA	NA
Total Organic Carbon (TOC)	MG/L	-	2.3	NA	NA	NA	NA
Dissolved Gases							
Ethane	UG/L	-	1.7	NA	NA	NA	NA
Ethene	UG/L	-	0.52 J	NA	NA	NA	NA
Methane	UG/L	-	7.4	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-032	DEC-032	DEC-032	DEC-033	DEC-033
Sample ID			DEC-032	DEC-032	DEC-032	DEC-033	DEC-033
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			11/04/09	06/22/11	03/27/12	12/12/07	11/03/09
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-	NA			NA	NA
1,1,1-Trichloroethane	UG/L	5					
1,1,2-Trichloroethane	UG/L	1					
1,1-Dichloroethane	UG/L	5					
1,1-Dichloroethene	UG/L	5					
1,2,3-Trichlorobenzene	UG/L	-	NA			NA	NA
1,2,3-Trichloropropane	UG/L	-	NA			NA	NA
1,2,4-Trichlorobenzene	UG/L	5					
1,2,4-Trimethylbenzene	UG/L	-	NA			NA	NA
1,2-Dichlorobenzene	UG/L	3					
1,2-Dichloroethane	UG/L	0.6					
1,2-Dichloroethene (cis)	UG/L	5					
1,2-Dichloroethene (trans)	UG/L	5					
1,2-Dichloropropane	UG/L	1					
1,4-Dichlorobenzene	UG/L	3					
Acetone	UG/L	50					
Benzene	UG/L	1					
Carbon disulfide	UG/L	60					
Carbon tetrachloride	UG/L	5					
Chloroethane	UG/L	5					
Chloroform	UG/L	7				5.3	
Chloromethane	UG/L	5					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-032	DEC-032	DEC-032	DEC-033	DEC-033
Sample ID			DEC-032	DEC-032	DEC-032	DEC-033	DEC-033
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			11/04/09	06/22/11	03/27/12	12/12/07	11/03/09
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Cyclohexane	UG/L	-					
Ethylbenzene	UG/L	5					
Isopropylbenzene (Cumene)	UG/L	5					
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Methyl tert-butyl ether	UG/L	10					
Methylcyclohexane	UG/L	-					
Methylene chloride	UG/L	5				2.1 J	
Naphthalene	UG/L	-	NA			NA	NA
sec-Butylbenzene	UG/L	-	NA			NA	NA
Tetrachloroethene	UG/L	5	1.4	3.0 J		3.6 J	
Toluene	UG/L	5					
Trichloroethene	UG/L	5		1.3 J		1.8 J	
Trichlorofluoromethane	UG/L	5					
Vinyl chloride	UG/L	2					
Xylene (total)	UG/L	5					
Semivolatile Organic Compounds							
1,1-Biphenyl	UG/L	-	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	-	NA	NA	NA	NA	NA
Carbazole	UG/L	50	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	50	NA	NA	NA	NA	NA
Naphthalene	UG/L	10	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-032	DEC-032	DEC-032	DEC-033	DEC-033
Sample ID			DEC-032	DEC-032	DEC-032	DEC-033	DEC-033
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			11/04/09	06/22/11	03/27/12	12/12/07	11/03/09
Parameter	Units	Criteria*					
Pesticide Organic Compounds							
gamma-BHC (Lindane)	UG/L	-	NA	NA	NA	NA	NA
Metals							
Aluminum	UG/L	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	NA	NA	NA	NA	NA
Calcium	UG/L	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	NA	NA	NA	NA	NA
Cobalt	UG/L	-	NA	NA	NA	NA	NA
Iron	UG/L	300	NA	NA	NA	NA	NA
Magnesium	UG/L	35000	NA	NA	NA	NA	NA
Manganese	UG/L	300	NA	NA	NA	NA	NA
Nickel	UG/L	100	NA	NA	NA	NA	NA
Potassium	UG/L	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	NA	NA	NA	NA	NA
Vanadium	UG/L	-	NA	NA	NA	NA	NA
Zinc	UG/L	2000	NA	NA	NA	NA	NA
Dissolved Metals							
Iron	UG/L	300	NA	NA	NA	NA	NA
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	NA	NA	90	NA	NA
Chloride	MG/L	250	NA	NA	200	NA	NA
Nitrate-Nitrite	MG/L	10	NA	NA		NA	NA
Phosphorous, Total (as P)	MG/L	-	NA	NA	0.10	NA	NA

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-032	DEC-032	DEC-032	DEC-033	DEC-033
Sample ID			DEC-032	DEC-032	DEC-032	DEC-033	DEC-033
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			11/04/09	06/22/11	03/27/12	12/12/07	11/03/09
Parameter	Units	Criteria*					
Miscellaneous Parameters							
Sulfate (as SO ₄)	MG/L	250	NA	NA	10.0	NA	NA
Sulfide	MG/L	0.05	NA	NA		NA	NA
Total Organic Carbon (TOC)	MG/L	-	NA	NA	NA	NA	NA
Dissolved Gases							
Ethane	UG/L	-	NA	NA	NA	NA	NA
Ethene	UG/L	-	NA	NA	NA	NA	NA
Methane	UG/L	-	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-033	DEC-033	DEC-039	DEC-039	DEC-039
Sample ID			DEC-033	DEC-033	DEC-039	DEC-039	DUP-062411
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/21/11	03/30/12	07/18/08	06/24/11	06/24/11
Parameter	Units	Criteria*					Field Duplicate (1-1)
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-			NA		
1,1,1-Trichloroethane	UG/L	5			10 J	3.6 J	
1,1,2-Trichloroethane	UG/L	1					
1,1-Dichloroethane	UG/L	5			4.1	2.6 J	2.8 J
1,1-Dichloroethene	UG/L	5					
1,2,3-Trichlorobenzene	UG/L	-			NA		
1,2,3-Trichloropropane	UG/L	-			NA		
1,2,4-Trichlorobenzene	UG/L	5					
1,2,4-Trimethylbenzene	UG/L	-			NA		
1,2-Dichlorobenzene	UG/L	3					
1,2-Dichloroethane	UG/L	0.6					
1,2-Dichloroethene (cis)	UG/L	5			14	23	24
1,2-Dichloroethene (trans)	UG/L	5					
1,2-Dichloropropane	UG/L	1					
1,4-Dichlorobenzene	UG/L	3					
Acetone	UG/L	50					
Benzene	UG/L	1					
Carbon disulfide	UG/L	60					
Carbon tetrachloride	UG/L	5					
Chloroethane	UG/L	5					
Chloroform	UG/L	7			1.3		
Chloromethane	UG/L	5					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-033	DEC-033	DEC-039	DEC-039	DEC-039
Sample ID			DEC-033	DEC-033	DEC-039	DEC-039	DUP-062411
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/21/11	03/30/12	07/18/08	06/24/11	06/24/11
Parameter	Units	Criteria*					Field Duplicate (1-1)
Volatile Organic Compounds							
Cyclohexane	UG/L	-					
Ethylbenzene	UG/L	5					
Isopropylbenzene (Cumene)	UG/L	5					
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Methyl tert-butyl ether	UG/L	10					
Methylcyclohexane	UG/L	-					
Methylene chloride	UG/L	5					
Naphthalene	UG/L	-			NA		
sec-Butylbenzene	UG/L	-			NA		
Tetrachloroethene	UG/L	5		2.1 J	62	58	59
Toluene	UG/L	5					
Trichloroethene	UG/L	5		0.85 J	210	230 D	240 D
Trichlorofluoromethane	UG/L	5				24	26
Vinyl chloride	UG/L	2					
Xylene (total)	UG/L	5					
Semivolatile Organic Compounds							
1,1-Biphenyl	UG/L	-	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	-	NA	NA	NA	NA	NA
Carbazole	UG/L	50	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	50	NA	NA	NA	NA	NA
Naphthalene	UG/L	10	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-033	DEC-033	DEC-039	DEC-039	DEC-039
Sample ID			DEC-033	DEC-033	DEC-039	DEC-039	DUP-062411
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/21/11	03/30/12	07/18/08	06/24/11	06/24/11
Parameter	Units	Criteria*					Field Duplicate (1-1)
Pesticide Organic Compounds							
gamma-BHC (Lindane)	UG/L	-	NA	NA	NA	NA	NA
Metals							
Aluminum	UG/L	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	NA	NA	NA	NA	NA
Calcium	UG/L	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	NA	NA	NA	NA	NA
Cobalt	UG/L	-	NA	NA	NA	NA	NA
Iron	UG/L	300	NA	NA	NA	NA	NA
Magnesium	UG/L	35000	NA	NA	NA	NA	NA
Manganese	UG/L	300	NA	NA	NA	NA	NA
Nickel	UG/L	100	NA	NA	NA	NA	NA
Potassium	UG/L	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	NA	NA	NA	NA	NA
Vanadium	UG/L	-	NA	NA	NA	NA	NA
Zinc	UG/L	2000	NA	NA	NA	NA	NA
Dissolved Metals							
Iron	UG/L	300	NA	NA	NA	NA	NA
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	NA	140	NA	NA	NA
Chloride	MG/L	250	NA	900	NA	NA	NA
Nitrate-Nitrite	MG/L	10	NA	1.17	NA	NA	NA
Phosphorous, Total (as P)	MG/L	-	NA	0.50	NA	NA	NA

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-033	DEC-033	DEC-039	DEC-039	DEC-039
Sample ID			DEC-033	DEC-033	DEC-039	DEC-039	DUP-062411
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/21/11	03/30/12	07/18/08	06/24/11	06/24/11
Parameter	Units	Criteria*					Field Duplicate (1-1)
Miscellaneous Parameters							
Sulfate (as SO ₄)	MG/L	250	NA	150	NA	NA	NA
Sulfide	MG/L	0.05	NA		NA	NA	NA
Total Organic Carbon (TOC)	MG/L	-	NA	NA	NA	NA	NA
Dissolved Gases							
Ethane	UG/L	-	NA	NA	NA	NA	NA
Ethene	UG/L	-	NA	NA	NA	NA	NA
Methane	UG/L	-	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

Flags assigned during chemistry validation are shown.



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Only Detected Results Reported.

TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-039	DEC-042	DEC-042	DEC-042	DEC-042
Sample ID			DEC-039	DEC-042	DEC-042	DEC-042	DEC-042
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/28/12	07/21/08	11/09/09	06/23/11	10/23/11
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-		NA	NA		NA
1,1,1-Trichloroethane	UG/L	5	6.9	3.9	4.6	2.9 J	3.0
1,1,2-Trichloroethane	UG/L	1					
1,1-Dichloroethane	UG/L	5	4.2 J	1.6	2.8	1.1 J	1.7
1,1-Dichloroethene	UG/L	5					1.2
1,2,3-Trichlorobenzene	UG/L	-		NA	NA		NA
1,2,3-Trichloropropane	UG/L	-		NA	NA		NA
1,2,4-Trichlorobenzene	UG/L	5					
1,2,4-Trimethylbenzene	UG/L	-		NA	NA		NA
1,2-Dichlorobenzene	UG/L	3					
1,2-Dichloroethane	UG/L	0.6					
1,2-Dichloroethene (cis)	UG/L	5	23	21	13	6.3 J	8.0
1,2-Dichloroethene (trans)	UG/L	5					
1,2-Dichloropropane	UG/L	1					
1,4-Dichlorobenzene	UG/L	3					
Acetone	UG/L	50					
Benzene	UG/L	1					
Carbon disulfide	UG/L	60					
Carbon tetrachloride	UG/L	5					
Chloroethane	UG/L	5					
Chloroform	UG/L	7			6.5	1.4 J	1.6
Chloromethane	UG/L	5					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-039	DEC-042	DEC-042	DEC-042	DEC-042
Sample ID			DEC-039	DEC-042	DEC-042	DEC-042	DEC-042
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/28/12	07/21/08	11/09/09	06/23/11	10/23/11
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Cyclohexane	UG/L	-					
Ethylbenzene	UG/L	5					
Isopropylbenzene (Cumene)	UG/L	5					
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Methyl tert-butyl ether	UG/L	10					
Methylcyclohexane	UG/L	-					
Methylene chloride	UG/L	5					
Naphthalene	UG/L	-		NA	NA		NA
sec-Butylbenzene	UG/L	-		NA	NA		NA
Tetrachloroethene	UG/L	5	62 J	52	35	62	59
Toluene	UG/L	5					
Trichloroethene	UG/L	5	150	210 D	90	73	69
Trichlorofluoromethane	UG/L	5	11	35	58	23	17
Vinyl chloride	UG/L	2					
Xylene (total)	UG/L	5					
Semivolatile Organic Compounds							
1,1-Biphenyl	UG/L	-	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	-	NA	NA	NA	NA	NA
Carbazole	UG/L	50	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	50	NA	NA	NA	NA	NA
Naphthalene	UG/L	10	NA	NA	NA	NA	NA

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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-039	DEC-042	DEC-042	DEC-042	DEC-042
Sample ID			DEC-039	DEC-042	DEC-042	DEC-042	DEC-042
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/28/12	07/21/08	11/09/09	06/23/11	10/23/11
Parameter	Units	Criteria*					
Pesticide Organic Compounds							
gamma-BHC (Lindane)	UG/L	-	NA	NA	NA	NA	NA
Metals							
Aluminum	UG/L	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	NA	NA	NA	NA	NA
Calcium	UG/L	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	NA	NA	NA	NA	NA
Cobalt	UG/L	-	NA	NA	NA	NA	NA
Iron	UG/L	300	NA	NA	NA	NA	1,200
Magnesium	UG/L	35000	NA	NA	NA	NA	NA
Manganese	UG/L	300	NA	NA	NA	NA	NA
Nickel	UG/L	100	NA	NA	NA	NA	NA
Potassium	UG/L	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	NA	NA	NA	NA	NA
Vanadium	UG/L	-	NA	NA	NA	NA	NA
Zinc	UG/L	2000	NA	NA	NA	NA	NA
Dissolved Metals							
Iron	UG/L	300	NA	NA	NA	NA	76.0
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	210	NA	NA	NA	181
Chloride	MG/L	250	200	NA	NA	NA	93.8
Nitrate-Nitrite	MG/L	10	19.2	NA	NA	NA	16.4
Phosphorous, Total (as P)	MG/L	-	0.28	NA	NA	NA	NA

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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-039	DEC-042	DEC-042	DEC-042	DEC-042
Sample ID			DEC-039	DEC-042	DEC-042	DEC-042	DEC-042
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/28/12	07/21/08	11/09/09	06/23/11	10/23/11
Parameter	Units	Criteria*					
Miscellaneous Parameters							
Sulfate (as SO ₄)	MG/L	250	120	NA	NA	NA	85.4
Sulfide	MG/L	0.05		NA	NA	NA	NA
Total Organic Carbon (TOC)	MG/L	-	NA	NA	NA	NA	0.61 J
Dissolved Gases							
Ethane	UG/L	-	NA	NA	NA	NA	
Ethene	UG/L	-	NA	NA	NA	NA	
Methane	UG/L	-	NA	NA	NA	NA	

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-042	DEC-043	DEC-043	DEC-043	DEC-043
Sample ID			DEC-042	DEC-043	DEC-043	DEC-043	DEC-043
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/30/12	07/22/08	11/04/09	06/22/11	10/20/11
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-		NA	NA		NA
1,1,1-Trichloroethane	UG/L	5	12				
1,1,2-Trichloroethane	UG/L	1					
1,1-Dichloroethane	UG/L	5	4.9 J				
1,1-Dichloroethene	UG/L	5					
1,2,3-Trichlorobenzene	UG/L	-		NA	NA		NA
1,2,3-Trichloropropane	UG/L	-		NA	NA		NA
1,2,4-Trichlorobenzene	UG/L	5					
1,2,4-Trimethylbenzene	UG/L	-		NA	NA		NA
1,2-Dichlorobenzene	UG/L	3					
1,2-Dichloroethane	UG/L	0.6					
1,2-Dichloroethene (cis)	UG/L	5	15				
1,2-Dichloroethene (trans)	UG/L	5					
1,2-Dichloropropane	UG/L	1					
1,4-Dichlorobenzene	UG/L	3					
Acetone	UG/L	50					
Benzene	UG/L	1					
Carbon disulfide	UG/L	60					
Carbon tetrachloride	UG/L	5					
Chloroethane	UG/L	5					
Chloroform	UG/L	7	1.3 J				
Chloromethane	UG/L	5					

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FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-042	DEC-043	DEC-043	DEC-043	DEC-043
Sample ID			DEC-042	DEC-043	DEC-043	DEC-043	DEC-043
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/30/12	07/22/08	11/04/09	06/22/11	10/20/11
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Cyclohexane	UG/L	-					
Ethylbenzene	UG/L	5					
Isopropylbenzene (Cumene)	UG/L	5					
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Methyl tert-butyl ether	UG/L	10			0.77		
Methylcyclohexane	UG/L	-					
Methylene chloride	UG/L	5					
Naphthalene	UG/L	-		NA	NA		NA
sec-Butylbenzene	UG/L	-		NA	NA		NA
Tetrachloroethene	UG/L	5	72 J	33	37	12	13
Toluene	UG/L	5					
Trichloroethene	UG/L	5	48	1.3	1.9		1.5 J
Trichlorofluoromethane	UG/L	5	13				
Vinyl chloride	UG/L	2					
Xylene (total)	UG/L	5					
Semivolatile Organic Compounds							
1,1-Biphenyl	UG/L	-	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	-	NA	NA	NA	NA	NA
Carbazole	UG/L	50	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	50	NA	NA	NA	NA	NA
Naphthalene	UG/L	10	NA	NA	NA	NA	NA

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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-042	DEC-043	DEC-043	DEC-043	DEC-043
Sample ID			DEC-042	DEC-043	DEC-043	DEC-043	DEC-043
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/30/12	07/22/08	11/04/09	06/22/11	10/20/11
Parameter	Units	Criteria*					
Pesticide Organic Compounds							
gamma-BHC (Lindane)	UG/L	-	NA	NA	NA	NA	NA
Metals							
Aluminum	UG/L	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	NA	NA	NA	NA	NA
Calcium	UG/L	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	NA	NA	NA	NA	NA
Cobalt	UG/L	-	NA	NA	NA	NA	NA
Iron	UG/L	300	NA	NA	NA	NA	1,200
Magnesium	UG/L	35000	NA	NA	NA	NA	NA
Manganese	UG/L	300	NA	NA	NA	NA	NA
Nickel	UG/L	100	NA	NA	NA	NA	NA
Potassium	UG/L	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	NA	NA	NA	NA	NA
Vanadium	UG/L	-	NA	NA	NA	NA	NA
Zinc	UG/L	2000	NA	NA	NA	NA	NA
Dissolved Metals							
Iron	UG/L	300	NA	NA	NA	NA	47.0 J
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	190	NA	NA	NA	213
Chloride	MG/L	250	190	NA	NA	NA	101
Nitrate-Nitrite	MG/L	10	16.4	NA	NA	NA	1.4
Phosphorous, Total (as P)	MG/L	-	0.15	NA	NA	NA	NA

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-042	DEC-043	DEC-043	DEC-043	DEC-043
Sample ID			DEC-042	DEC-043	DEC-043	DEC-043	DEC-043
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/30/12	07/22/08	11/04/09	06/22/11	10/20/11
Parameter	Units	Criteria*					
Miscellaneous Parameters							
Sulfate (as SO ₄)	MG/L	250	96	NA	NA	NA	62.2
Sulfide	MG/L	0.05		NA	NA	NA	NA
Total Organic Carbon (TOC)	MG/L	-	NA	NA	NA	NA	
Dissolved Gases							
Ethane	UG/L	-	NA	NA	NA	NA	
Ethene	UG/L	-	NA	NA	NA	NA	
Methane	UG/L	-	NA	NA	NA	NA	5.1

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-043	DEC-043D	DEC-043D	DEC-043D	DEC-044
Sample ID			DEC-043	DEC-043D	DEC-043D	DEC-043D	DEC-044
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/29/12	06/22/11	10/20/11	03/29/12	07/23/08
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-			NA		NA
1,1,1-Trichloroethane	UG/L	5					
1,1,2-Trichloroethane	UG/L	1					
1,1-Dichloroethane	UG/L	5					
1,1-Dichloroethene	UG/L	5					
1,2,3-Trichlorobenzene	UG/L	-			NA		NA
1,2,3-Trichloropropane	UG/L	-			NA		NA
1,2,4-Trichlorobenzene	UG/L	5					
1,2,4-Trimethylbenzene	UG/L	-			NA		NA
1,2-Dichlorobenzene	UG/L	3					
1,2-Dichloroethane	UG/L	0.6		9.4	7.7	4.6 J	
1,2-Dichloroethene (cis)	UG/L	5					120 D
1,2-Dichloroethene (trans)	UG/L	5					
1,2-Dichloropropane	UG/L	1					
1,4-Dichlorobenzene	UG/L	3					
Acetone	UG/L	50					22
Benzene	UG/L	1					
Carbon disulfide	UG/L	60					
Carbon tetrachloride	UG/L	5					
Chloroethane	UG/L	5					
Chloroform	UG/L	7					1.8
Chloromethane	UG/L	5					

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-043	DEC-043D	DEC-043D	DEC-043D	DEC-044
Sample ID			DEC-043	DEC-043D	DEC-043D	DEC-043D	DEC-044
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/29/12	06/22/11	10/20/11	03/29/12	07/23/08
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Cyclohexane	UG/L	-					
Ethylbenzene	UG/L	5					
Isopropylbenzene (Cumene)	UG/L	5					
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Methyl tert-butyl ether	UG/L	10			0.89 J	0.60 J	
Methylcyclohexane	UG/L	-					
Methylene chloride	UG/L	5					
Naphthalene	UG/L	-			NA		NA
sec-Butylbenzene	UG/L	-			NA		NA
Tetrachloroethene	UG/L	5	14 J	9.0	7.8 J	8.2 J	3,600 D
Toluene	UG/L	5					
Trichloroethene	UG/L	5	1.3 J	1.2 J	1.4 J	1.3 J	180 D
Trichlorofluoromethane	UG/L	5					
Vinyl chloride	UG/L	2					
Xylene (total)	UG/L	5					
Semivolatile Organic Compounds							
1,1-Biphenyl	UG/L	-	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	-	NA	NA	NA	NA	NA
Carbazole	UG/L	50	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	50	NA	NA	NA	NA	NA
Naphthalene	UG/L	10	NA	NA	NA	NA	NA

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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-043	DEC-043D	DEC-043D	DEC-043D	DEC-044
Sample ID			DEC-043	DEC-043D	DEC-043D	DEC-043D	DEC-044
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/29/12	06/22/11	10/20/11	03/29/12	07/23/08
Parameter	Units	Criteria*					
Pesticide Organic Compounds							
gamma-BHC (Lindane)	UG/L	-	NA	NA	NA	NA	NA
Metals							
Aluminum	UG/L	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	NA	NA	NA	NA	NA
Calcium	UG/L	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	NA	NA	NA	NA	NA
Cobalt	UG/L	-	NA	NA	NA	NA	NA
Iron	UG/L	300	NA	NA	310	NA	NA
Magnesium	UG/L	35000	NA	NA	NA	NA	NA
Manganese	UG/L	300	NA	NA	NA	NA	NA
Nickel	UG/L	100	NA	NA	NA	NA	NA
Potassium	UG/L	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	NA	NA	NA	NA	NA
Vanadium	UG/L	-	NA	NA	NA	NA	NA
Zinc	UG/L	2000	NA	NA	NA	NA	NA
Dissolved Metals							
Iron	UG/L	300	NA	NA	240	NA	NA
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	250	NA	175	190	NA
Chloride	MG/L	250	68	NA	223	220	NA
Nitrate-Nitrite	MG/L	10	2.26	NA	1.7	2.40	NA
Phosphorous, Total (as P)	MG/L	-	0.083	NA	NA	0.11	NA

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SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-043	DEC-043D	DEC-043D	DEC-043D	DEC-044
Sample ID			DEC-043	DEC-043D	DEC-043D	DEC-043D	DEC-044
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/29/12	06/22/11	10/20/11	03/29/12	07/23/08
Parameter	Units	Criteria*					
Miscellaneous Parameters							
Sulfate (as SO ₄)	MG/L	250	69	NA	127	110	NA
Sulfide	MG/L	0.05		NA	NA		NA
Total Organic Carbon (TOC)	MG/L	-	NA	NA	1.2	NA	NA
Dissolved Gases							
Ethane	UG/L	-	NA	NA		NA	NA
Ethene	UG/L	-	NA	NA		NA	NA
Methane	UG/L	-	NA	NA	20	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-044	DEC-044	DEC-044	DEC-044D	DEC-044D
Sample ID			DEC-044	DEC-044	DEC-044	DEC-044D	20120401-FD-1
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			11/03/09	06/23/11	03/31/12	06/23/11	04/01/12
Parameter	Units	Criteria*					Field Duplicate (1-1)
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-	NA				
1,1,1-Trichloroethane	UG/L	5					
1,1,2-Trichloroethane	UG/L	1					
1,1-Dichloroethane	UG/L	5					
1,1-Dichloroethene	UG/L	5				1.3 J	
1,2,3-Trichlorobenzene	UG/L	-	NA				
1,2,3-Trichloropropane	UG/L	-	NA				
1,2,4-Trichlorobenzene	UG/L	5					
1,2,4-Trimethylbenzene	UG/L	-	NA				
1,2-Dichlorobenzene	UG/L	3					
1,2-Dichloroethane	UG/L	0.6				500 D	300 D
1,2-Dichloroethene (cis)	UG/L	5		2.0 J			
1,2-Dichloroethene (trans)	UG/L	5					
1,2-Dichloropropane	UG/L	1					
1,4-Dichlorobenzene	UG/L	3					
Acetone	UG/L	50					
Benzene	UG/L	1					
Carbon disulfide	UG/L	60					
Carbon tetrachloride	UG/L	5					
Chloroethane	UG/L	5					
Chloroform	UG/L	7				6.5	
Chloromethane	UG/L	5					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-044	DEC-044	DEC-044	DEC-044D	DEC-044D
Sample ID			DEC-044	DEC-044	DEC-044	DEC-044D	20120401-FD-1
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			11/03/09	06/23/11	03/31/12	06/23/11	04/01/12
Parameter	Units	Criteria*					Field Duplicate (1-1)
Volatile Organic Compounds							
Cyclohexane	UG/L	-					
Ethylbenzene	UG/L	5					
Isopropylbenzene (Cumene)	UG/L	5					
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Methyl tert-butyl ether	UG/L	10					
Methylcyclohexane	UG/L	-					
Methylene chloride	UG/L	5					
Naphthalene	UG/L	-	NA				
sec-Butylbenzene	UG/L	-	NA				
Tetrachloroethene	UG/L	5	3,100	1,500 D	890 J	1.5 J	
Toluene	UG/L	5					
Trichloroethene	UG/L	5	23	8.6	49 J		
Trichlorofluoromethane	UG/L	5					
Vinyl chloride	UG/L	2					
Xylene (total)	UG/L	5					
Semivolatile Organic Compounds							
1,1-Biphenyl	UG/L	-	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	-	NA	NA	NA	NA	NA
Carbazole	UG/L	50	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	50	NA	NA	NA	NA	NA
Naphthalene	UG/L	10	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-044	DEC-044	DEC-044	DEC-044D	DEC-044D
Sample ID			DEC-044	DEC-044	DEC-044	DEC-044D	20120401-FD-1
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			11/03/09	06/23/11	03/31/12	06/23/11	04/01/12
Parameter	Units	Criteria*					Field Duplicate (1-1)
Pesticide Organic Compounds							
gamma-BHC (Lindane)	UG/L	-	NA	NA	NA	NA	NA
Metals							
Aluminum	UG/L	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	NA	NA	NA	NA	NA
Calcium	UG/L	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	NA	NA	NA	NA	NA
Cobalt	UG/L	-	NA	NA	NA	NA	NA
Iron	UG/L	300	NA	NA	NA	NA	NA
Magnesium	UG/L	35000	NA	NA	NA	NA	NA
Manganese	UG/L	300	NA	NA	NA	NA	NA
Nickel	UG/L	100	NA	NA	NA	NA	NA
Potassium	UG/L	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	NA	NA	NA	NA	NA
Vanadium	UG/L	-	NA	NA	NA	NA	NA
Zinc	UG/L	2000	NA	NA	NA	NA	NA
Dissolved Metals							
Iron	UG/L	300	NA	NA	NA	NA	NA
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	NA	NA	100	NA	180
Chloride	MG/L	250	NA	NA	40	NA	280
Nitrate-Nitrite	MG/L	10	NA	NA	0.774	NA	4.52
Phosphorous, Total (as P)	MG/L	-	NA	NA	0.067	NA	0.13

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-044	DEC-044	DEC-044	DEC-044D	DEC-044D
Sample ID			DEC-044	DEC-044	DEC-044	DEC-044D	20120401-FD-1
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			11/03/09	06/23/11	03/31/12	06/23/11	04/01/12
Parameter	Units	Criteria*					Field Duplicate (1-1)
Miscellaneous Parameters							
Sulfate (as SO ₄)	MG/L	250	NA	NA	36	NA	350
Sulfide	MG/L	0.05	NA	NA		NA	
Total Organic Carbon (TOC)	MG/L	-	NA	NA	NA	NA	NA
Dissolved Gases							
Ethane	UG/L	-	NA	NA	NA	NA	NA
Ethene	UG/L	-	NA	NA	NA	NA	NA
Methane	UG/L	-	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-044D	DEC-045	DEC-045	DEC-045	DEC-045
Sample ID			DEC-044D	072308-FD-1	DEC-045	DEC-045	DUP-110409
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			04/01/12	07/23/08	07/23/08	11/04/09	11/04/09
Parameter	Units	Criteria*		Field Duplicate (1-1)			Field Duplicate (1-1)
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-		NA	NA	NA	NA
1,1,1-Trichloroethane	UG/L	5					
1,1,2-Trichloroethane	UG/L	1					
1,1-Dichloroethane	UG/L	5		2.4	2.2		
1,1-Dichloroethene	UG/L	5					
1,2,3-Trichlorobenzene	UG/L	-		NA	NA	NA	NA
1,2,3-Trichloropropane	UG/L	-		NA	NA	NA	NA
1,2,4-Trichlorobenzene	UG/L	5					
1,2,4-Trimethylbenzene	UG/L	-		NA	NA	NA	NA
1,2-Dichlorobenzene	UG/L	3					
1,2-Dichloroethane	UG/L	0.6	280 D				
1,2-Dichloroethene (cis)	UG/L	5		5.2	5.2	1.5	1.5
1,2-Dichloroethene (trans)	UG/L	5					
1,2-Dichloropropane	UG/L	1					
1,4-Dichlorobenzene	UG/L	3					
Acetone	UG/L	50					
Benzene	UG/L	1					
Carbon disulfide	UG/L	60					
Carbon tetrachloride	UG/L	5					
Chloroethane	UG/L	5					
Chloroform	UG/L	7					
Chloromethane	UG/L	5					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-044D	DEC-045	DEC-045	DEC-045	DEC-045
Sample ID			DEC-044D	072308-FD-1	DEC-045	DEC-045	DUP-110409
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			04/01/12	07/23/08	07/23/08	11/04/09	11/04/09
Parameter	Units	Criteria*		Field Duplicate (1-1)			Field Duplicate (1-1)
Volatile Organic Compounds							
Cyclohexane	UG/L	-					
Ethylbenzene	UG/L	5					
Isopropylbenzene (Cumene)	UG/L	5					
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Methyl tert-butyl ether	UG/L	10					
Methylcyclohexane	UG/L	-					
Methylene chloride	UG/L	5					
Naphthalene	UG/L	-		NA	NA	NA	NA
sec-Butylbenzene	UG/L	-		NA	NA	NA	NA
Tetrachloroethene	UG/L	5		110 J	130 J	94	110
Toluene	UG/L	5					
Trichloroethene	UG/L	5	1.1 J	8.0	11	2.7	2.6
Trichlorofluoromethane	UG/L	5					
Vinyl chloride	UG/L	2					
Xylene (total)	UG/L	5					
Semivolatile Organic Compounds							
1,1-Biphenyl	UG/L	-	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	-	NA	NA	NA	NA	NA
Carbazole	UG/L	50	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	50	NA	NA	NA	NA	NA
Naphthalene	UG/L	10	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-044D	DEC-045	DEC-045	DEC-045	DEC-045
Sample ID			DEC-044D	072308-FD-1	DEC-045	DEC-045	DUP-110409
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			04/01/12	07/23/08	07/23/08	11/04/09	11/04/09
Parameter	Units	Criteria*		Field Duplicate (1-1)			Field Duplicate (1-1)
Pesticide Organic Compounds							
gamma-BHC (Lindane)	UG/L	-	NA	NA	NA	NA	NA
Metals							
Aluminum	UG/L	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	NA	NA	NA	NA	NA
Calcium	UG/L	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	NA	NA	NA	NA	NA
Cobalt	UG/L	-	NA	NA	NA	NA	NA
Iron	UG/L	300	NA	NA	NA	NA	NA
Magnesium	UG/L	35000	NA	NA	NA	NA	NA
Manganese	UG/L	300	NA	NA	NA	NA	NA
Nickel	UG/L	100	NA	NA	NA	NA	NA
Potassium	UG/L	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	NA	NA	NA	NA	NA
Vanadium	UG/L	-	NA	NA	NA	NA	NA
Zinc	UG/L	2000	NA	NA	NA	NA	NA
Dissolved Metals							
Iron	UG/L	300	NA	NA	NA	NA	NA
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	180	NA	NA	NA	NA
Chloride	MG/L	250	280	NA	NA	NA	NA
Nitrate-Nitrite	MG/L	10	4.94	NA	NA	NA	NA
Phosphorous, Total (as P)	MG/L	-	0.15	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-044D	DEC-045	DEC-045	DEC-045	DEC-045
Sample ID			DEC-044D	072308-FD-1	DEC-045	DEC-045	DUP-110409
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			04/01/12	07/23/08	07/23/08	11/04/09	11/04/09
Parameter	Units	Criteria*		Field Duplicate (1-1)			Field Duplicate (1-1)
Miscellaneous Parameters							
Sulfate (as SO ₄)	MG/L	250	360	NA	NA	NA	NA
Sulfide	MG/L	0.05		NA	NA	NA	NA
Total Organic Carbon (TOC)	MG/L	-	NA	NA	NA	NA	NA
Dissolved Gases							
Ethane	UG/L	-	NA	NA	NA	NA	NA
Ethene	UG/L	-	NA	NA	NA	NA	NA
Methane	UG/L	-	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-045	DEC-045	DEC-045D	DEC-045D	DEC-046
Sample ID			DEC-045	DEC-045	DEC-045D	DEC-045D	DEC-046
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/21/11	03/27/12	06/21/11	03/27/12	07/18/08
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-					NA
1,1,1-Trichloroethane	UG/L	5					
1,1,2-Trichloroethane	UG/L	1					
1,1-Dichloroethane	UG/L	5					
1,1-Dichloroethene	UG/L	5					
1,2,3-Trichlorobenzene	UG/L	-					NA
1,2,3-Trichloropropane	UG/L	-					NA
1,2,4-Trichlorobenzene	UG/L	5					
1,2,4-Trimethylbenzene	UG/L	-					NA
1,2-Dichlorobenzene	UG/L	3					
1,2-Dichloroethane	UG/L	0.6			81	53	
1,2-Dichloroethene (cis)	UG/L	5		1.5 J			
1,2-Dichloroethene (trans)	UG/L	5					
1,2-Dichloropropane	UG/L	1					
1,4-Dichlorobenzene	UG/L	3					
Acetone	UG/L	50					
Benzene	UG/L	1					
Carbon disulfide	UG/L	60					
Carbon tetrachloride	UG/L	5					
Chloroethane	UG/L	5					
Chloroform	UG/L	7					1.1
Chloromethane	UG/L	5					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-045	DEC-045	DEC-045D	DEC-045D	DEC-046
Sample ID			DEC-045	DEC-045	DEC-045D	DEC-045D	DEC-046
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/21/11	03/27/12	06/21/11	03/27/12	07/18/08
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Cyclohexane	UG/L	-					
Ethylbenzene	UG/L	5					
Isopropylbenzene (Cumene)	UG/L	5					
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Methyl tert-butyl ether	UG/L	10				2.1 J	
Methylcyclohexane	UG/L	-					
Methylene chloride	UG/L	5					
Naphthalene	UG/L	-					NA
sec-Butylbenzene	UG/L	-					NA
Tetrachloroethene	UG/L	5	43	38			11
Toluene	UG/L	5					
Trichloroethene	UG/L	5		1.3 J			1.7
Trichlorofluoromethane	UG/L	5					
Vinyl chloride	UG/L	2					
Xylene (total)	UG/L	5					
Semivolatile Organic Compounds							
1,1-Biphenyl	UG/L	-	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	-	NA	NA	NA	NA	NA
Carbazole	UG/L	50	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	50	NA	NA	NA	NA	NA
Naphthalene	UG/L	10	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria

- = No standard, criteria or guidance value. Blank cell or ND - Not Detected. NA - Not analyzed.

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Only Detected Results Reported.

TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-045	DEC-045	DEC-045D	DEC-045D	DEC-046
Sample ID			DEC-045	DEC-045	DEC-045D	DEC-045D	DEC-046
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/21/11	03/27/12	06/21/11	03/27/12	07/18/08
Parameter	Units	Criteria*					
Pesticide Organic Compounds							
gamma-BHC (Lindane)	UG/L	-	NA	NA	NA	NA	NA
Metals							
Aluminum	UG/L	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	NA	NA	NA	NA	NA
Calcium	UG/L	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	NA	NA	NA	NA	NA
Cobalt	UG/L	-	NA	NA	NA	NA	NA
Iron	UG/L	300	NA	NA	NA	NA	NA
Magnesium	UG/L	35000	NA	NA	NA	NA	NA
Manganese	UG/L	300	NA	NA	NA	NA	NA
Nickel	UG/L	100	NA	NA	NA	NA	NA
Potassium	UG/L	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	NA	NA	NA	NA	NA
Vanadium	UG/L	-	NA	NA	NA	NA	NA
Zinc	UG/L	2000	NA	NA	NA	NA	NA
Dissolved Metals							
Iron	UG/L	300	NA	NA	NA	NA	NA
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	NA	190	NA	220	NA
Chloride	MG/L	250	NA	160	NA	220	NA
Nitrate-Nitrite	MG/L	10	NA	1.72	NA	6.64	NA
Phosphorous, Total (as P)	MG/L	-	NA	0.18	NA	0.095	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria

- = No standard, criteria or guidance value. Blank cell or ND - Not Detected. NA - Not analyzed.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

B (metals only) - The reported concentration is above the method detection limit but below the quantitation limit.

Only Detected Results Reported.

TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-045	DEC-045	DEC-045D	DEC-045D	DEC-046
Sample ID			DEC-045	DEC-045	DEC-045D	DEC-045D	DEC-046
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/21/11	03/27/12	06/21/11	03/27/12	07/18/08
Parameter	Units	Criteria*					
Miscellaneous Parameters							
Sulfate (as SO ₄)	MG/L	250	NA	36	NA	170	NA
Sulfide	MG/L	0.05	NA		NA		NA
Total Organic Carbon (TOC)	MG/L	-	NA	NA	NA	NA	NA
Dissolved Gases							
Ethane	UG/L	-	NA	NA	NA	NA	NA
Ethene	UG/L	-	NA	NA	NA	NA	NA
Methane	UG/L	-	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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- = No standard, criteria or guidance value. Blank cell or ND - Not Detected. NA - Not analyzed.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-046	DEC-046	DEC-046	DEC-046D	DEC-047
Sample ID			DEC-046	DEC-046	DEC-046	DEC-046D	DEC-047
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			11/03/09	06/21/11	03/26/12	03/26/12	07/18/08
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-	NA				NA
1,1,1-Trichloroethane	UG/L	5					
1,1,2-Trichloroethane	UG/L	1					
1,1-Dichloroethane	UG/L	5					
1,1-Dichloroethene	UG/L	5					
1,2,3-Trichlorobenzene	UG/L	-	NA				NA
1,2,3-Trichloropropane	UG/L	-	NA				NA
1,2,4-Trichlorobenzene	UG/L	5					
1,2,4-Trimethylbenzene	UG/L	-	NA				NA
1,2-Dichlorobenzene	UG/L	3					
1,2-Dichloroethane	UG/L	0.6					
1,2-Dichloroethene (cis)	UG/L	5					
1,2-Dichloroethene (trans)	UG/L	5					
1,2-Dichloropropane	UG/L	1					
1,4-Dichlorobenzene	UG/L	3					
Acetone	UG/L	50					
Benzene	UG/L	1					
Carbon disulfide	UG/L	60					
Carbon tetrachloride	UG/L	5					
Chloroethane	UG/L	5					
Chloroform	UG/L	7		1.1 J	1.6 J	2.5 J	
Chloromethane	UG/L	5				1.1 J	

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-046	DEC-046	DEC-046	DEC-046D	DEC-047
Sample ID			DEC-046	DEC-046	DEC-046	DEC-046D	DEC-047
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			11/03/09	06/21/11	03/26/12	03/26/12	07/18/08
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Cyclohexane	UG/L	-					
Ethylbenzene	UG/L	5					
Isopropylbenzene (Cumene)	UG/L	5					
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Methyl tert-butyl ether	UG/L	10					19
Methylcyclohexane	UG/L	-					
Methylene chloride	UG/L	5					
Naphthalene	UG/L	-	NA	5.7 J			NA
sec-Butylbenzene	UG/L	-	NA				NA
Tetrachloroethene	UG/L	5	7.9	7.4	7.4	3.5 J	1.2
Toluene	UG/L	5					
Trichloroethene	UG/L	5	2.2	1.5 J	2.4 J	3.3 J	
Trichlorofluoromethane	UG/L	5					
Vinyl chloride	UG/L	2					
Xylene (total)	UG/L	5					
Semivolatile Organic Compounds							
1,1-Biphenyl	UG/L	-	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	-	NA	NA	NA	NA	NA
Carbazole	UG/L	50	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	50	NA	NA	NA	NA	NA
Naphthalene	UG/L	10	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-046	DEC-046	DEC-046	DEC-046D	DEC-047
Sample ID			DEC-046	DEC-046	DEC-046	DEC-046D	DEC-047
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			11/03/09	06/21/11	03/26/12	03/26/12	07/18/08
Parameter	Units	Criteria*					
Pesticide Organic Compounds							
gamma-BHC (Lindane)	UG/L	-	NA	NA	NA	NA	NA
Metals							
Aluminum	UG/L	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	NA	NA	NA	NA	NA
Calcium	UG/L	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	NA	NA	NA	NA	NA
Cobalt	UG/L	-	NA	NA	NA	NA	NA
Iron	UG/L	300	NA	NA	NA	NA	NA
Magnesium	UG/L	35000	NA	NA	NA	NA	NA
Manganese	UG/L	300	NA	NA	NA	NA	NA
Nickel	UG/L	100	NA	NA	NA	NA	NA
Potassium	UG/L	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	NA	NA	NA	NA	NA
Vanadium	UG/L	-	NA	NA	NA	NA	NA
Zinc	UG/L	2000	NA	NA	NA	NA	NA
Dissolved Metals							
Iron	UG/L	300	NA	NA	NA	NA	NA
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	NA	NA	150	130	NA
Chloride	MG/L	250	NA	NA	160	170	NA
Nitrate-Nitrite	MG/L	10	NA	NA	6.16	3.66	NA
Phosphorous, Total (as P)	MG/L	-	NA	NA	0.16	0.31	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-046	DEC-046	DEC-046	DEC-046D	DEC-047
Sample ID			DEC-046	DEC-046	DEC-046	DEC-046D	DEC-047
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			11/03/09	06/21/11	03/26/12	03/26/12	07/18/08
Parameter	Units	Criteria*					
Miscellaneous Parameters							
Sulfate (as SO ₄)	MG/L	250	NA	NA	78	220	NA
Sulfide	MG/L	0.05	NA	NA			NA
Total Organic Carbon (TOC)	MG/L	-	NA	NA	NA	NA	NA
Dissolved Gases							
Ethane	UG/L	-	NA	NA	NA	NA	NA
Ethene	UG/L	-	NA	NA	NA	NA	NA
Methane	UG/L	-	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-047	DEC-047	DEC-048	DEC-048	DEC-048
Sample ID			DEC-047	DEC-047	DEC-048	DEC-048	DEC-048
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/21/11	03/29/12	07/18/08	11/04/09	06/24/11
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-			NA	NA	
1,1,1-Trichloroethane	UG/L	5					
1,1,2-Trichloroethane	UG/L	1					
1,1-Dichloroethane	UG/L	5			1.0	1.1	
1,1-Dichloroethene	UG/L	5					
1,2,3-Trichlorobenzene	UG/L	-			NA	NA	
1,2,3-Trichloropropane	UG/L	-			NA	NA	
1,2,4-Trichlorobenzene	UG/L	5					
1,2,4-Trimethylbenzene	UG/L	-			NA	NA	1.5 J
1,2-Dichlorobenzene	UG/L	3			1.2	1.4	
1,2-Dichloroethane	UG/L	0.6					
1,2-Dichloroethene (cis)	UG/L	5			2.0	1.3	
1,2-Dichloroethene (trans)	UG/L	5					
1,2-Dichloropropane	UG/L	1					
1,4-Dichlorobenzene	UG/L	3					
Acetone	UG/L	50			23		3.1 J
Benzene	UG/L	1					
Carbon disulfide	UG/L	60					
Carbon tetrachloride	UG/L	5					
Chloroethane	UG/L	5					
Chloroform	UG/L	7	1.4 J		2.0		
Chloromethane	UG/L	5					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-047	DEC-047	DEC-048	DEC-048	DEC-048
Sample ID			DEC-047	DEC-047	DEC-048	DEC-048	DEC-048
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/21/11	03/29/12	07/18/08	11/04/09	06/24/11
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Cyclohexane	UG/L	-					
Ethylbenzene	UG/L	5					
Isopropylbenzene (Cumene)	UG/L	5			2.7	1.0	
Methyl ethyl ketone (2-Butanone)	UG/L	50			38		13 J
Methyl tert-butyl ether	UG/L	10	19	36			
Methylcyclohexane	UG/L	-					
Methylene chloride	UG/L	5					
Naphthalene	UG/L	-			NA	NA	2.2 J
sec-Butylbenzene	UG/L	-			NA	NA	
Tetrachloroethene	UG/L	5	2.9 J	2.5 J	6.6	4.3	3.2 J
Toluene	UG/L	5					
Trichloroethene	UG/L	5		0.67 J	1.2	1.7	2.6 J
Trichlorofluoromethane	UG/L	5					
Vinyl chloride	UG/L	2					
Xylene (total)	UG/L	5			1.6		
Semivolatile Organic Compounds							
1,1-Biphenyl	UG/L	-	NA	NA	NA	NA	
2-Methylnaphthalene	UG/L	-	NA	NA	NA	NA	
Carbazole	UG/L	50	NA	NA	NA	NA	
Di-n-butylphthalate	UG/L	50	NA	NA	NA	NA	
Naphthalene	UG/L	10	NA	NA	NA	NA	

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-047	DEC-047	DEC-048	DEC-048	DEC-048
Sample ID			DEC-047	DEC-047	DEC-048	DEC-048	DEC-048
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/21/11	03/29/12	07/18/08	11/04/09	06/24/11
Parameter	Units	Criteria*					
Pesticide Organic Compounds							
gamma-BHC (Lindane)	UG/L	-	NA	NA	NA	NA	
Metals							
Aluminum	UG/L	-	NA	NA	NA	NA	
Barium	UG/L	1000	NA	NA	NA	NA	95.0 B
Calcium	UG/L	-	NA	NA	NA	NA	66,300
Chromium	UG/L	50	NA	NA	NA	NA	0.79 B
Cobalt	UG/L	-	NA	NA	NA	NA	1.1 B
Iron	UG/L	300	NA	NA	NA	NA	1,010 J
Magnesium	UG/L	35000	NA	NA	NA	NA	28,400
Manganese	UG/L	300	NA	NA	NA	NA	738
Nickel	UG/L	100	NA	NA	NA	NA	6.6 B
Potassium	UG/L	-	NA	NA	NA	NA	2,890
Sodium	UG/L	20000	NA	NA	NA	NA	76,000
Vanadium	UG/L	-	NA	NA	NA	NA	
Zinc	UG/L	2000	NA	NA	NA	NA	
Dissolved Metals							
Iron	UG/L	300	NA	NA	NA	NA	NA
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	NA	150	NA	NA	NA
Chloride	MG/L	250	NA	410	NA	NA	NA
Nitrate-Nitrite	MG/L	10	NA	2.22	NA	NA	NA
Phosphorous, Total (as P)	MG/L	-	NA	0.12	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-047	DEC-047	DEC-048	DEC-048	DEC-048
Sample ID			DEC-047	DEC-047	DEC-048	DEC-048	DEC-048
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/21/11	03/29/12	07/18/08	11/04/09	06/24/11
Parameter	Units	Criteria*					
Miscellaneous Parameters							
Sulfate (as SO ₄)	MG/L	250	NA	110	NA	NA	NA
Sulfide	MG/L	0.05	NA		NA	NA	NA
Total Organic Carbon (TOC)	MG/L	-	NA	NA	NA	NA	NA
Dissolved Gases							
Ethane	UG/L	-	NA	NA	NA	NA	NA
Ethene	UG/L	-	NA	NA	NA	NA	NA
Methane	UG/L	-	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-048	DEC-048	DEC-048	DEC-064	DEC-064
Sample ID			DUP2-062411	20120329-FD-1	DEC-048	DEC-064	20111024-FD-1
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/24/11	03/29/12	03/29/12	06/20/11	10/24/11
Parameter	Units	Criteria*	Field Duplicate (1-1)	Field Duplicate (1-1)			Field Duplicate (1-1)
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-					NA
1,1,1-Trichloroethane	UG/L	5					
1,1,2-Trichloroethane	UG/L	1					
1,1-Dichloroethane	UG/L	5					0.51 J
1,1-Dichloroethene	UG/L	5					
1,2,3-Trichlorobenzene	UG/L	-					NA
1,2,3-Trichloropropane	UG/L	-					NA
1,2,4-Trichlorobenzene	UG/L	5					
1,2,4-Trimethylbenzene	UG/L	-	1.7 J	1.0 J	0.95 J		NA
1,2-Dichlorobenzene	UG/L	3					
1,2-Dichloroethane	UG/L	0.6					
1,2-Dichloroethene (cis)	UG/L	5				2.3 J	1.2
1,2-Dichloroethene (trans)	UG/L	5					
1,2-Dichloropropane	UG/L	1					
1,4-Dichlorobenzene	UG/L	3					
Acetone	UG/L	50	7.5 J				
Benzene	UG/L	1					
Carbon disulfide	UG/L	60					
Carbon tetrachloride	UG/L	5					
Chloroethane	UG/L	5					
Chloroform	UG/L	7				3.3 J	
Chloromethane	UG/L	5					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-048	DEC-048	DEC-048	DEC-064	DEC-064
Sample ID			DUP2-062411	20120329-FD-1	DEC-048	DEC-064	20111024-FD-1
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/24/11	03/29/12	03/29/12	06/20/11	10/24/11
Parameter	Units	Criteria*	Field Duplicate (1-1)	Field Duplicate (1-1)			Field Duplicate (1-1)
Volatile Organic Compounds							
Cyclohexane	UG/L	-					
Ethylbenzene	UG/L	5					
Isopropylbenzene (Cumene)	UG/L	5					
Methyl ethyl ketone (2-Butanone)	UG/L	50	18 J				
Methyl tert-butyl ether	UG/L	10					
Methylcyclohexane	UG/L	-					
Methylene chloride	UG/L	5					
Naphthalene	UG/L	-	2.4 J	1.8 J			NA
sec-Butylbenzene	UG/L	-		0.69 J			NA
Tetrachloroethene	UG/L	5	3.6 J	4.3 J	4.4 J	220 D	140 D
Toluene	UG/L	5					
Trichloroethene	UG/L	5	1.4 J	1.3 J	1.3 J	6.8 J	4.9
Trichlorofluoromethane	UG/L	5					
Vinyl chloride	UG/L	2					
Xylene (total)	UG/L	5					
Semivolatile Organic Compounds							
1,1-Biphenyl	UG/L	-	0.68 J	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	-	1.4 J	NA	NA	NA	NA
Carbazole	UG/L	50	0.72 J	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	50		NA	NA	NA	NA
Naphthalene	UG/L	10	1.2 J	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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Only Detected Results Reported.

TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-048	DEC-048	DEC-048	DEC-064	DEC-064
Sample ID			DUP2-062411	20120329-FD-1	DEC-048	DEC-064	20111024-FD-1
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/24/11	03/29/12	03/29/12	06/20/11	10/24/11
Parameter	Units	Criteria*	Field Duplicate (1-1)	Field Duplicate (1-1)			Field Duplicate (1-1)
Pesticide Organic Compounds							
gamma-BHC (Lindane)	UG/L	-		NA	NA	NA	NA
Metals							
Aluminum	UG/L	-		NA	NA	NA	NA
Barium	UG/L	1000	95.4 B	NA	NA	NA	NA
Calcium	UG/L	-	65,900	NA	NA	NA	NA
Chromium	UG/L	50		NA	NA	NA	NA
Cobalt	UG/L	-	1.1 B	NA	NA	NA	NA
Iron	UG/L	300	1,990 J	NA	NA	NA	280
Magnesium	UG/L	35000	28,100	NA	NA	NA	NA
Manganese	UG/L	300	702	NA	NA	NA	NA
Nickel	UG/L	100	6.0 B	NA	NA	NA	NA
Potassium	UG/L	-	2,850	NA	NA	NA	NA
Sodium	UG/L	20000	75,500	NA	NA	NA	NA
Vanadium	UG/L	-		NA	NA	NA	NA
Zinc	UG/L	2000		NA	NA	NA	NA
Dissolved Metals							
Iron	UG/L	300	NA	NA	NA	NA	40.0 J
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	NA	150	140	NA	88.9
Chloride	MG/L	250	NA	140	140	NA	441
Nitrate-Nitrite	MG/L	10	NA	7.92	7.32	NA	5.7
Phosphorous, Total (as P)	MG/L	-	NA	0.097	0.092	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

Flags assigned during chemistry validation are shown.

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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-048	DEC-048	DEC-048	DEC-064	DEC-064
Sample ID			DUP2-062411	20120329-FD-1	DEC-048	DEC-064	20111024-FD-1
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/24/11	03/29/12	03/29/12	06/20/11	10/24/11
Parameter	Units	Criteria*	Field Duplicate (1-1)	Field Duplicate (1-1)			Field Duplicate (1-1)
Miscellaneous Parameters							
Sulfate (as SO ₄)	MG/L	250	NA	83	85	NA	122
Sulfide	MG/L	0.05	NA			NA	NA
Total Organic Carbon (TOC)	MG/L	-	NA	NA	NA	NA	1.6
Dissolved Gases							
Ethane	UG/L	-	NA	NA	NA	NA	
Ethene	UG/L	-	NA	NA	NA	NA	
Methane	UG/L	-	NA	NA	NA	NA	

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-064	DEC-064	DEC-064D	DEC-064D	DEC-064D
Sample ID			DEC-064	DEC-064	DEC-064D	DEC-064D	DEC-064D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			10/24/11	03/28/12	06/20/11	10/23/11	03/28/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-	NA			NA	
1,1,1-Trichloroethane	UG/L	5			1.8 J	2.7	1.6 J
1,1,2-Trichloroethane	UG/L	1					
1,1-Dichloroethane	UG/L	5	0.48 J		1.3 J	1.8 J	0.81 J
1,1-Dichloroethene	UG/L	5			11	7.5	6.3
1,2,3-Trichlorobenzene	UG/L	-	NA		2.1 J	NA	
1,2,3-Trichloropropane	UG/L	-	NA			NA	
1,2,4-Trichlorobenzene	UG/L	5			5.5		
1,2,4-Trimethylbenzene	UG/L	-	NA			NA	
1,2-Dichlorobenzene	UG/L	3					
1,2-Dichloroethane	UG/L	0.6			2.6 J	7.3	
1,2-Dichloroethene (cis)	UG/L	5	1.3	2.2 J	2.0 J	1.7 J	1.1 J
1,2-Dichloroethene (trans)	UG/L	5					
1,2-Dichloropropane	UG/L	1					
1,4-Dichlorobenzene	UG/L	3					
Acetone	UG/L	50					
Benzene	UG/L	1					
Carbon disulfide	UG/L	60					
Carbon tetrachloride	UG/L	5					
Chloroethane	UG/L	5					
Chloroform	UG/L	7		2.2 J	2.3 J	1.3 J	
Chloromethane	UG/L	5					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-064	DEC-064	DEC-064D	DEC-064D	DEC-064D
Sample ID			DEC-064	DEC-064	DEC-064D	DEC-064D	DEC-064D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			10/24/11	03/28/12	06/20/11	10/23/11	03/28/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Cyclohexane	UG/L	-					
Ethylbenzene	UG/L	5					
Isopropylbenzene (Cumene)	UG/L	5					
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Methyl tert-butyl ether	UG/L	10			1.7 J	1.7 J	1.6 J
Methylcyclohexane	UG/L	-					
Methylene chloride	UG/L	5					
Naphthalene	UG/L	-	NA			NA	
sec-Butylbenzene	UG/L	-	NA			NA	
Tetrachloroethene	UG/L	5	130 D	140 DJ	14	14	14 J
Toluene	UG/L	5					
Trichloroethene	UG/L	5	4.9	4.5 J	160	100	80
Trichlorofluoromethane	UG/L	5					
Vinyl chloride	UG/L	2					
Xylene (total)	UG/L	5					
Semivolatile Organic Compounds							
1,1-Biphenyl	UG/L	-	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	-	NA	NA	NA	NA	NA
Carbazole	UG/L	50	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	50	NA	NA	NA	NA	NA
Naphthalene	UG/L	10	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-064	DEC-064	DEC-064D	DEC-064D	DEC-064D
Sample ID			DEC-064	DEC-064	DEC-064D	DEC-064D	DEC-064D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			10/24/11	03/28/12	06/20/11	10/23/11	03/28/12
Parameter	Units	Criteria*					
Pesticide Organic Compounds							
gamma-BHC (Lindane)	UG/L	-	NA	NA	NA	NA	NA
Metals							
Aluminum	UG/L	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	NA	NA	NA	NA	NA
Calcium	UG/L	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	NA	NA	NA	NA	NA
Cobalt	UG/L	-	NA	NA	NA	NA	NA
Iron	UG/L	300	230	NA	NA	330	NA
Magnesium	UG/L	35000	NA	NA	NA	NA	NA
Manganese	UG/L	300	NA	NA	NA	NA	NA
Nickel	UG/L	100	NA	NA	NA	NA	NA
Potassium	UG/L	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	NA	NA	NA	NA	NA
Vanadium	UG/L	-	NA	NA	NA	NA	NA
Zinc	UG/L	2000	NA	NA	NA	NA	NA
Dissolved Metals							
Iron	UG/L	300	38.0 J	NA	NA		NA
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	87.8	70	NA	117	130
Chloride	MG/L	250	442	390	NA	293	250
Nitrate-Nitrite	MG/L	10	5.8	5.88	NA	10.1	8.18
Phosphorous, Total (as P)	MG/L	-	NA	0.071	NA	NA	0.24

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-064	DEC-064	DEC-064D	DEC-064D	DEC-064D
Sample ID			DEC-064	DEC-064	DEC-064D	DEC-064D	DEC-064D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			10/24/11	03/28/12	06/20/11	10/23/11	03/28/12
Parameter	Units	Criteria*					
Miscellaneous Parameters							
Sulfate (as SO ₄)	MG/L	250	121	100	NA	173	140
Sulfide	MG/L	0.05	NA		NA	NA	
Total Organic Carbon (TOC)	MG/L	-	1.1	NA	NA	0.81 J	NA
Dissolved Gases							
Ethane	UG/L	-		NA	NA		NA
Ethene	UG/L	-		NA	NA		NA
Methane	UG/L	-		NA	NA		NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-065	DEC-065	DEC-065	DEC-065D	DEC-065D
Sample ID			DEC-065	DUP-062211	DEC-065	DEC-065D	DEC-065D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/22/11	06/22/11	03/31/12	06/22/11	03/31/12
Parameter	Units	Criteria*		Field Duplicate (1-1)			
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-					
1,1,1-Trichloroethane	UG/L	5				22	14 J
1,1,2-Trichloroethane	UG/L	1					
1,1-Dichloroethane	UG/L	5				6.8	5.9 J
1,1-Dichloroethene	UG/L	5				120	75
1,2,3-Trichlorobenzene	UG/L	-					
1,2,3-Trichloropropane	UG/L	-					
1,2,4-Trichlorobenzene	UG/L	5					
1,2,4-Trimethylbenzene	UG/L	-					
1,2-Dichlorobenzene	UG/L	3					
1,2-Dichloroethane	UG/L	0.6					
1,2-Dichloroethene (cis)	UG/L	5				11	8.8 J
1,2-Dichloroethene (trans)	UG/L	5					
1,2-Dichloropropane	UG/L	1					
1,4-Dichlorobenzene	UG/L	3					
Acetone	UG/L	50					
Benzene	UG/L	1					
Carbon disulfide	UG/L	60					
Carbon tetrachloride	UG/L	5					
Chloroethane	UG/L	5					
Chloroform	UG/L	7	12	14		2.8 J	
Chloromethane	UG/L	5					

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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-065	DEC-065	DEC-065	DEC-065D	DEC-065D
Sample ID			DEC-065	DUP-062211	DEC-065	DEC-065D	DEC-065D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/22/11	06/22/11	03/31/12	06/22/11	03/31/12
Parameter	Units	Criteria*		Field Duplicate (1-1)			
Volatile Organic Compounds							
Cyclohexane	UG/L	-					
Ethylbenzene	UG/L	5					
Isopropylbenzene (Cumene)	UG/L	5					
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Methyl tert-butyl ether	UG/L	10					
Methylcyclohexane	UG/L	-					
Methylene chloride	UG/L	5					
Naphthalene	UG/L	-					
sec-Butylbenzene	UG/L	-					
Tetrachloroethene	UG/L	5	160	170	200 J	83	65 J
Toluene	UG/L	5					
Trichloroethene	UG/L	5	3.6 J	2.3 J	2.5 J	670 D	470
Trichlorofluoromethane	UG/L	5				1.3 J	
Vinyl chloride	UG/L	2					
Xylene (total)	UG/L	5					
Semivolatile Organic Compounds							
1,1-Biphenyl	UG/L	-	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	-	NA	NA	NA	NA	NA
Carbazole	UG/L	50	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	50	NA	NA	NA	NA	NA
Naphthalene	UG/L	10	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-065	DEC-065	DEC-065	DEC-065D	DEC-065D
Sample ID			DEC-065	DUP-062211	DEC-065	DEC-065D	DEC-065D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/22/11	06/22/11	03/31/12	06/22/11	03/31/12
Parameter	Units	Criteria*		Field Duplicate (1-1)			
Pesticide Organic Compounds							
gamma-BHC (Lindane)	UG/L	-	NA	NA	NA	NA	NA
Metals							
Aluminum	UG/L	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	NA	NA	NA	NA	NA
Calcium	UG/L	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	NA	NA	NA	NA	NA
Cobalt	UG/L	-	NA	NA	NA	NA	NA
Iron	UG/L	300	NA	NA	NA	NA	NA
Magnesium	UG/L	35000	NA	NA	NA	NA	NA
Manganese	UG/L	300	NA	NA	NA	NA	NA
Nickel	UG/L	100	NA	NA	NA	NA	NA
Potassium	UG/L	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	NA	NA	NA	NA	NA
Vanadium	UG/L	-	NA	NA	NA	NA	NA
Zinc	UG/L	2000	NA	NA	NA	NA	NA
Dissolved Metals							
Iron	UG/L	300	NA	NA	NA	NA	NA
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	NA	NA	150	NA	140
Chloride	MG/L	250	NA	NA	140	NA	240
Nitrate-Nitrite	MG/L	10	NA	NA	1.96	NA	3.88
Phosphorous, Total (as P)	MG/L	-	NA	NA	0.13	NA	0.16

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SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-065	DEC-065	DEC-065	DEC-065D	DEC-065D
Sample ID			DEC-065	DUP-062211	DEC-065	DEC-065D	DEC-065D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/22/11	06/22/11	03/31/12	06/22/11	03/31/12
Parameter	Units	Criteria*		Field Duplicate (1-1)			
Miscellaneous Parameters							
Sulfate (as SO ₄)	MG/L	250	NA	NA	57	NA	150
Sulfide	MG/L	0.05	NA	NA		NA	
Total Organic Carbon (TOC)	MG/L	-	NA	NA	NA	NA	NA
Dissolved Gases							
Ethane	UG/L	-	NA	NA	NA	NA	NA
Ethene	UG/L	-	NA	NA	NA	NA	NA
Methane	UG/L	-	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-066	DEC-066	DEC-066D	DEC-066D	DEC-071
Sample ID			DEC-066	DEC-066	DEC-066D	DEC-066D	DEC-071
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/22/11	03/27/12	06/22/11	03/27/12	10/24/11
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-					NA
1,1,1-Trichloroethane	UG/L	5					
1,1,2-Trichloroethane	UG/L	1					
1,1-Dichloroethane	UG/L	5					1.3
1,1-Dichloroethene	UG/L	5					2.1
1,2,3-Trichlorobenzene	UG/L	-					NA
1,2,3-Trichloropropane	UG/L	-					NA
1,2,4-Trichlorobenzene	UG/L	5					
1,2,4-Trimethylbenzene	UG/L	-					NA
1,2-Dichlorobenzene	UG/L	3					
1,2-Dichloroethane	UG/L	0.6			23	22	
1,2-Dichloroethene (cis)	UG/L	5	4.1 J	3.9 J			93
1,2-Dichloroethene (trans)	UG/L	5					2.9
1,2-Dichloropropane	UG/L	1					
1,4-Dichlorobenzene	UG/L	3					
Acetone	UG/L	50			2.7 J		
Benzene	UG/L	1					
Carbon disulfide	UG/L	60					
Carbon tetrachloride	UG/L	5					
Chloroethane	UG/L	5					
Chloroform	UG/L	7					
Chloromethane	UG/L	5					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-066	DEC-066	DEC-066D	DEC-066D	DEC-071
Sample ID			DEC-066	DEC-066	DEC-066D	DEC-066D	DEC-071
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/22/11	03/27/12	06/22/11	03/27/12	10/24/11
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Cyclohexane	UG/L	-					
Ethylbenzene	UG/L	5					
Isopropylbenzene (Cumene)	UG/L	5					
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Methyl tert-butyl ether	UG/L	10					
Methylcyclohexane	UG/L	-					
Methylene chloride	UG/L	5					
Naphthalene	UG/L	-					NA
sec-Butylbenzene	UG/L	-					NA
Tetrachloroethene	UG/L	5	8.4	42	1.7 J		36
Toluene	UG/L	5					
Trichloroethene	UG/L	5	2.1 J	2.3 J			260 D
Trichlorofluoromethane	UG/L	5					
Vinyl chloride	UG/L	2					
Xylene (total)	UG/L	5					
Semivolatile Organic Compounds							
1,1-Biphenyl	UG/L	-	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	-	NA	NA	NA	NA	NA
Carbazole	UG/L	50	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	50	NA	NA	NA	NA	NA
Naphthalene	UG/L	10	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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Only Detected Results Reported.

TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-066	DEC-066	DEC-066D	DEC-066D	DEC-071
Sample ID			DEC-066	DEC-066	DEC-066D	DEC-066D	DEC-071
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/22/11	03/27/12	06/22/11	03/27/12	10/24/11
Parameter	Units	Criteria*					
Pesticide Organic Compounds							
gamma-BHC (Lindane)	UG/L	-	NA	NA	NA	NA	NA
Metals							
Aluminum	UG/L	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	NA	NA	NA	NA	NA
Calcium	UG/L	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	NA	NA	NA	NA	NA
Cobalt	UG/L	-	NA	NA	NA	NA	NA
Iron	UG/L	300	NA	NA	NA	NA	17,600
Magnesium	UG/L	35000	NA	NA	NA	NA	NA
Manganese	UG/L	300	NA	NA	NA	NA	NA
Nickel	UG/L	100	NA	NA	NA	NA	NA
Potassium	UG/L	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	NA	NA	NA	NA	NA
Vanadium	UG/L	-	NA	NA	NA	NA	NA
Zinc	UG/L	2000	NA	NA	NA	NA	NA
Dissolved Metals							
Iron	UG/L	300	NA	NA	NA	NA	14,700
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	NA	110	NA	100	183
Chloride	MG/L	250	NA	110	NA	230	411
Nitrate-Nitrite	MG/L	10	NA	0.976	NA	8.02	
Phosphorous, Total (as P)	MG/L	-	NA	0.13	NA	0.23	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-066	DEC-066	DEC-066D	DEC-066D	DEC-071
Sample ID			DEC-066	DEC-066	DEC-066D	DEC-066D	DEC-071
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/22/11	03/27/12	06/22/11	03/27/12	10/24/11
Parameter	Units	Criteria*					
Miscellaneous Parameters							
Sulfate (as SO ₄)	MG/L	250	NA	23	NA	190	313
Sulfide	MG/L	0.05	NA		NA		NA
Total Organic Carbon (TOC)	MG/L	-	NA	NA	NA	NA	2.3
Dissolved Gases							
Ethane	UG/L	-	NA	NA	NA	NA	13
Ethene	UG/L	-	NA	NA	NA	NA	8.1
Methane	UG/L	-	NA	NA	NA	NA	66

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-088	DEC-088D	DEC-089	DEC-089D	DEC-090
Sample ID			DEC-088	DEC-088D	DEC-089	DEC-089D	DEC-090
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/27/12	03/27/12	03/27/12	03/27/12	03/28/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-					1.2 J
1,1,1-Trichloroethane	UG/L	5					
1,1,2-Trichloroethane	UG/L	1					
1,1-Dichloroethane	UG/L	5					
1,1-Dichloroethene	UG/L	5					
1,2,3-Trichlorobenzene	UG/L	-					
1,2,3-Trichloropropane	UG/L	-					
1,2,4-Trichlorobenzene	UG/L	5					
1,2,4-Trimethylbenzene	UG/L	-					
1,2-Dichlorobenzene	UG/L	3					
1,2-Dichloroethane	UG/L	0.6		2.8 J		23 J	
1,2-Dichloroethene (cis)	UG/L	5	1.0 J		1.5 J		9.2
1,2-Dichloroethene (trans)	UG/L	5					
1,2-Dichloropropane	UG/L	1					
1,4-Dichlorobenzene	UG/L	3					
Acetone	UG/L	50					
Benzene	UG/L	1					
Carbon disulfide	UG/L	60					
Carbon tetrachloride	UG/L	5					
Chloroethane	UG/L	5					
Chloroform	UG/L	7					
Chloromethane	UG/L	5					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-088	DEC-088D	DEC-089	DEC-089D	DEC-090
Sample ID			DEC-088	DEC-088D	DEC-089	DEC-089D	DEC-090
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/27/12	03/27/12	03/27/12	03/27/12	03/28/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Cyclohexane	UG/L	-					
Ethylbenzene	UG/L	5					
Isopropylbenzene (Cumene)	UG/L	5					
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Methyl tert-butyl ether	UG/L	10					
Methylcyclohexane	UG/L	-					
Methylene chloride	UG/L	5					
Naphthalene	UG/L	-					
sec-Butylbenzene	UG/L	-					
Tetrachloroethene	UG/L	5	150	190	59	1,200	2,400 DJ
Toluene	UG/L	5					
Trichloroethene	UG/L	5	1.7 J	2.7 J	1.3 J		12
Trichlorofluoromethane	UG/L	5					
Vinyl chloride	UG/L	2					
Xylene (total)	UG/L	5					
Semivolatile Organic Compounds							
1,1-Biphenyl	UG/L	-	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	-	NA	NA	NA	NA	NA
Carbazole	UG/L	50	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	50	NA	NA	NA	NA	NA
Naphthalene	UG/L	10	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-088	DEC-088D	DEC-089	DEC-089D	DEC-090
Sample ID			DEC-088	DEC-088D	DEC-089	DEC-089D	DEC-090
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/27/12	03/27/12	03/27/12	03/27/12	03/28/12
Parameter	Units	Criteria*					
Pesticide Organic Compounds							
gamma-BHC (Lindane)	UG/L	-	NA	NA	NA	NA	NA
Metals							
Aluminum	UG/L	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	NA	NA	NA	NA	NA
Calcium	UG/L	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	NA	NA	NA	NA	NA
Cobalt	UG/L	-	NA	NA	NA	NA	NA
Iron	UG/L	300	NA	NA	NA	NA	NA
Magnesium	UG/L	35000	NA	NA	NA	NA	NA
Manganese	UG/L	300	NA	NA	NA	NA	NA
Nickel	UG/L	100	NA	NA	NA	NA	NA
Potassium	UG/L	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	NA	NA	NA	NA	NA
Vanadium	UG/L	-	NA	NA	NA	NA	NA
Zinc	UG/L	2000	NA	NA	NA	NA	NA
Dissolved Metals							
Iron	UG/L	300	NA	NA	NA	NA	NA
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	150	160	160	150	150
Chloride	MG/L	250	160	160	53	220	73
Nitrate-Nitrite	MG/L	10	4.78	4.18	3.76	3.80	2.66
Phosphorous, Total (as P)	MG/L	-	0.26	0.52	0.21	0.19	0.12

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-088	DEC-088D	DEC-089	DEC-089D	DEC-090
Sample ID			DEC-088	DEC-088D	DEC-089	DEC-089D	DEC-090
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/27/12	03/27/12	03/27/12	03/27/12	03/28/12
Parameter	Units	Criteria*					
Miscellaneous Parameters							
Sulfate (as SO ₄)	MG/L	250	88	120	78	200	42
Sulfide	MG/L	0.05					0.030
Total Organic Carbon (TOC)	MG/L	-	NA	NA	NA	NA	NA
Dissolved Gases							
Ethane	UG/L	-	NA	NA	NA	NA	NA
Ethene	UG/L	-	NA	NA	NA	NA	NA
Methane	UG/L	-	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-090D	DEC-091	DEC-091D	DEC-091D
Sample ID			DEC-090D	DEC-091	DEC-091D	FD-03272012-2
Matrix			Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-
Date Sampled			03/28/12	03/27/12	03/27/12	03/27/12
Parameter	Units	Criteria*				Field Duplicate (1-1)
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	UG/L	-				
1,1,1-Trichloroethane	UG/L	5				
1,1,2-Trichloroethane	UG/L	1				
1,1-Dichloroethane	UG/L	5				
1,1-Dichloroethene	UG/L	5				
1,2,3-Trichlorobenzene	UG/L	-				
1,2,3-Trichloropropane	UG/L	-				
1,2,4-Trichlorobenzene	UG/L	5				
1,2,4-Trimethylbenzene	UG/L	-				
1,2-Dichlorobenzene	UG/L	3				
1,2-Dichloroethane	UG/L	0.6				
1,2-Dichloroethene (cis)	UG/L	5	1.5 J			
1,2-Dichloroethene (trans)	UG/L	5				
1,2-Dichloropropane	UG/L	1				
1,4-Dichlorobenzene	UG/L	3				
Acetone	UG/L	50				
Benzene	UG/L	1				
Carbon disulfide	UG/L	60				
Carbon tetrachloride	UG/L	5				
Chloroethane	UG/L	5				
Chloroform	UG/L	7	0.55 J			0.77 J
Chloromethane	UG/L	5				

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-090D	DEC-091	DEC-091D	DEC-091D
Sample ID			DEC-090D	DEC-091	DEC-091D	FD-03272012-2
Matrix			Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-
Date Sampled			03/28/12	03/27/12	03/27/12	03/27/12
Parameter	Units	Criteria*				Field Duplicate (1-1)
Volatile Organic Compounds						
Cyclohexane	UG/L	-				
Ethylbenzene	UG/L	5				
Isopropylbenzene (Cumene)	UG/L	5				
Methyl ethyl ketone (2-Butanone)	UG/L	50				
Methyl tert-butyl ether	UG/L	10	0.70 J			0.52 J
Methylcyclohexane	UG/L	-				
Methylene chloride	UG/L	5				
Naphthalene	UG/L	-		1.0 J		
sec-Butylbenzene	UG/L	-		0.97 J		
Tetrachloroethene	UG/L	5	10 J		2.2 J	3.3 J
Toluene	UG/L	5				
Trichloroethene	UG/L	5	1.8 J			0.60 J
Trichlorofluoromethane	UG/L	5				
Vinyl chloride	UG/L	2				
Xylene (total)	UG/L	5				
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	-	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	-	NA	NA	NA	NA
Carbazole	UG/L	50	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	50	NA	NA	NA	NA
Naphthalene	UG/L	10	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-090D	DEC-091	DEC-091D	DEC-091D
Sample ID			DEC-090D	DEC-091	DEC-091D	FD-03272012-2
Matrix			Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-
Date Sampled			03/28/12	03/27/12	03/27/12	03/27/12
Parameter	Units	Criteria*				Field Duplicate (1-1)
Pesticide Organic Compounds						
gamma-BHC (Lindane)	UG/L	-	NA	NA	NA	NA
Metals						
Aluminum	UG/L	-	NA	NA	NA	NA
Barium	UG/L	1000	NA	NA	NA	NA
Calcium	UG/L	-	NA	NA	NA	NA
Chromium	UG/L	50	NA	NA	NA	NA
Cobalt	UG/L	-	NA	NA	NA	NA
Iron	UG/L	300	NA	NA	NA	NA
Magnesium	UG/L	35000	NA	NA	NA	NA
Manganese	UG/L	300	NA	NA	NA	NA
Nickel	UG/L	100	NA	NA	NA	NA
Potassium	UG/L	-	NA	NA	NA	NA
Sodium	UG/L	20000	NA	NA	NA	NA
Vanadium	UG/L	-	NA	NA	NA	NA
Zinc	UG/L	2000	NA	NA	NA	NA
Dissolved Metals						
Iron	UG/L	300	NA	NA	NA	NA
Miscellaneous Parameters						
Alkalinity, Total (as CaCO ₃)	MG/L	-	160	150	180	200
Chloride	MG/L	250	240	160	150	150
Nitrate-Nitrite	MG/L	10	4.02		1.02	1.39
Phosphorous, Total (as P)	MG/L	-	0.11	0.29	0.46	0.46

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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Only Detected Results Reported.

TABLE 4-16
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN ALL GROUNDWATER SAMPLES IN THE
KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-090D	DEC-091	DEC-091D	DEC-091D
Sample ID			DEC-090D	DEC-091	DEC-091D	FD-03272012-2
Matrix			Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-
Date Sampled			03/28/12	03/27/12	03/27/12	03/27/12
Parameter	Units	Criteria*				Field Duplicate (1-1)
Miscellaneous Parameters						
Sulfate (as SO ₄)	MG/L	250	150	4.7 J	82	85
Sulfide	MG/L	0.05			0.038	0.040
Total Organic Carbon (TOC)	MG/L	-	NA	NA	NA	NA
Dissolved Gases						
Ethane	UG/L	-	NA	NA	NA	NA
Ethene	UG/L	-	NA	NA	NA	NA
Methane	UG/L	-	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

Flags assigned during chemistry validation are shown.



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Only Detected Results Reported.

TABLE 4-17
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN ALL GROUNDWATER SAMPLES IN THE KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value
					Min	Max	Avg		
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	UG/L	-	113	6	1.20	9.50	3.73	0	DEC-014R
1,1,1-Trichloroethane	UG/L	5	230	43	0.860	22.00	4.80	12	DEC-065D
1,1,2-Trichloroethane	UG/L	1	230	1	0.480	0.480	0.480	0	DEC-015
1,1-Dichloroethane	UG/L	5	230	75	0.480	32.00	5.99	30	DEC-010
1,1-Dichloroethene	UG/L	5	230	60	0.450	120.0	14.41	26	DEC-065D
1,2,3-Trichlorobenzene	UG/L	-	113	1	2.10	2.10	2.10	0	DEC-064D
1,2,3-Trichloropropane	UG/L	-	113	2	2.30	2.70	2.50	0	DEC-015D
1,2,4-Trichlorobenzene	UG/L	5	230	1	5.50	5.50	5.50	1	DEC-064D
1,2,4-Trimethylbenzene	UG/L	-	113	4	0.950	1.70	1.29	0	DEC-048
1,2-Dichlorobenzene	UG/L	3	230	2	1.20	1.40	1.30	0	DEC-048
1,2-Dichloroethane	UG/L	0.6	230	38	0.400	3,700	338.4	37	DEC-029TC
1,2-Dichloroethene (cis)	UG/L	5	233	141	0.610	120.0	18.77	104	DEC-044
1,2-Dichloroethene (trans)	UG/L	5	230	22	0.690	3.90	2.09	0	DEC-027
1,2-Dichloropropane	UG/L	1	230	4	2.00	2.20	2.10	4	DEC-029TC
1,4-Dichlorobenzene	UG/L	3	230	6	0.820	4.30	1.60	1	DEC-014R
Acetone	UG/L	50	230	11	2.70	190.0	58.48	4	DEC-032
Benzene	UG/L	1	230	3	1.80	50.00	17.93	3	DEC-008

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.



Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-17
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN ALL GROUNDWATER SAMPLES IN THE KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value
					Min	Max	Avg		
Volatile Organic Compounds									
Carbon disulfide	UG/L	60	230	1	4.60	4.60	4.60	0	DEC-031D
Carbon tetrachloride	UG/L	5	230	1	1.00	1.00	1.00	0	DEC-014R
Chloroethane	UG/L	5	230	3	1.20	1.80	1.43	0	DEC-028
Chloroform	UG/L	7	230	71	0.550	14.00	3.00	4	DEC-065
Chloromethane	UG/L	5	230	1	1.10	1.10	1.10	0	DEC-046D
Cyclohexane	UG/L	-	230	1	11.00	11.00	11.00	0	DEC-008
Ethylbenzene	UG/L	5	230	1	1.70	1.70	1.70	0	DEC-008
Isopropylbenzene (Cumene)	UG/L	5	230	2	1.00	2.70	1.85	0	DEC-048
Methyl ethyl ketone (2-Butanone)	UG/L	50	230	3	13.00	38.00	23.00	0	DEC-048
Methyl tert-butyl ether	UG/L	10	230	49	0.450	36.00	3.14	3	DEC-047
Methylcyclohexane	UG/L	-	230	1	1.50	1.50	1.50	0	DEC-008
Methylene chloride	UG/L	5	230	3	1.10	2.20	1.80	0	DEC-011
Naphthalene	UG/L	-	113	5	1.00	5.70	2.62	0	DEC-046
sec-Butylbenzene	UG/L	-	113	5	0.690	3.40	1.99	0	DEC-028
Tetrachloroethene	UG/L	5	233	218	1.20	4.60E+04	1,761	184	DEC-014R
Toluene	UG/L	5	230	1	8.60	8.60	8.60	1	DEC-008
Trichloroethene	UG/L	5	233	194	0.600	750.0	74.13	140	DEC-027

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.



Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-17
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN ALL GROUNDWATER SAMPLES IN THE KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value
					Min	Max	Avg		
Volatile Organic Compounds									
Trichlorofluoromethane	UG/L	5	230	15	1.30	58.00	15.02	9	DEC-042
Vinyl chloride	UG/L	2	230	13	1.00	54.00	23.28	11	DEC-009
Xylene (total)	UG/L	5	230	2	1.60	17.00	9.30	1	DEC-008
Semivolatile Organic Compounds									
1,1-Biphenyl	UG/L	-	4	1	0.680	0.680	0.680	0	DEC-048
2-Methylnaphthalene	UG/L	-	4	1	1.40	1.40	1.40	0	DEC-048
Carbazole	UG/L	50	4	1	0.720	0.720	0.720	0	DEC-048
Di-n-butylphthalate	UG/L	50	4	2	0.560	0.720	0.640	0	DEC-031D
Naphthalene	UG/L	10	4	1	1.20	1.20	1.20	0	DEC-048
Pesticide Organic Compounds									
gamma-BHC (Lindane)	UG/L	-	4	1	0.051	0.051	0.051	0	DEC-031
Metals									
Aluminum	UG/L	-	4	2	154.0	464.0	309.0	0	DEC-031D
Barium	UG/L	1000	4	4	36.80	95.40	68.93	0	DEC-048
Calcium	UG/L	-	4	4	6.12E+04	1.11E+05	7.61E+04	0	DEC-031D
Chromium	UG/L	50	4	2	0.790	2.00	1.40	0	DEC-031D
Cobalt	UG/L	-	4	4	1.10	6.10	2.53	0	DEC-031D

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.



Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-17
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN ALL GROUNDWATER SAMPLES IN THE KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value
					Min	Max	Avg		
Metals									
Iron	UG/L	300	38	37	64.00	2.52E+04	3,334	30	DEC-029TC
Magnesium	UG/L	35000	4	4	2.14E+04	5.84E+04	3.41E+04	1	DEC-031D
Manganese	UG/L	300	4	4	249.0	2,300	997.3	3	DEC-031D
Nickel	UG/L	100	4	4	4.20	10.80	6.90	0	DEC-031
Potassium	UG/L	-	4	4	2,350	7,020	3,778	0	DEC-031D
Sodium	UG/L	20000	4	4	7.10E+04	1.02E+05	8.11E+04	4	DEC-031D
Vanadium	UG/L	-	4	1	2.20	2.20	2.20	0	DEC-031D
Zinc	UG/L	2000	4	1	11.00	11.00	11.00	0	DEC-031D
Dissolved Metals									
Iron	UG/L	300	34	25	21.00	2.66E+04	3,532	8	DEC-029TC
Miscellaneous Parameters									
Alkalinity, Total (as CaCO3)	MG/L	-	98	98	70.00	557.0	178.0	0	DEC-004
Chloride	MG/L	250	98	98	40.00	2,640	322.1	32	DEC-029TC
Nitrate-Nitrite	MG/L	10	98	87	0.028	19.20	5.65	9	DEC-039
Phosphorous, Total (as P)	MG/L	-	64	64	0.044	0.520	0.184	0	DEC-088D
Sulfate (as SO4)	MG/L	250	98	98	2.60	726.0	151.3	11	DEC-029TC
Sulfide	MG/L	0.05	64	5	0.030	0.100	0.054	2	DEC-011D

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.



Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-17
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN ALL GROUNDWATER SAMPLES IN THE KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value
					Min	Max	Avg		
Miscellaneous Parameters									
Total Organic Carbon (TOC)	MG/L	-	34	28	0.610	4.90	1.90	0	DEC-004
Dissolved Gases									
Ethane	UG/L	-	34	8	0.490	13.00	3.62	0	DEC-071
Ethene	UG/L	-	34	7	0.520	9.90	5.10	0	DEC-029TC
Methane	UG/L	-	34	20	0.490	66.00	12.85	0	DEC-071
Compound Specific Isotope									
1,2-Dichloroethene (cis) del(13-C)	per mill	-	3	2	-3.28E+01	-1.77E+01	-2.52E+01	0	DEC-008
Tetrachloroethene del(13-C)	per mill	-	3	3	-2.68E+01	-2.51E+01	-2.60E+01	0	DEC-004
Trichloroethene del(13-C)	per mill	-	3	2	-2.86E+01	-2.62E+01	-2.74E+01	0	DEC-004

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.



Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-18
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE I AMBIENT AIR AND SOIL VAPOR SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID		AA-028	AA-029	AA-030	SG-018	SG-019
Sample ID		AA-061311	AA-061411	AA-061511	SG-18	SG-19
Matrix		Outdoor Air	Outdoor Air	Outdoor Air	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/13/11	06/14/11	06/15/11	06/15/11	06/13/11
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	8.7				3.8
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3					
1,1-Dichloroethane	UG/M3					
1,1-Dichloroethene	UG/M3					
1,2,4-Trimethylbenzene	UG/M3		35.6		31.3	102
1,2-Dichlorobenzene	UG/M3					
1,2-Dichloroethene (cis)	UG/M3					
1,2-Dichloroethene (trans)	UG/M3					
1,2-Dichloropropane	UG/M3					
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3		8.8			24.2
1,3-Dichlorobenzene	UG/M3					7.9
1,4-Dichlorobenzene	UG/M3					3.5
2,2,4-Trimethylpentane	UG/M3					399 J
4-Methyl-2-pentanone	UG/M3					
Benzene	UG/M3					85.8
Bromoform	UG/M3					
Carbon tetrachloride	UG/M3					2.9
Chloroethane	UG/M3					
Chloroform	UG/M3					319
Cyclohexane	UG/M3					535 J
Dibromochloromethane	UG/M3					
Dichlorodifluoromethane	UG/M3					2.3
Ethanol	UG/M3	15.3	12.3	22.3	93.1	114 J

Flags assigned during chemistry validation are shown.

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Only Detected Results Reported.

TABLE 4-18
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE I AMBIENT AIR AND SOIL VAPOR SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID		AA-028	AA-029	AA-030	SG-018	SG-019
Sample ID		AA-061311	AA-061411	AA-061511	SG-18	SG-19
Matrix		Outdoor Air	Outdoor Air	Outdoor Air	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/13/11	06/14/11	06/15/11	06/15/11	06/13/11
Parameter	Units					
Volatile Organic Compounds						
Ethylbenzene	UG/M3			1.6 J		62.7
Hexane	UG/M3	2.0	1.3	0.92 J		50.8
Methyl ethyl ketone (2-Butanone)	UG/M3	3.0	0.94	4.7		
Methylene chloride	UG/M3	6.8	2.0	5.8		
Styrene	UG/M3					
t-Butyl alcohol	UG/M3					
Tetrachloroethene	UG/M3	18.2			2,660	1,200
Toluene	UG/M3	6.8	7.1	20.4		63.5
Trichloroethene	UG/M3				29.8	
Trichlorofluoromethane	UG/M3					
Vinyl chloride	UG/M3					
Xylene (total)	UG/M3	2.4 J	22.5	21.0	55.4	211

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Only Detected Results Reported.

TABLE 4-18
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE I AMBIENT AIR AND SOIL VAPOR SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-020	SG-021	SG-042	SG-043	SG-044
Sample ID		SG-20	SG-21	SG-42	SG-43	SG-44
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/13/11	06/13/11	06/14/11	06/15/11	06/14/11
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3		2.0	16,900		28.0 J
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3					
1,1-Dichloroethane	UG/M3					
1,1-Dichloroethene	UG/M3					
1,2,4-Trimethylbenzene	UG/M3	122	15.9			
1,2-Dichlorobenzene	UG/M3					
1,2-Dichloroethene (cis)	UG/M3				557	
1,2-Dichloroethene (trans)	UG/M3					
1,2-Dichloropropane	UG/M3					
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	29.1				
1,3-Dichlorobenzene	UG/M3		4.4			
1,4-Dichlorobenzene	UG/M3	2.8 J	1.5 J			
2,2,4-Trimethylpentane	UG/M3	21.9	400 J			
4-Methyl-2-pentanone	UG/M3					
Benzene	UG/M3	2.1	241		42.4	
Bromoform	UG/M3					51.9 J
Carbon tetrachloride	UG/M3					
Chloroethane	UG/M3					
Chloroform	UG/M3	54.2	25.6			
Cyclohexane	UG/M3	8.6	2,090		16,300	
Dibromochloromethane	UG/M3					
Dichlorodifluoromethane	UG/M3		1.2 J			
Ethanol	UG/M3	183 J	89.4		116	62.0

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Only Detected Results Reported.

TABLE 4-18
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE I AMBIENT AIR AND SOIL VAPOR SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-020	SG-021	SG-042	SG-043	SG-044
Sample ID		SG-20	SG-21	SG-42	SG-43	SG-44
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/13/11	06/13/11	06/14/11	06/15/11	06/14/11
Parameter	Units					
Volatile Organic Compounds						
Ethylbenzene	UG/M3	64.9	38.7			
Hexane	UG/M3	191	1,500		8,000	
Methyl ethyl ketone (2-Butanone)	UG/M3		9.9			
Methylene chloride	UG/M3	282	883			
Styrene	UG/M3		2.4			13.0 J
t-Butyl alcohol	UG/M3					
Tetrachloroethene	UG/M3	83.1	72.4	803,000	48,500	1,660
Toluene	UG/M3	159	82.6		17.0 J	
Trichloroethene	UG/M3	9.2		2,850	1,170	
Trichlorofluoromethane	UG/M3				118	
Vinyl chloride	UG/M3				687	
Xylene (total)	UG/M3	317	80.5			

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Only Detected Results Reported.

TABLE 4-18
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE I AMBIENT AIR AND SOIL VAPOR SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-045	SG-046	SG-046	SG-047	SG-048
Sample ID		SG-45	DUP2-061411	SG-46	SG-47	SG-48
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/14/11	06/14/11	06/14/11	06/15/11	06/14/11
Parameter	Units		Field Duplicate (1-1)			
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3		53.7	109		56.5 J
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3					
1,1-Dichloroethane	UG/M3		12.8 J	42.0		
1,1-Dichloroethene	UG/M3					
1,2,4-Trimethylbenzene	UG/M3				9.7	
1,2-Dichlorobenzene	UG/M3					
1,2-Dichloroethene (cis)	UG/M3			17.7 J		
1,2-Dichloroethene (trans)	UG/M3					
1,2-Dichloropropane	UG/M3					
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3					
1,3-Dichlorobenzene	UG/M3					
1,4-Dichlorobenzene	UG/M3					
2,2,4-Trimethylpentane	UG/M3					
4-Methyl-2-pentanone	UG/M3					
Benzene	UG/M3					
Bromoform	UG/M3	1,830 J	54.5 J			
Carbon tetrachloride	UG/M3				6.1	
Chloroethane	UG/M3					
Chloroform	UG/M3				19.3	
Cyclohexane	UG/M3				54.5	
Dibromochloromethane	UG/M3		25.4 J			
Dichlorodifluoromethane	UG/M3					
Ethanol	UG/M3		58.7		63.7	105

Flags assigned during chemistry validation are shown.

Blank cell - Not Detected. NA - Not analyzed.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

Only Detected Results Reported.

TABLE 4-18
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE I AMBIENT AIR AND SOIL VAPOR SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-045	SG-046	SG-046	SG-047	SG-048
Sample ID		SG-45	DUP2-061411	SG-46	SG-47	SG-48
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/14/11	06/14/11	06/14/11	06/15/11	06/14/11
Parameter	Units		Field Duplicate (1-1)			
Volatile Organic Compounds						
Ethylbenzene	UG/M3					
Hexane	UG/M3		30.0		90.6	
Methyl ethyl ketone (2-Butanone)	UG/M3				23.2	
Methylene chloride	UG/M3		199		304	
Styrene	UG/M3		16.8 J	14.2 J		
t-Butyl alcohol	UG/M3					
Tetrachloroethene	UG/M3	22,400	805	2,040	661	3,340
Toluene	UG/M3		33.4	17.4 J	150	
Trichloroethene	UG/M3		158	376	109	
Trichlorofluoromethane	UG/M3					
Vinyl chloride	UG/M3					
Xylene (total)	UG/M3				35.3	

Flags assigned during chemistry validation are shown.

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Only Detected Results Reported.

TABLE 4-18
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE I AMBIENT AIR AND SOIL VAPOR SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-049	SG-055	SG-056	SG-057	SG-058
Sample ID		SG-49	SG-55	SG-56	SG-57	DUP-061511
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/14/11	06/13/11	06/15/11	06/15/11	06/15/11
Parameter	Units					Field Duplicate (1-1)
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	344	4.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	1,520				
1,1-Dichloroethane	UG/M3					
1,1-Dichloroethene	UG/M3	189				
1,2,4-Trimethylbenzene	UG/M3	17.1 J	57.3			
1,2-Dichlorobenzene	UG/M3					
1,2-Dichloroethene (cis)	UG/M3	437,000		1,980		
1,2-Dichloroethene (trans)	UG/M3	1,420		20.9 J		
1,2-Dichloropropane	UG/M3					
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3		16.2			
1,3-Dichlorobenzene	UG/M3					
1,4-Dichlorobenzene	UG/M3		3.5			
2,2,4-Trimethylpentane	UG/M3		45.8			
4-Methyl-2-pentanone	UG/M3		24.9			
Benzene	UG/M3	48.0	51.0			
Bromoform	UG/M3					6,410 J
Carbon tetrachloride	UG/M3	2,430				
Chloroethane	UG/M3					
Chloroform	UG/M3	793				
Cyclohexane	UG/M3		53.9			
Dibromochloromethane	UG/M3					
Dichlorodifluoromethane	UG/M3					
Ethanol	UG/M3	94.3	476	130		

Flags assigned during chemistry validation are shown.

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Only Detected Results Reported.

TABLE 4-18
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE I AMBIENT AIR AND SOIL VAPOR SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-049	SG-055	SG-056	SG-057	SG-058
Sample ID		SG-49	SG-55	SG-56	SG-57	DUP-061511
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/14/11	06/13/11	06/15/11	06/15/11	06/15/11
Parameter	Units					Field Duplicate (1-1)
Volatile Organic Compounds						
Ethylbenzene	UG/M3		89.3			
Hexane	UG/M3		16.6			
Methyl ethyl ketone (2-Butanone)	UG/M3		20.4	65.5		
Methylene chloride	UG/M3		8.5	66.0		
Styrene	UG/M3		3.5			
t-Butyl alcohol	UG/M3					
Tetrachloroethene	UG/M3	13,100,000	584	88,900	10,800	154,000
Toluene	UG/M3	11.7 J	453		78.1 J	
Trichloroethene	UG/M3	230,000	105	3,090		
Trichlorofluoromethane	UG/M3				5,270	
Vinyl chloride	UG/M3	1,450				
Xylene (total)	UG/M3	59.6	339			

Flags assigned during chemistry validation are shown.

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Only Detected Results Reported.

TABLE 4-18
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE I AMBIENT AIR AND SOIL VAPOR SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-058	SG-059	SG-060	SG-060	SG-061
Sample ID		SG-58	SG-59	DUP-061411	SG-60	SG-61
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/15/11	06/15/11	06/14/11	06/14/11	06/15/11
Parameter	Units			Field Duplicate (1-1)		
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3			188	15,000	
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3					
1,1-Dichloroethane	UG/M3					
1,1-Dichloroethene	UG/M3					
1,2,4-Trimethylbenzene	UG/M3			19.2 J		22.0 J
1,2-Dichlorobenzene	UG/M3					
1,2-Dichloroethene (cis)	UG/M3			67.8	6,560	
1,2-Dichloroethene (trans)	UG/M3					
1,2-Dichloropropane	UG/M3					
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3					
1,3-Dichlorobenzene	UG/M3					
1,4-Dichlorobenzene	UG/M3					
2,2,4-Trimethylpentane	UG/M3					
4-Methyl-2-pentanone	UG/M3					
Benzene	UG/M3					
Bromoform	UG/M3					
Carbon tetrachloride	UG/M3				793 J	
Chloroethane	UG/M3					
Chloroform	UG/M3			170	14,200	
Cyclohexane	UG/M3					63.6
Dibromochloromethane	UG/M3					
Dichlorodifluoromethane	UG/M3					
Ethanol	UG/M3		31.3 J	61.4	1,850 J	93.7

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Only Detected Results Reported.

TABLE 4-18
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE I AMBIENT AIR AND SOIL VAPOR SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-058	SG-059	SG-060	SG-060	SG-061
Sample ID		SG-58	SG-59	DUP-061411	SG-60	SG-61
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/15/11	06/15/11	06/14/11	06/14/11	06/15/11
Parameter	Units			Field Duplicate (1-1)		
Volatile Organic Compounds						
Ethylbenzene	UG/M3					
Hexane	UG/M3				3,900	
Methyl ethyl ketone (2-Butanone)	UG/M3					
Methylene chloride	UG/M3		45.7		3,040	
Styrene	UG/M3					
t-Butyl alcohol	UG/M3		35.5			
Tetrachloroethene	UG/M3	176,000	2,580	1,100,000	48,200,000	79,800
Toluene	UG/M3					16.3 J
Trichloroethene	UG/M3			2,640	220,000	94.7
Trichlorofluoromethane	UG/M3					
Vinyl chloride	UG/M3					
Xylene (total)	UG/M3		40.4 J			65.4

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Only Detected Results Reported.

TABLE 4-18
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE I AMBIENT AIR AND SOIL VAPOR SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-062	SG-063	SG-063	SG-078	SG-079
Sample ID		SG-62	DUP2-061511	SG-63	SG-78	SG-79
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/14/11	06/15/11	06/15/11	06/13/11	06/13/11
Parameter	Units		Field Duplicate (1-1)			
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	8.6				29.7
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3					
1,1-Dichloroethane	UG/M3		29.8	38.9		
1,1-Dichloroethene	UG/M3					
1,2,4-Trimethylbenzene	UG/M3	44.7		4.6	53.7	180
1,2-Dichlorobenzene	UG/M3			5.0		
1,2-Dichloroethene (cis)	UG/M3		134	108		
1,2-Dichloroethene (trans)	UG/M3			15.3		
1,2-Dichloropropane	UG/M3					
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	10.2			14.9	47.4
1,3-Dichlorobenzene	UG/M3					4.0
1,4-Dichlorobenzene	UG/M3				6.9	7.3
2,2,4-Trimethylpentane	UG/M3	0.91 J		119	69.0	52.3
4-Methyl-2-pentanone	UG/M3					
Benzene	UG/M3	2.8	41.2	49.1	110	93.2
Bromoform	UG/M3					
Carbon tetrachloride	UG/M3					1.2
Chloroethane	UG/M3		43.2	11.4		
Chloroform	UG/M3					
Cyclohexane	UG/M3		3,300	3,600	43.2	430 J
Dibromochloromethane	UG/M3					
Dichlorodifluoromethane	UG/M3				25.3	
Ethanol	UG/M3	66.7		48.0	266 J	292

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Only Detected Results Reported.

TABLE 4-18
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE I AMBIENT AIR AND SOIL VAPOR SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-062	SG-063	SG-063	SG-078	SG-079
Sample ID		SG-62	DUP2-061511	SG-63	SG-78	SG-79
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/14/11	06/15/11	06/15/11	06/13/11	06/13/11
Parameter	Units		Field Duplicate (1-1)			
Volatile Organic Compounds						
Ethylbenzene	UG/M3	38.9			110	127
Hexane	UG/M3	1.7		91.6	56.0	24.5
Methyl ethyl ketone (2-Butanone)	UG/M3	10.8		53.5	23.1	5.2
Methylene chloride	UG/M3					
Styrene	UG/M3				4.8	
t-Butyl alcohol	UG/M3					3.4
Tetrachloroethene	UG/M3	35.0	258	208	48.4	21,000
Toluene	UG/M3	121		6.4	1,090	467
Trichloroethene	UG/M3	71.6	56.2	62.2		
Trichlorofluoromethane	UG/M3	2.8				
Vinyl chloride	UG/M3		666	48.7		
Xylene (total)	UG/M3	173		4.5 J	352	474

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Only Detected Results Reported.

TABLE 4-18
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE I AMBIENT AIR AND SOIL VAPOR SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-080	SG-081	SG-082	SG-084	SG-085
Sample ID		SG-80	SG-81	SG-82	SG-84	SG-85
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/14/11	06/14/11	06/14/11	06/15/11	06/15/11
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3		27.8 J			
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3					
1,1-Dichloroethane	UG/M3					
1,1-Dichloroethene	UG/M3					
1,2,4-Trimethylbenzene	UG/M3	33.4	20.2 J	17.1 J		59.9 J
1,2-Dichlorobenzene	UG/M3					
1,2-Dichloroethene (cis)	UG/M3					
1,2-Dichloroethene (trans)	UG/M3					
1,2-Dichloropropane	UG/M3					
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3					
1,3-Dichlorobenzene	UG/M3					
1,4-Dichlorobenzene	UG/M3					
2,2,4-Trimethylpentane	UG/M3					
4-Methyl-2-pentanone	UG/M3					
Benzene	UG/M3					
Bromoform	UG/M3					
Carbon tetrachloride	UG/M3					
Chloroethane	UG/M3					
Chloroform	UG/M3					
Cyclohexane	UG/M3					
Dibromochloromethane	UG/M3					
Dichlorodifluoromethane	UG/M3					
Ethanol	UG/M3	12,200 J	65.7	71.8		259

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Only Detected Results Reported.

TABLE 4-18
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE I AMBIENT AIR AND SOIL VAPOR SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-080	SG-081	SG-082	SG-084	SG-085
Sample ID		SG-80	SG-81	SG-82	SG-84	SG-85
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/14/11	06/14/11	06/14/11	06/15/11	06/15/11
Parameter	Units					
Volatile Organic Compounds						
Ethylbenzene	UG/M3					
Hexane	UG/M3					581
Methyl ethyl ketone (2-Butanone)	UG/M3					
Methylene chloride	UG/M3	37.9			2,820	1,690
Styrene	UG/M3					
t-Butyl alcohol	UG/M3					
Tetrachloroethene	UG/M3	1,670	22,100	6,370	282,000	7,460
Toluene	UG/M3	171	63.7	152		198
Trichloroethene	UG/M3	74.9	776	208		114
Trichlorofluoromethane	UG/M3					256
Vinyl chloride	UG/M3					
Xylene (total)	UG/M3	191	113	184		

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Only Detected Results Reported.

TABLE 4-18
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE I AMBIENT AIR AND SOIL VAPOR SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-086	SG-087
Sample ID		SG-86	SG-87
Matrix		Soil Gas	Soil Gas
Depth Interval (ft)		-	-
Date Sampled		06/15/11	06/15/11
Parameter	Units		
Volatile Organic Compounds			
1,1,1-Trichloroethane	UG/M3	295 J	
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3		
1,1-Dichloroethane	UG/M3		
1,1-Dichloroethene	UG/M3	1,290	
1,2,4-Trimethylbenzene	UG/M3		
1,2-Dichlorobenzene	UG/M3		
1,2-Dichloroethene (cis)	UG/M3		
1,2-Dichloroethene (trans)	UG/M3		
1,2-Dichloropropane	UG/M3		169
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3		
1,3-Dichlorobenzene	UG/M3		
1,4-Dichlorobenzene	UG/M3		
2,2,4-Trimethylpentane	UG/M3		
4-Methyl-2-pentanone	UG/M3		
Benzene	UG/M3		
Bromoform	UG/M3		
Carbon tetrachloride	UG/M3		
Chloroethane	UG/M3		
Chloroform	UG/M3		
Cyclohexane	UG/M3		
Dibromochloromethane	UG/M3		
Dichlorodifluoromethane	UG/M3		
Ethanol	UG/M3	3,840	1,310

Flags assigned during chemistry validation are shown.

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Only Detected Results Reported.

TABLE 4-18
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE I AMBIENT AIR AND SOIL VAPOR SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-086	SG-087
Sample ID		SG-86	SG-87
Matrix		Soil Gas	Soil Gas
Depth Interval (ft)		-	-
Date Sampled		06/15/11	06/15/11
Parameter	Units		
Volatile Organic Compounds			
Ethylbenzene	UG/M3		
Hexane	UG/M3	978	1,960
Methyl ethyl ketone (2-Butanone)	UG/M3		
Methylene chloride	UG/M3	3,140	6,640
Styrene	UG/M3		
t-Butyl alcohol	UG/M3		
Tetrachloroethene	UG/M3	69,500	2,190
Toluene	UG/M3	222 J	264
Trichloroethene	UG/M3	899	
Trichlorofluoromethane	UG/M3		
Vinyl chloride	UG/M3		
Xylene (total)	UG/M3		

Flags assigned during chemistry validation are shown.

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Only Detected Results Reported.

TABLE 4-19
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN RI PHASE I SOIL VAPOR SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Parameter	Units	No. of Samples	No. of Detections	Range of Detections			Location of Max Value
				Min	Max	Avg	
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/M3	34	15	2.00	1.69E+04	2,203	SG-042
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	34	1	1,520	1,520	1,520	SG-049
1,1-Dichloroethane	UG/M3	34	4	12.80	42.00	30.88	SG-046
1,1-Dichloroethene	UG/M3	34	2	189.0	1,290	739.5	SG-086
1,2,4-Trimethylbenzene	UG/M3	34	17	4.60	180.0	47.65	SG-079
1,2-Dichlorobenzene	UG/M3	34	1	5.00	5.00	5.00	SG-063
1,2-Dichloroethene (cis)	UG/M3	34	8	17.70	4.37E+05	5.58E+04	SG-049
1,2-Dichloroethene (trans)	UG/M3	34	3	15.30	1,420	485.4	SG-049
1,2-Dichloropropane	UG/M3	34	1	169.0	169.0	169.0	SG-087
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	34	6	10.20	47.40	23.67	SG-079
1,3-Dichlorobenzene	UG/M3	34	3	4.00	7.90	5.43	SG-019
1,4-Dichlorobenzene	UG/M3	34	6	1.50	7.30	4.25	SG-079
2,2,4-Trimethylpentane	UG/M3	34	8	0.910	400.0	138.5	SG-021
4-Methyl-2-pentanone	UG/M3	34	1	24.90	24.90	24.90	SG-055
Benzene	UG/M3	34	11	2.10	241.0	69.69	SG-021
Bromoform	UG/M3	34	4	51.90	6,410	2,087	SG-058
Carbon tetrachloride	UG/M3	34	5	1.20	2,430	646.6	SG-049
Chloroethane	UG/M3	34	2	11.40	43.20	27.30	SG-063

Only Detected Results Reported.

TABLE 4-19
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN RI PHASE I SOIL VAPOR SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Parameter	Units	No. of Samples	No. of Detections	Range of Detections			Location of Max Value
				Min	Max	Avg	
Volatile Organic Compounds							
Chloroform	UG/M3	34	7	19.30	1.42E+04	2,226	SG-060
Cyclohexane	UG/M3	34	11	8.60	1.63E+04	2,407	SG-043
Dibromochloromethane	UG/M3	34	1	25.40	25.40	25.40	SG-046
Dichlorodifluoromethane	UG/M3	34	3	1.20	25.30	9.60	SG-078
Ethanol	UG/M3	34	26	31.30	1.22E+04	847.7	SG-080
Ethylbenzene	UG/M3	34	7	38.70	127.0	75.93	SG-079
Hexane	UG/M3	34	15	1.70	8,000	1,165	SG-043
Methyl ethyl ketone (2-Butanone)	UG/M3	34	8	5.20	65.50	26.45	SG-056
Methylene chloride	UG/M3	34	13	8.50	6,640	1,474	SG-087
Styrene	UG/M3	34	6	2.40	16.80	9.12	SG-046
t-Butyl alcohol	UG/M3	34	2	3.40	35.50	19.45	SG-059
Tetrachloroethene	UG/M3	34	34	35.00	4.82E+07	1.89E+06	SG-060
Toluene	UG/M3	34	21	6.40	1,090	182.7	SG-078
Trichloroethene	UG/M3	34	21	9.20	2.30E+05	2.20E+04	SG-049
Trichlorofluoromethane	UG/M3	34	4	2.80	5,270	1,412	SG-057
Vinyl chloride	UG/M3	34	4	48.70	1,450	712.9	SG-049
Xylene (total)	UG/M3	34	16	4.50	474.0	168.4	SG-079

Only Detected Results Reported.

TABLE 4-20
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE II AMBIENT AIR AND SOIL VAPOR SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID		AA-038	AA-039	AA-040	SG-018	SG-019
Sample ID		AA-03052012-1	AA-03062012-1	AA-03072012-1	SG-018	FD-03062012-1
Matrix		Outdoor Air	Outdoor Air	Outdoor Air	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/05/12	03/06/12	03/07/12	03/06/12	03/06/12
Parameter	Units					Field Duplicate (1-1)
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3				6.3	4.7
1,1,2,2-Tetrachloroethane	UG/M3				3.1	
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3					
1,1-Dichloroethane	UG/M3					
1,1-Dichloroethene	UG/M3					
1,2,4-Trimethylbenzene	UG/M3		2.5	1.6	10.5	13.4
1,2-Dichlorobenzene	UG/M3					
1,2-Dichloroethane	UG/M3					4.4
1,2-Dichloroethene (cis)	UG/M3				14.7	
1,2-Dichloroethene (trans)	UG/M3					
1,2-Dichloropropane	UG/M3					43.8
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3					4.0
1,3-Dichlorobenzene	UG/M3				10.2	7.1
1,4-Dichlorobenzene	UG/M3					
2,2,4-Trimethylpentane	UG/M3	2.6				
4-Methyl-2-pentanone	UG/M3					
Benzene	UG/M3	1.7	1.0	1.3	1.1	35.7
Bromomethane	UG/M3					
Carbon tetrachloride	UG/M3					
Chloroform	UG/M3				32.7	194
Cyclohexane	UG/M3	3.4		1.2	29.7	30.1
Dichlorodifluoromethane	UG/M3	1.5 J		2.0	1.5	3.4
Ethanol	UG/M3	10	9.4	16.0	69.4	70.5 D

Flags assigned during chemistry validation are shown.

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Only Detected Results Reported.

TABLE 4-20
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE II AMBIENT AIR AND SOIL VAPOR SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID		AA-038	AA-039	AA-040	SG-018	SG-019
Sample ID		AA-03052012-1	AA-03062012-1	AA-03072012-1	SG-018	FD-03062012-1
Matrix		Outdoor Air	Outdoor Air	Outdoor Air	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/05/12	03/06/12	03/07/12	03/06/12	03/06/12
Parameter	Units					Field Duplicate (1-1)
Volatile Organic Compounds						
Ethylbenzene	UG/M3	0.58 J		1.8	5.1	11.0
Methyl ethyl ketone (2-Butanone)	UG/M3	2.3	4.2	2.0	3.5	36.2
Methylene chloride	UG/M3	1.5	1.5	2.0	88.3	14.9
n-Hexane	UG/M3	6.2		2.6	34.1	13.0
Styrene	UG/M3					
t-Butyl alcohol	UG/M3					
Tetrachloroethene	UG/M3	0.68 J		1.9	958 D	126
Toluene	UG/M3	7.3	21.9	15.1	18.8	531 D
Trichloroethene	UG/M3				31.6	9.2
Trichlorofluoromethane	UG/M3		1.0 J		1.2 J	
Vinyl chloride	UG/M3					
Xylene (total)	UG/M3	2.6 J	4.0	10.8	29.0	51.8

Flags assigned during chemistry validation are shown.

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Only Detected Results Reported.

TABLE 4-20
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE II AMBIENT AIR AND SOIL VAPOR SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-019	SG-020	SG-021	SG-042	SG-044
Sample ID		SG-019	SG-020	SG-021	SG-042	SG-044
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/06/12	03/06/12	03/06/12	03/06/12	03/06/12
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	4.9	5.5		12,400 D	18.1
1,1,2,2-Tetrachloroethane	UG/M3					
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3					
1,1-Dichloroethane	UG/M3				240	
1,1-Dichloroethene	UG/M3				25.3	
1,2,4-Trimethylbenzene	UG/M3	12.3				10.4
1,2-Dichlorobenzene	UG/M3					
1,2-Dichloroethane	UG/M3	3.6				
1,2-Dichloroethene (cis)	UG/M3					
1,2-Dichloroethene (trans)	UG/M3					
1,2-Dichloropropane	UG/M3	34.1				
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3					
1,3-Dichlorobenzene	UG/M3	8.1				7.2
1,4-Dichlorobenzene	UG/M3					
2,2,4-Trimethylpentane	UG/M3					12.9
4-Methyl-2-pentanone	UG/M3					
Benzene	UG/M3	29.7				7.2
Bromomethane	UG/M3					
Carbon tetrachloride	UG/M3		3.9			
Chloroform	UG/M3	211	221 D		36.8	
Cyclohexane	UG/M3	25.2		15.8 J		
Dichlorodifluoromethane	UG/M3	3.7	3.5	23.2 J		
Ethanol	UG/M3	83.6	30.4			402 J

Flags assigned during chemistry validation are shown.

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Only Detected Results Reported.

TABLE 4-20
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE II AMBIENT AIR AND SOIL VAPOR SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-019	SG-020	SG-021	SG-042	SG-044
Sample ID		SG-019	SG-020	SG-021	SG-042	SG-044
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/06/12	03/06/12	03/06/12	03/06/12	03/06/12
Parameter	Units					
Volatile Organic Compounds						
Ethylbenzene	UG/M3	11.2	8.1			19.6
Methyl ethyl ketone (2-Butanone)	UG/M3	18.4	3.6			
Methylene chloride	UG/M3	17.5	4.4	17.1 J		
n-Hexane	UG/M3	22.1	3.1	12.8 J		10.6
Styrene	UG/M3					
t-Butyl alcohol	UG/M3					
Tetrachloroethene	UG/M3	141	245 D	21.9	294	149
Toluene	UG/M3	415 D	57.0	12.9 J	30.6	134
Trichloroethene	UG/M3	8.8	25.7			
Trichlorofluoromethane	UG/M3					
Vinyl chloride	UG/M3					
Xylene (total)	UG/M3	53.8	31.1			95.7

Flags assigned during chemistry validation are shown.

Blank cell - Not Detected. NA - Not analyzed.

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Only Detected Results Reported.

TABLE 4-20
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE II AMBIENT AIR AND SOIL VAPOR SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-046	SG-047	SG-048	SG-049	SG-049
Sample ID		SG-046	SG-047	SG-048	FD-03072012-1	SG-049
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/06/12	03/06/12	03/05/12	03/07/12	03/07/12
Parameter	Units				Field Duplicate (1-1)	
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	35.9	14.1	44.1	160	153
1,1,2,2-Tetrachloroethane	UG/M3					
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	19.1		1.9 J	1,290	1,220
1,1-Dichloroethane	UG/M3					
1,1-Dichloroethene	UG/M3				46.8	44.1
1,2,4-Trimethylbenzene	UG/M3	9.2	8.5	10.5		
1,2-Dichlorobenzene	UG/M3			1.1 J		
1,2-Dichloroethane	UG/M3			2.2		
1,2-Dichloroethene (cis)	UG/M3	3.7		1.6	160,000 D	97,100 D
1,2-Dichloroethene (trans)	UG/M3				571	556
1,2-Dichloropropane	UG/M3					
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3			2.1		
1,3-Dichlorobenzene	UG/M3		4.2			
1,4-Dichlorobenzene	UG/M3			2.6		
2,2,4-Trimethylpentane	UG/M3		8.4	1.5		
4-Methyl-2-pentanone	UG/M3					
Benzene	UG/M3	4.9	5.1	3.2		32.4
Bromomethane	UG/M3					
Carbon tetrachloride	UG/M3		6.2		1,500	1,420
Chloroform	UG/M3	13.1	24.5	0.77 J	371	354
Cyclohexane	UG/M3	27.9	7.5	2.1		
Dichlorodifluoromethane	UG/M3			1.8		
Ethanol	UG/M3			25.1	18.1	24.5

Flags assigned during chemistry validation are shown.

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J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

Only Detected Results Reported.

TABLE 4-20
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE II AMBIENT AIR AND SOIL VAPOR SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-046	SG-047	SG-048	SG-049	SG-049
Sample ID		SG-046	SG-047	SG-048	FD-03072012-1	SG-049
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/06/12	03/06/12	03/05/12	03/07/12	03/07/12
Parameter	Units				Field Duplicate (1-1)	
Volatile Organic Compounds						
Ethylbenzene	UG/M3	11.7	12.2	20.2	18.8 J	18.9 J
Methyl ethyl ketone (2-Butanone)	UG/M3	5.9	10.2	2.7		
Methylene chloride	UG/M3	6.0	2.1	1.3		
n-Hexane	UG/M3			10.0		
Styrene	UG/M3	1.7		2.7		
t-Butyl alcohol	UG/M3					
Tetrachloroethene	UG/M3	294	617 D	17,600 D	5,140,000 DJ	3,420,000 DJ
Toluene	UG/M3	191 D	79.8	69.1	48.9	48.2
Trichloroethene	UG/M3	70.2	65.6	21.6	70,700 D	40,600 D
Trichlorofluoromethane	UG/M3	6.9	5.2	3.6		
Vinyl chloride	UG/M3				345	328
Xylene (total)	UG/M3	50.3	58.9	81.3	80.0	76.7

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Only Detected Results Reported.

TABLE 4-20
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE II AMBIENT AIR AND SOIL VAPOR SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-055	SG-056	SG-058	SG-059	SG-060
Sample ID		SG-055	SG-056	SG-058	SG-059	SG-060
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/06/12	03/06/12	03/07/12	03/07/12	03/05/12
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3		51.3		4.5 J	118 J
1,1,2,2-Tetrachloroethane	UG/M3					
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3					
1,1-Dichloroethane	UG/M3					
1,1-Dichloroethene	UG/M3					
1,2,4-Trimethylbenzene	UG/M3	4.6	27.5 J		33.7	
1,2-Dichlorobenzene	UG/M3					
1,2-Dichloroethane	UG/M3					
1,2-Dichloroethene (cis)	UG/M3		763	31.1		
1,2-Dichloroethene (trans)	UG/M3		19.7 J			
1,2-Dichloropropane	UG/M3					
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	1.6			9.8	
1,3-Dichlorobenzene	UG/M3	2.8				
1,4-Dichlorobenzene	UG/M3					
2,2,4-Trimethylpentane	UG/M3	4.0			8.5	
4-Methyl-2-pentanone	UG/M3					
Benzene	UG/M3	3.7			4.3	44.4
Bromomethane	UG/M3					
Carbon tetrachloride	UG/M3					
Chloroform	UG/M3		496			132
Cyclohexane	UG/M3					
Dichlorodifluoromethane	UG/M3					
Ethanol	UG/M3		462	48.3	387	401

Flags assigned during chemistry validation are shown.

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Only Detected Results Reported.

TABLE 4-20
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE II AMBIENT AIR AND SOIL VAPOR SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-055	SG-056	SG-058	SG-059	SG-060
Sample ID		SG-055	SG-056	SG-058	SG-059	SG-060
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/06/12	03/06/12	03/07/12	03/07/12	03/05/12
Parameter	Units					
Volatile Organic Compounds						
Ethylbenzene	UG/M3	8.9	17.8 J		32.5	55.0 J
Methyl ethyl ketone (2-Butanone)	UG/M3				8.7	
Methylene chloride	UG/M3				2.5 J	
n-Hexane	UG/M3				5.3	80.2 J
Styrene	UG/M3					
t-Butyl alcohol	UG/M3					
Tetrachloroethene	UG/M3	49.0	19,000 D	8,800 D	405	17,900
Toluene	UG/M3	54.5	69.0	49.2	119	778
Trichloroethene	UG/M3	12.4	1,230	53.8	2.0 J	782
Trichlorofluoromethane	UG/M3					
Vinyl chloride	UG/M3					
Xylene (total)	UG/M3	41.2	111		181	322

Flags assigned during chemistry validation are shown.

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Only Detected Results Reported.

TABLE 4-20
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE II AMBIENT AIR AND SOIL VAPOR SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-061R	SG-062	SG-063	SG-079	SG-080
Sample ID		SG-061R	SG-062	SG-063	SG-079	SG-080
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/07/12	03/05/12	03/07/12	03/06/12	03/05/12
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3		5.5		12.9	11.7
1,1,2,2-Tetrachloroethane	UG/M3					
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3					
1,1-Dichloroethane	UG/M3			7.8		
1,1-Dichloroethene	UG/M3					
1,2,4-Trimethylbenzene	UG/M3	10.3	31.8	8.7	2.8	19.9
1,2-Dichlorobenzene	UG/M3					
1,2-Dichloroethane	UG/M3					
1,2-Dichloroethene (cis)	UG/M3	4.8 J		1.2		
1,2-Dichloroethene (trans)	UG/M3					
1,2-Dichloropropane	UG/M3					
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3		6.0			
1,3-Dichlorobenzene	UG/M3	6.3 J	0.97 J			16.2
1,4-Dichlorobenzene	UG/M3			1.9		
2,2,4-Trimethylpentane	UG/M3	12.1	14.6	20.0		22.4
4-Methyl-2-pentanone	UG/M3		1.6			
Benzene	UG/M3	7.4	28.2	1.4		19.2
Bromomethane	UG/M3			0.90 J		
Carbon tetrachloride	UG/M3				0.64 J	
Chloroform	UG/M3		0.83 J			3.6 J
Cyclohexane	UG/M3		20.7			17.3
Dichlorodifluoromethane	UG/M3		2.9		4.1	
Ethanol	UG/M3	249	266 J	49.9	59.3	540 J

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Only Detected Results Reported.

TABLE 4-20
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE II AMBIENT AIR AND SOIL VAPOR SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-061R	SG-062	SG-063	SG-079	SG-080
Sample ID		SG-061R	SG-062	SG-063	SG-079	SG-080
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/07/12	03/05/12	03/07/12	03/06/12	03/05/12
Parameter	Units					
Volatile Organic Compounds						
Ethylbenzene	UG/M3	18.6	54.3	12.2	9.0	34.3
Methyl ethyl ketone (2-Butanone)	UG/M3		14.6		3.6	11.3
Methylene chloride	UG/M3		7.1			
n-Hexane	UG/M3	88.9	47.2			34.5
Styrene	UG/M3		1.3	2.1		
t-Butyl alcohol	UG/M3					
Tetrachloroethene	UG/M3	256	34.9	150	1,180 D	260
Toluene	UG/M3	70.0	323 D	16.3	66.9	192
Trichloroethene	UG/M3	16.5	1.3	6.4	3.5	16.8
Trichlorofluoromethane	UG/M3		11.5			
Vinyl chloride	UG/M3			2.0		
Xylene (total)	UG/M3	76.9	228	51.8	34.6	171

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Only Detected Results Reported.

TABLE 4-20
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE II AMBIENT AIR AND SOIL VAPOR SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-081	SG-082	SG-082	SG-083	SG-084
Sample ID		SG-081	FD-03052012-1	SG-082	SG-083	SG-084
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/05/12	03/05/12	03/05/12	03/05/12	03/07/12
Parameter	Units		Field Duplicate (1-1)			
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	35.5			17.6 J	
1,1,2,2-Tetrachloroethane	UG/M3					
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3					
1,1-Dichloroethane	UG/M3					
1,1-Dichloroethene	UG/M3					
1,2,4-Trimethylbenzene	UG/M3	22.3 J				
1,2-Dichlorobenzene	UG/M3					
1,2-Dichloroethane	UG/M3	15.8				
1,2-Dichloroethene (cis)	UG/M3	6.7 J			12.4 J	
1,2-Dichloroethene (trans)	UG/M3					
1,2-Dichloropropane	UG/M3					
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3					
1,3-Dichlorobenzene	UG/M3	22.6 J				
1,4-Dichlorobenzene	UG/M3					
2,2,4-Trimethylpentane	UG/M3	22.2 J				
4-Methyl-2-pentanone	UG/M3					
Benzene	UG/M3	8.7 J				
Bromomethane	UG/M3					
Carbon tetrachloride	UG/M3					
Chloroform	UG/M3		35.2	37.5		28.3 J
Cyclohexane	UG/M3	23.2				
Dichlorodifluoromethane	UG/M3					
Ethanol	UG/M3	362			96.6	84.8

Flags assigned during chemistry validation are shown.

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Only Detected Results Reported.

TABLE 4-20
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE II AMBIENT AIR AND SOIL VAPOR SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-081	SG-082	SG-082	SG-083	SG-084
Sample ID		SG-081	FD-03052012-1	SG-082	SG-083	SG-084
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/05/12	03/05/12	03/05/12	03/05/12	03/07/12
Parameter	Units		Field Duplicate (1-1)			
Volatile Organic Compounds						
Ethylbenzene	UG/M3	26.3				
Methyl ethyl ketone (2-Butanone)	UG/M3	9.2 J		19.2		
Methylene chloride	UG/M3		14.7 J	12.9 J	15.8 J	11.1 J
n-Hexane	UG/M3	29.9		13.6 J	11.0 J	
Styrene	UG/M3					
t-Butyl alcohol	UG/M3					
Tetrachloroethene	UG/M3	4,980	75,300 D	49,300 D	280,000 D	66,200 D
Toluene	UG/M3	116	16.0 J	18.6 J	48.1	68.1
Trichloroethene	UG/M3	380	86.4	92.7	318	300
Trichlorofluoromethane	UG/M3					
Vinyl chloride	UG/M3					
Xylene (total)	UG/M3	149	26.6 J	26.9 J	50.3 J	43.6 J

Flags assigned during chemistry validation are shown.

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Only Detected Results Reported.

TABLE 4-20
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE II AMBIENT AIR AND SOIL VAPOR SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-085	SG-086	SG-087	SG-112	SG-113
Sample ID		SG-085	SG-086	SG-087	SG-112	SG-113
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/07/12	03/07/12	03/07/12	03/06/12	03/06/12
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	11.3	136			22.1
1,1,2,2-Tetrachloroethane	UG/M3					
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3					
1,1-Dichloroethane	UG/M3		88.7			21.5
1,1-Dichloroethene	UG/M3		465			4.5
1,2,4-Trimethylbenzene	UG/M3	5.3		19.4 J		2.0
1,2-Dichlorobenzene	UG/M3					
1,2-Dichloroethane	UG/M3					
1,2-Dichloroethene (cis)	UG/M3		35.6	536	176	12.3
1,2-Dichloroethene (trans)	UG/M3					41.8
1,2-Dichloropropane	UG/M3	2.3				
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3					
1,3-Dichlorobenzene	UG/M3					
1,4-Dichlorobenzene	UG/M3	1.2 J				
2,2,4-Trimethylpentane	UG/M3	2.8				44.1
4-Methyl-2-pentanone	UG/M3					
Benzene	UG/M3	2.2				10.5
Bromomethane	UG/M3					
Carbon tetrachloride	UG/M3					39.3
Chloroform	UG/M3	1.0 J	35.3			2,470 D
Cyclohexane	UG/M3	2.7				18.1
Dichlorodifluoromethane	UG/M3	1.9				4.9
Ethanol	UG/M3	166 J		116	158	32.3

Flags assigned during chemistry validation are shown.

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Only Detected Results Reported.

TABLE 4-20
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE II AMBIENT AIR AND SOIL VAPOR SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-085	SG-086	SG-087	SG-112	SG-113
Sample ID		SG-085	SG-086	SG-087	SG-112	SG-113
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/07/12	03/07/12	03/07/12	03/06/12	03/06/12
Parameter	Units					
Volatile Organic Compounds						
Ethylbenzene	UG/M3	15.1	10.8 J	18.4 J	7.5 J	11.0
Methyl ethyl ketone (2-Butanone)	UG/M3	5.8			8.8 J	9.2
Methylene chloride	UG/M3	27.9			93.2	54.6
n-Hexane	UG/M3	5.4				31.1
Styrene	UG/M3	2.5				
t-Butyl alcohol	UG/M3					
Tetrachloroethene	UG/M3	269	22,200 D	227,000 D	5,910	388 D
Toluene	UG/M3	63.1	141	68.1	82.8	101
Trichloroethene	UG/M3	8.4	389	968	181	139
Trichlorofluoromethane	UG/M3	103				2.2
Vinyl chloride	UG/M3					
Xylene (total)	UG/M3	57.0	45.5 J	102	30.0 J	40.9

Flags assigned during chemistry validation are shown.

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Only Detected Results Reported.

TABLE 4-20
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE II AMBIENT AIR AND SOIL VAPOR SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-114	SG-115	SG-116	SG-117	SG-118
Sample ID		SG-114	SG-115	SG-116	SG-117	SG-118
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/05/12	03/05/12	03/05/12	03/05/12	03/05/12
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	181		145	135	
1,1,2,2-Tetrachloroethane	UG/M3					
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3					
1,1-Dichloroethane	UG/M3	3.4				
1,1-Dichloroethene	UG/M3					
1,2,4-Trimethylbenzene	UG/M3	20.5	28.4			
1,2-Dichlorobenzene	UG/M3					
1,2-Dichloroethane	UG/M3	10.4	455	7.3 J		
1,2-Dichloroethene (cis)	UG/M3	6.8		109,000 D	1,100	37.0
1,2-Dichloroethene (trans)	UG/M3	1.2		260	110	
1,2-Dichloropropane	UG/M3		6.2 J	29.0		
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	5.1	9.6			
1,3-Dichlorobenzene	UG/M3		25.7			
1,4-Dichlorobenzene	UG/M3	1.2 J				
2,2,4-Trimethylpentane	UG/M3	3.7	17.6		14.5 J	
4-Methyl-2-pentanone	UG/M3		3.7 J			
Benzene	UG/M3	7.0	30.2	33.3	27.3	15.2
Bromomethane	UG/M3					
Carbon tetrachloride	UG/M3					
Chloroform	UG/M3	57.2	8.7	313	551	27.5 J
Cyclohexane	UG/M3	5.4	16.8		21.8	14.7 J
Dichlorodifluoromethane	UG/M3	1.8				15.5 J
Ethanol	UG/M3	28.3	365	1,800	75.1	

Flags assigned during chemistry validation are shown.

Blank cell - Not Detected. NA - Not analyzed.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

Only Detected Results Reported.

TABLE 4-20
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE II AMBIENT AIR AND SOIL VAPOR SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-114	SG-115	SG-116	SG-117	SG-118
Sample ID		SG-114	SG-115	SG-116	SG-117	SG-118
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/05/12	03/05/12	03/05/12	03/05/12	03/05/12
Parameter	Units					
Volatile Organic Compounds						
Ethylbenzene	UG/M3	26.7	46.8	25.2 J	18.8 J	18.5 J
Methyl ethyl ketone (2-Butanone)	UG/M3	6.5	8.7	251		
Methylene chloride	UG/M3	99.8	49.5	83.5	58.9	62.0
n-Hexane	UG/M3	10.3	47.0	32.9	23.3	61.0
Styrene	UG/M3	2.1				
t-Butyl alcohol	UG/M3	1.6				
Tetrachloroethene	UG/M3	2,080 D	796	23,600,000 DJ	287,000 J	320,000 D
Toluene	UG/M3	95.8	313	136	97.0	79.1
Trichloroethene	UG/M3	2,460 D	27.2	67,600 D	4,800	148
Trichlorofluoromethane	UG/M3	9.4				373
Vinyl chloride	UG/M3					
Xylene (total)	UG/M3	117	238	115	81.0	88.1

Flags assigned during chemistry validation are shown.

Blank cell - Not Detected. NA - Not analyzed.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

Only Detected Results Reported.

TABLE 4-20
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE II AMBIENT AIR AND SOIL VAPOR SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-119	SG-120	SG-120	SG-121	SG-122
Sample ID		SG-119	FD-03072012-2	SG-120	SG-121	SG-122
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/05/12	03/07/12	03/07/12	03/05/12	03/07/12
Parameter	Units		Field Duplicate (1-1)			
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	235			10.7	1.4 J
1,1,2,2-Tetrachloroethane	UG/M3					
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3					
1,1-Dichloroethane	UG/M3					
1,1-Dichloroethene	UG/M3					
1,2,4-Trimethylbenzene	UG/M3				18.1	51.5
1,2-Dichlorobenzene	UG/M3					
1,2-Dichloroethane	UG/M3					
1,2-Dichloroethene (cis)	UG/M3	119				
1,2-Dichloroethene (trans)	UG/M3					
1,2-Dichloropropane	UG/M3					
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3					10.0
1,3-Dichlorobenzene	UG/M3					50.1
1,4-Dichlorobenzene	UG/M3					
2,2,4-Trimethylpentane	UG/M3	28.2			20.7	21.8
4-Methyl-2-pentanone	UG/M3					
Benzene	UG/M3	32.4		5.7 J	40.3	16.8
Bromomethane	UG/M3					
Carbon tetrachloride	UG/M3					
Chloroform	UG/M3	87.3				
Cyclohexane	UG/M3	34.6			35.9	22.1
Dichlorodifluoromethane	UG/M3					1.4 J
Ethanol	UG/M3	99.0	98.1	155	331	570 J

Flags assigned during chemistry validation are shown.

Blank cell - Not Detected. NA - Not analyzed.

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Only Detected Results Reported.

TABLE 4-20
SUMMARY OF DETECTED COMPOUNDS IN RI PHASE II AMBIENT AIR AND SOIL VAPOR SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-119	SG-120	SG-120	SG-121	SG-122
Sample ID		SG-119	FD-03072012-2	SG-120	SG-121	SG-122
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/05/12	03/07/12	03/07/12	03/05/12	03/07/12
Parameter	Units		Field Duplicate (1-1)			
Volatile Organic Compounds						
Ethylbenzene	UG/M3	21.6 J	15.4 J	14.3 J	53.7	47.1
Methyl ethyl ketone (2-Butanone)	UG/M3	13.9 J			18.6	15.4
Methylene chloride	UG/M3	712	472	414	157	224 J
n-Hexane	UG/M3	42.3			52.9	16.8
Styrene	UG/M3					1.4 J
t-Butyl alcohol	UG/M3					
Tetrachloroethene	UG/M3	1,740,000 DJ	3,070	2,800	225	66.6
Toluene	UG/M3	133	70.5	72.8	423	148
Trichloroethene	UG/M3	1,620		16.2 J		0.60 J
Trichlorofluoromethane	UG/M3					0.54 J
Vinyl chloride	UG/M3					
Xylene (total)	UG/M3	96.1	77.3	65.0 J	258	222

Flags assigned during chemistry validation are shown.

Blank cell - Not Detected. NA - Not analyzed.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

Only Detected Results Reported.

TABLE 4-21
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN RI PHASE II SOIL VAPOR SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Parameter	Units	No. of Samples	No. of Detections	Range of Detections			Location of Max Value
				Min	Max	Avg	
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/M3	42	28	1.40	1.24E+04	499.3	SG-042
1,1,2,2-Tetrachloroethane	UG/M3	42	1	3.10	3.10	3.10	SG-018
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	42	4	1.90	1,290	632.8	SG-049
1,1-Dichloroethane	UG/M3	42	5	3.40	240.0	72.28	SG-042
1,1-Dichloroethene	UG/M3	42	5	4.50	465.0	117.1	SG-086
1,2,4-Trimethylbenzene	UG/M3	42	23	2.00	51.50	16.59	SG-122
1,2-Dichlorobenzene	UG/M3	42	1	1.10	1.10	1.10	SG-048
1,2-Dichloroethane	UG/M3	42	7	2.20	455.0	71.24	SG-115
1,2-Dichloroethene (cis)	UG/M3	42	20	1.20	1.60E+05	1.84E+04	SG-049
1,2-Dichloroethene (trans)	UG/M3	42	7	1.20	571.0	222.8	SG-049
1,2-Dichloropropane	UG/M3	42	5	2.30	43.80	23.08	SG-019
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	42	8	1.60	10.00	6.03	SG-122
1,3-Dichlorobenzene	UG/M3	42	12	0.970	50.10	13.46	SG-122
1,4-Dichlorobenzene	UG/M3	42	4	1.20	2.60	1.73	SG-048
2,2,4-Trimethylpentane	UG/M3	42	18	1.50	44.10	15.56	SG-113
4-Methyl-2-pentanone	UG/M3	42	2	1.60	3.70	2.65	SG-115
Benzene	UG/M3	42	27	1.10	44.40	16.94	SG-060
Bromomethane	UG/M3	42	1	0.900	0.900	0.900	SG-063

Only Detected Results Reported.

TABLE 4-21
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN RI PHASE II SOIL VAPOR SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Parameter	Units	No. of Samples	No. of Detections	Range of Detections			Location of Max Value
				Min	Max	Avg	
Volatile Organic Compounds							
Carbon tetrachloride	UG/M3	42	6	0.640	1,500	495.0	SG-049
Chloroform	UG/M3	42	26	0.770	2,470	220.9	SG-113
Cyclohexane	UG/M3	42	19	2.10	35.90	19.56	SG-121
Dichlorodifluoromethane	UG/M3	42	13	1.40	23.20	5.35	SG-021
Ethanol	UG/M3	42	33	18.10	1,800	234.0	SG-116
Ethylbenzene	UG/M3	42	35	5.10	55.00	21.62	SG-060
Methyl ethyl ketone (2-Butanone)	UG/M3	42	22	2.70	251.0	22.05	SG-116
Methylene chloride	UG/M3	42	27	1.30	712.0	100.9	SG-119
n-Hexane	UG/M3	42	25	3.10	88.90	29.57	SG-061R
Styrene	UG/M3	42	7	1.30	2.70	1.97	SG-048
t-Butyl alcohol	UG/M3	42	1	1.60	1.60	1.60	SG-114
Tetrachloroethene	UG/M3	42	42	21.90	2.36E+07	8.41E+05	SG-116
Toluene	UG/M3	42	42	12.90	778.0	134.9	SG-060
Trichloroethene	UG/M3	42	37	0.600	7.07E+04	5,221	SG-049
Trichlorofluoromethane	UG/M3	42	10	0.540	373.0	51.65	SG-118
Vinyl chloride	UG/M3	42	3	2.00	345.0	225.0	SG-049
Xylene (total)	UG/M3	42	39	26.60	322.0	96.29	SG-060

Only Detected Results Reported.

TABLE 4-22
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SOIL VAPOR SAMPLES IN THE KLINK
COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-016	SG-016	SG-016	SG-017	SG-017
Sample ID		SG-16	SG-16	SG-16	SG-17	SG-17
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/13/07	12/03/07	08/18/11	06/13/07	12/03/07
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3				130	31
1,1,2,2-Tetrachloroethane	UG/M3					
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3					
1,1,2-Trichloroethane	UG/M3	39				
1,1-Dichloroethane	UG/M3	31	42	26	1.8	1.5
1,1-Dichloroethene	UG/M3	4.8	4.8	10		
1,2,4-Trimethylbenzene	UG/M3	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	UG/M3					
1,2-Dichloroethane	UG/M3					
1,2-Dichloroethene (cis)	UG/M3	40	130	110		
1,2-Dichloroethene (trans)	UG/M3	13	48	110	39	19
1,2-Dichloropropane	UG/M3					
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	UG/M3			4.0		
1,4-Dichlorobenzene	UG/M3					
2,2,4-Trimethylpentane	UG/M3	NA	NA	NA	NA	NA
2-Hexanone	UG/M3				3.7	
4-Methyl-2-pentanone	UG/M3				4.5	
Acetone	UG/M3				17 J	
Benzene	UG/M3	31	100	190	2.2	
Bromodichloromethane	UG/M3					
Bromoform	UG/M3					
Bromomethane	UG/M3					
Carbon disulfide	UG/M3	5.0			10	
Carbon tetrachloride	UG/M3					

Flags assigned during chemistry validation are shown.

Blank cell - Not Detected. NA - Not analyzed.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

Only Detected Results Reported.

TABLE 4-22
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SOIL VAPOR SAMPLES IN THE KLINK
COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-016	SG-016	SG-016	SG-017	SG-017
Sample ID		SG-16	SG-16	SG-16	SG-17	SG-17
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/13/07	12/03/07	08/18/11	06/13/07	12/03/07
Parameter	Units					
Volatile Organic Compounds						
Chlorobenzene	UG/M3					
Chloroethane	UG/M3			3.5		
Chloroform	UG/M3	6.8			13	2.7
Chloromethane	UG/M3				0.93 J	
Cyclohexane	UG/M3	1,100	2,700	780 D		3.3
Dibromochloromethane	UG/M3					
Dichlorodifluoromethane	UG/M3			3.2	5.7	3.0
Ethanol	UG/M3	NA	NA	NA	NA	NA
Ethylbenzene	UG/M3	6.9		4.3	7.4	
Hexane	UG/M3	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	UG/M3			3.9		
Methyl ethyl ketone (2-Butanone)	UG/M3	7.7			7.4	
Methyl tert-butyl ether	UG/M3					
Methylcyclohexane	UG/M3	320	530	230 D		
Methylene chloride	UG/M3	4.2			13	
n-Hexane	UG/M3	NA	NA	NA	NA	NA
Styrene	UG/M3			2.6	5.3	
t-Butyl alcohol	UG/M3	NA	NA	NA	NA	NA
Tetrachloroethene	UG/M3	150	110	50	220	120
Tetrahydrofuran	UG/M3	NA	NA		NA	NA
Toluene	UG/M3		6.0	32	14	3.2
Trichloroethene	UG/M3	84	63	44	11	4.7
Trichlorofluoromethane	UG/M3			0.76	75 J	24 J
Vinyl chloride	UG/M3	85	180	400 D		
Xylene (total)	UG/M3	29		21	32	2.3

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Only Detected Results Reported.

TABLE 4-22
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SOIL VAPOR SAMPLES IN THE KLINK
COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-017	SG-018	SG-018	SG-018	SG-018
Sample ID		SG-17	SG-18	SG-18	SG-18	SG-18
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		08/18/11	06/13/07	12/04/07	06/15/11	08/17/11
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3		400	150		38
1,1,2,2-Tetrachloroethane	UG/M3					
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3		10	2.1		14
1,1,2-Trichloroethane	UG/M3				NA	
1,1-Dichloroethane	UG/M3	18	25	4.4		1.1
1,1-Dichloroethene	UG/M3					
1,2,4-Trimethylbenzene	UG/M3	NA	NA	NA	31.3	NA
1,2-Dichlorobenzene	UG/M3					
1,2-Dichloroethane	UG/M3					
1,2-Dichloroethene (cis)	UG/M3	21	1.4	0.95		1.3
1,2-Dichloroethene (trans)	UG/M3	72				
1,2-Dichloropropane	UG/M3					
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	NA	NA	NA		NA
1,3-Dichlorobenzene	UG/M3					10
1,4-Dichlorobenzene	UG/M3					
2,2,4-Trimethylpentane	UG/M3	NA	NA	NA		NA
2-Hexanone	UG/M3				NA	0.50
4-Methyl-2-pentanone	UG/M3					0.49
Acetone	UG/M3		28 J	4.1	NA	19 J
Benzene	UG/M3	140	0.77	1.3		1.3
Bromodichloromethane	UG/M3		0.67			0.72
Bromoform	UG/M3					
Bromomethane	UG/M3					
Carbon disulfide	UG/M3		1.2		NA	
Carbon tetrachloride	UG/M3		2.1	0.82		0.69

Flags assigned during chemistry validation are shown.

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Only Detected Results Reported.

TABLE 4-22
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SOIL VAPOR SAMPLES IN THE KLINK
COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-017	SG-018	SG-018	SG-018	SG-018
Sample ID		SG-17	SG-18	SG-18	SG-18	SG-18
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		08/18/11	06/13/07	12/04/07	06/15/11	08/17/11
Parameter	Units					
Volatile Organic Compounds						
Chlorobenzene	UG/M3					
Chloroethane	UG/M3	4.9				
Chloroform	UG/M3		65	45		37
Chloromethane	UG/M3					0.63
Cyclohexane	UG/M3	130				0.83
Dibromochloromethane	UG/M3					
Dichlorodifluoromethane	UG/M3		4.1 J			2.5
Ethanol	UG/M3	NA	NA	NA	93.1	NA
Ethylbenzene	UG/M3		1.5	0.91		1.2
Hexane	UG/M3	NA	NA	NA		NA
Isopropylbenzene (Cumene)	UG/M3				NA	
Methyl ethyl ketone (2-Butanone)	UG/M3		3.7	2.4		
Methyl tert-butyl ether	UG/M3		2.4	0.50		
Methylcyclohexane	UG/M3	110		0.88	NA	
Methylene chloride	UG/M3			0.38		
n-Hexane	UG/M3	NA	NA	NA	NA	NA
Styrene	UG/M3		3.4			0.49
t-Butyl alcohol	UG/M3	NA	NA	NA		NA
Tetrachloroethene	UG/M3	150	7,200	1,200 D	2,660	3,100 D
Tetrahydrofuran	UG/M3		NA	NA	NA	
Toluene	UG/M3	21	1.1	3.8		4.9
Trichloroethene	UG/M3	24	110	52	29.8	74
Trichlorofluoromethane	UG/M3	15	6.0 J	0.62		13
Vinyl chloride	UG/M3	28				
Xylene (total)	UG/M3	27	5.6	4.2	55.4	6.3

Flags assigned during chemistry validation are shown.

Blank cell - Not Detected. NA - Not analyzed.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

Only Detected Results Reported.

TABLE 4-22
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SOIL VAPOR SAMPLES IN THE KLINK
COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-018	SG-019	SG-019	SG-019	SG-019
Sample ID		SG-018	061307-FD-1	SG-19	SG-19	SG-19
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/06/12	06/13/07	06/13/07	12/03/07	06/13/11
Parameter	Units		Field Duplicate (1-1)			
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	6.3	110	110	35	3.8
1,1,2,2-Tetrachloroethane	UG/M3	3.1				
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3		0.92	1.0	0.84	
1,1,2-Trichloroethane	UG/M3	NA		0.44		NA
1,1-Dichloroethane	UG/M3		0.36	0.45	0.45	
1,1-Dichloroethene	UG/M3					
1,2,4-Trimethylbenzene	UG/M3	10.5	NA	NA	NA	102
1,2-Dichlorobenzene	UG/M3					
1,2-Dichloroethane	UG/M3					
1,2-Dichloroethene (cis)	UG/M3	14.7				
1,2-Dichloroethene (trans)	UG/M3					
1,2-Dichloropropane	UG/M3					
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3		NA	NA	NA	24.2
1,3-Dichlorobenzene	UG/M3	10.2			0.96	7.9
1,4-Dichlorobenzene	UG/M3		0.36	0.36	0.36	3.5
2,2,4-Trimethylpentane	UG/M3		NA	NA	NA	399 J
2-Hexanone	UG/M3	NA			0.94	NA
4-Methyl-2-pentanone	UG/M3		3.0	4.1	0.90	
Acetone	UG/M3	NA	27 J		12 J	NA
Benzene	UG/M3	1.1	0.48	2.7	0.83	85.8
Bromodichloromethane	UG/M3		5.6	7.2	1.7	
Bromoform	UG/M3					
Bromomethane	UG/M3					
Carbon disulfide	UG/M3	NA	2.2	2.3		NA
Carbon tetrachloride	UG/M3		5.1 J	5.5 J	1.4	2.9

Flags assigned during chemistry validation are shown.

Blank cell - Not Detected. NA - Not analyzed.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

Only Detected Results Reported.

TABLE 4-22
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SOIL VAPOR SAMPLES IN THE KLINK
COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-018	SG-019	SG-019	SG-019	SG-019
Sample ID		SG-018	061307-FD-1	SG-19	SG-19	SG-19
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/06/12	06/13/07	06/13/07	12/03/07	06/13/11
Parameter	Units		Field Duplicate (1-1)			
Volatile Organic Compounds						
Chlorobenzene	UG/M3			0.51		
Chloroethane	UG/M3					
Chloroform	UG/M3	32.7	520	470	250 D	319
Chloromethane	UG/M3					
Cyclohexane	UG/M3	29.7		11		535 J
Dibromochloromethane	UG/M3					
Dichlorodifluoromethane	UG/M3	1.5	3.3 J	3.6 J	3.1	2.3
Ethanol	UG/M3	69.4	NA	NA	NA	114 J
Ethylbenzene	UG/M3	5.1	5.7	5.6	1.1	62.7
Hexane	UG/M3	NA	NA	NA	NA	50.8
Isopropylbenzene (Cumene)	UG/M3	NA				NA
Methyl ethyl ketone (2-Butanone)	UG/M3	3.5	5.0	4.2	3.6	
Methyl tert-butyl ether	UG/M3					
Methylcyclohexane	UG/M3	NA		18		NA
Methylene chloride	UG/M3	88.3				
n-Hexane	UG/M3	34.1	NA	NA	NA	NA
Styrene	UG/M3		5.6	5.5	0.34	
t-Butyl alcohol	UG/M3		NA	NA	NA	
Tetrachloroethene	UG/M3	958 D	330	290	65	1,200
Tetrahydrofuran	UG/M3	NA	NA	NA	NA	NA
Toluene	UG/M3	18.8	8.0	8.0	6.0	63.5
Trichloroethene	UG/M3	31.6	17	17	6.3	
Trichlorofluoromethane	UG/M3	1.2 J	3.8 J	3.5 J	1.2 J	
Vinyl chloride	UG/M3					
Xylene (total)	UG/M3	29.0	33	32	5.8	211

Flags assigned during chemistry validation are shown.

Blank cell - Not Detected. NA - Not analyzed.

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Only Detected Results Reported.

TABLE 4-22
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SOIL VAPOR SAMPLES IN THE KLINK
COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-019	SG-019	SG-019	SG-020	SG-020
Sample ID		SG-19	FD-03062012-1	SG-019	SG-20	SG-20
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		08/17/11	03/06/12	03/06/12	06/13/07	12/03/07
Parameter	Units		Field Duplicate (1-1)			
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	6.4	4.7	4.9	110	41
1,1,2,2-Tetrachloroethane	UG/M3					
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3				1.3	0.92
1,1,2-Trichloroethane	UG/M3		NA	NA		
1,1-Dichloroethane	UG/M3				0.24	
1,1-Dichloroethene	UG/M3					
1,2,4-Trimethylbenzene	UG/M3	NA	13.4	12.3	NA	NA
1,2-Dichlorobenzene	UG/M3					
1,2-Dichloroethane	UG/M3		4.4	3.6		
1,2-Dichloroethene (cis)	UG/M3					
1,2-Dichloroethene (trans)	UG/M3					
1,2-Dichloropropane	UG/M3		43.8	34.1		
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	NA	4.0		NA	NA
1,3-Dichlorobenzene	UG/M3	22	7.1	8.1		0.66
1,4-Dichlorobenzene	UG/M3				0.66	
2,2,4-Trimethylpentane	UG/M3	NA			NA	NA
2-Hexanone	UG/M3		NA	NA		0.45
4-Methyl-2-pentanone	UG/M3	0.68				1.1
Acetone	UG/M3	16 J	NA	NA	53 J	14 J
Benzene	UG/M3	0.54	35.7	29.7	1.1	0.73
Bromodichloromethane	UG/M3	2.2			1.2	0.60
Bromoform	UG/M3					
Bromomethane	UG/M3					
Carbon disulfide	UG/M3		NA	NA	19	
Carbon tetrachloride	UG/M3	2.6			1.6 J	0.88

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Only Detected Results Reported.

TABLE 4-22
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SOIL VAPOR SAMPLES IN THE KLINK
COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-019	SG-019	SG-019	SG-020	SG-020
Sample ID		SG-19	FD-03062012-1	SG-019	SG-20	SG-20
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		08/17/11	03/06/12	03/06/12	06/13/07	12/03/07
Parameter	Units		Field Duplicate (1-1)			
Volatile Organic Compounds						
Chlorobenzene	UG/M3					
Chloroethane	UG/M3					
Chloroform	UG/M3	160	194	211	120	47
Chloromethane	UG/M3	0.33				
Cyclohexane	UG/M3	1.4	30.1	25.2	0.62	
Dibromochloromethane	UG/M3					
Dichlorodifluoromethane	UG/M3	3.1	3.4	3.7	3.9 J	3.3
Ethanol	UG/M3	NA	70.5 D	83.6	NA	NA
Ethylbenzene	UG/M3	7.4	11.0	11.2	12	1.0
Hexane	UG/M3	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	UG/M3		NA	NA	0.79	
Methyl ethyl ketone (2-Butanone)	UG/M3		36.2	18.4	5.5	3.2
Methyl tert-butyl ether	UG/M3				4.6 J	
Methylcyclohexane	UG/M3	2.1	NA	NA	1.2	
Methylene chloride	UG/M3	88	14.9	17.5	7.2	
n-Hexane	UG/M3	NA	13.0	22.1	NA	NA
Styrene	UG/M3	1.6			7.8	0.34
t-Butyl alcohol	UG/M3	NA			NA	NA
Tetrachloroethene	UG/M3	180	126	141	380	90
Tetrahydrofuran	UG/M3		NA	NA	NA	NA
Toluene	UG/M3	22	531 D	415 D	20	5.9
Trichloroethene	UG/M3	13	9.2	8.8	33	16
Trichlorofluoromethane	UG/M3	1.4			4.3 J	1.3 J
Vinyl chloride	UG/M3					
Xylene (total)	UG/M3	41	51.8	53.8	48	5.4

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Only Detected Results Reported.

TABLE 4-22
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SOIL VAPOR SAMPLES IN THE KLINK
COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-020	SG-020	SG-020	SG-021	SG-021
Sample ID		SG-20	SG-20	SG-020	SG-21	SG-21
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/13/11	08/17/11	03/06/12	06/13/07	12/03/07
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3		8.3	5.5	170	47
1,1,2,2-Tetrachloroethane	UG/M3					
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3				4.6	3.6
1,1,2-Trichloroethane	UG/M3	NA		NA		
1,1-Dichloroethane	UG/M3				3.4	0.69
1,1-Dichloroethene	UG/M3					
1,2,4-Trimethylbenzene	UG/M3	122	NA		NA	NA
1,2-Dichlorobenzene	UG/M3					
1,2-Dichloroethane	UG/M3					
1,2-Dichloroethene (cis)	UG/M3					
1,2-Dichloroethene (trans)	UG/M3					
1,2-Dichloropropane	UG/M3					
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	29.1	NA		NA	NA
1,3-Dichlorobenzene	UG/M3		8.2			0.90
1,4-Dichlorobenzene	UG/M3	2.8 J				0.42
2,2,4-Trimethylpentane	UG/M3	21.9	NA		NA	NA
2-Hexanone	UG/M3	NA		NA	11	
4-Methyl-2-pentanone	UG/M3				9.2	1.4
Acetone	UG/M3	NA	23 J	NA	39 J	11 J
Benzene	UG/M3	2.1	0.51		1.9	0.89
Bromodichloromethane	UG/M3		0.84		12	1.9
Bromoform	UG/M3					
Bromomethane	UG/M3					
Carbon disulfide	UG/M3	NA		NA	25	
Carbon tetrachloride	UG/M3		0.67	3.9	3.5	9.6

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Only Detected Results Reported.

TABLE 4-22
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SOIL VAPOR SAMPLES IN THE KLINK
COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-020	SG-020	SG-020	SG-021	SG-021
Sample ID		SG-20	SG-20	SG-020	SG-21	SG-21
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/13/11	08/17/11	03/06/12	06/13/07	12/03/07
Parameter	Units					
Volatile Organic Compounds						
Chlorobenzene	UG/M3					
Chloroethane	UG/M3					
Chloroform	UG/M3	54.2	63	221 D	280	78
Chloromethane	UG/M3				0.72 J	
Cyclohexane	UG/M3	8.6	1.2			
Dibromochloromethane	UG/M3					
Dichlorodifluoromethane	UG/M3		2.2	3.5	4.2	0.69
Ethanol	UG/M3	183 J	NA	30.4	NA	NA
Ethylbenzene	UG/M3	64.9	6.3	8.1	34	1.3
Hexane	UG/M3	191	NA	NA	NA	NA
Isopropylbenzene (Cumene)	UG/M3	NA		NA		
Methyl ethyl ketone (2-Butanone)	UG/M3			3.6	12	1.7
Methyl tert-butyl ether	UG/M3					
Methylcyclohexane	UG/M3	NA	1.8	NA		
Methylene chloride	UG/M3	282	200	4.4	2.4	
n-Hexane	UG/M3	NA	NA	3.1	NA	NA
Styrene	UG/M3		1.2		12	0.30
t-Butyl alcohol	UG/M3		NA		NA	NA
Tetrachloroethene	UG/M3	83.1	240	245 D	440	90
Tetrahydrofuran	UG/M3	NA		NA	NA	NA
Toluene	UG/M3	159	21	57.0	21	5.7
Trichloroethene	UG/M3	9.2	26	25.7	17	5.6
Trichlorofluoromethane	UG/M3		2.2		4.2 J	1.6 J
Vinyl chloride	UG/M3					
Xylene (total)	UG/M3	317	35	31.1	134	7.0

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Only Detected Results Reported.

TABLE 4-22
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SOIL VAPOR SAMPLES IN THE KLINK
COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-021	SG-021	SG-021	SG-021	SG-022
Sample ID		SG-21	FD-1-08172011	SG-21	SG-021	SG-22
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/13/11	08/17/11	08/17/11	03/06/12	06/13/07
Parameter	Units		Field Duplicate (1-1)			
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	2.0	13	12		3,700
1,1,2,2-Tetrachloroethane	UG/M3					
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3		2.5	2.4		9.2
1,1,2-Trichloroethane	UG/M3	NA			NA	
1,1-Dichloroethane	UG/M3		1.9	1.9		21
1,1-Dichloroethene	UG/M3					1.6
1,2,4-Trimethylbenzene	UG/M3	15.9	NA	NA		NA
1,2-Dichlorobenzene	UG/M3					
1,2-Dichloroethane	UG/M3					
1,2-Dichloroethene (cis)	UG/M3		0.67	0.69		1.6
1,2-Dichloroethene (trans)	UG/M3					0.95
1,2-Dichloropropane	UG/M3					
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3		NA	NA		NA
1,3-Dichlorobenzene	UG/M3	4.4	18	14		
1,4-Dichlorobenzene	UG/M3	1.5 J				
2,2,4-Trimethylpentane	UG/M3	400 J	NA	NA		NA
2-Hexanone	UG/M3	NA			NA	
4-Methyl-2-pentanone	UG/M3					
Acetone	UG/M3	NA	75 J	130 J	NA	26 J
Benzene	UG/M3	241	590 D	600 D		0.89
Bromodichloromethane	UG/M3					2.8
Bromoform	UG/M3					
Bromomethane	UG/M3					
Carbon disulfide	UG/M3	NA			NA	3.7
Carbon tetrachloride	UG/M3					0.75

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TABLE 4-22
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SOIL VAPOR SAMPLES IN THE KLINK
COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-021	SG-021	SG-021	SG-021	SG-022
Sample ID		SG-21	FD-1-08172011	SG-21	SG-021	SG-22
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/13/11	08/17/11	08/17/11	03/06/12	06/13/07
Parameter	Units	Field Duplicate (1-1)				
Volatile Organic Compounds						
Chlorobenzene	UG/M3					
Chloroethane	UG/M3		0.50	0.51		
Chloroform	UG/M3	25.6	73	71		230
Chloromethane	UG/M3					0.83
Cyclohexane	UG/M3	2,090	480 D	480 D	15.8 J	
Dibromochloromethane	UG/M3					
Dichlorodifluoromethane	UG/M3	1.2 J	0.57	0.52	23.2 J	6.9 J
Ethanol	UG/M3	89.4	NA	NA		NA
Ethylbenzene	UG/M3	38.7	7.5	7.7		3.2
Hexane	UG/M3	1,500	NA	NA	NA	NA
Isopropylbenzene (Cumene)	UG/M3	NA	4.2	4.1	NA	
Methyl ethyl ketone (2-Butanone)	UG/M3	9.9				3.7
Methyl tert-butyl ether	UG/M3					
Methylcyclohexane	UG/M3	NA	540 D	500 D	NA	
Methylene chloride	UG/M3	883	48	45	17.1 J	
n-Hexane	UG/M3	NA	NA	NA	12.8 J	NA
Styrene	UG/M3	2.4	1.3	1.4		5.5
t-Butyl alcohol	UG/M3		NA	NA		NA
Tetrachloroethene	UG/M3	72.4	400	390	21.9	5,700
Tetrahydrofuran	UG/M3	NA			NA	NA
Toluene	UG/M3	82.6	21	22	12.9 J	1.1
Trichloroethene	UG/M3		14	13		290
Trichlorofluoromethane	UG/M3		3.1	2.9		590 J
Vinyl chloride	UG/M3					
Xylene (total)	UG/M3	80.5	45	46		7.6

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Only Detected Results Reported.

TABLE 4-22
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SOIL VAPOR SAMPLES IN THE KLINK
COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-022	SG-022	SG-023	SG-023	SG-023
Sample ID		SG-22	SG-22	SG-23	SG-23	SG-23
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/07/07	08/17/11	06/13/07	12/03/07	08/18/11
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	2,800 D	2,200 D	2,400	1,000 D	100
1,1,2,2-Tetrachloroethane	UG/M3					
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	4.0	9.7	14	8.4	3.3
1,1,2-Trichloroethane	UG/M3					
1,1-Dichloroethane	UG/M3	30	25	9.7	6.7	1.0
1,1-Dichloroethene	UG/M3	1.6	6.1	16	11	0.40
1,2,4-Trimethylbenzene	UG/M3	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	UG/M3					
1,2-Dichloroethane	UG/M3					
1,2-Dichloroethene (cis)	UG/M3	0.36	4.8			
1,2-Dichloroethene (trans)	UG/M3		3.2			0.82
1,2-Dichloropropane	UG/M3					
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	UG/M3	0.78	11			
1,4-Dichlorobenzene	UG/M3					
2,2,4-Trimethylpentane	UG/M3	NA	NA	NA	NA	NA
2-Hexanone	UG/M3		1.3			
4-Methyl-2-pentanone	UG/M3	3.0	0.93			0.85
Acetone	UG/M3	14	140 J	22 J	13	32
Benzene	UG/M3	1.0	2.1	20		1.2
Bromodichloromethane	UG/M3		1.2			
Bromoform	UG/M3					
Bromomethane	UG/M3					
Carbon disulfide	UG/M3			8.7		
Carbon tetrachloride	UG/M3	0.50	0.78			

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TABLE 4-22
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SOIL VAPOR SAMPLES IN THE KLINK
COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-022	SG-022	SG-023	SG-023	SG-023
Sample ID		SG-22	SG-22	SG-23	SG-23	SG-23
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/07/07	08/17/11	06/13/07	12/03/07	08/18/11
Parameter	Units					
Volatile Organic Compounds						
Chlorobenzene	UG/M3					
Chloroethane	UG/M3					
Chloroform	UG/M3	110	150	28	32	21
Chloromethane	UG/M3		3.1			
Cyclohexane	UG/M3		1.5			
Dibromochloromethane	UG/M3					
Dichlorodifluoromethane	UG/M3	0.49	6.4	5.9 J	3.7	2.1
Ethanol	UG/M3	NA	NA	NA	NA	NA
Ethylbenzene	UG/M3	1.3	6.6	6.9		2.8
Hexane	UG/M3	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	UG/M3					1.4
Methyl ethyl ketone (2-Butanone)	UG/M3	4.0		6.5	4.1	
Methyl tert-butyl ether	UG/M3					
Methylcyclohexane	UG/M3		2.9			
Methylene chloride	UG/M3	1.2	12	5.6		
n-Hexane	UG/M3	NA	NA	NA	NA	NA
Styrene	UG/M3		1.5	4.3		2.4
t-Butyl alcohol	UG/M3	NA	NA	NA	NA	NA
Tetrachloroethene	UG/M3	490 D	2,600 D	13,000	5,100 D	5,200 D
Tetrahydrofuran	UG/M3	NA		NA	NA	
Toluene	UG/M3	9.2	27	18	4.3	12
Trichloroethene	UG/M3	78	360	370	160	95
Trichlorofluoromethane	UG/M3	50	360	2,800 J	4,400 D	370
Vinyl chloride	UG/M3					
Xylene (total)	UG/M3	6.3	39	34		13

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Only Detected Results Reported.

TABLE 4-22
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SOIL VAPOR SAMPLES IN THE KLINK
COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-039	SG-039	SG-040	SG-040	SG-041
Sample ID		SG-39	SG-39	SG-40	SG-40	SG-41
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/07/07	08/17/11	12/07/07	08/17/11	12/03/07
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3			6,600 D	42,000 D	110
1,1,2,2-Tetrachloroethane	UG/M3					
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3			25	260	31
1,1,2-Trichloroethane	UG/M3				41	
1,1-Dichloroethane	UG/M3	24	9.3	2,000 D	3,400 D	
1,1-Dichloroethene	UG/M3		0.74	82	620 D	2.6
1,2,4-Trimethylbenzene	UG/M3	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	UG/M3					
1,2-Dichloroethane	UG/M3				7.9	
1,2-Dichloroethene (cis)	UG/M3	99	9.1	2,700 D	5,500 D	
1,2-Dichloroethene (trans)	UG/M3	10	0.73	51	270	0.48
1,2-Dichloropropane	UG/M3				8.9	
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	UG/M3	0.30	22		25	0.72
1,4-Dichlorobenzene	UG/M3					
2,2,4-Trimethylpentane	UG/M3	NA	NA	NA	NA	NA
2-Hexanone	UG/M3		1.3		1.2	
4-Methyl-2-pentanone	UG/M3	4.8		1.6	1.1	0.90
Acetone	UG/M3	38	210 J	21	160 J	36 J
Benzene	UG/M3	23	27	1.8	4.2	1.7
Bromodichloromethane	UG/M3					
Bromoform	UG/M3					
Bromomethane	UG/M3					
Carbon disulfide	UG/M3	25		5.3	3.6	7.4
Carbon tetrachloride	UG/M3				10	2.3

Flags assigned during chemistry validation are shown.

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Only Detected Results Reported.

TABLE 4-22
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SOIL VAPOR SAMPLES IN THE KLINK
COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-039	SG-039	SG-040	SG-040	SG-041
Sample ID		SG-39	SG-39	SG-40	SG-40	SG-41
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/07/07	08/17/11	12/07/07	08/17/11	12/03/07
Parameter	Units					
Volatile Organic Compounds						
Chlorobenzene	UG/M3		0.47			
Chloroethane	UG/M3		0.61	44	93	
Chloroform	UG/M3			41	210	
Chloromethane	UG/M3	0.29	0.43		0.90	
Cyclohexane	UG/M3	13	6.0		8.0	
Dibromochloromethane	UG/M3					
Dichlorodifluoromethane	UG/M3	2.8	1.0	5.4	25	5.1
Ethanol	UG/M3	NA	NA	NA	NA	NA
Ethylbenzene	UG/M3	2.7	9.1		6.5	0.69
Hexane	UG/M3	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	UG/M3		1.4			
Methyl ethyl ketone (2-Butanone)	UG/M3	6.0		4.4		6.8
Methyl tert-butyl ether	UG/M3				0.59	
Methylcyclohexane	UG/M3	9.4	7.5		6.5	
Methylene chloride	UG/M3	0.69	15	5.6	25	
n-Hexane	UG/M3	NA	NA	NA	NA	NA
Styrene	UG/M3		2.1		1.6	
t-Butyl alcohol	UG/M3	NA	NA	NA	NA	NA
Tetrachloroethene	UG/M3	13	210	76	17,000 D	2,500 D
Tetrahydrofuran	UG/M3	NA	1.0	NA	0.51	NA
Toluene	UG/M3	18	28	12	28	12
Trichloroethene	UG/M3	97	58	350	4,100 D	50
Trichlorofluoromethane	UG/M3	0.56	1.9	15	150	850 D
Vinyl chloride	UG/M3	6.3		38	76	
Xylene (total)	UG/M3	14	52	5.6	36	3.5

Flags assigned during chemistry validation are shown.

Blank cell - Not Detected. NA - Not analyzed.

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Only Detected Results Reported.

TABLE 4-22
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SOIL VAPOR SAMPLES IN THE KLINK
COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-041	SG-042	SG-042	SG-042	SG-042
Sample ID		SG-41	120307-FD-1	SG-42	SG-42	Dupe 9-29-11
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		08/17/11	12/03/07	12/03/07	06/14/11	09/29/11
Parameter	Units		Field Duplicate (1-1)			Field Duplicate (1-1)
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	32	2,700 D	3,000 D	16,900	4,900 D
1,1,2,2-Tetrachloroethane	UG/M3					
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	6.4	1.8	1.8		2.3
1,1,2-Trichloroethane	UG/M3				NA	
1,1-Dichloroethane	UG/M3	1.3	200	210		120
1,1-Dichloroethene	UG/M3		69	71		37
1,2,4-Trimethylbenzene	UG/M3	NA	NA	NA		NA
1,2-Dichlorobenzene	UG/M3					
1,2-Dichloroethane	UG/M3					
1,2-Dichloroethene (cis)	UG/M3	2.4				
1,2-Dichloroethene (trans)	UG/M3					
1,2-Dichloropropane	UG/M3					
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	NA	NA	NA		NA
1,3-Dichlorobenzene	UG/M3	15	1.7	1.2		3.3
1,4-Dichlorobenzene	UG/M3					
2,2,4-Trimethylpentane	UG/M3	NA	NA	NA		NA
2-Hexanone	UG/M3	0.85			NA	1.4
4-Methyl-2-pentanone	UG/M3	0.71				
Acetone	UG/M3	140 J			NA	51 J
Benzene	UG/M3	0.87	1.0	0.89		0.86
Bromodichloromethane	UG/M3					
Bromoform	UG/M3					
Bromomethane	UG/M3					
Carbon disulfide	UG/M3				NA	
Carbon tetrachloride	UG/M3	0.67				

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TABLE 4-22
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SOIL VAPOR SAMPLES IN THE KLINK
COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-041	SG-042	SG-042	SG-042	SG-042
Sample ID		SG-41	120307-FD-1	SG-42	SG-42	Dupe 9-29-11
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		08/17/11	12/03/07	12/03/07	06/14/11	09/29/11
Parameter	Units		Field Duplicate (1-1)			Field Duplicate (1-1)
Volatile Organic Compounds						
Chlorobenzene	UG/M3					
Chloroethane	UG/M3		1.4	1.4		0.33
Chloroform	UG/M3		11	12		28
Chloromethane	UG/M3					0.81
Cyclohexane	UG/M3	0.70				4.1
Dibromochloromethane	UG/M3					
Dichlorodifluoromethane	UG/M3	2.0	3.4	3.2		3.0
Ethanol	UG/M3	NA	NA	NA		NA
Ethylbenzene	UG/M3	5.6				1.5
Hexane	UG/M3	NA	NA	NA		NA
Isopropylbenzene (Cumene)	UG/M3				NA	
Methyl ethyl ketone (2-Butanone)	UG/M3					
Methyl tert-butyl ether	UG/M3					
Methylcyclohexane	UG/M3	1.7			NA	1.4
Methylene chloride	UG/M3	15				
n-Hexane	UG/M3	NA	NA	NA	NA	NA
Styrene	UG/M3	6.0				0.66
t-Butyl alcohol	UG/M3	NA	NA	NA		NA
Tetrachloroethene	UG/M3	3,000 D	58	94	803,000	500
Tetrahydrofuran	UG/M3		NA	NA	NA	
Toluene	UG/M3	17	5.9	4.5		5.8
Trichloroethene	UG/M3	17	26	32	2,850	95
Trichlorofluoromethane	UG/M3	390	1.3 J	1.3 J		11
Vinyl chloride	UG/M3					
Xylene (total)	UG/M3	24	3.8	5.8		7.5

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Only Detected Results Reported.

TABLE 4-22
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SOIL VAPOR SAMPLES IN THE KLINK
COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-042	SG-042	SG-043	SG-043	SG-043
Sample ID		SG-42	SG-042	SG-43	SG-43	SG-43
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/29/11	03/06/12	12/03/07	06/15/11	08/17/11
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	5,000 D	12,400 D	31		13
1,1,2,2-Tetrachloroethane	UG/M3					
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	2.3		11		3.1
1,1,2-Trichloroethane	UG/M3		NA		NA	
1,1-Dichloroethane	UG/M3	130	240			28
1,1-Dichloroethene	UG/M3	38	25.3			26
1,2,4-Trimethylbenzene	UG/M3	NA		NA		NA
1,2-Dichlorobenzene	UG/M3					
1,2-Dichloroethane	UG/M3					
1,2-Dichloroethene (cis)	UG/M3				557	860 D
1,2-Dichloroethene (trans)	UG/M3					26
1,2-Dichloropropane	UG/M3					
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	NA		NA		NA
1,3-Dichlorobenzene	UG/M3	1.6				15
1,4-Dichlorobenzene	UG/M3					
2,2,4-Trimethylpentane	UG/M3	NA		NA		NA
2-Hexanone	UG/M3	0.87	NA		NA	
4-Methyl-2-pentanone	UG/M3					
Acetone	UG/M3	51 J	NA		NA	
Benzene	UG/M3	0.90			42.4	60
Bromodichloromethane	UG/M3					
Bromoform	UG/M3					
Bromomethane	UG/M3					
Carbon disulfide	UG/M3		NA		NA	7.3
Carbon tetrachloride	UG/M3					

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Only Detected Results Reported.

TABLE 4-22
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SOIL VAPOR SAMPLES IN THE KLINK
COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-042	SG-042	SG-043	SG-043	SG-043
Sample ID		SG-42	SG-042	SG-43	SG-43	SG-43
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/29/11	03/06/12	12/03/07	06/15/11	08/17/11
Parameter	Units					
Volatile Organic Compounds						
Chlorobenzene	UG/M3					
Chloroethane	UG/M3					6.1
Chloroform	UG/M3	28	36.8			
Chloromethane	UG/M3					
Cyclohexane	UG/M3	4.3		81	16,300	850 D
Dibromochloromethane	UG/M3					
Dichlorodifluoromethane	UG/M3	3.0				22
Ethanol	UG/M3	NA		NA	116	NA
Ethylbenzene	UG/M3	1.4				4.0
Hexane	UG/M3	NA	NA	NA	8,000	NA
Isopropylbenzene (Cumene)	UG/M3		NA		NA	
Methyl ethyl ketone (2-Butanone)	UG/M3					
Methyl tert-butyl ether	UG/M3					
Methylcyclohexane	UG/M3		NA	23	NA	560 D
Methylene chloride	UG/M3					5.2
n-Hexane	UG/M3	NA		NA	NA	NA
Styrene	UG/M3	0.56				
t-Butyl alcohol	UG/M3	NA		NA		NA
Tetrachloroethene	UG/M3	540	294	6,800 D	48,500	13,000 D
Tetrahydrofuran	UG/M3		NA	NA	NA	
Toluene	UG/M3	5.0	30.6	6.8	17.0 J	16
Trichloroethene	UG/M3	100		17	1,170	2,000 D
Trichlorofluoromethane	UG/M3	11		18	118	38
Vinyl chloride	UG/M3			8.7	687	320 D
Xylene (total)	UG/M3	7.5				19

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Only Detected Results Reported.

TABLE 4-22
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SOIL VAPOR SAMPLES IN THE KLINK
COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-044	SG-044	SG-044	SG-044	SG-045
Sample ID		SG-44	SG-44	SG-44	SG-044	SG-45
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/03/07	06/14/11	08/17/11	03/06/12	12/03/07
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	97	28.0 J	68	18.1	430
1,1,2,2-Tetrachloroethane	UG/M3					
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	17		22		110
1,1,2-Trichloroethane	UG/M3		NA		NA	
1,1-Dichloroethane	UG/M3					150
1,1-Dichloroethene	UG/M3					12
1,2,4-Trimethylbenzene	UG/M3	NA		NA	10.4	NA
1,2-Dichlorobenzene	UG/M3					
1,2-Dichloroethane	UG/M3					49
1,2-Dichloroethene (cis)	UG/M3			0.94		62
1,2-Dichloroethene (trans)	UG/M3					2.9
1,2-Dichloropropane	UG/M3					
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	NA		NA		NA
1,3-Dichlorobenzene	UG/M3	0.84		5.6	7.2	1.2
1,4-Dichlorobenzene	UG/M3	0.30				
2,2,4-Trimethylpentane	UG/M3	NA		NA	12.9	NA
2-Hexanone	UG/M3	0.90	NA		NA	
4-Methyl-2-pentanone	UG/M3	1.3				1.3
Acetone	UG/M3	35 J	NA	72 J	NA	14 J
Benzene	UG/M3	1.2		0.68	7.2	2.1
Bromodichloromethane	UG/M3					
Bromoform	UG/M3		51.9 J			
Bromomethane	UG/M3					
Carbon disulfide	UG/M3	2.6	NA		NA	
Carbon tetrachloride	UG/M3	0.57		0.64		18

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TABLE 4-22
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SOIL VAPOR SAMPLES IN THE KLINK
COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-044	SG-044	SG-044	SG-044	SG-045
Sample ID		SG-44	SG-44	SG-44	SG-044	SG-45
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/03/07	06/14/11	08/17/11	03/06/12	12/03/07
Parameter	Units					
Volatile Organic Compounds						
Chlorobenzene	UG/M3					
Chloroethane	UG/M3					4.0
Chloroform	UG/M3	2.3				24
Chloromethane	UG/M3	0.37				
Cyclohexane	UG/M3	0.28		6.2		
Dibromochloromethane	UG/M3					
Dichlorodifluoromethane	UG/M3	3.6		2.3		4.3
Ethanol	UG/M3	NA	62.0	NA	402 J	NA
Ethylbenzene	UG/M3	1.2		1.9	19.6	2.8
Hexane	UG/M3	NA		NA	NA	NA
Isopropylbenzene (Cumene)	UG/M3		NA		NA	
Methyl ethyl ketone (2-Butanone)	UG/M3	5.9				3.3
Methyl tert-butyl ether	UG/M3					
Methylcyclohexane	UG/M3		NA	9.8	NA	
Methylene chloride	UG/M3	22				
n-Hexane	UG/M3	NA	NA	NA	10.6	NA
Styrene	UG/M3	0.43	13.0 J	0.94		
t-Butyl alcohol	UG/M3	NA		NA		NA
Tetrachloroethene	UG/M3	490	1,660	2,800 D	149	1,600 D
Tetrahydrofuran	UG/M3	NA	NA		NA	NA
Toluene	UG/M3	8.2		5.4	134	17
Trichloroethene	UG/M3	4.7		17		410
Trichlorofluoromethane	UG/M3	4.7 J		13		12 J
Vinyl chloride	UG/M3					1.1
Xylene (total)	UG/M3	6.1		11	95.7	16

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TABLE 4-22
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SOIL VAPOR SAMPLES IN THE KLINK
COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-045	SG-045	SG-046	SG-046	SG-046
Sample ID		SG-45	SG-45	SG-46	DUP2-061411	SG-46
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/14/11	08/17/11	12/04/07	06/14/11	06/14/11
Parameter	Units				Field Duplicate (1-1)	
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3		200	180 D	53.7	109
1,1,2,2-Tetrachloroethane	UG/M3					
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3		44	64		
1,1,2-Trichloroethane	UG/M3	NA			NA	NA
1,1-Dichloroethane	UG/M3		26	76	12.8 J	42.0
1,1-Dichloroethene	UG/M3			8.8		
1,2,4-Trimethylbenzene	UG/M3		NA	NA		
1,2-Dichlorobenzene	UG/M3					
1,2-Dichloroethane	UG/M3		27			
1,2-Dichloroethene (cis)	UG/M3		6.6	29		17.7 J
1,2-Dichloroethene (trans)	UG/M3		3.8	1.2		
1,2-Dichloropropane	UG/M3					
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3		NA	NA		
1,3-Dichlorobenzene	UG/M3		3.7			
1,4-Dichlorobenzene	UG/M3					
2,2,4-Trimethylpentane	UG/M3		NA	NA		
2-Hexanone	UG/M3	NA	0.56	1.8	NA	NA
4-Methyl-2-pentanone	UG/M3		0.42	0.70		
Acetone	UG/M3	NA	18 J	15	NA	NA
Benzene	UG/M3		0.49	2.9		
Bromodichloromethane	UG/M3					
Bromoform	UG/M3	1,830 J	1.7		54.5 J	
Bromomethane	UG/M3		0.43			
Carbon disulfide	UG/M3	NA		2.5	NA	NA
Carbon tetrachloride	UG/M3		13	3.5		

Flags assigned during chemistry validation are shown.

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Only Detected Results Reported.

TABLE 4-22
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SOIL VAPOR SAMPLES IN THE KLINK
COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-045	SG-045	SG-046	SG-046	SG-046
Sample ID		SG-45	SG-45	SG-46	DUP2-061411	SG-46
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/14/11	08/17/11	12/04/07	06/14/11	06/14/11
Parameter	Units				Field Duplicate (1-1)	
Volatile Organic Compounds						
Chlorobenzene	UG/M3					
Chloroethane	UG/M3			1.8		
Chloroform	UG/M3		32	24		
Chloromethane	UG/M3					
Cyclohexane	UG/M3					
Dibromochloromethane	UG/M3				25.4 J	
Dichlorodifluoromethane	UG/M3		2.4	3.7		
Ethanol	UG/M3		NA	NA	58.7	
Ethylbenzene	UG/M3		1.7	2.1		
Hexane	UG/M3		NA	NA	30.0	
Isopropylbenzene (Cumene)	UG/M3	NA	1.4		NA	NA
Methyl ethyl ketone (2-Butanone)	UG/M3			3.8		
Methyl tert-butyl ether	UG/M3					
Methylcyclohexane	UG/M3	NA		2.2	NA	NA
Methylene chloride	UG/M3			0.59	199	
n-Hexane	UG/M3	NA	NA	NA	NA	NA
Styrene	UG/M3		1.2		16.8 J	14.2 J
t-Butyl alcohol	UG/M3		NA	NA		
Tetrachloroethene	UG/M3	22,400	2,300 D	310 D	805	2,040
Tetrahydrofuran	UG/M3	NA		NA	NA	NA
Toluene	UG/M3		3.3	14	33.4	17.4 J
Trichloroethene	UG/M3		440	220 D	158	376
Trichlorofluoromethane	UG/M3		36	17		
Vinyl chloride	UG/M3					
Xylene (total)	UG/M3		6.3	8.5		

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Only Detected Results Reported.

TABLE 4-22
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SOIL VAPOR SAMPLES IN THE KLINK
COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-046	SG-046	SG-047	SG-047	SG-047
Sample ID		SG-46	SG-046	SG-47	SG-47	SG-047
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		08/17/11	03/06/12	12/04/07	06/15/11	03/06/12
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	180	35.9	41		14.1
1,1,2,2-Tetrachloroethane	UG/M3					
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	76	19.1	4.5		
1,1,2-Trichloroethane	UG/M3	1.5	NA		NA	NA
1,1-Dichloroethane	UG/M3	120		1.6		
1,1-Dichloroethene	UG/M3	7.9		0.71		
1,2,4-Trimethylbenzene	UG/M3	NA	9.2	NA	9.7	8.5
1,2-Dichlorobenzene	UG/M3					
1,2-Dichloroethane	UG/M3	0.70				
1,2-Dichloroethene (cis)	UG/M3	70	3.7	4.8		
1,2-Dichloroethene (trans)	UG/M3	2.6		3.0		
1,2-Dichloropropane	UG/M3					
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	NA		NA		
1,3-Dichlorobenzene	UG/M3	4.9		0.36		4.2
1,4-Dichlorobenzene	UG/M3					
2,2,4-Trimethylpentane	UG/M3	NA		NA		8.4
2-Hexanone	UG/M3	0.70	NA		NA	NA
4-Methyl-2-pentanone	UG/M3	0.60		0.70		
Acetone	UG/M3	22 J	NA	10	NA	NA
Benzene	UG/M3	1.5	4.9	3.4		5.1
Bromodichloromethane	UG/M3			1.7		
Bromoform	UG/M3					
Bromomethane	UG/M3					
Carbon disulfide	UG/M3		NA	8.3	NA	NA
Carbon tetrachloride	UG/M3	5.3		10	6.1	6.2

Flags assigned during chemistry validation are shown.

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Only Detected Results Reported.

TABLE 4-22
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SOIL VAPOR SAMPLES IN THE KLINK
COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-046	SG-046	SG-047	SG-047	SG-047
Sample ID		SG-46	SG-046	SG-47	SG-47	SG-047
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		08/17/11	03/06/12	12/04/07	06/15/11	03/06/12
Parameter	Units					
Volatile Organic Compounds						
Chlorobenzene	UG/M3					
Chloroethane	UG/M3	1.7				
Chloroform	UG/M3	51	13.1	76	19.3	24.5
Chloromethane	UG/M3					
Cyclohexane	UG/M3	0.78	27.9		54.5	7.5
Dibromochloromethane	UG/M3					
Dichlorodifluoromethane	UG/M3	2.6		3.0		
Ethanol	UG/M3	NA		NA	63.7	
Ethylbenzene	UG/M3	1.5	11.7	3.0		12.2
Hexane	UG/M3	NA	NA	NA	90.6	NA
Isopropylbenzene (Cumene)	UG/M3		NA		NA	NA
Methyl ethyl ketone (2-Butanone)	UG/M3		5.9	2.7	23.2	10.2
Methyl tert-butyl ether	UG/M3					
Methylcyclohexane	UG/M3		NA	3.5	NA	NA
Methylene chloride	UG/M3		6.0		304	2.1
n-Hexane	UG/M3	NA		NA	NA	
Styrene	UG/M3	1.3	1.7			
t-Butyl alcohol	UG/M3	NA		NA		
Tetrachloroethene	UG/M3	4,200 D	294	330 D	661	617 D
Tetrahydrofuran	UG/M3	0.30	NA	NA	NA	NA
Toluene	UG/M3	4.0	191 D	28	150	79.8
Trichloroethene	UG/M3	870 D	70.2	150	109	65.6
Trichlorofluoromethane	UG/M3	32	6.9	6.0		5.2
Vinyl chloride	UG/M3	0.47				
Xylene (total)	UG/M3	6.2	50.3	13	35.3	58.9

Flags assigned during chemistry validation are shown.

Blank cell - Not Detected. NA - Not analyzed.

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Only Detected Results Reported.

TABLE 4-22
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SOIL VAPOR SAMPLES IN THE KLINK
COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-048	SG-048	SG-048	SG-048	SG-048
Sample ID		SG-48	SG-48	FD-2-081711	SG-48	SG-048
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/04/07	06/14/11	08/17/11	08/17/11	03/05/12
Parameter	Units			Field Duplicate (1-1)		
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	130	56.5 J	92	100	44.1
1,1,2,2-Tetrachloroethane	UG/M3					
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	6.0		6.3	6.5	1.9 J
1,1,2-Trichloroethane	UG/M3		NA			NA
1,1-Dichloroethane	UG/M3	0.85		0.41	0.45	
1,1-Dichloroethene	UG/M3	4.6		0.89	0.95	
1,2,4-Trimethylbenzene	UG/M3	NA		NA	NA	10.5
1,2-Dichlorobenzene	UG/M3					1.1 J
1,2-Dichloroethane	UG/M3					2.2
1,2-Dichloroethene (cis)	UG/M3	19		5.7	6.1	1.6
1,2-Dichloroethene (trans)	UG/M3	0.79		0.48	0.56	
1,2-Dichloropropane	UG/M3					
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	NA		NA	NA	2.1
1,3-Dichlorobenzene	UG/M3			9.6	10	
1,4-Dichlorobenzene	UG/M3					2.6
2,2,4-Trimethylpentane	UG/M3	NA		NA	NA	1.5
2-Hexanone	UG/M3		NA	0.51	0.91	NA
4-Methyl-2-pentanone	UG/M3			0.47	0.62	
Acetone	UG/M3	5.7	NA	68 J	79 J	NA
Benzene	UG/M3	12		5.9	6.9	3.2
Bromodichloromethane	UG/M3					
Bromoform	UG/M3					
Bromomethane	UG/M3					
Carbon disulfide	UG/M3	4.5	NA			NA
Carbon tetrachloride	UG/M3	1.1		0.64	0.72	

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Only Detected Results Reported.

TABLE 4-22
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SOIL VAPOR SAMPLES IN THE KLINK
COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-048	SG-048	SG-048	SG-048	SG-048
Sample ID		SG-48	SG-48	FD-2-081711	SG-48	SG-048
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/04/07	06/14/11	08/17/11	08/17/11	03/05/12
Parameter	Units			Field Duplicate (1-1)		
Volatile Organic Compounds						
Chlorobenzene	UG/M3					
Chloroethane	UG/M3					
Chloroform	UG/M3	1.5		2.2	2.4	0.77 J
Chloromethane	UG/M3	0.43		0.55	0.28	
Cyclohexane	UG/M3			0.48	0.50	2.1
Dibromochloromethane	UG/M3					
Dichlorodifluoromethane	UG/M3	2.7		2.3	2.5	1.8
Ethanol	UG/M3	NA	105	NA	NA	25.1
Ethylbenzene	UG/M3	3.3		3.0	3.2	20.2
Hexane	UG/M3	NA		NA	NA	NA
Isopropylbenzene (Cumene)	UG/M3		NA			NA
Methyl ethyl ketone (2-Butanone)	UG/M3	1.8				2.7
Methyl tert-butyl ether	UG/M3					
Methylcyclohexane	UG/M3	4.0	NA			NA
Methylene chloride	UG/M3	4.2				1.3
n-Hexane	UG/M3	NA	NA	NA	NA	10.0
Styrene	UG/M3			0.81	0.84	2.7
t-Butyl alcohol	UG/M3	NA		NA	NA	
Tetrachloroethene	UG/M3	5,400 D	3,340	23,000 D	34,000 D	17,600 D
Tetrahydrofuran	UG/M3	NA	NA			NA
Toluene	UG/M3	39		11	11	69.1
Trichloroethene	UG/M3	78		77	90	21.6
Trichlorofluoromethane	UG/M3	5.9		6.8	6.9	3.6
Vinyl chloride	UG/M3	7.9		0.74	0.67	
Xylene (total)	UG/M3	12		18	19	81.3

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Only Detected Results Reported.

TABLE 4-22
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SOIL VAPOR SAMPLES IN THE KLINK
COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-049	SG-049	SG-049	SG-049	SG-054
Sample ID		SG-49	SG-49	FD-03072012-1	SG-049	SG-54
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/04/07	06/14/11	03/07/12	03/07/12	05/20/08
Parameter	Units			Field Duplicate (1-1)		
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	330	344	160	153	130
1,1,2,2-Tetrachloroethane	UG/M3					
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	900	1,520	1,290	1,220	2.5
1,1,2-Trichloroethane	UG/M3		NA	NA	NA	
1,1-Dichloroethane	UG/M3					57
1,1-Dichloroethene	UG/M3	56	189	46.8	44.1	49
1,2,4-Trimethylbenzene	UG/M3	NA	17.1 J			NA
1,2-Dichlorobenzene	UG/M3					
1,2-Dichloroethane	UG/M3					
1,2-Dichloroethene (cis)	UG/M3	39,000 D	437,000	160,000 D	97,100 D	24
1,2-Dichloroethene (trans)	UG/M3	790	1,420	571	556	1.2
1,2-Dichloropropane	UG/M3					
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	NA				NA
1,3-Dichlorobenzene	UG/M3					
1,4-Dichlorobenzene	UG/M3					
2,2,4-Trimethylpentane	UG/M3	NA				NA
2-Hexanone	UG/M3		NA	NA	NA	
4-Methyl-2-pentanone	UG/M3					2.4
Acetone	UG/M3		NA	NA	NA	74 J
Benzene	UG/M3	53	48.0		32.4	2.8
Bromodichloromethane	UG/M3					
Bromoform	UG/M3					
Bromomethane	UG/M3					
Carbon disulfide	UG/M3		NA	NA	NA	1.1
Carbon tetrachloride	UG/M3	1,900	2,430	1,500	1,420	

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Only Detected Results Reported.

TABLE 4-22
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SOIL VAPOR SAMPLES IN THE KLINK
COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-049	SG-049	SG-049	SG-049	SG-054
Sample ID		SG-49	SG-49	FD-03072012-1	SG-049	SG-54
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/04/07	06/14/11	03/07/12	03/07/12	05/20/08
Parameter	Units			Field Duplicate (1-1)		
Volatile Organic Compounds						
Chlorobenzene	UG/M3					
Chloroethane	UG/M3					
Chloroform	UG/M3	640	793	371	354	13
Chloromethane	UG/M3					
Cyclohexane	UG/M3					1.0
Dibromochloromethane	UG/M3					
Dichlorodifluoromethane	UG/M3					6.0
Ethanol	UG/M3	NA	94.3	18.1	24.5	NA
Ethylbenzene	UG/M3	6.9		18.8 J	18.9 J	6.2
Hexane	UG/M3	NA		NA	NA	NA
Isopropylbenzene (Cumene)	UG/M3		NA	NA	NA	
Methyl ethyl ketone (2-Butanone)	UG/M3					19
Methyl tert-butyl ether	UG/M3					3.5
Methylcyclohexane	UG/M3	66	NA	NA	NA	3.2
Methylene chloride	UG/M3					4.9
n-Hexane	UG/M3	NA	NA			NA
Styrene	UG/M3					0.49
t-Butyl alcohol	UG/M3	NA				NA
Tetrachloroethene	UG/M3	310,000 D	13,100,000	5,140,000 DJ	3,420,000 DJ	160
Tetrahydrofuran	UG/M3	NA	NA	NA	NA	NA
Toluene	UG/M3	77	11.7 J	48.9	48.2	44
Trichloroethene	UG/M3	19,000 D	230,000	70,700 D	40,600 D	350
Trichlorofluoromethane	UG/M3	9.0				110
Vinyl chloride	UG/M3	92	1,450	345	328	0.56
Xylene (total)	UG/M3	24	59.6	80.0	76.7	28

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TABLE 4-22
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SOIL VAPOR SAMPLES IN THE KLINK
COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-054	SG-055	SG-055	SG-055	SG-056
Sample ID		SG-54	SG-55	SG-55	SG-055	SG-56
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		08/18/11	05/21/08	06/13/11	03/06/12	05/21/08
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	110	3.6	4.0		78
1,1,2,2-Tetrachloroethane	UG/M3					
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	5.8	0.80			3.5
1,1,2-Trichloroethane	UG/M3			NA	NA	
1,1-Dichloroethane	UG/M3	170				5.5
1,1-Dichloroethene	UG/M3	420 D				26
1,2,4-Trimethylbenzene	UG/M3	NA	NA	57.3	4.6	NA
1,2-Dichlorobenzene	UG/M3					
1,2-Dichloroethane	UG/M3	0.47				
1,2-Dichloroethene (cis)	UG/M3	70	4.9			2,800 D
1,2-Dichloroethene (trans)	UG/M3	3.4				51
1,2-Dichloropropane	UG/M3					
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	NA	NA	16.2	1.6	NA
1,3-Dichlorobenzene	UG/M3		2.2		2.8	1.6
1,4-Dichlorobenzene	UG/M3		0.72	3.5		0.61
2,2,4-Trimethylpentane	UG/M3	NA	NA	45.8	4.0	NA
2-Hexanone	UG/M3	1.1	1.9	NA	NA	2.9
4-Methyl-2-pentanone	UG/M3		6.1	24.9		7.1
Acetone	UG/M3	170	190 J	NA	NA	260 J
Benzene	UG/M3	9.2	3.3	51.0	3.7	6.8
Bromodichloromethane	UG/M3					
Bromoform	UG/M3					
Bromomethane	UG/M3					
Carbon disulfide	UG/M3	13	2.5	NA	NA	9.8
Carbon tetrachloride	UG/M3					15

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SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SOIL VAPOR SAMPLES IN THE KLINK
COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-054	SG-055	SG-055	SG-055	SG-056
Sample ID		SG-54	SG-55	SG-55	SG-055	SG-56
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		08/18/11	05/21/08	06/13/11	03/06/12	05/21/08
Parameter	Units					
Volatile Organic Compounds						
Chlorobenzene	UG/M3					
Chloroethane	UG/M3					
Chloroform	UG/M3	51	1.2			82
Chloromethane	UG/M3					
Cyclohexane	UG/M3	2.2	1.8	53.9		1.8
Dibromochloromethane	UG/M3					
Dichlorodifluoromethane	UG/M3	3.6	2.1			3.5
Ethanol	UG/M3	NA	NA	476		NA
Ethylbenzene	UG/M3	3.8	4.2	89.3	8.9	4.9
Hexane	UG/M3	NA	NA	16.6	NA	NA
Isopropylbenzene (Cumene)	UG/M3	1.6		NA	NA	
Methyl ethyl ketone (2-Butanone)	UG/M3		97	20.4		150
Methyl tert-butyl ether	UG/M3	7.5				
Methylcyclohexane	UG/M3	3.5	4.5	NA	NA	4.2
Methylene chloride	UG/M3			8.5		10
n-Hexane	UG/M3	NA	NA	NA		NA
Styrene	UG/M3	1.4	0.72	3.5		0.77
t-Butyl alcohol	UG/M3	NA	NA			NA
Tetrachloroethene	UG/M3	13,000 D	390	584	49.0	6,100 D
Tetrahydrofuran	UG/M3		NA	NA	NA	NA
Toluene	UG/M3	12	42	453	54.5	68
Trichloroethene	UG/M3	3,500 D	32	105	12.4	1,400 D
Trichlorofluoromethane	UG/M3	130	3.9			9.9
Vinyl chloride	UG/M3	2.1				8.9
Xylene (total)	UG/M3	21	20	339	41.2	23

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TABLE 4-22
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SOIL VAPOR SAMPLES IN THE KLINK
COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-056	SG-056	SG-056	SG-057	SG-057
Sample ID		SG-56	SG-56	SG-056	SG-57	SG-57
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/15/11	08/17/11	03/06/12	05/20/08	06/15/11
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3		49	51.3		
1,1,2,2-Tetrachloroethane	UG/M3					
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3		2.8		0.81	
1,1,2-Trichloroethane	UG/M3	NA		NA		NA
1,1-Dichloroethane	UG/M3		2.2			
1,1-Dichloroethene	UG/M3		6.4			
1,2,4-Trimethylbenzene	UG/M3		NA	27.5 J	NA	
1,2-Dichlorobenzene	UG/M3					
1,2-Dichloroethane	UG/M3					
1,2-Dichloroethene (cis)	UG/M3	1,980	2,200 D	763		
1,2-Dichloroethene (trans)	UG/M3	20.9 J	45	19.7 J		
1,2-Dichloropropane	UG/M3					
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3		NA		NA	
1,3-Dichlorobenzene	UG/M3		6.4			
1,4-Dichlorobenzene	UG/M3					
2,2,4-Trimethylpentane	UG/M3		NA		NA	
2-Hexanone	UG/M3	NA	2.9	NA		NA
4-Methyl-2-pentanone	UG/M3		0.59		3.4	
Acetone	UG/M3	NA		NA	150 J	NA
Benzene	UG/M3		3.3		5.3	
Bromodichloromethane	UG/M3					
Bromoform	UG/M3					
Bromomethane	UG/M3					
Carbon disulfide	UG/M3	NA	5.9	NA	9.7	NA
Carbon tetrachloride	UG/M3		27			

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Only Detected Results Reported.

TABLE 4-22
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SOIL VAPOR SAMPLES IN THE KLINK
COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-056	SG-056	SG-056	SG-057	SG-057
Sample ID		SG-56	SG-56	SG-056	SG-57	SG-57
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/15/11	08/17/11	03/06/12	05/20/08	06/15/11
Parameter	Units					
Volatile Organic Compounds						
Chlorobenzene	UG/M3					
Chloroethane	UG/M3					
Chloroform	UG/M3		350	496	0.68	
Chloromethane	UG/M3		0.56			
Cyclohexane	UG/M3		0.74		2.2	
Dibromochloromethane	UG/M3					
Dichlorodifluoromethane	UG/M3		3.4		9.4	
Ethanol	UG/M3	130	NA	462	NA	
Ethylbenzene	UG/M3		3.1	17.8 J	10	
Hexane	UG/M3		NA	NA	NA	
Isopropylbenzene (Cumene)	UG/M3	NA		NA	1.3	NA
Methyl ethyl ketone (2-Butanone)	UG/M3	65.5	15		21	
Methyl tert-butyl ether	UG/M3					
Methylcyclohexane	UG/M3	NA	1.5	NA	8.2	NA
Methylene chloride	UG/M3	66.0				
n-Hexane	UG/M3	NA	NA		NA	NA
Styrene	UG/M3		1.5		0.71	
t-Butyl alcohol	UG/M3		NA		NA	
Tetrachloroethene	UG/M3	88,900	56,000 D	19,000 D	17	10,800
Tetrahydrofuran	UG/M3	NA		NA	NA	NA
Toluene	UG/M3		10	69.0	90	78.1 J
Trichloroethene	UG/M3	3,090	5,000 D	1,230		
Trichlorofluoromethane	UG/M3		7.9		980 D	5,270
Vinyl chloride	UG/M3		1.1			
Xylene (total)	UG/M3		19	111	49	

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Only Detected Results Reported.

TABLE 4-22
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SOIL VAPOR SAMPLES IN THE KLINK
COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-058	SG-058	SG-058	SG-058	SG-059
Sample ID		SG-58	DUP-061511	SG-58	SG-058	SG-59
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		05/21/08	06/15/11	06/15/11	03/07/12	05/20/08
Parameter	Units		Field Duplicate (1-1)			
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	18				6.5
1,1,2,2-Tetrachloroethane	UG/M3					
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	5.1				1.5
1,1,2-Trichloroethane	UG/M3		NA	NA	NA	
1,1-Dichloroethane	UG/M3					
1,1-Dichloroethene	UG/M3					
1,2,4-Trimethylbenzene	UG/M3	NA				NA
1,2-Dichlorobenzene	UG/M3					
1,2-Dichloroethane	UG/M3					
1,2-Dichloroethene (cis)	UG/M3	1.7			31.1	
1,2-Dichloroethene (trans)	UG/M3					
1,2-Dichloropropane	UG/M3					
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	NA				NA
1,3-Dichlorobenzene	UG/M3	0.81				
1,4-Dichlorobenzene	UG/M3					
2,2,4-Trimethylpentane	UG/M3	NA				NA
2-Hexanone	UG/M3	2.5	NA	NA	NA	
4-Methyl-2-pentanone	UG/M3	5.8				
Acetone	UG/M3	200 J	NA	NA	NA	130 J
Benzene	UG/M3	3.4				3.2
Bromodichloromethane	UG/M3					
Bromoform	UG/M3		6,410 J			
Bromomethane	UG/M3					
Carbon disulfide	UG/M3	1.1	NA	NA	NA	14
Carbon tetrachloride	UG/M3	6.3				0.93

Flags assigned during chemistry validation are shown.

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Only Detected Results Reported.

TABLE 4-22
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SOIL VAPOR SAMPLES IN THE KLINK
COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-058	SG-058	SG-058	SG-058	SG-059
Sample ID		SG-58	DUP-061511	SG-58	SG-058	SG-59
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		05/21/08	06/15/11	06/15/11	03/07/12	05/20/08
Parameter	Units		Field Duplicate (1-1)			
Volatile Organic Compounds						
Chlorobenzene	UG/M3					0.49
Chloroethane	UG/M3					
Chloroform	UG/M3	4.5				2.2
Chloromethane	UG/M3					
Cyclohexane	UG/M3	0.75				3.8
Dibromochloromethane	UG/M3					
Dichlorodifluoromethane	UG/M3	5.0				3.4
Ethanol	UG/M3	NA			48.3	NA
Ethylbenzene	UG/M3	5.4				9.9
Hexane	UG/M3	NA			NA	NA
Isopropylbenzene (Cumene)	UG/M3		NA	NA	NA	
Methyl ethyl ketone (2-Butanone)	UG/M3	19				36
Methyl tert-butyl ether	UG/M3					
Methylcyclohexane	UG/M3	2.5	NA	NA	NA	11
Methylene chloride	UG/M3	7.3				
n-Hexane	UG/M3	NA	NA	NA		NA
Styrene	UG/M3	0.72				0.83
t-Butyl alcohol	UG/M3	NA				NA
Tetrachloroethene	UG/M3	4,600 D	154,000	176,000	8,800 D	16
Tetrahydrofuran	UG/M3	NA	NA	NA	NA	NA
Toluene	UG/M3	53			49.2	71
Trichloroethene	UG/M3	61			53.8	
Trichlorofluoromethane	UG/M3	6.5				6.6
Vinyl chloride	UG/M3					
Xylene (total)	UG/M3	27				47

Flags assigned during chemistry validation are shown.

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Only Detected Results Reported.

TABLE 4-22
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SOIL VAPOR SAMPLES IN THE KLINK
COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-059	SG-059	SG-060	SG-060	SG-060
Sample ID		SG-59	SG-059	052108-FD1	SG-60	DUP-061411
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/15/11	03/07/12	05/21/08	05/21/08	06/14/11
Parameter	Units			Field Duplicate (1-1)		Field Duplicate (1-1)
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3		4.5 J	170	180	188
1,1,2,2-Tetrachloroethane	UG/M3					
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3			1.5	1.7	
1,1,2-Trichloroethane	UG/M3	NA	NA			NA
1,1-Dichloroethane	UG/M3			3.1	3.1	
1,1-Dichloroethene	UG/M3			1.8	1.9	
1,2,4-Trimethylbenzene	UG/M3		33.7	NA	NA	19.2 J
1,2-Dichlorobenzene	UG/M3					
1,2-Dichloroethane	UG/M3					
1,2-Dichloroethene (cis)	UG/M3			130	140	67.8
1,2-Dichloroethene (trans)	UG/M3			7.2	7.3	
1,2-Dichloropropane	UG/M3					
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3		9.8	NA	NA	
1,3-Dichlorobenzene	UG/M3			1.7	1.2	
1,4-Dichlorobenzene	UG/M3			0.70	0.69	
2,2,4-Trimethylpentane	UG/M3		8.5	NA	NA	
2-Hexanone	UG/M3	NA	NA	1.8	0.89	NA
4-Methyl-2-pentanone	UG/M3			6.4	6.9	
Acetone	UG/M3	NA	NA	230 J	260 J	NA
Benzene	UG/M3		4.3	11	11	
Bromodichloromethane	UG/M3					
Bromoform	UG/M3					
Bromomethane	UG/M3					
Carbon disulfide	UG/M3	NA	NA	130	140	NA
Carbon tetrachloride	UG/M3			7.0	7.6	

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Only Detected Results Reported.

TABLE 4-22
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SOIL VAPOR SAMPLES IN THE KLINK
COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-059	SG-059	SG-060	SG-060	SG-060
Sample ID		SG-59	SG-059	052108-FD1	SG-60	DUP-061411
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/15/11	03/07/12	05/21/08	05/21/08	06/14/11
Parameter	Units			Field Duplicate (1-1)		Field Duplicate (1-1)
Volatile Organic Compounds						
Chlorobenzene	UG/M3					
Chloroethane	UG/M3			6.8	7.1	
Chloroform	UG/M3			140	150	170
Chloromethane	UG/M3					
Cyclohexane	UG/M3			3.3	3.4	
Dibromochloromethane	UG/M3					
Dichlorodifluoromethane	UG/M3			8.0	8.0	
Ethanol	UG/M3	31.3 J	387	NA	NA	61.4
Ethylbenzene	UG/M3		32.5	6.5	4.9	
Hexane	UG/M3		NA	NA	NA	
Isopropylbenzene (Cumene)	UG/M3	NA	NA			NA
Methyl ethyl ketone (2-Butanone)	UG/M3		8.7	18	18	
Methyl tert-butyl ether	UG/M3					
Methylcyclohexane	UG/M3	NA	NA	5.8	6.0	NA
Methylene chloride	UG/M3	45.7	2.5 J	8.0	9.4	
n-Hexane	UG/M3	NA	5.3	NA	NA	NA
Styrene	UG/M3			1.2	0.99	
t-Butyl alcohol	UG/M3	35.5		NA	NA	
Tetrachloroethene	UG/M3	2,580	405	11,000 D	8,500 D	1,100,000
Tetrahydrofuran	UG/M3	NA	NA	NA	NA	NA
Toluene	UG/M3		119	100	100	
Trichloroethene	UG/M3		2.0 J	650 D	560 D	2,640
Trichlorofluoromethane	UG/M3			21	23	
Vinyl chloride	UG/M3			7.0	7.6	
Xylene (total)	UG/M3	40.4 J	181	31	23	

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Only Detected Results Reported.

TABLE 4-22
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SOIL VAPOR SAMPLES IN THE KLINK
COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-060	SG-060	SG-061	SG-061	SG-061R
Sample ID		SG-60	SG-060	SG-61	SG-61	SG-061R
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/14/11	03/05/12	05/20/08	06/15/11	03/07/12
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	15,000	118 J	2.5		
1,1,2,2-Tetrachloroethane	UG/M3					
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3					
1,1,2-Trichloroethane	UG/M3	NA	NA		NA	NA
1,1-Dichloroethane	UG/M3			3.9		
1,1-Dichloroethene	UG/M3					
1,2,4-Trimethylbenzene	UG/M3			NA	22.0 J	10.3
1,2-Dichlorobenzene	UG/M3					
1,2-Dichloroethane	UG/M3					
1,2-Dichloroethene (cis)	UG/M3	6,560		0.79		4.8 J
1,2-Dichloroethene (trans)	UG/M3					
1,2-Dichloropropane	UG/M3					
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3			NA		
1,3-Dichlorobenzene	UG/M3			0.67		6.3 J
1,4-Dichlorobenzene	UG/M3					
2,2,4-Trimethylpentane	UG/M3			NA		12.1
2-Hexanone	UG/M3	NA	NA		NA	NA
4-Methyl-2-pentanone	UG/M3					
Acetone	UG/M3	NA	NA	84 J	NA	NA
Benzene	UG/M3		44.4	3.0		7.4
Bromodichloromethane	UG/M3					
Bromoform	UG/M3					
Bromomethane	UG/M3					
Carbon disulfide	UG/M3	NA	NA	0.98	NA	NA
Carbon tetrachloride	UG/M3	793 J				

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Only Detected Results Reported.

TABLE 4-22
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SOIL VAPOR SAMPLES IN THE KLINK
COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-060	SG-060	SG-061	SG-061	SG-061R
Sample ID		SG-60	SG-060	SG-61	SG-61	SG-061R
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/14/11	03/05/12	05/20/08	06/15/11	03/07/12
Parameter	Units					
Volatile Organic Compounds						
Chlorobenzene	UG/M3					
Chloroethane	UG/M3					
Chloroform	UG/M3	14,200	132	0.81		
Chloromethane	UG/M3					
Cyclohexane	UG/M3			1.5	63.6	
Dibromochloromethane	UG/M3					
Dichlorodifluoromethane	UG/M3			1.6		
Ethanol	UG/M3	1,850 J	401	NA	93.7	249
Ethylbenzene	UG/M3		55.0 J	7.3		18.6
Hexane	UG/M3	3,900	NA	NA		NA
Isopropylbenzene (Cumene)	UG/M3	NA	NA		NA	NA
Methyl ethyl ketone (2-Butanone)	UG/M3			19		
Methyl tert-butyl ether	UG/M3					
Methylcyclohexane	UG/M3	NA	NA	4.6	NA	NA
Methylene chloride	UG/M3	3,040				
n-Hexane	UG/M3	NA	80.2 J	NA	NA	88.9
Styrene	UG/M3			0.69		
t-Butyl alcohol	UG/M3			NA		
Tetrachloroethene	UG/M3	48,200,000	17,900	8.5	79,800	256
Tetrahydrofuran	UG/M3	NA	NA	NA	NA	NA
Toluene	UG/M3		778	62	16.3 J	70.0
Trichloroethene	UG/M3	220,000	782	2.1	94.7	16.5
Trichlorofluoromethane	UG/M3					
Vinyl chloride	UG/M3					
Xylene (total)	UG/M3		322	35	65.4	76.9

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Only Detected Results Reported.

TABLE 4-22
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SOIL VAPOR SAMPLES IN THE KLINK
COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-062	SG-062	SG-062	SG-063	SG-063
Sample ID		SG-62	SG-62	SG-062	SG-63	DUP2-061511
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		05/21/08	06/14/11	03/05/12	05/21/08	06/15/11
Parameter	Units					Field Duplicate (1-1)
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	4.7	8.6	5.5		
1,1,2,2-Tetrachloroethane	UG/M3					
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	0.78				
1,1,2-Trichloroethane	UG/M3		NA	NA		NA
1,1-Dichloroethane	UG/M3				22	29.8
1,1-Dichloroethene	UG/M3				1.5	
1,2,4-Trimethylbenzene	UG/M3	NA	44.7	31.8	NA	
1,2-Dichlorobenzene	UG/M3					
1,2-Dichloroethane	UG/M3					
1,2-Dichloroethene (cis)	UG/M3				23	134
1,2-Dichloroethene (trans)	UG/M3				4.9	
1,2-Dichloropropane	UG/M3					
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	NA	10.2	6.0	NA	
1,3-Dichlorobenzene	UG/M3	1.3		0.97 J	1.6	
1,4-Dichlorobenzene	UG/M3	0.66			0.63	
2,2,4-Trimethylpentane	UG/M3	NA	0.91 J	14.6	NA	
2-Hexanone	UG/M3	3.6	NA	NA		NA
4-Methyl-2-pentanone	UG/M3	7.1		1.6		
Acetone	UG/M3	400 D	NA	NA	170 J	NA
Benzene	UG/M3	4.2	2.8	28.2	20	41.2
Bromodichloromethane	UG/M3					
Bromoform	UG/M3					
Bromomethane	UG/M3					
Carbon disulfide	UG/M3	15	NA	NA	0.82	NA
Carbon tetrachloride	UG/M3					

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Only Detected Results Reported.

TABLE 4-22
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SOIL VAPOR SAMPLES IN THE KLINK
COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-062	SG-062	SG-062	SG-063	SG-063
Sample ID		SG-62	SG-62	SG-062	SG-63	DUP2-061511
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		05/21/08	06/14/11	03/05/12	05/21/08	06/15/11
Parameter	Units					Field Duplicate (1-1)
Volatile Organic Compounds						
Chlorobenzene	UG/M3					
Chloroethane	UG/M3				7.0	43.2
Chloroform	UG/M3	0.61		0.83 J		
Chloromethane	UG/M3	0.67				
Cyclohexane	UG/M3	1.4		20.7	330 D	3,300
Dibromochloromethane	UG/M3					
Dichlorodifluoromethane	UG/M3	6.9		2.9		
Ethanol	UG/M3	NA	66.7	266 J	NA	
Ethylbenzene	UG/M3	6.0	38.9	54.3	3.1	
Hexane	UG/M3	NA	1.7	NA	NA	
Isopropylbenzene (Cumene)	UG/M3		NA	NA		NA
Methyl ethyl ketone (2-Butanone)	UG/M3	62	10.8	14.6	83	
Methyl tert-butyl ether	UG/M3					
Methylcyclohexane	UG/M3	4.0	NA	NA	90 D	NA
Methylene chloride	UG/M3			7.1		
n-Hexane	UG/M3	NA	NA	47.2	NA	NA
Styrene	UG/M3	0.79		1.3	0.57	
t-Butyl alcohol	UG/M3	NA			NA	
Tetrachloroethene	UG/M3	11	35.0	34.9	69	258
Tetrahydrofuran	UG/M3	NA	NA	NA	NA	NA
Toluene	UG/M3	77	121	323 D	31	
Trichloroethene	UG/M3	0.72	71.6	1.3	8.1	56.2
Trichlorofluoromethane	UG/M3	16	2.8	11.5		
Vinyl chloride	UG/M3				67	666
Xylene (total)	UG/M3	28	173	228	14	

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Only Detected Results Reported.

TABLE 4-22
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SOIL VAPOR SAMPLES IN THE KLINK
COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-063	SG-063	SG-078	SG-079	SG-079
Sample ID		SG-63	SG-063	SG-78	SG-79	SG-079
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/15/11	03/07/12	06/13/11	06/13/11	03/06/12
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3				29.7	12.9
1,1,2,2-Tetrachloroethane	UG/M3					
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3					
1,1,2-Trichloroethane	UG/M3	NA	NA	NA	NA	NA
1,1-Dichloroethane	UG/M3	38.9	7.8			
1,1-Dichloroethene	UG/M3					
1,2,4-Trimethylbenzene	UG/M3	4.6	8.7	53.7	180	2.8
1,2-Dichlorobenzene	UG/M3	5.0				
1,2-Dichloroethane	UG/M3					
1,2-Dichloroethene (cis)	UG/M3	108	1.2			
1,2-Dichloroethene (trans)	UG/M3	15.3				
1,2-Dichloropropane	UG/M3					
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3			14.9	47.4	
1,3-Dichlorobenzene	UG/M3				4.0	
1,4-Dichlorobenzene	UG/M3		1.9	6.9	7.3	
2,2,4-Trimethylpentane	UG/M3	119	20.0	69.0	52.3	
2-Hexanone	UG/M3	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	UG/M3					
Acetone	UG/M3	NA	NA	NA	NA	NA
Benzene	UG/M3	49.1	1.4	110	93.2	
Bromodichloromethane	UG/M3					
Bromoform	UG/M3					
Bromomethane	UG/M3		0.90 J			
Carbon disulfide	UG/M3	NA	NA	NA	NA	NA
Carbon tetrachloride	UG/M3				1.2	0.64 J

Flags assigned during chemistry validation are shown.

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Only Detected Results Reported.

TABLE 4-22
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SOIL VAPOR SAMPLES IN THE KLINK
COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-063	SG-063	SG-078	SG-079	SG-079
Sample ID		SG-63	SG-063	SG-78	SG-79	SG-079
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/15/11	03/07/12	06/13/11	06/13/11	03/06/12
Parameter	Units					
Volatile Organic Compounds						
Chlorobenzene	UG/M3					
Chloroethane	UG/M3	11.4				
Chloroform	UG/M3					
Chloromethane	UG/M3					
Cyclohexane	UG/M3	3,600		43.2	430 J	
Dibromochloromethane	UG/M3					
Dichlorodifluoromethane	UG/M3			25.3		4.1
Ethanol	UG/M3	48.0	49.9	266 J	292	59.3
Ethylbenzene	UG/M3		12.2	110	127	9.0
Hexane	UG/M3	91.6	NA	56.0	24.5	NA
Isopropylbenzene (Cumene)	UG/M3	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	UG/M3	53.5		23.1	5.2	3.6
Methyl tert-butyl ether	UG/M3					
Methylcyclohexane	UG/M3	NA	NA	NA	NA	NA
Methylene chloride	UG/M3					
n-Hexane	UG/M3	NA		NA	NA	
Styrene	UG/M3		2.1	4.8		
t-Butyl alcohol	UG/M3				3.4	
Tetrachloroethene	UG/M3	208	150	48.4	21,000	1,180 D
Tetrahydrofuran	UG/M3	NA	NA	NA	NA	NA
Toluene	UG/M3	6.4	16.3	1,090	467	66.9
Trichloroethene	UG/M3	62.2	6.4			3.5
Trichlorofluoromethane	UG/M3					
Vinyl chloride	UG/M3	48.7	2.0			
Xylene (total)	UG/M3	4.5 J	51.8	352	474	34.6

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Only Detected Results Reported.

TABLE 4-22
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SOIL VAPOR SAMPLES IN THE KLINK
COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-080	SG-080	SG-081	SG-081	SG-082
Sample ID		SG-80	SG-080	SG-81	SG-081	SG-82
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/14/11	03/05/12	06/14/11	03/05/12	06/14/11
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3		11.7	27.8 J	35.5	
1,1,2,2-Tetrachloroethane	UG/M3					
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3					
1,1,2-Trichloroethane	UG/M3	NA	NA	NA	NA	NA
1,1-Dichloroethane	UG/M3					
1,1-Dichloroethene	UG/M3					
1,2,4-Trimethylbenzene	UG/M3	33.4	19.9	20.2 J	22.3 J	17.1 J
1,2-Dichlorobenzene	UG/M3					
1,2-Dichloroethane	UG/M3				15.8	
1,2-Dichloroethene (cis)	UG/M3				6.7 J	
1,2-Dichloroethene (trans)	UG/M3					
1,2-Dichloropropane	UG/M3					
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3					
1,3-Dichlorobenzene	UG/M3		16.2		22.6 J	
1,4-Dichlorobenzene	UG/M3					
2,2,4-Trimethylpentane	UG/M3		22.4		22.2 J	
2-Hexanone	UG/M3	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	UG/M3					
Acetone	UG/M3	NA	NA	NA	NA	NA
Benzene	UG/M3		19.2		8.7 J	
Bromodichloromethane	UG/M3					
Bromoform	UG/M3					
Bromomethane	UG/M3					
Carbon disulfide	UG/M3	NA	NA	NA	NA	NA
Carbon tetrachloride	UG/M3					

Flags assigned during chemistry validation are shown.

Blank cell - Not Detected. NA - Not analyzed.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

Only Detected Results Reported.

TABLE 4-22
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SOIL VAPOR SAMPLES IN THE KLINK
COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-080	SG-080	SG-081	SG-081	SG-082
Sample ID		SG-80	SG-080	SG-81	SG-081	SG-82
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/14/11	03/05/12	06/14/11	03/05/12	06/14/11
Parameter	Units					
Volatile Organic Compounds						
Chlorobenzene	UG/M3					
Chloroethane	UG/M3					
Chloroform	UG/M3		3.6 J			
Chloromethane	UG/M3					
Cyclohexane	UG/M3		17.3		23.2	
Dibromochloromethane	UG/M3					
Dichlorodifluoromethane	UG/M3					
Ethanol	UG/M3	12,200 J	540 J	65.7	362	71.8
Ethylbenzene	UG/M3		34.3		26.3	
Hexane	UG/M3		NA		NA	
Isopropylbenzene (Cumene)	UG/M3	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	UG/M3		11.3		9.2 J	
Methyl tert-butyl ether	UG/M3					
Methylcyclohexane	UG/M3	NA	NA	NA	NA	NA
Methylene chloride	UG/M3	37.9				
n-Hexane	UG/M3	NA	34.5	NA	29.9	NA
Styrene	UG/M3					
t-Butyl alcohol	UG/M3					
Tetrachloroethene	UG/M3	1,670	260	22,100	4,980	6,370
Tetrahydrofuran	UG/M3	NA	NA	NA	NA	NA
Toluene	UG/M3	171	192	63.7	116	152
Trichloroethene	UG/M3	74.9	16.8	776	380	208
Trichlorofluoromethane	UG/M3					
Vinyl chloride	UG/M3					
Xylene (total)	UG/M3	191	171	113	149	184

Flags assigned during chemistry validation are shown.

Blank cell - Not Detected. NA - Not analyzed.

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Only Detected Results Reported.

TABLE 4-22
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SOIL VAPOR SAMPLES IN THE KLINK
COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-082	SG-082	SG-083	SG-084	SG-084
Sample ID		FD-03052012-1	SG-082	SG-083	SG-84	SG-084
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/05/12	03/05/12	03/05/12	06/15/11	03/07/12
Parameter	Units	Field Duplicate (1-1)				
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3			17.6 J		
1,1,2,2-Tetrachloroethane	UG/M3					
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3					
1,1,2-Trichloroethane	UG/M3	NA	NA	NA	NA	NA
1,1-Dichloroethane	UG/M3					
1,1-Dichloroethene	UG/M3					
1,2,4-Trimethylbenzene	UG/M3					
1,2-Dichlorobenzene	UG/M3					
1,2-Dichloroethane	UG/M3					
1,2-Dichloroethene (cis)	UG/M3			12.4 J		
1,2-Dichloroethene (trans)	UG/M3					
1,2-Dichloropropane	UG/M3					
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3					
1,3-Dichlorobenzene	UG/M3					
1,4-Dichlorobenzene	UG/M3					
2,2,4-Trimethylpentane	UG/M3					
2-Hexanone	UG/M3	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	UG/M3					
Acetone	UG/M3	NA	NA	NA	NA	NA
Benzene	UG/M3					
Bromodichloromethane	UG/M3					
Bromoform	UG/M3					
Bromomethane	UG/M3					
Carbon disulfide	UG/M3	NA	NA	NA	NA	NA
Carbon tetrachloride	UG/M3					

Flags assigned during chemistry validation are shown.

Blank cell - Not Detected. NA - Not analyzed.

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Only Detected Results Reported.

TABLE 4-22
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SOIL VAPOR SAMPLES IN THE KLINK
COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-082	SG-082	SG-083	SG-084	SG-084
Sample ID		FD-03052012-1	SG-082	SG-083	SG-84	SG-084
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/05/12	03/05/12	03/05/12	06/15/11	03/07/12
Parameter	Units	Field Duplicate (1-1)				
Volatile Organic Compounds						
Chlorobenzene	UG/M3					
Chloroethane	UG/M3					
Chloroform	UG/M3	35.2	37.5			28.3 J
Chloromethane	UG/M3					
Cyclohexane	UG/M3					
Dibromochloromethane	UG/M3					
Dichlorodifluoromethane	UG/M3					
Ethanol	UG/M3			96.6		84.8
Ethylbenzene	UG/M3					
Hexane	UG/M3	NA	NA	NA		NA
Isopropylbenzene (Cumene)	UG/M3	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	UG/M3		19.2			
Methyl tert-butyl ether	UG/M3					
Methylcyclohexane	UG/M3	NA	NA	NA	NA	NA
Methylene chloride	UG/M3	14.7 J	12.9 J	15.8 J	2,820	11.1 J
n-Hexane	UG/M3		13.6 J	11.0 J	NA	
Styrene	UG/M3					
t-Butyl alcohol	UG/M3					
Tetrachloroethene	UG/M3	75,300 D	49,300 D	280,000 D	282,000	66,200 D
Tetrahydrofuran	UG/M3	NA	NA	NA	NA	NA
Toluene	UG/M3	16.0 J	18.6 J	48.1		68.1
Trichloroethene	UG/M3	86.4	92.7	318		300
Trichlorofluoromethane	UG/M3					
Vinyl chloride	UG/M3					
Xylene (total)	UG/M3	26.6 J	26.9 J	50.3 J		43.6 J

Flags assigned during chemistry validation are shown.

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Only Detected Results Reported.

TABLE 4-22
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SOIL VAPOR SAMPLES IN THE KLINK
COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-085	SG-085	SG-086	SG-086	SG-087
Sample ID		SG-85	SG-085	SG-86	SG-086	SG-87
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/15/11	03/07/12	06/15/11	03/07/12	06/15/11
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3		11.3	295 J	136	
1,1,2,2-Tetrachloroethane	UG/M3					
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3					
1,1,2-Trichloroethane	UG/M3	NA	NA	NA	NA	NA
1,1-Dichloroethane	UG/M3				88.7	
1,1-Dichloroethene	UG/M3			1,290	465	
1,2,4-Trimethylbenzene	UG/M3	59.9 J	5.3			
1,2-Dichlorobenzene	UG/M3					
1,2-Dichloroethane	UG/M3					
1,2-Dichloroethene (cis)	UG/M3				35.6	
1,2-Dichloroethene (trans)	UG/M3					
1,2-Dichloropropane	UG/M3		2.3			169
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3					
1,3-Dichlorobenzene	UG/M3					
1,4-Dichlorobenzene	UG/M3		1.2 J			
2,2,4-Trimethylpentane	UG/M3		2.8			
2-Hexanone	UG/M3	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	UG/M3					
Acetone	UG/M3	NA	NA	NA	NA	NA
Benzene	UG/M3		2.2			
Bromodichloromethane	UG/M3					
Bromoform	UG/M3					
Bromomethane	UG/M3					
Carbon disulfide	UG/M3	NA	NA	NA	NA	NA
Carbon tetrachloride	UG/M3					

Flags assigned during chemistry validation are shown.

Blank cell - Not Detected. NA - Not analyzed.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

Only Detected Results Reported.

TABLE 4-22
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SOIL VAPOR SAMPLES IN THE KLINK
COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-085	SG-085	SG-086	SG-086	SG-087
Sample ID		SG-85	SG-085	SG-86	SG-086	SG-87
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/15/11	03/07/12	06/15/11	03/07/12	06/15/11
Parameter	Units					
Volatile Organic Compounds						
Chlorobenzene	UG/M3					
Chloroethane	UG/M3					
Chloroform	UG/M3		1.0 J		35.3	
Chloromethane	UG/M3					
Cyclohexane	UG/M3		2.7			
Dibromochloromethane	UG/M3					
Dichlorodifluoromethane	UG/M3		1.9			
Ethanol	UG/M3	259	166 J	3,840		1,310
Ethylbenzene	UG/M3		15.1		10.8 J	
Hexane	UG/M3	581	NA	978	NA	1,960
Isopropylbenzene (Cumene)	UG/M3	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	UG/M3		5.8			
Methyl tert-butyl ether	UG/M3					
Methylcyclohexane	UG/M3	NA	NA	NA	NA	NA
Methylene chloride	UG/M3	1,690	27.9	3,140		6,640
n-Hexane	UG/M3	NA	5.4	NA		NA
Styrene	UG/M3		2.5			
t-Butyl alcohol	UG/M3					
Tetrachloroethene	UG/M3	7,460	269	69,500	22,200 D	2,190
Tetrahydrofuran	UG/M3	NA	NA	NA	NA	NA
Toluene	UG/M3	198	63.1	222 J	141	264
Trichloroethene	UG/M3	114	8.4	899	389	
Trichlorofluoromethane	UG/M3	256	103			
Vinyl chloride	UG/M3					
Xylene (total)	UG/M3		57.0		45.5 J	

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Only Detected Results Reported.

TABLE 4-22
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SOIL VAPOR SAMPLES IN THE KLINK
COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-087	SG-088	SG-092	SG-097	SG-112
Sample ID		SG-087	SG-88	SG-92	SG-97	SG-112
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/07/12	08/18/11	08/18/11	08/18/11	03/06/12
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3		2.1	2.1	10	
1,1,2,2-Tetrachloroethane	UG/M3					
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3				1.9	
1,1,2-Trichloroethane	UG/M3	NA				NA
1,1-Dichloroethane	UG/M3				0.76	
1,1-Dichloroethene	UG/M3					
1,2,4-Trimethylbenzene	UG/M3	19.4 J	NA	NA	NA	
1,2-Dichlorobenzene	UG/M3					
1,2-Dichloroethane	UG/M3					
1,2-Dichloroethene (cis)	UG/M3	536		0.96	1.9	176
1,2-Dichloroethene (trans)	UG/M3					
1,2-Dichloropropane	UG/M3					
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3		NA	NA	NA	
1,3-Dichlorobenzene	UG/M3		11	5.9	8.0	
1,4-Dichlorobenzene	UG/M3					
2,2,4-Trimethylpentane	UG/M3		NA	NA	NA	
2-Hexanone	UG/M3	NA	4.5		2.5	NA
4-Methyl-2-pentanone	UG/M3					
Acetone	UG/M3	NA	300		170	NA
Benzene	UG/M3		1.5	110	5.6	
Bromodichloromethane	UG/M3					
Bromoform	UG/M3					
Bromomethane	UG/M3					
Carbon disulfide	UG/M3	NA	7.6	3.3	3.5	NA
Carbon tetrachloride	UG/M3					

Flags assigned during chemistry validation are shown.

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Only Detected Results Reported.

TABLE 4-22
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SOIL VAPOR SAMPLES IN THE KLINK
COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-087	SG-088	SG-092	SG-097	SG-112
Sample ID		SG-087	SG-88	SG-92	SG-97	SG-112
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/07/12	08/18/11	08/18/11	08/18/11	03/06/12
Parameter	Units					
Volatile Organic Compounds						
Chlorobenzene	UG/M3					
Chloroethane	UG/M3			0.72		
Chloroform	UG/M3		3.5	4.3	29	
Chloromethane	UG/M3		0.99	2.4		
Cyclohexane	UG/M3		1.2	87	1.4	
Dibromochloromethane	UG/M3					
Dichlorodifluoromethane	UG/M3		1.3	0.67	2.3	
Ethanol	UG/M3	116	NA	NA	NA	158
Ethylbenzene	UG/M3	18.4 J	8.1	9.6	10	7.5 J
Hexane	UG/M3	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	UG/M3	NA	1.7	1.5	1.3	NA
Methyl ethyl ketone (2-Butanone)	UG/M3					8.8 J
Methyl tert-butyl ether	UG/M3					
Methylcyclohexane	UG/M3	NA	4.8	130 D	5.5	NA
Methylene chloride	UG/M3					93.2
n-Hexane	UG/M3		NA	NA	NA	
Styrene	UG/M3		1.5	0.99	1.2	
t-Butyl alcohol	UG/M3		NA	NA	NA	
Tetrachloroethene	UG/M3	227,000 D	53	480	4,100 D	5,910
Tetrahydrofuran	UG/M3	NA		0.65	0.50	NA
Toluene	UG/M3	68.1	25	31	29	82.8
Trichloroethene	UG/M3	968	1.1	620 D	130	181
Trichlorofluoromethane	UG/M3		4.4	1.3	61	
Vinyl chloride	UG/M3			0.32		
Xylene (total)	UG/M3	102	44	52	57	30.0 J

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Only Detected Results Reported.

TABLE 4-22
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SOIL VAPOR SAMPLES IN THE KLINK
COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-113	SG-114	SG-115	SG-116	SG-117
Sample ID		SG-113	SG-114	SG-115	SG-116	SG-117
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/06/12	03/05/12	03/05/12	03/05/12	03/05/12
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	22.1	181		145	135
1,1,2,2-Tetrachloroethane	UG/M3					
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3					
1,1,2-Trichloroethane	UG/M3	NA	NA	NA	NA	NA
1,1-Dichloroethane	UG/M3	21.5	3.4			
1,1-Dichloroethene	UG/M3	4.5				
1,2,4-Trimethylbenzene	UG/M3	2.0	20.5	28.4		
1,2-Dichlorobenzene	UG/M3					
1,2-Dichloroethane	UG/M3		10.4	455	7.3 J	
1,2-Dichloroethene (cis)	UG/M3	12.3	6.8		109,000 D	1,100
1,2-Dichloroethene (trans)	UG/M3	41.8	1.2		260	110
1,2-Dichloropropane	UG/M3			6.2 J	29.0	
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3		5.1	9.6		
1,3-Dichlorobenzene	UG/M3			25.7		
1,4-Dichlorobenzene	UG/M3		1.2 J			
2,2,4-Trimethylpentane	UG/M3	44.1	3.7	17.6		14.5 J
2-Hexanone	UG/M3	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	UG/M3			3.7 J		
Acetone	UG/M3	NA	NA	NA	NA	NA
Benzene	UG/M3	10.5	7.0	30.2	33.3	27.3
Bromodichloromethane	UG/M3					
Bromoform	UG/M3					
Bromomethane	UG/M3					
Carbon disulfide	UG/M3	NA	NA	NA	NA	NA
Carbon tetrachloride	UG/M3	39.3				

Flags assigned during chemistry validation are shown.

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Only Detected Results Reported.

TABLE 4-22
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SOIL VAPOR SAMPLES IN THE KLINK
COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-113	SG-114	SG-115	SG-116	SG-117
Sample ID		SG-113	SG-114	SG-115	SG-116	SG-117
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/06/12	03/05/12	03/05/12	03/05/12	03/05/12
Parameter	Units					
Volatile Organic Compounds						
Chlorobenzene	UG/M3					
Chloroethane	UG/M3					
Chloroform	UG/M3	2,470 D	57.2	8.7	313	551
Chloromethane	UG/M3					
Cyclohexane	UG/M3	18.1	5.4	16.8		21.8
Dibromochloromethane	UG/M3					
Dichlorodifluoromethane	UG/M3	4.9	1.8			
Ethanol	UG/M3	32.3	28.3	365	1,800	75.1
Ethylbenzene	UG/M3	11.0	26.7	46.8	25.2 J	18.8 J
Hexane	UG/M3	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	UG/M3	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	UG/M3	9.2	6.5	8.7	251	
Methyl tert-butyl ether	UG/M3					
Methylcyclohexane	UG/M3	NA	NA	NA	NA	NA
Methylene chloride	UG/M3	54.6	99.8	49.5	83.5	58.9
n-Hexane	UG/M3	31.1	10.3	47.0	32.9	23.3
Styrene	UG/M3		2.1			
t-Butyl alcohol	UG/M3		1.6			
Tetrachloroethene	UG/M3	388 D	2,080 D	796	23,600,000 DJ	287,000 J
Tetrahydrofuran	UG/M3	NA	NA	NA	NA	NA
Toluene	UG/M3	101	95.8	313	136	97.0
Trichloroethene	UG/M3	139	2,460 D	27.2	67,600 D	4,800
Trichlorofluoromethane	UG/M3	2.2	9.4			
Vinyl chloride	UG/M3					
Xylene (total)	UG/M3	40.9	117	238	115	81.0

Flags assigned during chemistry validation are shown.

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Only Detected Results Reported.

TABLE 4-22
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SOIL VAPOR SAMPLES IN THE KLINK
COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-118	SG-119	SG-120	SG-120	SG-121
Sample ID		SG-118	SG-119	FD-03072012-2	SG-120	SG-121
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/05/12	03/05/12	03/07/12	03/07/12	03/05/12
Parameter	Units			Field Duplicate (1-1)		
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3		235			10.7
1,1,2,2-Tetrachloroethane	UG/M3					
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3					
1,1,2-Trichloroethane	UG/M3	NA	NA	NA	NA	NA
1,1-Dichloroethane	UG/M3					
1,1-Dichloroethene	UG/M3					
1,2,4-Trimethylbenzene	UG/M3					18.1
1,2-Dichlorobenzene	UG/M3					
1,2-Dichloroethane	UG/M3					
1,2-Dichloroethene (cis)	UG/M3	37.0	119			
1,2-Dichloroethene (trans)	UG/M3					
1,2-Dichloropropane	UG/M3					
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3					
1,3-Dichlorobenzene	UG/M3					
1,4-Dichlorobenzene	UG/M3					
2,2,4-Trimethylpentane	UG/M3		28.2			20.7
2-Hexanone	UG/M3	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	UG/M3					
Acetone	UG/M3	NA	NA	NA	NA	NA
Benzene	UG/M3	15.2	32.4		5.7 J	40.3
Bromodichloromethane	UG/M3					
Bromoform	UG/M3					
Bromomethane	UG/M3					
Carbon disulfide	UG/M3	NA	NA	NA	NA	NA
Carbon tetrachloride	UG/M3					

Flags assigned during chemistry validation are shown.

Blank cell - Not Detected. NA - Not analyzed.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

Only Detected Results Reported.

TABLE 4-22
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SOIL VAPOR SAMPLES IN THE KLINK
COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-118	SG-119	SG-120	SG-120	SG-121
Sample ID		SG-118	SG-119	FD-03072012-2	SG-120	SG-121
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/05/12	03/05/12	03/07/12	03/07/12	03/05/12
Parameter	Units			Field Duplicate (1-1)		
Volatile Organic Compounds						
Chlorobenzene	UG/M3					
Chloroethane	UG/M3					
Chloroform	UG/M3	27.5 J	87.3			
Chloromethane	UG/M3					
Cyclohexane	UG/M3	14.7 J	34.6			35.9
Dibromochloromethane	UG/M3					
Dichlorodifluoromethane	UG/M3	15.5 J				
Ethanol	UG/M3		99.0	98.1	155	331
Ethylbenzene	UG/M3	18.5 J	21.6 J	15.4 J	14.3 J	53.7
Hexane	UG/M3	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	UG/M3	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	UG/M3		13.9 J			18.6
Methyl tert-butyl ether	UG/M3					
Methylcyclohexane	UG/M3	NA	NA	NA	NA	NA
Methylene chloride	UG/M3	62.0	712	472	414	157
n-Hexane	UG/M3	61.0	42.3			52.9
Styrene	UG/M3					
t-Butyl alcohol	UG/M3					
Tetrachloroethene	UG/M3	320,000 D	1,740,000 DJ	3,070	2,800	225
Tetrahydrofuran	UG/M3	NA	NA	NA	NA	NA
Toluene	UG/M3	79.1	133	70.5	72.8	423
Trichloroethene	UG/M3	148	1,620		16.2 J	
Trichlorofluoromethane	UG/M3	373				
Vinyl chloride	UG/M3					
Xylene (total)	UG/M3	88.1	96.1	77.3	65.0 J	258

Flags assigned during chemistry validation are shown.

Blank cell - Not Detected. NA - Not analyzed.

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Only Detected Results Reported.

TABLE 4-22
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SOIL VAPOR SAMPLES IN THE KLINK
COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-122
Sample ID		SG-122
Matrix		Soil Gas
Depth Interval (ft)		-
Date Sampled		03/07/12
Parameter	Units	
Volatile Organic Compounds		
1,1,1-Trichloroethane	UG/M3	1.4 J
1,1,2,2-Tetrachloroethane	UG/M3	
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	
1,1,2-Trichloroethane	UG/M3	NA
1,1-Dichloroethane	UG/M3	
1,1-Dichloroethene	UG/M3	
1,2,4-Trimethylbenzene	UG/M3	51.5
1,2-Dichlorobenzene	UG/M3	
1,2-Dichloroethane	UG/M3	
1,2-Dichloroethene (cis)	UG/M3	
1,2-Dichloroethene (trans)	UG/M3	
1,2-Dichloropropane	UG/M3	
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	10.0
1,3-Dichlorobenzene	UG/M3	50.1
1,4-Dichlorobenzene	UG/M3	
2,2,4-Trimethylpentane	UG/M3	21.8
2-Hexanone	UG/M3	NA
4-Methyl-2-pentanone	UG/M3	
Acetone	UG/M3	NA
Benzene	UG/M3	16.8
Bromodichloromethane	UG/M3	
Bromoform	UG/M3	
Bromomethane	UG/M3	
Carbon disulfide	UG/M3	NA
Carbon tetrachloride	UG/M3	

Flags assigned during chemistry validation are shown.

Blank cell - Not Detected. NA - Not analyzed.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

Only Detected Results Reported.

TABLE 4-22
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SOIL VAPOR SAMPLES IN THE KLINK
COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-122
Sample ID		SG-122
Matrix		Soil Gas
Depth Interval (ft)		-
Date Sampled		03/07/12
Parameter	Units	
Volatile Organic Compounds		
Chlorobenzene	UG/M3	
Chloroethane	UG/M3	
Chloroform	UG/M3	
Chloromethane	UG/M3	
Cyclohexane	UG/M3	22.1
Dibromochloromethane	UG/M3	
Dichlorodifluoromethane	UG/M3	1.4 J
Ethanol	UG/M3	570 J
Ethylbenzene	UG/M3	47.1
Hexane	UG/M3	NA
Isopropylbenzene (Cumene)	UG/M3	NA
Methyl ethyl ketone (2-Butanone)	UG/M3	15.4
Methyl tert-butyl ether	UG/M3	
Methylcyclohexane	UG/M3	NA
Methylene chloride	UG/M3	224 J
n-Hexane	UG/M3	16.8
Styrene	UG/M3	1.4 J
t-Butyl alcohol	UG/M3	
Tetrachloroethene	UG/M3	66.6
Tetrahydrofuran	UG/M3	NA
Toluene	UG/M3	148
Trichloroethene	UG/M3	0.60 J
Trichlorofluoromethane	UG/M3	0.54 J
Vinyl chloride	UG/M3	
Xylene (total)	UG/M3	222

Flags assigned during chemistry validation are shown.

Blank cell - Not Detected. NA - Not analyzed.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

Only Detected Results Reported.

TABLE 4-23
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN ALL SOIL VAPOR SAMPLES IN THE KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Parameter	Units	No. of Samples	No. of Detections	Range of Detections			Location of Max Value
				Min	Max	Avg	
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/M3	141	100	1.40	4.20E+04	1,276	SG-040
1,1,2,2-Tetrachloroethane	UG/M3	141	1	3.10	3.10	3.10	SG-018
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	141	56	0.780	1,520	103.1	SG-049
1,1,2-Trichloroethane	UG/M3	65	4	0.440	41.00	20.49	SG-040
1,1-Dichloroethane	UG/M3	141	59	0.240	3,400	127.2	SG-040
1,1-Dichloroethene	UG/M3	141	40	0.400	1,290	91.64	SG-086
1,2,4-Trimethylbenzene	UG/M3	76	40	2.00	180.0	29.79	SG-079
1,2-Dichlorobenzene	UG/M3	141	2	1.10	5.00	3.05	SG-063
1,2-Dichloroethane	UG/M3	141	12	0.470	455.0	48.65	SG-115
1,2-Dichloroethene (cis)	UG/M3	141	68	0.360	4.37E+05	1.28E+04	SG-049
1,2-Dichloroethene (trans)	UG/M3	141	41	0.480	1,420	112.3	SG-049
1,2-Dichloropropane	UG/M3	141	7	2.30	169.0	41.90	SG-087
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	76	14	1.60	47.40	13.59	SG-079
1,3-Dichlorobenzene	UG/M3	141	56	0.300	50.10	7.73	SG-122
1,4-Dichlorobenzene	UG/M3	141	22	0.300	7.30	1.77	SG-079
2,2,4-Trimethylpentane	UG/M3	76	26	0.910	400.0	53.38	SG-021
2-Hexanone	UG/M3	65	27	0.450	11.00	1.98	SG-021
4-Methyl-2-pentanone	UG/M3	141	37	0.420	24.90	3.28	SG-055

Only Detected Results Reported.

TABLE 4-23
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN ALL SOIL VAPOR SAMPLES IN THE KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Parameter	Units	No. of Samples	No. of Detections	Range of Detections			Location of Max Value
				Min	Max	Avg	
Volatile Organic Compounds							
Acetone	UG/M3	65	52	4.10	400.0	87.48	SG-062
Benzene	UG/M3	141	100	0.480	600.0	33.31	SG-021
Bromodichloromethane	UG/M3	141	14	0.600	12.00	2.88	SG-021
Bromoform	UG/M3	141	5	1.70	6,410	1,670	SG-058
Bromomethane	UG/M3	141	2	0.430	0.900	0.665	SG-063
Carbon disulfide	UG/M3	65	34	0.820	140.0	14.76	SG-060
Carbon tetrachloride	UG/M3	141	46	0.500	2,430	179.8	SG-049
Chlorobenzene	UG/M3	141	3	0.470	0.510	0.490	SG-019
Chloroethane	UG/M3	141	20	0.330	93.00	12.00	SG-040
Chloroform	UG/M3	141	87	0.610	1.42E+04	301.3	SG-060
Chloromethane	UG/M3	141	18	0.280	3.10	0.846	SG-022
Cyclohexane	UG/M3	141	72	0.280	1.63E+04	471.7	SG-043
Dibromochloromethane	UG/M3	141	1	25.40	25.40	25.40	SG-046
Dichlorodifluoromethane	UG/M3	141	74	0.490	25.30	4.61	SG-078
Ethanol	UG/M3	76	59	18.10	1.22E+04	504.5	SG-080
Ethylbenzene	UG/M3	141	99	0.690	127.0	16.02	SG-079
Hexane	UG/M3	34	15	1.70	8,000	1,165	SG-043
Isopropylbenzene (Cumene)	UG/M3	65	12	0.790	4.20	2.05	SG-021

Only Detected Results Reported.

TABLE 4-23
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN ALL SOIL VAPOR SAMPLES IN THE KLINK COSMO AREA
FORMER KLINK COSMO CLEANERS SITE

Parameter	Units	No. of Samples	No. of Detections	Range of Detections			Location of Max Value
				Min	Max	Avg	
Volatile Organic Compounds							
Methyl ethyl ketone (2-Butanone)	UG/M3	141	65	1.70	251.0	20.97	SG-116
Methyl tert-butyl ether	UG/M3	141	6	0.500	7.50	3.18	SG-054
Methylcyclohexane	UG/M3	65	40	0.880	560.0	81.03	SG-043
Methylene chloride	UG/M3	141	66	0.380	6,640	340.0	SG-087
n-Hexane	UG/M3	42	25	3.10	88.90	29.57	SG-061R
Styrene	UG/M3	141	59	0.300	16.80	2.76	SG-046
t-Butyl alcohol	UG/M3	76	3	1.60	35.50	13.50	SG-059
Tetrachloroethene	UG/M3	141	141	8.50	4.82E+07	7.10E+05	SG-060
Tetrahydrofuran	UG/M3	25	5	0.300	1.00	0.592	SG-039
Toluene	UG/M3	141	127	1.10	1,090	86.95	SG-078
Trichloroethene	UG/M3	141	121	0.600	2.30E+05	5,774	SG-049
Trichlorofluoromethane	UG/M3	141	75	0.540	5,270	238.9	SG-057
Vinyl chloride	UG/M3	141	30	0.320	1,450	162.2	SG-049
Xylene (total)	UG/M3	141	117	2.30	474.0	67.92	SG-079

Only Detected Results Reported.

**TABLE 5-1
BASELINE GROUNDWATER MONITORING
FORMER KLINK COSMO CLEANERS SITE AREA**

Sample Event	JUN 07	DEC 07	JUL 08	SEP 09	NOV 09	JUN 11	OCT 11	MAR 12
Parameter								
Tetrachloroethene (µg/L)								
DEC-004	1.4	3.2	4.4	2		1.5	ND	1.2
DEC-006D			1600		1200	6600	8000	3300
DEC-006DD						420	440	320
DEC-007		2600	1400		1300	1200	1400	830
DEC-007D						340	400	190
DEC-008	ND	400	450	550	330	1300	3000	1300
DEC-009	62	39	47			180	100	130
DEC-010	47	28				20	15	19
DEC-011	12	12				13	6.5	5.8
DEC-011D								1.9
DEC-012	680	1200	950		700	270		270
DEC-013		7800	3600		6400	2100	1800	2500
DEC-013D						190	53	47
DEC-014D						26	15	28
DEC-014R						44000	46000	15000
DEC-015	120	160	160		100	140	66	37
DEC-015D						640	290	310
DEC-015R								24
DEC-022D		330	320			1300		1200
DEC-027		5.6	8.1			34	26	17
DEC-028		180	500		600	2300	3100	320
DEC-028D								6
DEC-029		7200	7600		10000	5700	4400	12000
DEC-029D						20	27	19
DEC-029TC							2800	4500
DEC-030		4400	2000		3200	2000	2400	1900
DEC-030D						43	37	33
DEC-031		33000	24000		4000	6100	5800	9200
DEC-031D			20		9	16	3.8	3.6
DEC-031TC							3.4	1.9
DEC-032		1.5	1.2		1.4	3		ND
DEC-033		3.6			ND	ND		2.1
DEC-039			62			59		62
DEC-042			52		35	62	59	72
DEC-043			33		37	12	13	14
DEC-043D						9	7.8	8.2
DEC-044			3600		3100	1500		890
DEC-044D						1.5		ND
DEC-045			130		110	43		38
DEC-045D						ND		ND
DEC-046			11		7.9	7.4		7.4
DEC-046D								3.5
DEC-047			1.2			2.9		2.5
DEC-048			6.6		4.3	3.6		4.4
DEC-064						220	140	140
DEC-064D						14	14	14
DEC-065						170		200
DEC-065D						83		65
DEC-066						8.4		42
DEC-066D						1.7		ND

Blank cell - Not Sampled.

ND - Not Detected.

TABLE 5-1
BASELINE GROUNDWATER MONITORING
FORMER KLINK COSMO CLEANERS SITE AREA

Sample Event	JUN 07	DEC 07	JUL 08	SEP 09	NOV 09	JUN 11	OCT 11	MAR 12
Parameter								
DEC-071							36	
DEC-088								150
DEC-088D								190
DEC-089								59
DEC-089D								1200
DEC-090								2400
DEC-090D								10
DEC-091								ND
DEC-091D								3.3

Blank cell - Not Sampled.

ND - Not Detected.

**TABLE 5-1
BASELINE GROUNDWATER MONITORING
FORMER KLINK COSMO CLEANERS SITE AREA**

Sample Event	JUN 07	DEC 07	JUL 08	SEP 09	NOV 09	JUN 11	OCT 11	MAR 12
Parameter								
Trichloroethene (µg/L)								
DEC-004	230	220	580	120		37	ND	2.1
DEC-006D			71		23	39	34	ND
DEC-006DD						210	120	220
DEC-007		81	46		53	25	21	39
DEC-007D						26	280	39
DEC-008	1	89	60	59	67	120	170	83
DEC-009	81	100	95			70	57	59
DEC-010	90	89				87	76	79
DEC-011	27	33				17	25	15
DEC-011D								5.5
DEC-012	13	29	ND		12	3.9		8.9
DEC-013		130	140		110	36	40	59
DEC-013D						24	16	12
DEC-014D						3.6	2.4	2.7
DEC-014R						300	ND	34
DEC-015	15	19	20		16	13	11	7.6
DEC-015D						42	93	45
DEC-015R								6.4
DEC-022D		120	130			94		64
DEC-027		320	300			750	310	190
DEC-028		37	55		76	220	150	190
DEC-028D								99
DEC-029		59	86		ND	7.4	ND	21
DEC-029D						3.4	3.8	5
DEC-029TC							110	300
DEC-030		29	29		ND	27	ND	27
DEC-030D						170	320	57
DEC-031		54	ND		30	23	ND	35
DEC-031D			1.1		1.2	1.2	0.96	ND
DEC-031TC							ND	ND
DEC-032		ND	ND		ND	1.3		ND
DEC-033		1.8			ND	ND		0.9
DEC-039			210			240		150
DEC-042			210		90	73	69	48
DEC-043			1.3		1.9	ND	1.5	1.3
DEC-043D						1.2	1.4	1.3
DEC-044			180		23	8.6		49
DEC-044D						ND		1.1
DEC-045			11		2.7	ND		1.3
DEC-045D						ND		ND
DEC-046			1.7		2.2	1.5		2.4
DEC-046D								3.3
DEC-047			ND			ND		0.7
DEC-048			1.2		1.7	2.6		1.3
DEC-064						6.8	4.9	4.5
DEC-064D						160	100	80
DEC-065						3.6		2.5
DEC-065D						670		470
DEC-066						2.1		2.3
DEC-066D						ND	ND	ND

Blank cell - Not Sampled.

ND - Not Detected.

TABLE 5-1
BASELINE GROUNDWATER MONITORING
FORMER KLINK COSMO CLEANERS SITE AREA

Sample Event	JUN 07	DEC 07	JUL 08	SEP 09	NOV 09	JUN 11	OCT 11	MAR 12
Parameter								
DEC-071							260	
DEC-088								1.7
DEC-088D								2.7
DEC-089								1.3
DEC-089D								ND
DEC-090								12
DEC-090D								1.8
DEC-091								ND
DEC-091D								0.6

Blank cell - Not Sampled.

ND - Not Detected.

**TABLE 5-1
BASELINE GROUNDWATER MONITORING
FORMER KLINK COSMO CLEANERS SITE AREA**

Sample Event	JUN 07	DEC 07	JUL 08	SEP 09	NOV 09	JUN 11	OCT 11	MAR 12
Parameter								
1,2-Dichloroethene - cis (µg/L)								
DEC-004	8.5	19	33	15		4.8	ND	ND
DEC-006D			82		ND	26	19	ND
DEC-006DD						16	ND	11
DEC-007		54	33		40	7.9	ND	10
DEC-007D						4.8	15	4.6
DEC-008	ND	34	14	17	15	41	39	22
DEC-009	45	41	51			51	28	36
DEC-010	9.3	8.9				8.5	11	8.1
DEC-011	ND	ND				ND	ND	ND
DEC-011D								ND
DEC-012	1.5	18	ND		ND	ND		0.9
DEC-013		100	49		47	13	ND	21
DEC-013D						2.1	ND	0.6
DEC-014D						1.6	2	1.1
DEC-014R						39	ND	17
DEC-015	11	11	6.5		4.7	8.8	15	19
DEC-015D						9.5	8.6	6.8
DEC-015R								27
DEC-022D		21	32			42		38
DEC-027		10	13			48	14	6.8
DEC-028		16	45		57	52	ND	27
DEC-028D								7.1
DEC-029		12	36		ND	8.2	ND	14
DEC-029D						ND	4.9	3.1
DEC-029TC							2.7	16
DEC-030		10	19		ND	25	ND	23
DEC-030D						4.7	6.3	0.9
DEC-031		34	ND		ND	17	ND	22
DEC-031D			ND		ND	ND	ND	ND
DEC-031TC							ND	ND
DEC-032		ND	ND		ND	ND		ND
DEC-033		ND			ND	ND		ND
DEC-039			14			24		23
DEC-042			21		13	6.3	8	15
DEC-043			ND		ND	ND	ND	ND
DEC-043D						ND	ND	ND
DEC-044			120		ND	2		ND
DEC-044D						ND		ND
DEC-045			5.2		1.5	ND		1.5
DEC-045D						ND		ND
DEC-046			ND		ND	ND		ND
DEC-046D								ND
DEC-047			ND			ND		ND
DEC-048			2		1.3	ND		ND
DEC-064						2.3	1.3	2.2
DEC-064D						2	1.7	1.1
DEC-065						ND		ND
DEC-065D						11		8.8
DEC-066						4.1		3.9
DEC-066D						ND		ND

Blank cell - Not Sampled.

ND - Not Detected.

TABLE 5-1
BASELINE GROUNDWATER MONITORING
FORMER KLINK COSMO CLEANERS SITE AREA

Sample Event	JUN 07	DEC 07	JUL 08	SEP 09	NOV 09	JUN 11	OCT 11	MAR 12
Parameter								
DEC-071							93	
DEC-088								1
DEC-088D								ND
DEC-089								1.5
DEC-089D								ND
DEC-090								9.2
DEC-090D								1.5
DEC-091								ND
DEC-091D								ND

Blank cell - Not Sampled.

ND - Not Detected.

TABLE 5-1
BASELINE GROUNDWATER MONITORING
FORMER KLINK COSMO CLEANERS SITE AREA

Sample Event	JUN 07	DEC 07	JUL 08	SEP 09	NOV 09	JUN 11	OCT 11	MAR 12
Parameter								
Vinyl chloride (µg/L)								
DEC-004	ND	ND	ND			1	ND	ND
DEC-006D			ND		ND	ND	ND	ND
DEC-006DD						ND	ND	ND
DEC-007		ND	ND		ND	ND	ND	ND
DEC-007D						ND	ND	ND
DEC-008	ND	ND	ND		ND	19	1.7	ND
DEC-009	25	25	28			54	36	37
DEC-010	ND	ND				ND	ND	ND
DEC-011	ND	ND				ND	ND	ND
DEC-011D								ND
DEC-012	ND	ND	ND		ND	ND		ND
DEC-013		ND	ND		ND	ND	ND	ND
DEC-013D						ND	ND	ND
DEC-014D						ND	ND	ND
DEC-014R						ND	ND	ND
DEC-015	ND	ND	ND		ND	ND	ND	ND
DEC-015D						ND	ND	ND
DEC-015R								ND
DEC-022D		ND	ND			ND		ND
DEC-027		ND	ND			ND	ND	ND
DEC-028		12	22		22	ND	ND	ND
DEC-028D								ND
DEC-029		ND	ND		ND	ND	ND	ND
DEC-029D						ND	ND	ND
DEC-029TC							ND	ND
DEC-030		ND	ND		ND	ND	ND	ND
DEC-030D						ND	ND	ND
DEC-031		ND	ND		ND	ND	ND	ND
DEC-031D			ND		ND	ND	ND	ND
DEC-031TC							ND	ND
DEC-032		ND	ND		ND	ND		ND
DEC-033		ND			ND	ND		ND
DEC-039			ND			ND		ND
DEC-042			ND		ND	ND	ND	ND
DEC-043			ND		ND	ND	ND	ND
DEC-043D						ND	ND	ND
DEC-044			ND		ND	ND		ND
DEC-044D						ND		ND
DEC-045			ND		ND	ND		ND
DEC-045D						ND		ND
DEC-046			ND		ND	ND		ND
DEC-046D								ND
DEC-047			ND			ND		ND
DEC-048			ND		ND	ND		ND
DEC-064						ND	ND	ND
DEC-064D						ND	ND	ND
DEC-065						ND		ND
DEC-065D						ND		ND
DEC-066						ND		ND
DEC-066D						ND		ND

Blank cell - Not Sampled.

ND - Not Detected.

TABLE 5-1
BASELINE GROUNDWATER MONITORING
FORMER KLINK COSMO CLEANERS SITE AREA

Sample Event	JUN 07	DEC 07	JUL 08	SEP 09	NOV 09	JUN 11	OCT 11	MAR 12
Parameter								
DEC-071							ND	
DEC-088								ND
DEC-088D								ND
DEC-089								ND
DEC-089D								ND
DEC-090								ND
DEC-090D								ND
DEC-091								ND
DEC-091D								ND

Blank cell - Not Sampled.

ND - Not Detected.

TABLE 5-1
BASELINE GROUNDWATER MONITORING
FORMER KLINK COSMO CLEANERS SITE AREA

Sample Event	JUN 07	DEC 07	JUL 08	SEP 09	NOV 09	JUN 11	OCT 11	MAR 12
Parameter								
Ethene (µg/L)								
DEC-004							ND	
DEC-006D							ND	
DEC-006DD							ND	
DEC-007							ND	
DEC-007D							ND	
DEC-008							ND	
DEC-009							4.2	
DEC-010							ND	
DEC-011							ND	
DEC-011D								
DEC-012								
DEC-013							ND	
DEC-013D							ND	
DEC-014D							ND	
DEC-014R							2	
DEC-015							ND	
DEC-015D							ND	
DEC-015R								
DEC-022D								
DEC-027							1.3	
DEC-028							ND	
DEC-028D								
DEC-029							ND	
DEC-029D							ND	
DEC-029TC							9.9	
DEC-030							ND	
DEC-030D							ND	
DEC-031							ND	
DEC-031D							ND	
DEC-031TC							0.52	
DEC-032								
DEC-033								
DEC-039								
DEC-042							ND	
DEC-043							ND	
DEC-043D							ND	
DEC-044								
DEC-044D								
DEC-045								
DEC-045D								
DEC-046								
DEC-046D								
DEC-047								
DEC-048								
DEC-064							ND	
DEC-064D							ND	
DEC-065								
DEC-065D								
DEC-066								
DEC-066D								

Blank cell - Not Sampled.

ND - Not Detected.

TABLE 5-1
BASELINE GROUNDWATER MONITORING
FORMER KLINK COSMO CLEANERS SITE AREA

Sample Event	JUN 07	DEC 07	JUL 08	SEP 09	NOV 09	JUN 11	OCT 11	MAR 12
Parameter								
DEC-071							8.1	
DEC-088								
DEC-088D								
DEC-089								
DEC-089D								
DEC-090								
DEC-090D								
DEC-091								
DEC-091D								

Blank cell - Not Sampled.

ND - Not Detected.

TABLE 5-1
BASELINE GROUNDWATER MONITORING
FORMER KLINK COSMO CLEANERS SITE AREA

Sample Event	JUN 07	DEC 07	JUL 08	SEP 09	NOV 09	JUN 11	OCT 11	MAR 12
Parameter								
Ferrous Iron (mg/L)								
DEC-004							1.45	
DEC-006D							0.06	
DEC-006DD							ND	
DEC-007							0.09	
DEC-007D							ND	
DEC-008							0.09	
DEC-009							2.51	
DEC-010							0.02	
DEC-011							0.06	
DEC-011D								
DEC-012								
DEC-013							0.04	
DEC-013D							0.35	
DEC-014D							0.14	
DEC-014R							0.66	
DEC-015							0.1	
DEC-015D							0.03	
DEC-015R								
DEC-022D								
DEC-027							0.02	
DEC-028							0.01	
DEC-028D								
DEC-029							0.07	
DEC-029D							0.26	
DEC-029TC							29.1	
DEC-030							ND	
DEC-030D							ND	
DEC-031							0.34	
DEC-031D							0.18	
DEC-031TC							10.1	
DEC-032								
DEC-033								
DEC-039								
DEC-042							0.03	
DEC-043							0.07	
DEC-043D							0.26	
DEC-044								
DEC-044D								
DEC-045								
DEC-045D								
DEC-046								
DEC-046D								
DEC-047								
DEC-048								
DEC-064							0.02	
DEC-064D							ND	
DEC-065								
DEC-065D								
DEC-066								
DEC-066D								

Blank cell - Not Sampled.

ND - Not Detected.

TABLE 5-1
BASELINE GROUNDWATER MONITORING
FORMER KLINK COSMO CLEANERS SITE AREA

Sample Event	JUN 07	DEC 07	JUL 08	SEP 09	NOV 09	JUN 11	OCT 11	MAR 12
Parameter								
DEC-071							2.54	
DEC-088								
DEC-088D								
DEC-089								
DEC-089D								
DEC-090								
DEC-090D								
DEC-091								
DEC-091D								

Blank cell - Not Sampled.

ND - Not Detected.

TABLE 5-1
BASELINE GROUNDWATER MONITORING
FORMER KLINK COSMO CLEANERS SITE AREA

Sample Event	JUN 07	DEC 07	JUL 08	SEP 09	NOV 09	JUN 11	OCT 11	MAR 12
Parameter								
Oxidation Reduction Potential (Eh)								
DEC-004	-163	-140	-135			-46	-51	8
DEC-006D			-91		104	133	132	215
DEC-006DD						72	150	209
DEC-007		-27	72		201	192	150	171
DEC-007D						68	79	85
DEC-008	-75	-40	122		120	117	52	73
DEC-009	-23	-25	-48			-28	-28	35
DEC-010	99	152	152			204	248	187
DEC-011	200	128				193	210	242
DEC-011D								-69
DEC-012	-35	36	104		161	153		170
DEC-013		59	148		180	155	208	208
DEC-013D						-38	4	41
DEC-014D						23	72	63
DEC-014R						-35	59	157
DEC-015	97	107	97		200	185	172	217
DEC-015D						42	129	150
DEC-015R								160
DEC-022D		-183	4			147		149
DEC-027		-169	-21			225	190	213
DEC-028		12	92		208	177	152	184
DEC-028D								-47
DEC-029		-19	109		188	178	163	175
DEC-029D						55	44	75
DEC-029TC							-71	-63
DEC-030		155	138		212	197	241	205
DEC-030D						32	190	143
DEC-031		165	131		152	142	215	138
DEC-031D			-103		-14	7	56	45
DEC-031TC							-90	-100
DEC-032		-147	-122		-26	-46		14
DEC-033		80			136	64		111
DEC-039			64			237		208
DEC-042			76		214	178	163	240
DEC-043			-79		142	172	79	193
DEC-043D						-46	18	-23
DEC-044			-149		155	150		210
DEC-044D						29		39
DEC-045			-170		129	192		180
DEC-045D						2		50
DEC-046			-103		177	247		162
DEC-046D								7
DEC-047			-117			89		59
DEC-048			-189		-64	55		7
DEC-064						63	194	164
DEC-064D						105	120	182
DEC-065						-140		205
DEC-065D						57		100
DEC-066						-27		40
DEC-066D						39		120

Blank cell - Not Sampled.

ND - Not Detected.

TABLE 5-1
BASELINE GROUNDWATER MONITORING
FORMER KLINK COSMO CLEANERS SITE AREA

Sample Event	JUN 07	DEC 07	JUL 08	SEP 09	NOV 09	JUN 11	OCT 11	MAR 12
Parameter								
DEC-071							-29	
DEC-088								179
DEC-088D								-73
DEC-089								44
DEC-089D								80
DEC-090								36
DEC-090D								-22
DEC-091								-5
DEC-091D								-87

Blank cell - Not Sampled.

ND - Not Detected.

TABLE 5-1
BASELINE GROUNDWATER MONITORING
FORMER KLINK COSMO CLEANERS SITE AREA

Sample Event	JUN 07	DEC 07	JUL 08	SEP 09	NOV 09	JUN 11	OCT 11	MAR 12
Parameter								
Sulfate (as SO₄) (mg/L)								
DEC-004							160	170
DEC-006D							96.2	100
DEC-006DD							165	160
DEC-007							98.3	90
DEC-007D							162	130
DEC-008							145	110
DEC-009							156	140
DEC-010							406	380
DEC-011							49.6	53
DEC-011D								29
DEC-012								71
DEC-013							118	78
DEC-013D							104	120
DEC-014D							135	120
DEC-014R							87.5	100
DEC-015							144	130
DEC-015D							137	110
DEC-015R								110
DEC-022D								98
DEC-027							87	82
DEC-028							125	86
DEC-028D								330
DEC-029							89.4	84
DEC-029D							173	170
DEC-029TC							726	720
DEC-030							132	130
DEC-030D							224	160
DEC-031							32.6	48
DEC-031D							233	210
DEC-031TC							6	2.6
DEC-032								10
DEC-033								150
DEC-039								120
DEC-042							85.4	96
DEC-043							62.2	69
DEC-043D							127	110
DEC-044								36
DEC-044D								360
DEC-045								36
DEC-045D								170
DEC-046								78
DEC-046D								220
DEC-047								110
DEC-048								85
DEC-064							122	100
DEC-064D							173	140
DEC-065								57
DEC-065D								150
DEC-066								23
DEC-066D								190

Blank cell - Not Sampled.

ND - Not Detected.

TABLE 5-1
BASELINE GROUNDWATER MONITORING
FORMER KLINK COSMO CLEANERS SITE AREA

Sample Event	JUN 07	DEC 07	JUL 08	SEP 09	NOV 09	JUN 11	OCT 11	MAR 12
Parameter								
DEC-071							313	
DEC-088								88
DEC-088D								120
DEC-089								78
DEC-089D								200
DEC-090								42
DEC-090D								150
DEC-091								4.7
DEC-091D								85

Blank cell - Not Sampled.

ND - Not Detected.

TABLE 5-1
BASELINE GROUNDWATER MONITORING
FORMER KLINK COSMO CLEANERS SITE AREA

Sample Event	JUN 07	DEC 07	JUL 08	SEP 09	NOV 09	JUN 11	OCT 11	MAR 12
Parameter								
Total Organic Carbon (mg/L)								
DEC-004							4.9	
DEC-006D							0.85	
DEC-006DD							0.73	
DEC-007							ND	
DEC-007D							1.3	
DEC-008							1.4	
DEC-009							2.8	
DEC-010							ND	
DEC-011							ND	
DEC-011D								
DEC-012								
DEC-013							1.9	
DEC-013D							4.1	
DEC-014D							ND	
DEC-014R							1.8	
DEC-015							3.4	
DEC-015D							2.1	
DEC-015R								
DEC-022D								
DEC-027							1.7	
DEC-028							2.5	
DEC-028D								
DEC-029							1.5	
DEC-029D							1.4	
DEC-029TC							3	
DEC-030							2.2	
DEC-030D							1.3	
DEC-031							0.78	
DEC-031D							ND	
DEC-031TC							2.3	
DEC-032								
DEC-033								
DEC-039								
DEC-042							0.61	
DEC-043							ND	
DEC-043D							1.2	
DEC-044								
DEC-044D								
DEC-045								
DEC-045D								
DEC-046								
DEC-046D								
DEC-047								
DEC-048								
DEC-064							1.6	
DEC-064D							0.81	
DEC-065								
DEC-065D								
DEC-066								
DEC-066D								

Blank cell - Not Sampled.

ND - Not Detected.

TABLE 5-1
BASELINE GROUNDWATER MONITORING
FORMER KLINK COSMO CLEANERS SITE AREA

Sample Event	JUN 07	DEC 07	JUL 08	SEP 09	NOV 09	JUN 11	OCT 11	MAR 12
Parameter								
DEC-071							2.3	
DEC-088								
DEC-088D								
DEC-089								
DEC-089D								
DEC-090								
DEC-090D								
DEC-091								
DEC-091D								

Blank cell - Not Sampled.

ND - Not Detected.

TABLE 5-1
BASELINE GROUNDWATER MONITORING
FORMER KLINK COSMO CLEANERS SITE AREA

Sample Event	JUN 07	DEC 07	JUL 08	SEP 09	NOV 09	JUN 11	OCT 11	MAR 12
Parameter								
Dissolved Oxygen (mg/L)								
DEC-004	0	0.5	0			14.25	0.39	0.65
DEC-006D			0		0.93	2.07	1.06	1.71
DEC-006DD						0.68	0.53	2.39
DEC-007		0	0		1.43	5.13	5.53	1.83
DEC-007D						0.47	0.38	0.28
DEC-008	0	0.6	0		120	16.55	163	6.52
DEC-009	0	0	0			7.6	0.69	0.71
DEC-010	0.75	2.24	2.24			9.75	2.4	2.54
DEC-011	2.21	6.68				14.9	7.85	4.31
DEC-011D								5.3
DEC-012	0	1.88	0.11		2.22	16.19		3.41
DEC-013		0	0.19		0.52	12.44	1.67	0.88
DEC-013D						12.18	0.45	5.87
DEC-014D						1.58	0.44	5.72
DEC-014R						7.46	1.08	1.41
DEC-015	0.59	2.45	0		1.81	3.09	4.67	6.41
DEC-015D						0.51	0.34	6.67
DEC-015R								5.75
DEC-022D		0.54	0			5.95		5.02
DEC-027		0.5	3.17			6.31	0.43	0.63
DEC-028		0.54	0		0.68	4.23	0.63	0.53
DEC-028D								5.35
DEC-029		2.18	0.65		1.04	13	3.61	1.84
DEC-029D						7.26	3.2	5.33
DEC-029TC							0.15	0.23
DEC-030		2.4	4.27		2.9	12.52	6.95	4.61
DEC-030D						7.1	0.63	0.46
DEC-031		0	0		0.34	8.57	0.66	1.16
DEC-031D			0		0.66	10.33	0.3	0.32
DEC-031TC							0.17	0.18
DEC-032		0.49	0		0.37	5.82		4.3
DEC-033		4.45			1.45	NR		7.24
DEC-039			0			8.67		0.88
DEC-042			0		1.36	14.73	3.41	3.4
DEC-043			0.74		0.63	5.27	6.41	2.25
DEC-043D						10.73	1.57	5.26
DEC-044			0		3.86	17.9		3.38
DEC-044D						10.71		0.4
DEC-045			0		0.49	12.94		1.1
DEC-045D						10.87		5.92
DEC-046			0		2.57	7.18		5.38
DEC-046D								2.81
DEC-047			1.37			4.05		1.44
DEC-048			0		0.6	1.47		2.58
DEC-064						2.95	2.46	9.24
DEC-064D						2.54	4.22	0.56
DEC-065						12.06		5.02
DEC-065D						11.52		0.41
DEC-066						NR		0.52
DEC-066D						0.99		0.72

Blank cell - Not Sampled.

ND - Not Detected.

TABLE 5-1
BASELINE GROUNDWATER MONITORING
FORMER KLINK COSMO CLEANERS SITE AREA

Sample Event	JUN 07	DEC 07	JUL 08	SEP 09	NOV 09	JUN 11	OCT 11	MAR 12
Parameter								
DEC-071							0.36	
DEC-088								10.26
DEC-088D								1.06
DEC-089								2.2
DEC-089D								9.54
DEC-090								0.71
DEC-090D								6.02
DEC-091								0.58
DEC-091D								6.51

Blank cell - Not Sampled.

ND - Not Detected.

TABLE 5-1
BASELINE GROUNDWATER MONITORING
FORMER KLINK COSMO CLEANERS SITE AREA

Sample Event	JUN 07	DEC 07	JUL 08	SEP 09	NOV 09	JUN 11	OCT 11	MAR 12
Parameter								
Chloride (mg/L)								
DEC-004								120
DEC-006D								160
DEC-006DD								160
DEC-007								130
DEC-007D								230
DEC-008								280
DEC-009								220
DEC-010								220
DEC-011								380
DEC-011D								53
DEC-012								140
DEC-013								56
DEC-013D								250
DEC-014D								240
DEC-014R								340
DEC-015								460
DEC-015D								250
DEC-015R								450
DEC-022D								210
DEC-027								200
DEC-028								230
DEC-028D								220
DEC-029								210
DEC-029D								250
DEC-029TC								2500
DEC-030								310
DEC-030D								210
DEC-031								130
DEC-031D								250
DEC-031TC								180
DEC-032								200
DEC-033								900
DEC-039								200
DEC-042								190
DEC-043								68
DEC-043D								220
DEC-044								40
DEC-044D								280
DEC-045								160
DEC-045D								220
DEC-046								160
DEC-046D								170
DEC-047								410
DEC-048								140
DEC-064								390
DEC-064D								250
DEC-065								140
DEC-065D								240
DEC-066								110
DEC-066D								230

Blank cell - Not Sampled.

ND - Not Detected.

TABLE 5-1
BASELINE GROUNDWATER MONITORING
FORMER KLINK COSMO CLEANERS SITE AREA

Sample Event	JUN 07	DEC 07	JUL 08	SEP 09	NOV 09	JUN 11	OCT 11	MAR 12
Parameter								
DEC-071								
DEC-088								160
DEC-088D								160
DEC-089								53
DEC-089D								220
DEC-090								73
DEC-090D								240
DEC-091								160
DEC-091D								150

Blank cell - Not Sampled.

ND - Not Detected.

**TABLE 5-1
BASELINE GROUNDWATER MONITORING
FORMER KLINK COSMO CLEANERS SITE AREA**

Sample Event	JUN 07	DEC 07	JUL 08	SEP 09	NOV 09	JUN 11	OCT 11	MAR 12
Parameter								
pH (S.U.)								
DEC-004	6.96	6.52	6.44			7.41	6.67	6.79
DEC-006D			7.82		6.43	6.40	6.64	6.08
DEC-006DD						6.44	6.48	6.14
DEC-007			6.38		6.37	6.82	6.73	6.42
DEC-007D						6.67	6.63	6.29
DEC-008	6.35	6.26	6.01		6.41	7.13	6.70	6.75
DEC-009	6.59	6.59	6.26			6.84	6.33	6.32
DEC-010	6.01	5.98				6.29	5.82	5.95
DEC-011	6.29	6.30				6.60	6.09	6.02
DEC-011D								6.00
DEC-012	6.17	6.38	5.57		6.19	6.78		6.32
DEC-013		6.72	6.61		6.33	7.09	6.12	6.16
DEC-013D						6.92	6.22	6.61
DEC-014D						6.64	6.19	6.60
DEC-014R						6.65	6.11	6.22
DEC-015	6.90	6.75	6.18		6.72	6.87	6.88	6.85
DEC-015D						6.78	6.69	6.74
DEC-015R								6.67
DEC-022D		6.94	6.86			7.02		6.66
DEC-027		6.41	6.39			6.65	6.12	5.92
DEC-028		6.74	6.43		6.53	6.83	6.36	6.31
DEC-028D								6.59
DEC-029		6.38	6.27		6.13	7.29	6.54	6.31
DEC-029D						6.80	6.59	6.62
DEC-029TC							6.28	6.35
DEC-030		6.28	5.68		5.99	6.36	5.87	6.26
DEC-030D						6.47	6.09	6.37
DEC-031		6.32	5.74		6.07	6.57	6.19	6.22
DEC-031D			5.82		6.10	6.46	6.08	6.17
DEC-031TC							6.42	6.57
DEC-032		6.27	7.47		6.57	7.18		6.65
DEC-033		5.98			6.21	6.55		6.12
DEC-039			6.28			6.69		6.18
DEC-042			6.26		6.30	6.95	6.53	6.28
DEC-043			6.51		6.45	6.84	6.80	6.53
DEC-043D						6.90	6.66	6.77
DEC-044			6.09		5.89	6.65		5.89
DEC-044D						6.76		6.14
DEC-045			9.05		6.43	6.72		6.36
DEC-045D						6.76		6.72
DEC-046			7.22		6.30	6.72		6.62
DEC-046D								6.33
DEC-047			6.30			6.54		6.09
DEC-048			6.51		6.42	6.64		6.30
DEC-064						6.65	6.26	6.49
DEC-064D						6.41	6.41	6.16
DEC-065						7.28		6.13
DEC-065D						6.62		6.10
DEC-066						6.96		6.63
DEC-066D						6.54		6.27

Blank cell - Not Sampled.

ND - Not Detected.

TABLE 5-1
BASELINE GROUNDWATER MONITORING
FORMER KLINK COSMO CLEANERS SITE AREA

Sample Event	JUN 07	DEC 07	JUL 08	SEP 09	NOV 09	JUN 11	OCT 11	MAR 12
Parameter								
DEC-071							6.23	
DEC-088								6.61
DEC-088D								6.45
DEC-089								6.23
DEC-089D								6.55
DEC-090								6.39
DEC-090D								6.64
DEC-091								6.64
DEC-091D								6.60

Blank cell - Not Sampled.

ND - Not Detected.

TABLE 6-1
CONTAMINANTS OF POTENTIAL CONCERN
FORMER KLINK COSMO SITE

Parameter	Matrix		
	Subsurface Soil	Groundwater	Soil Vapor
Volatile Organic Compounds			
1,1-Dichloroethene	--	X	X
1,2-Dichloroethane	X	--	--
1,2-Dichloroethene (cis)	X	X	X
1,2-Dichloroethene (trans)	X	X	X
Acetone	X	--	X
Benzene	X	X	X
Chlorobenzene	--	X	--
Ethylbenzene	X	X	X
Isopropylbenzene	--	X	X
Methyl tert-butyl ether	--	X	X
Tetrachloroethene	X	X	X
Toluene	X	X	X
Trichloroethene	X	X	X
Vinyl chloride	X	X	X
Xylene	X	X	X
Semivolatile Organic Compounds			
1,1'-Biphenyl	--	X	NA
2,4-Dimethylphenol	--	X	NA
2-Methylphenol (o-cresol)	X	X	NA
3&4-Methylphenol (m,p-cresol)	X	X	NA
3,3'-Dichlorobenzidine	--	X	NA
Acenaphthene	X	X	NA
Acenaphthylene	X	--	NA
Anthracene	X	--	NA
Benzo(a)anthracene	X	--	NA
Benzo(a)pyrene	X	--	NA
Benzo(b)fluoranthene	X	--	NA
Benzo(g,h,i)perylene	X	--	NA
Benzo(k)fluoranthene	X	--	NA
Chrysene	X	--	NA
Diben(a,h)anthracene	X	--	NA
Dibenzofuran	X	--	NA
Fluoranthene	X	--	NA
Fluorene	X	--	NA
Indeno(1,2,3-cd)pyrene	X	--	NA
Naphthalene	X	X	NA
Phenanthrene	X	--	NA
Phenol	X	X	NA
Pyrene	X	--	NA

NA - Not analyzed.

-- - Not detected above the applicable standard, criteria or guidance value.

**TABLE 6-2
POTENTIAL PATHWAYS OF EXPOSURE
CURRENT USE SCENARIOS
FORMER KLINK COSMO SITE**

Potentially Contaminated Medium	Potential Routes of Exposure	Potential Receptors	Potential Pathway Complete
Surface Soil	None	None	No. There is no surface soil at the site. All soil is covered by the building, pavement or sidewalks.
Subsurface Soil	Dermal absorption, ingestion.	Construction workers	No. No CPCs in soil at this site.
Soil Vapor/Indoor Air	Inhalation of VOCs from soil vapor.	Construction workers	Yes. Disturbance of soil vapors may occur during intrusive activities.
	Inhalation of VOCs from soil vapor beneath onsite building.	Onsite employees	Yes. There is potential for VOCs to migrate from the subsurface into the building through the vapor phase.
	Inhalation of VOCs from soil vapor beneath homes.	Public	Yes. There is potential for VOCs to migrate from the subsurface into homes through the vapor phase.
Outdoor Air	Inhalation of VOCs from soil or fugitive dust.	Public	No. No CPCs in soil at this site.
Groundwater	Dermal absorption, inhalation.	Construction workers	No. Groundwater level > 11 feet bgs would not impact disturbance of subsurface soil during intrusive activities.
	Ingestion.	Onsite employees, public	No. No current potable water use at or near site.

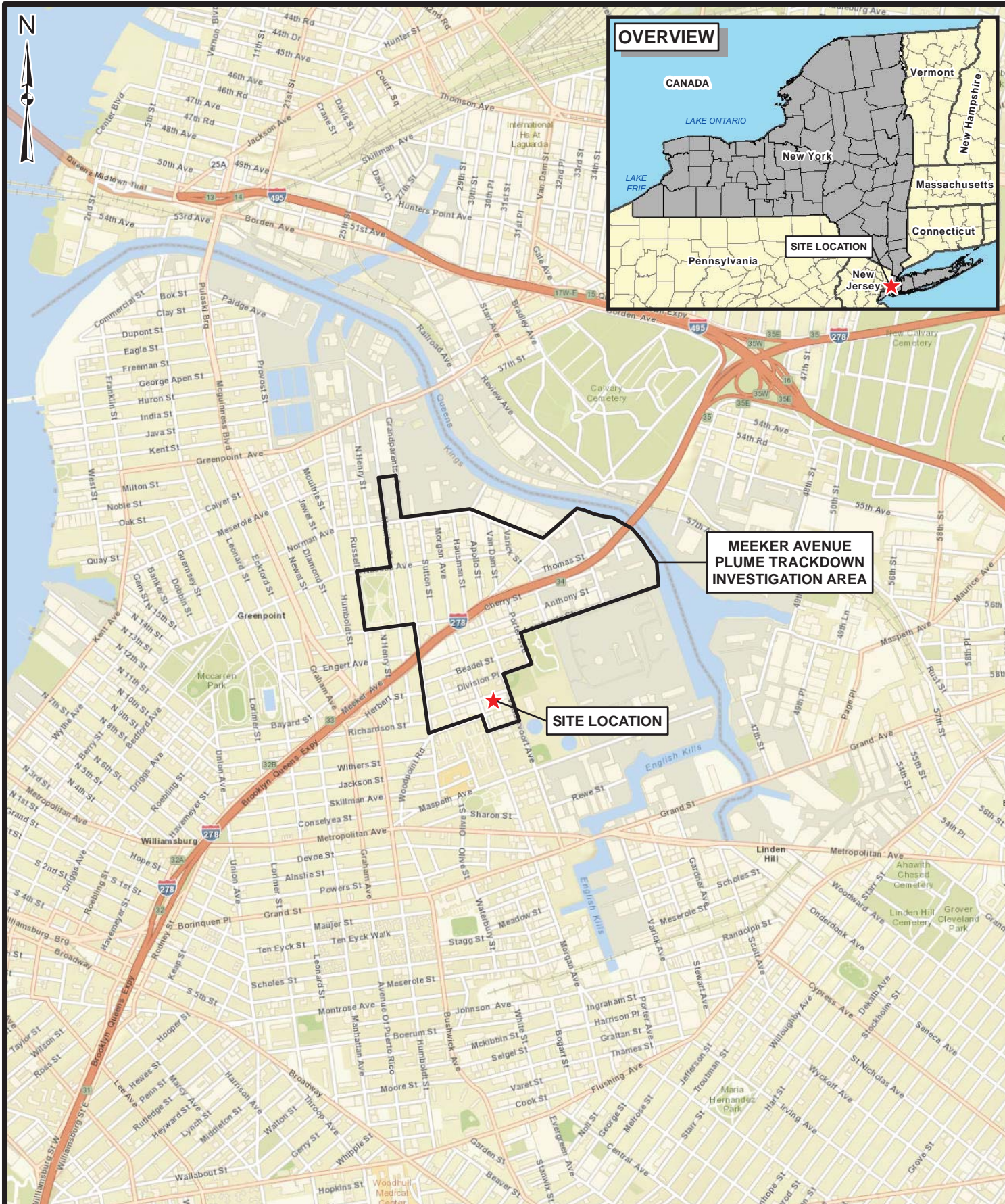
**TABLE 6-3
POTENTIAL PATHWAYS OF EXPOSURE
FUTURE USE SCENARIO
FORMER KLINK COSMO SITE**

Potentially Contaminated Medium	Potential Routes of Exposure	Potential Receptors	Potential Pathway Complete
Surface Soil	None	None	No. There is no surface soil at the site. All soil is covered by the building, pavement or sidewalks.
Subsurface Soil	Dermal absorption, ingestion.	Construction workers	No. No CPCs in soil at this site.
Soil Vapor/Indoor Air	Inhalation of VOCs from soil vapor.	Construction workers	Yes. Disturbance of soil vapors may occur during intrusive activities.
	Inhalation of VOCs from soil vapor beneath onsite building.	Onsite employees	Yes. There is potential for VOCs to migrate from the subsurface into the building through the vapor phase.
	Inhalation of VOCs from soil vapor beneath homes.	Public	Yes. There is potential for VOCs to migrate from the subsurface into homes through the vapor phase.
Outdoor Air	Inhalation of VOCs from soil or fugitive dust.	Public	No. No CPCs in soil at this site.
Groundwater	Dermal absorption, inhalation.	Construction workers	No. Groundwater level > 11 feet bgs would not impact disturbance of subsurface soil during potential future intrusive activities.
	Ingestion.	Onsite employees, Public	No. Due to existing public water supply systems in the area, no potable water use at or near the site is anticipated.

TABLE 7-1
PROPOSED MONITORING WELL LOCATION RATIONALE FOR THE
FORMER KLINK COSMO CLEANERS SITE

Location ID	Type	Rationale
DEC-006TC	Top of Clay	Assess the horizontal extent of PCE and TCE at the top of the Raritan Formation. This well will also assist in the assessment of the contributions at the top of the Raritan Formation of PCE and TCE from the Klink Cosmo Site and the ACME Sites.

FIGURES



Source: ESRI World Street Map





FORMER KLINK COSMO CLEANERS SITE
SITE LOCATION

FIGURE 1-1

J:\1174989.000001\B\GIS\KlinkCosmo-Report\Phase 201-02 Site Plan.mxd 10/9/2012 MDL



Legend

-  Source Area
-  Potential PCE/TCE Source Area

Source: Bing Maps Aerial © 2010 Microsoft Corporation

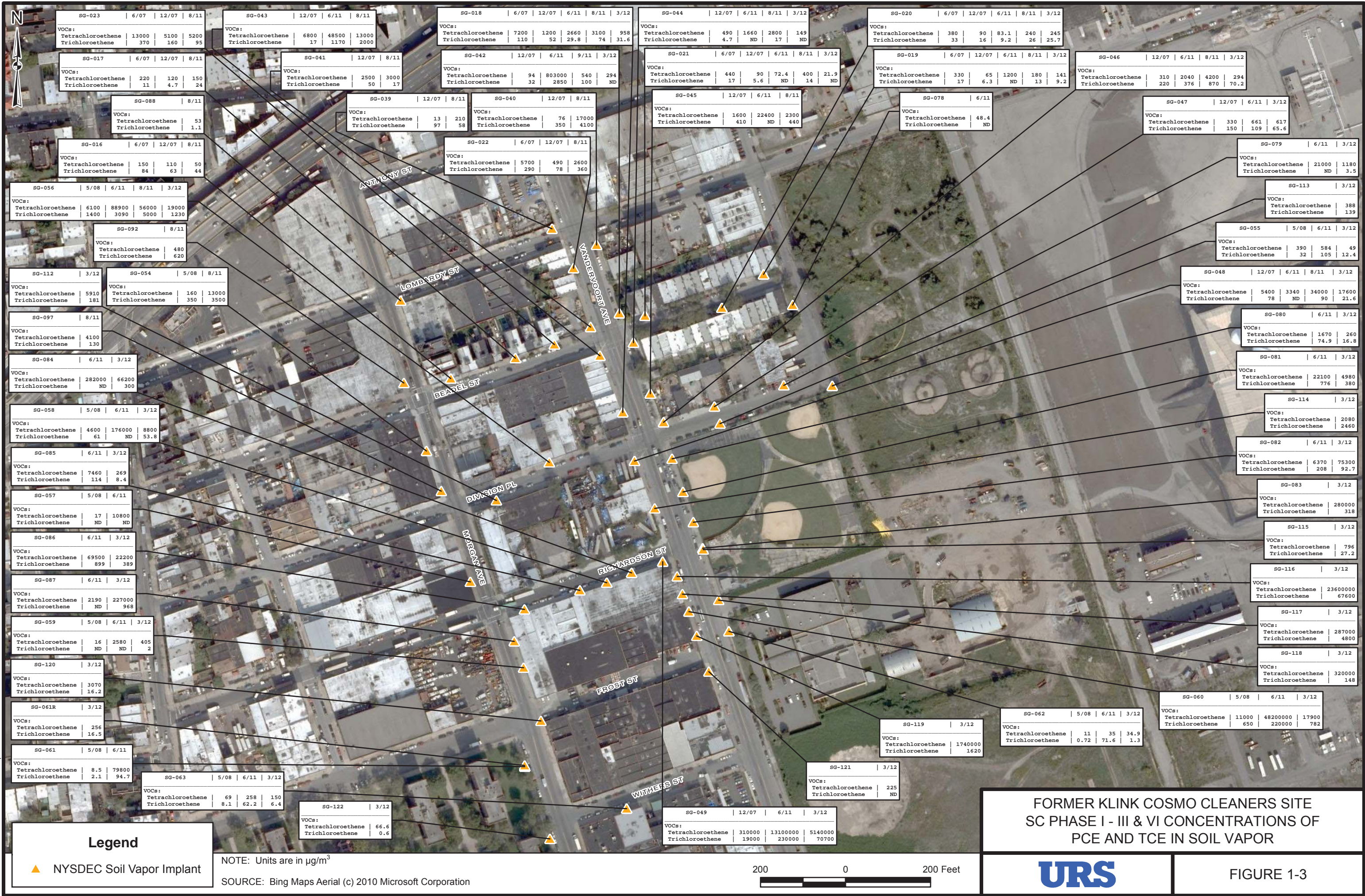


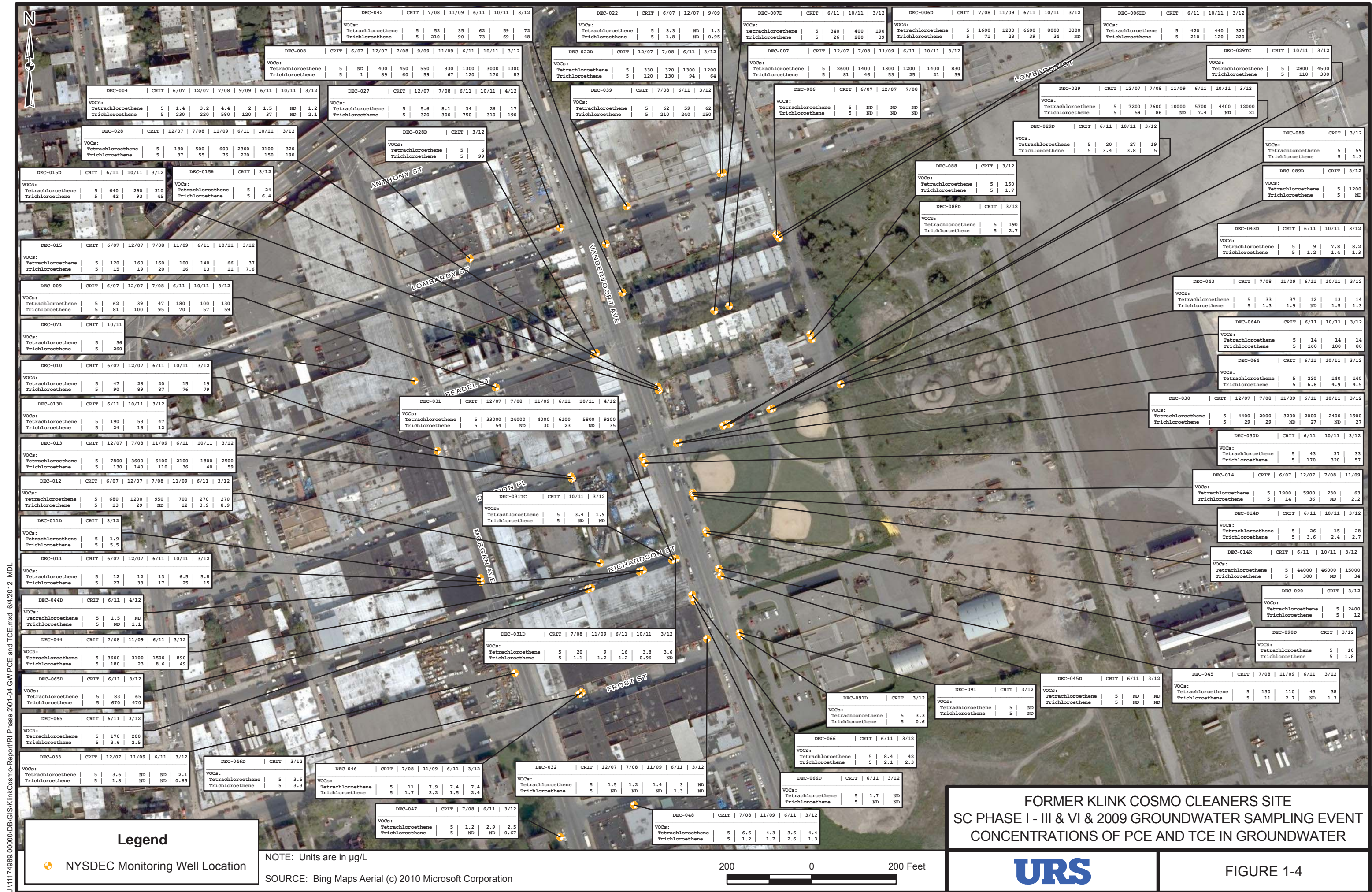
**FORMER KLINK COSMO CLEANERS SITE
SITE PLAN AND POTENTIAL SOURCE AREAS**



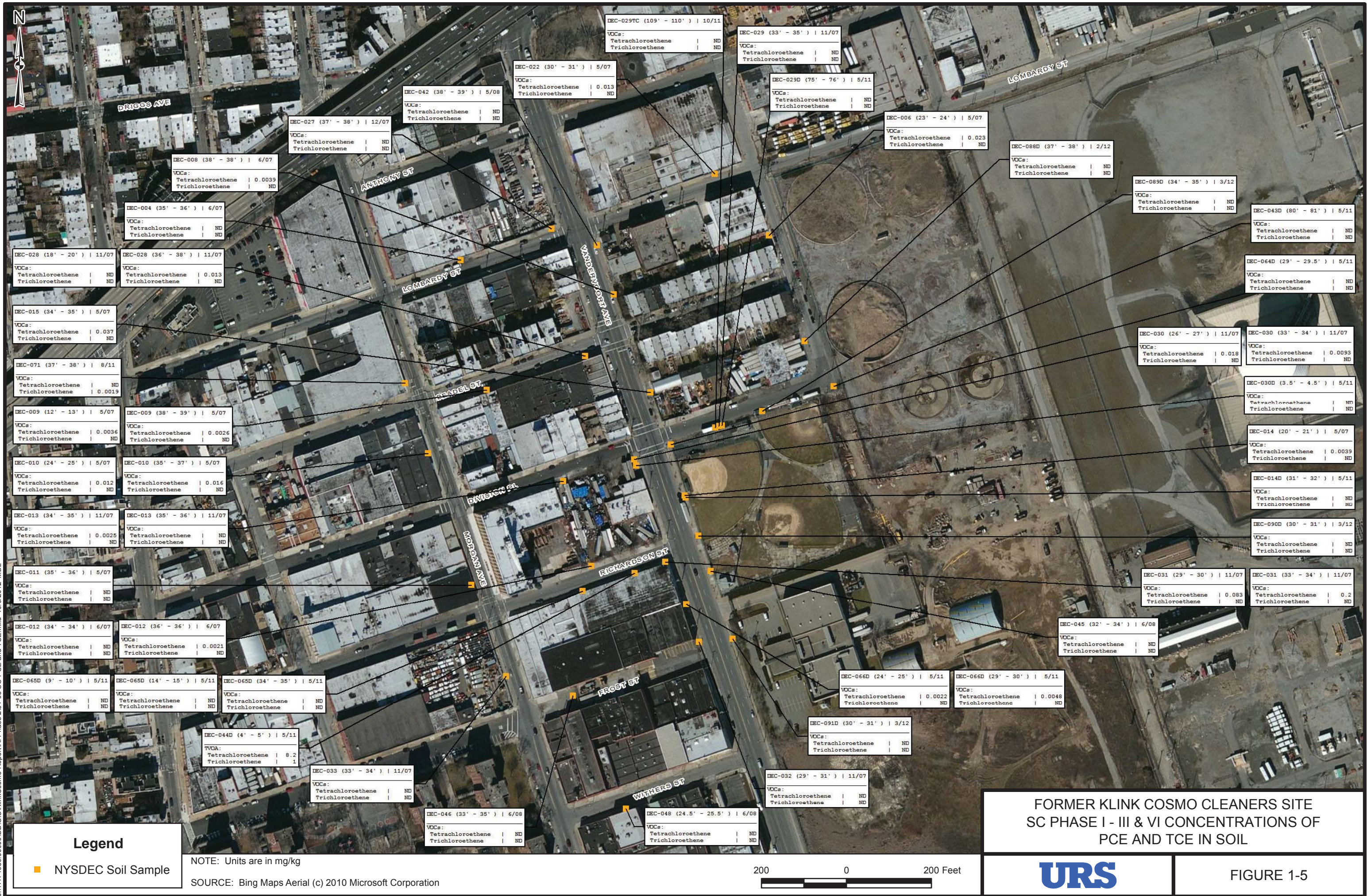
FIGURE 1-2

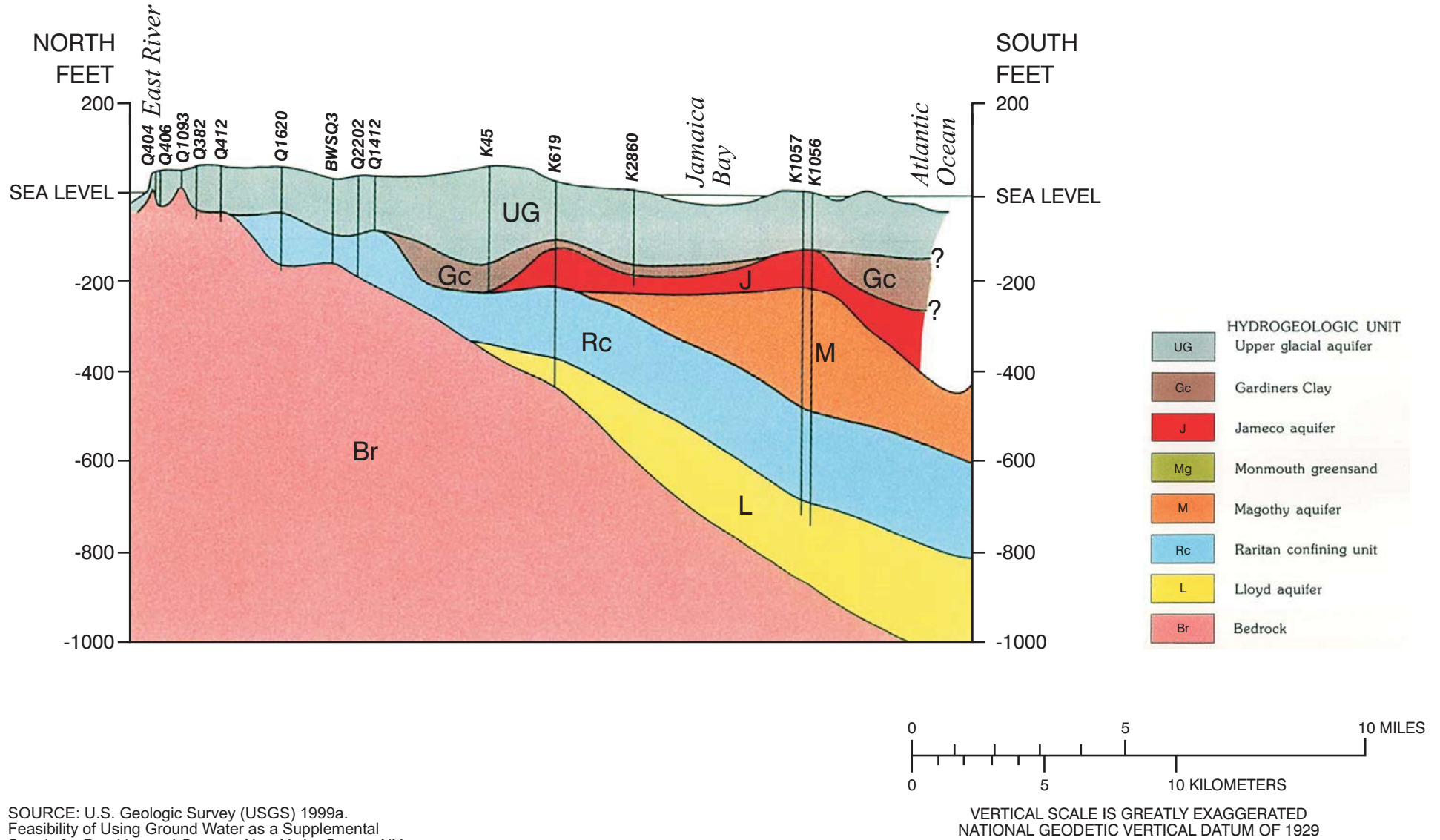
J:\1174989.0000\DB\GIS\KlinkCosmo-Report\RI Phase 201-03 SG PCE and TCE.mxd 8/2/2012 MDL





J:\1174989.0000\DB\GIS\KlinkCosmo-Report\Phase 201-05 SO PCE and TCE.mxd 10/9/2012 MDL





SOURCE: U.S. Geologic Survey (USGS) 1999a.
Feasibility of Using Ground Water as a Supplemental
Supply for Brooklyn and Queens, New York. Coram, NY.

URS

FORMER KLINK COSMO CLEANERS SITE
REGIONAL GEOLOGIC CROSS-SECTION

FIGURE 3-1

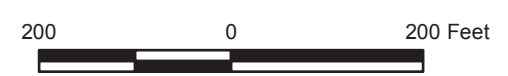
J:\1174989.0000\B\GIS\KlinkCosmo-Report\Phase 203-02 MW and Cross-Section Locations.mxd 7/12/2012 MDL



Legend

- ExxonMobil Monitoring Well
- NYSDEC Monitoring Well Location
- Soil Boring Location
- Cross-Section Location

Source: Bing Maps Aerial © 2010 Microsoft Corporation



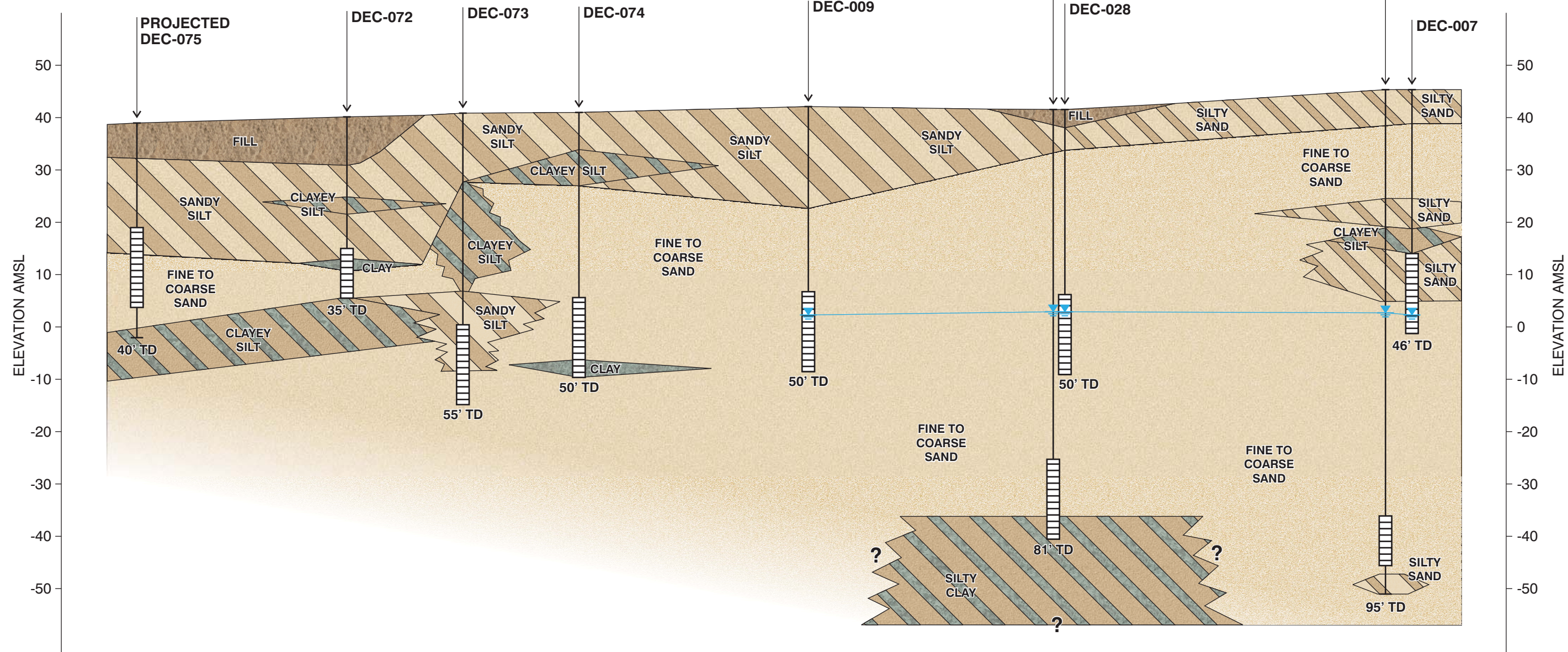
FORMER KLINK COSMO CLEANERS SITE
MONITORING WELL AND
CROSS SECTION LOCATIONS



FIGURE 3-2

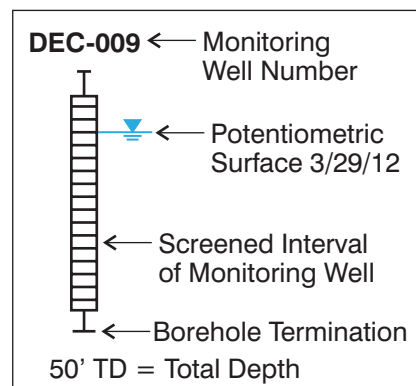
WEST
A

EAST
A'



- | | | |
|-------------------------------|------------------------|------------|
| Fill | Silty Sand | Sandy Silt |
| Fine Sand or Fine-Coarse Sand | Clayey Silt/Silty Clay | Clay |

- NOTES:
1. Geologic conditions shown are representative of conditions encountered at each boring location to the depth drilled. Extrapolations between borings have been interpreted using standardly accepted geologic practices and principles. Actual conditions may vary between borings from those shown.
 2. Elevations based on North American Vertical Datum, 1988.
 3. Water levels not taken at DEC-072, DEC-073, DEC-074, and DEC-075 on 3/29/12.



Horizontal Scale: 1" = 100'
Vertical Scale: 1" = 20'
5x Vertical Exaggeration

Revised: June 2012

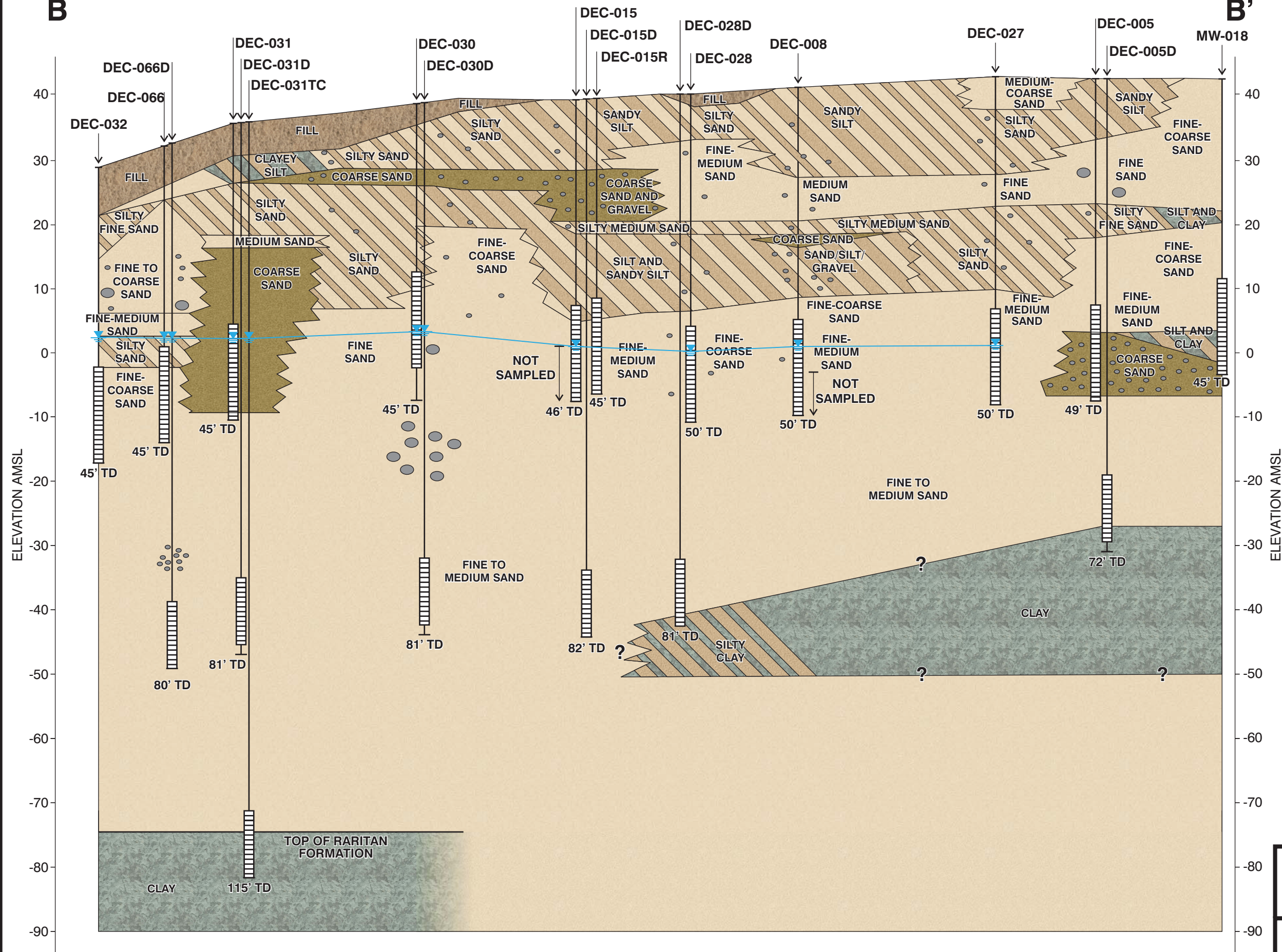
FORMER KLINK COSMO
CLEANERS SITE
CROSS SECTION A - A'

URS

FIGURE 3-3

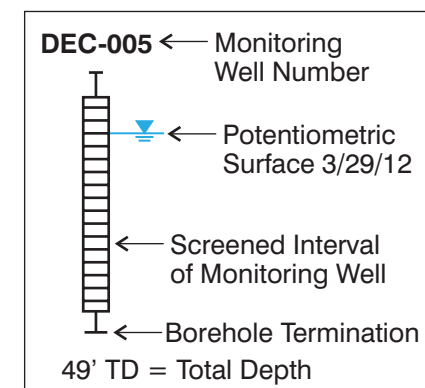
SOUTH
B

NORTH
B'



Not To Scale

Revised: June 2012



- NOTES:
1. Geologic conditions shown are representative of conditions encountered at each boring location to the depth drilled. Extrapolations between borings have been interpreted using standardly accepted geologic practices and principles. Actual conditions may vary between borings from those shown.
 2. Elevations based on North American Vertical Datum, 1988.
 3. Water levels not taken at DEC-005, DEC-005D, and MW-018 on 3/29/12.

FORMER KLINK COSMO
CLEANERS SITE
CROSS SECTION B - B'

URS

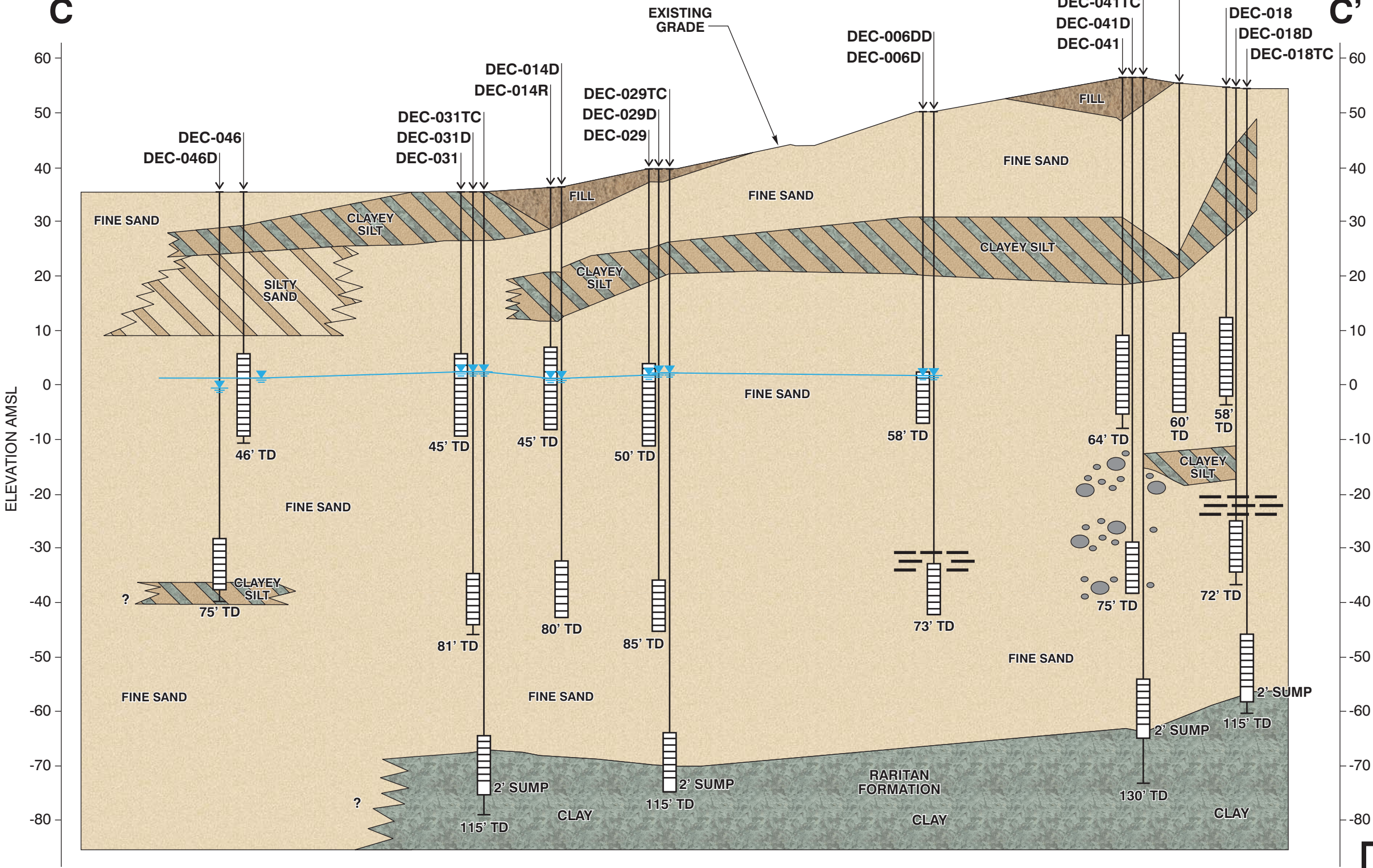
FIGURE 3-4

SOUTHWEST

NORTHEAST

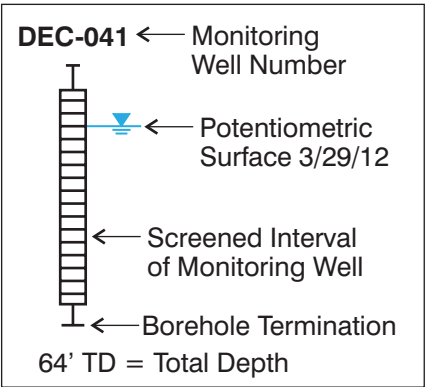
C

C'



Horizontal Scale: 1" = 200'
Vertical Scale: 1" = 20'
10x Vertical Exaggeration

Revised: June 2012



- NOTES:
1. Geologic conditions shown are representative of conditions encountered at each boring location to the depth drilled. Extrapolations between borings have been interpreted using standardly accepted geologic practices and principles. Actual conditions may vary between borings from those shown.
 2. Elevations based on North American Vertical Datum, 1988.
 3. Water levels not taken at DEC-018, DEC-018D, DEC-018TC, DEC-041, DEC-041D, DEC-041TC, and DEC-082 on 3/29/12.

FORMER KLINK COSMO
CLEANERS SITE
CROSS SECTION C - C'

URS

FIGURE 3-5

J:\1174989.00000\B\GIS\KlinkCosmo-Report\RI Phase 203-06 Surface Elev Raritan.mxd 6/4/2012 MDL



FIGURE 3-6

J:\1174989.0000\DB\GIS\KlinkCosmo-Report\Phase 2003-07 GW Elev Shallow 110620.mxd 8/2/2012 MDL



J:\1174989.0000\0000\Bing\KlinkCosmo-Report\Phase 2003-08 GW Elev Deep 110620.mxd 8/2/2012 MDL



Legend

- NYSDEC Monitoring Well Location
 - Approximate Direction of Groundwater Flow
 - Groundwater Potentiometric Surface (ft amsl)
- Well ID DEC-066D, 2.92 Groundwater Elevation

Source: Bing Maps Aerial © 2010 Microsoft Corporation



FORMER KLINK COSMO CLEANERS SITE
DEEP OVERBURDEN GROUNDWATER
POTENTIOMETRIC SURFACE (6/20/2011)



FIGURE 3-8

J:\1174989.0000\DB\GIS\KlinkCosmo-Report\Phase 2003-09 GW Elev Shallow 120329.mxd 8/2/2012 MDL



J:\1174989.0000\0000\B\GIS\KlinkCosmo-Report\Phase 203-10 GW Elev Deep 120329.mxd 8/2/2012 MDL



Legend

- NYSDEC Monitoring Well Location
- ➔ Approximate Direction of Groundwater Flow
- Groundwater Potentiometric Surface (ft amsl)

Well ID — DEC-066D, 2.92 — Groundwater Elevation

Note: DEC-046D was not included in contour creation

Source: Bing Maps Aerial © 2010 Microsoft Corporation

FORMER KLINK COSMO CLEANERS SITE
DEEP OVERBURDEN GROUNDWATER
POTENTIOMETRIC SURFACE (3/28/2012-3/29/2012)



FIGURE 3-10

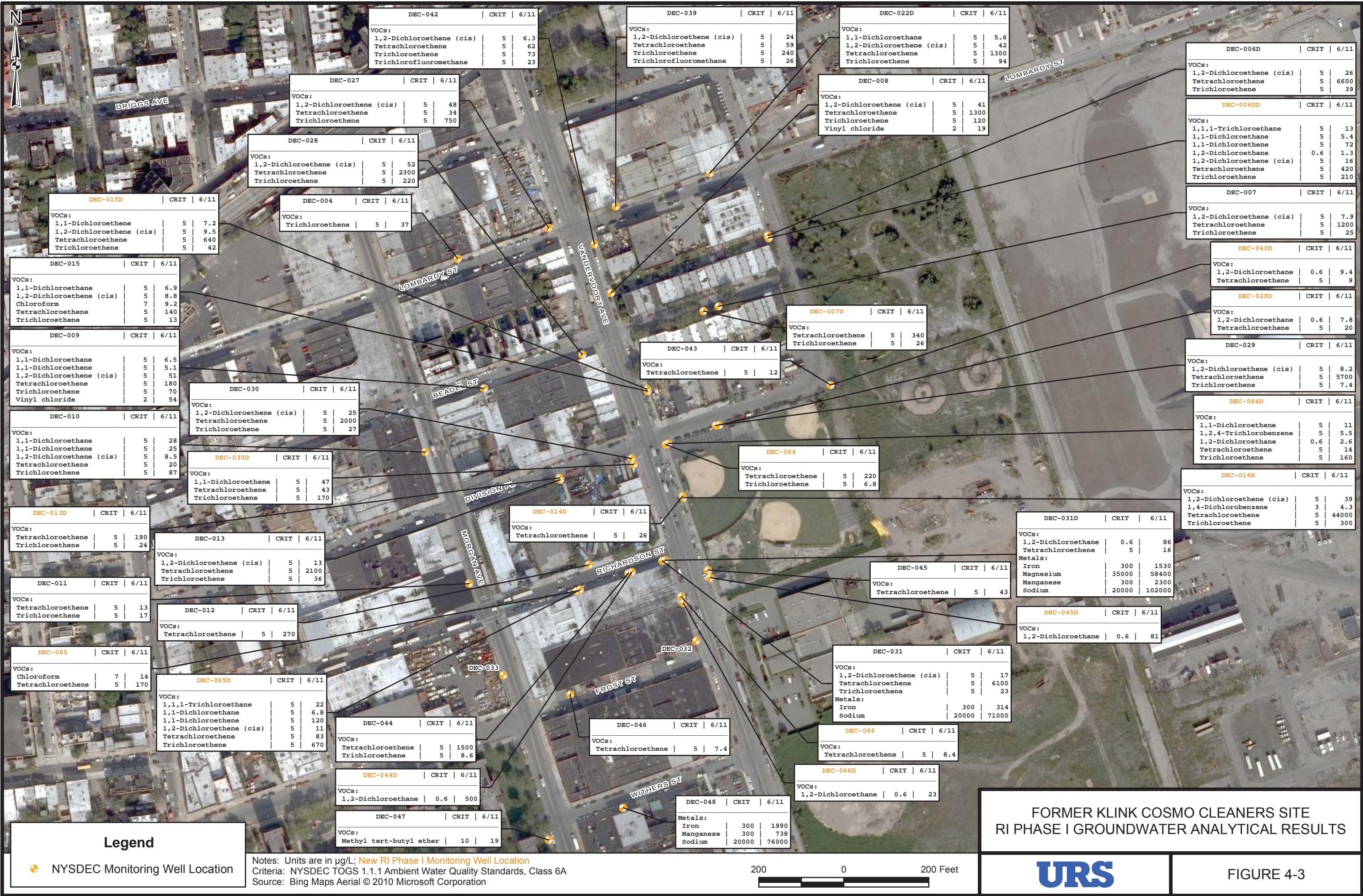
J:\1174989.0000\DB\GIS\KlinkCosmo-Report\RI Phase 2004-01A Phase 1 SO Analytical.mxd 8/2/2012 MDL



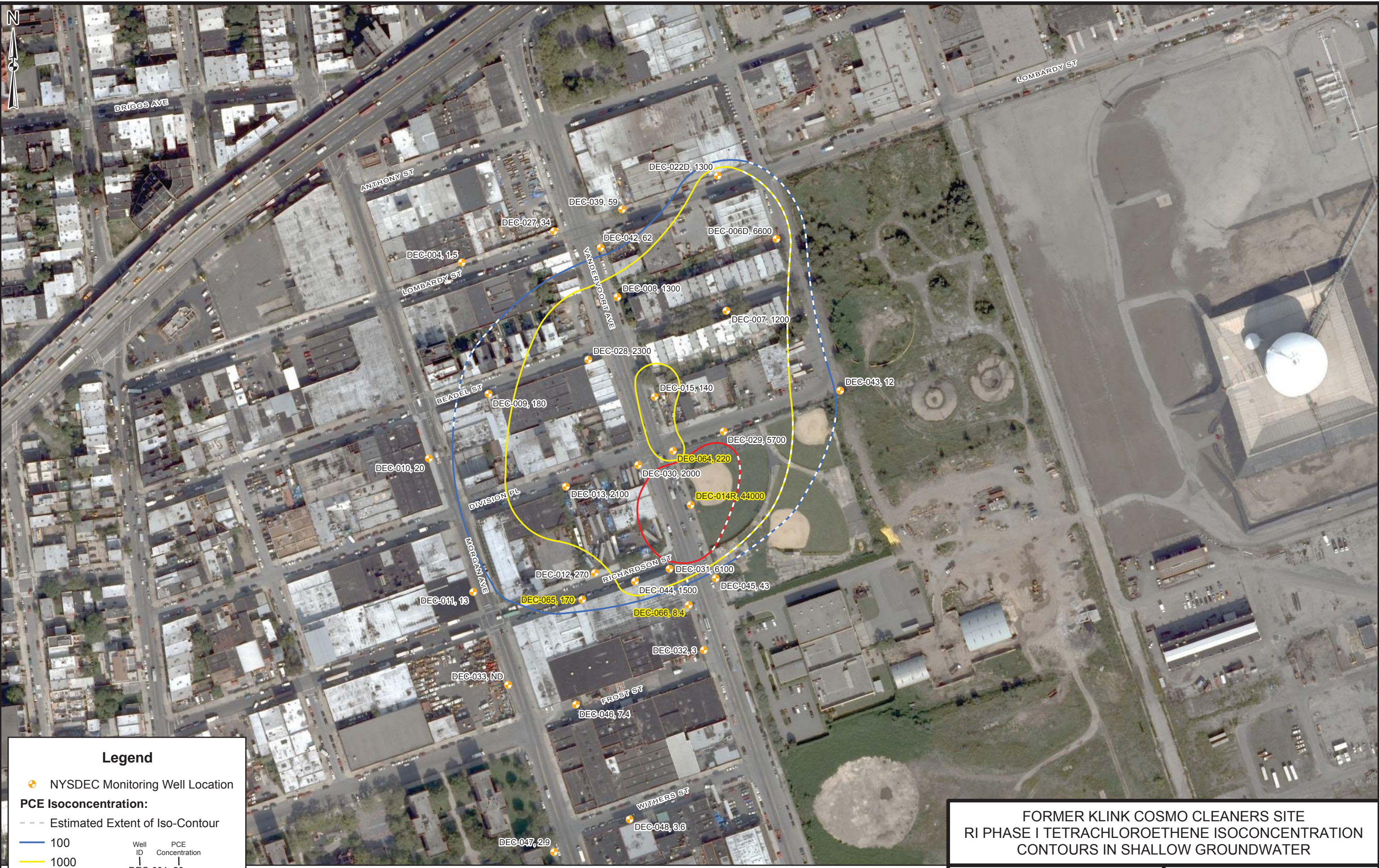
J:\1174989.0000\DB\GIS\KlinkCosmo-Report\RI Phase 204-01B Phase 1 SO Analytical.mxd 8/2/2012 MDL



J:\1174989.0000\DE\GIS\KlinkCosmo-Report\RI Phase 2004-03 Phase 1 GW Analytical.mxd 6/12/2012 MDL



J:\1174989.0000\B\GIS\KlinkCosmo-Report\RI Phase 2004-04 Phase 1 PCE Isoconc Shallow GW.mxd 6/11/2012 MDL



FORMER KLINK COSMO CLEANERS SITE
RI PHASE I TETRACHLOROETHENE ISOCONCENTRATION
CONTOURS IN SHALLOW GROUNDWATER

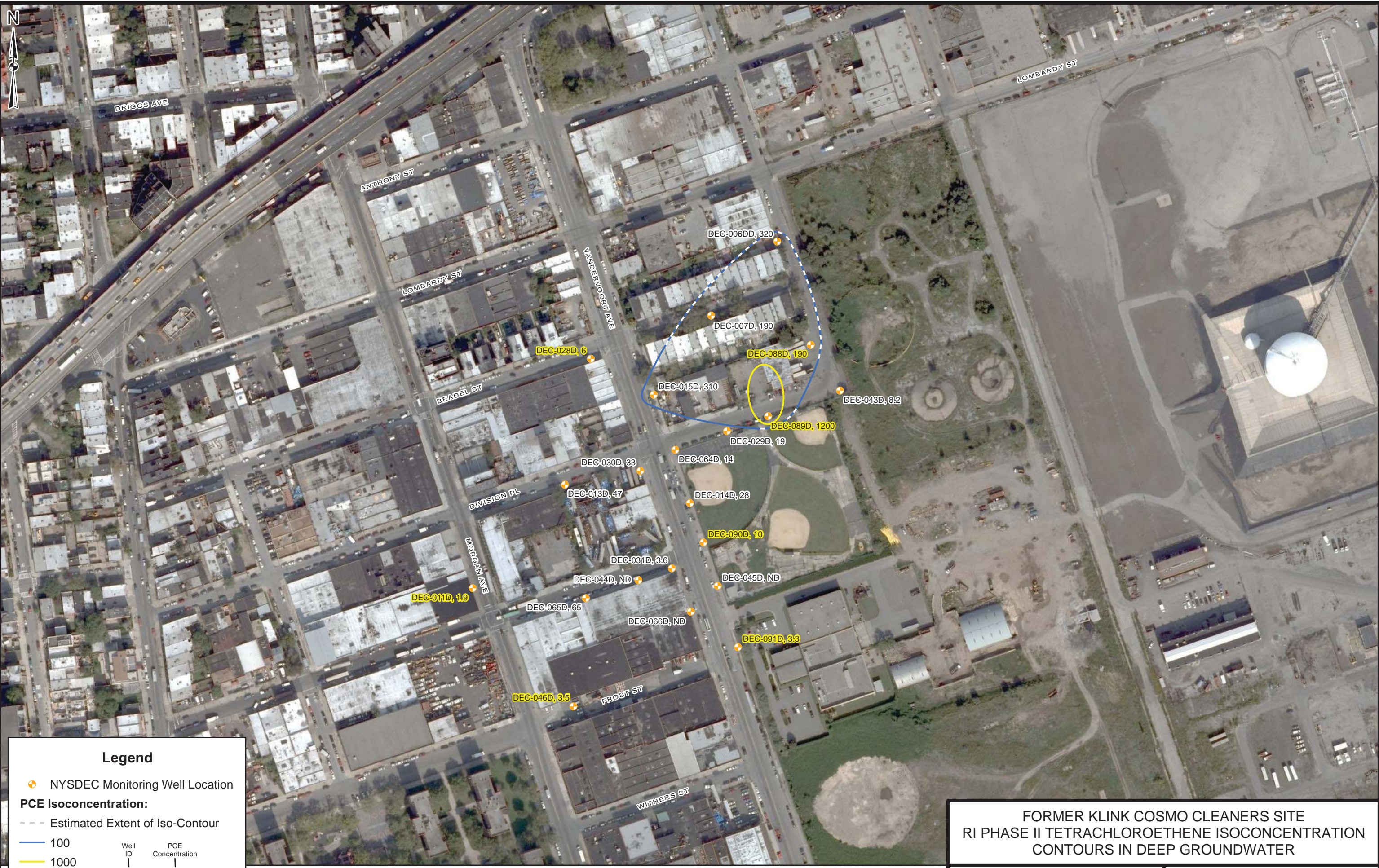


FIGURE 4-4

J:\1174989.0000\DE\GIS\KlinkCosmo-Report\RI Phase 2004-07 Phase 2 PCE Isoconc Shallow GW.mxd 6/4/2012 MDL



J:\1174989.0000\DE\GIS\KlinkCosmo-Report\RI Phase 2004-08 Phase 2 PCE Isoconc Deep GW.mxd 6/4/2012 MDL



Legend

● NYSDEC Monitoring Well Location

PCE Isoconcentration:

--- Estimated Extent of Iso-Contour

100

1000

10000

Well ID
DEC-025D, 11

PCE Concentration

ND = Not Detected

Notes: Units are in µg/L
New RI Phase II Monitoring Well Location
Source: Bing Maps Aerial © 2010 Microsoft Corporation

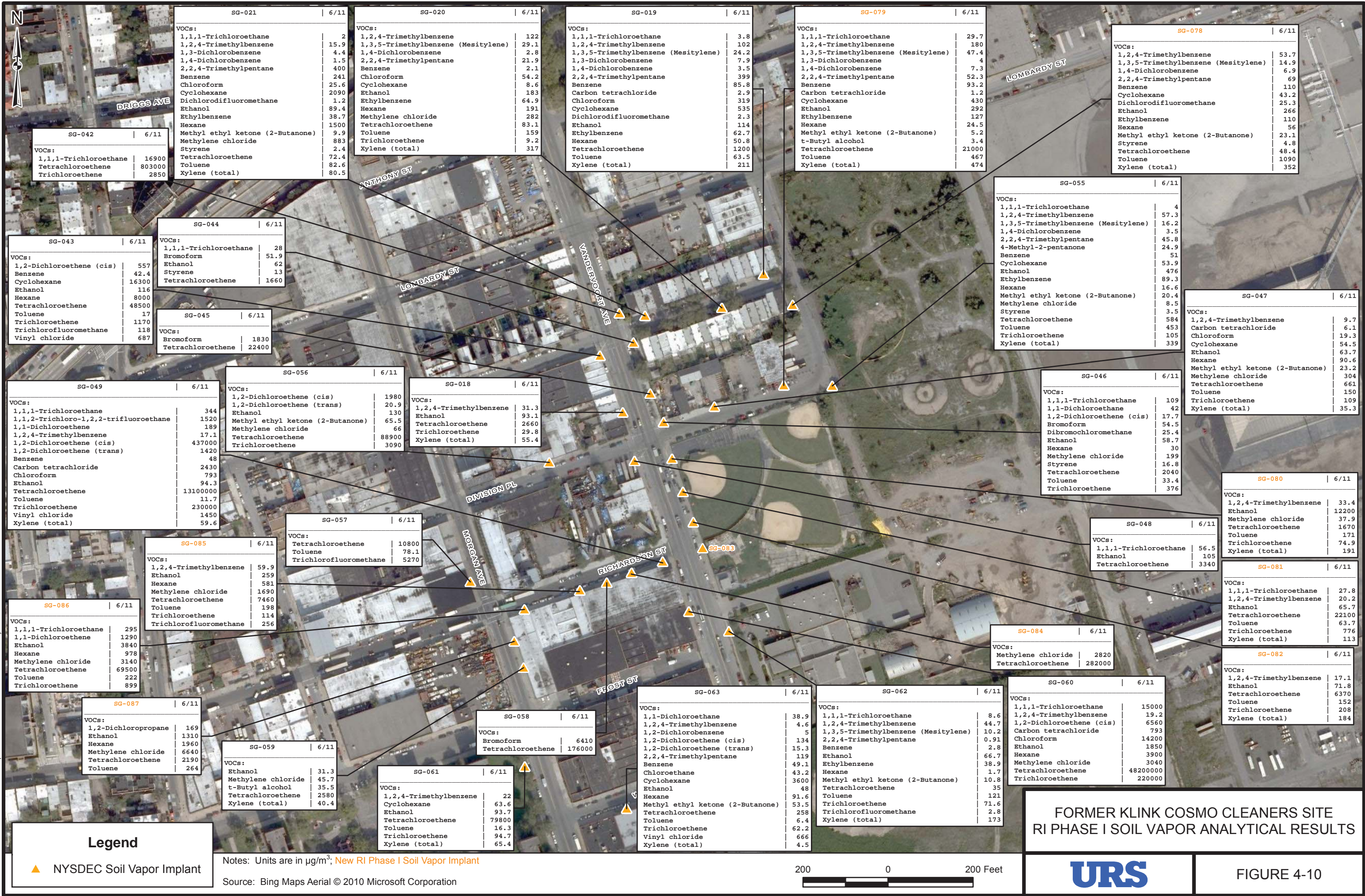
200 0 200 Feet

FORMER KLINK COSMO CLEANERS SITE
RI PHASE II TETRACHLOROETHENE ISOCONCENTRATION
CONTOURS IN DEEP GROUNDWATER

URS

FIGURE 4-8

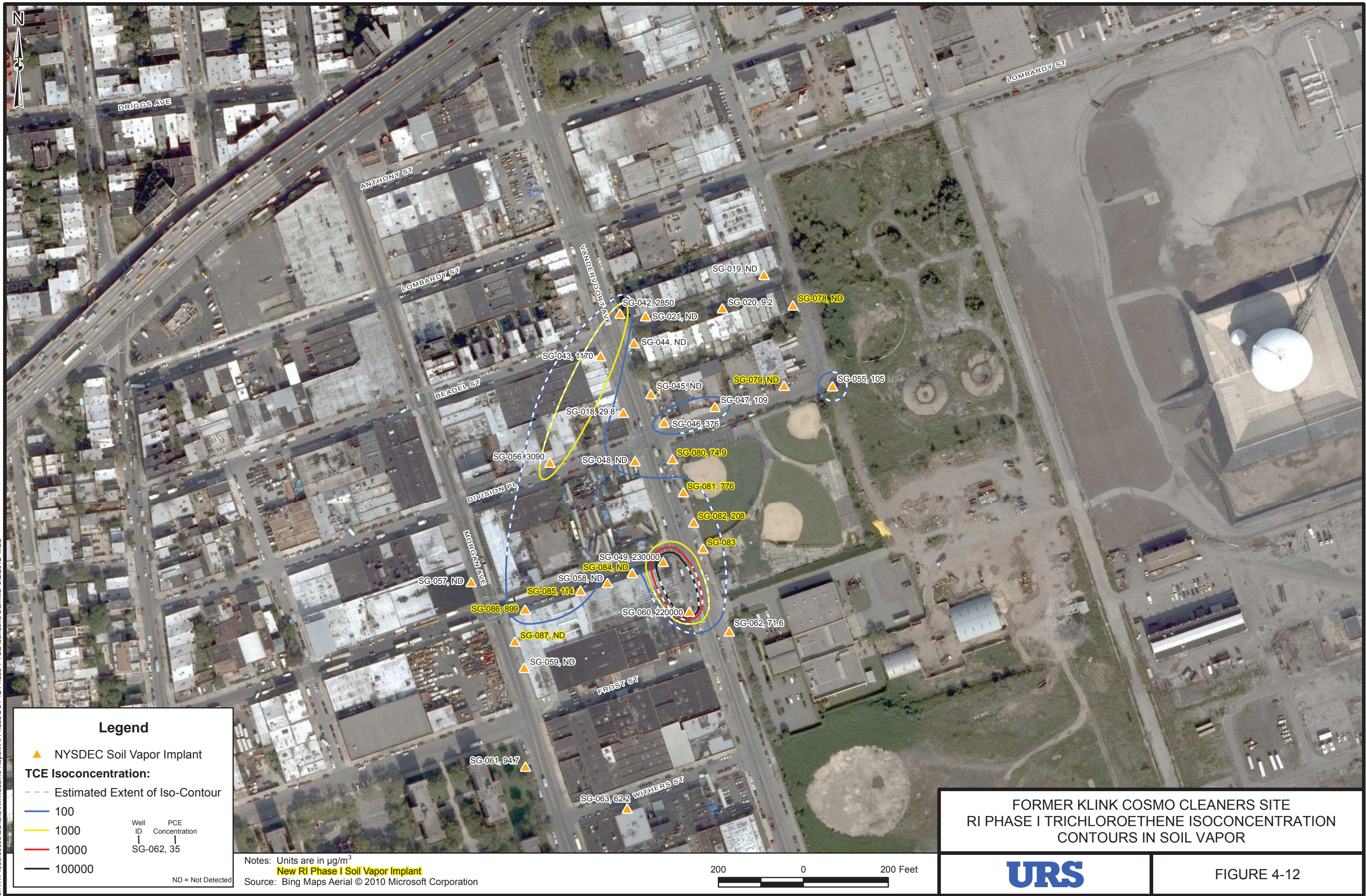
J:\1174989.0000\DB\GIS\KlinkCosmo-Report\RI Phase 1 SG Analytical.mxd 8/2/2012 MDL



J:\1174989.0000\0000\B\GIS\KlinkCosmo-Report\RI Phase 2004-11 Phase 1 PCE Isoconc SG.mxd 8/2/2012 MDL



J:\1174989.0000\DB\GIS\KlinkCosmo-Report\RI Phase 2004-12 Phase 1 TCE Isoconc SG.mxd 8/2/2012 MDL



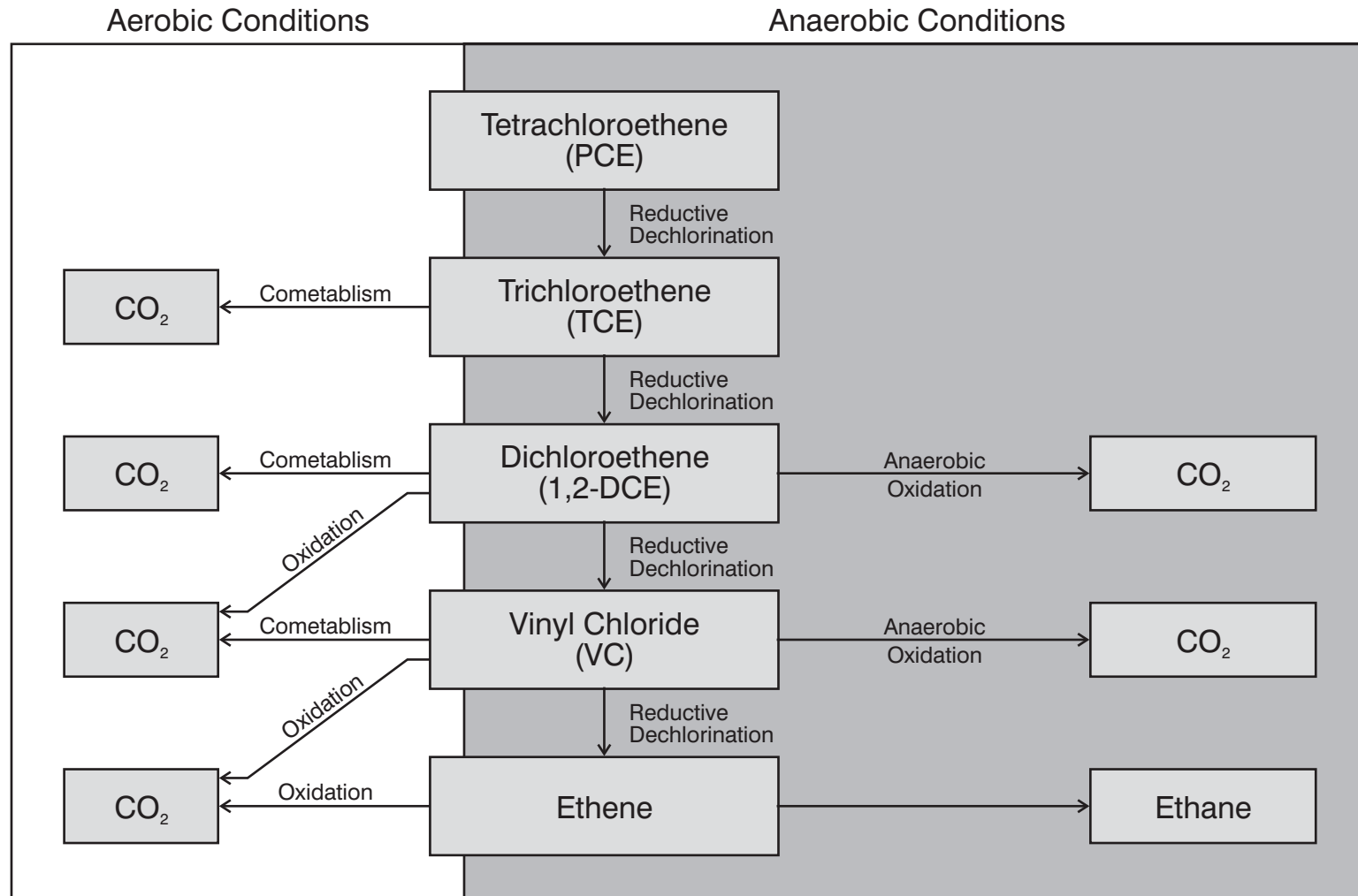


J:\1174989.0000\B\GIS\KlinkCosmo-Report\RI Phase 2 PCE Isoconc SG.mxd 8/2/2012 MDL



J:\1174989.0000\B\GIS\KlinkCosmo-Report\RI Phase 2 TCE Isoconc SG.mxd 8/2/2012 MDL







Legend

● NYSDEC Monitoring Well Location

Well ID Concentration
DEC-001, 29

ND = Not Detected

Notes: Units are in mg/L
New RI Phase II Monitoring Well Location
Source: Bing Maps Aerial © 2010 Microsoft Corporation

200 0 200 Feet

FORMER KLINK COSMO CLEANERS SITE
RI PHASE II DISSOLVED OXYGEN
IN SHALLOW GROUNDWATER



FIGURE 5-2

J:\1174989.00000\DE\GIS\KlinkCosmo-Report\RI Phase 2 DO Shallow GWMxd 6/4/2012 MDL

J:\11174989.000001\B\GIS\KlinkCosmo-Report\RI Phase 2005-03 Phase 2 DO Deep GW.mxd 7/12/2012 MDL



J:\11174989.00000\B\GIS\KlinkCosmo-Report\RI Phase 2005-04 Phase 2 ORP Shallow GW.mxd 8/2/2012 MDL



Legend

📍 NYSDEC Monitoring Well Location

Well ID
DEC-001, 29
Concentration

ND = Not Detected

Notes: Units are in millivolts
New RI Phase II Monitoring Well Location
Source: Bing Maps Aerial © 2010 Microsoft Corporation



FORMER KLINK COSMO CLEANERS SITE
RI PHASE II OXIDATION/REDUCTION POTENTIAL
IN SHALLOW GROUNDWATER



FIGURE 5-4

J:\11174989.000001\B\GIS\KlinkCosmo-Report\RI Phase 2005-06 Phase 2 TCE Isoconc Shallow GW.mxd 7/12/2012 MDL



J:\1174989.0000\00\GIS\KlinkCosmo-Report\RI Phase 2005-07 Phase 2 TCE Isoconc Deep GW.mxd 7/12/2012 MDL



J:\1174989.0000\B\GIS\KlinkCosmo-Report\RI Phase 2005-08 Phase 2 cis12DCE Isoconc Shallow GW.mxd 7/12/2012 MDL



J:\1174989.00000\DB\GIS\KlinkCosmo-Report\RI Phase 2005-09 Phase 2 cis12DCE Isoconc Deep GW.mxd 7/12/2012 MDL



J:\1174989.0000\DE\GIS\KlinkCosmo-Report\RI Phase 2005-10 Phase 2 VC Isoconc Shallow GW.mxd 7/12/2012 MDL



J:\1174989.0000\DE\GIS\KlinkCosmo-Report\RI Phase 2 05-11 Phase 2 VC Isoconc Deep GW.mxd 6/4/2012 MDL



Legend

● NYSDEC Monitoring Well Location

VC Isoconcentration:

--- Estimated Extent of Iso-Contour

100

1000

10000

Well ID
DEC-025D, 11

Concentration

ND = Not Detected

Notes: Units are in µg/L
New RI Phase II Monitoring Well Location
Source: Bing Maps Aerial © 2010 Microsoft Corporation

200 0 200 Feet

FORMER KLINK COSMO CLEANERS SITE
RI PHASE II VINYL CHLORIDE ISOCONCENTRATION
CONTOURS IN DEEP GROUNDWATER




URS

FIGURE 5-11



LEGEND

Cover Types:

-  Terrestrial Cultural - Mowed Lawn with Trees
-  Terrestrial Cultural - Mowed Lawn
-  Terrestrial Cultural - Urban Vacant Lot

PLATES



Legend

● NYSDEC Soil Vapor Implant

New RI Phase I Soil Vapor Implant
New RI Phase II Soil Vapor Implant

SOURCE: Bing Maps Aerial (c) 2010 Microsoft Corporation



APPENDIX A

PHOTOGRAPHIC LOG

RI PHASE I

**FORMER KLINK COSMO CLEANERS SITE
PHOTOGRAPHIC LOG
BROOKLYN, NEW YORK**



Photo 1: Example sampling implant.

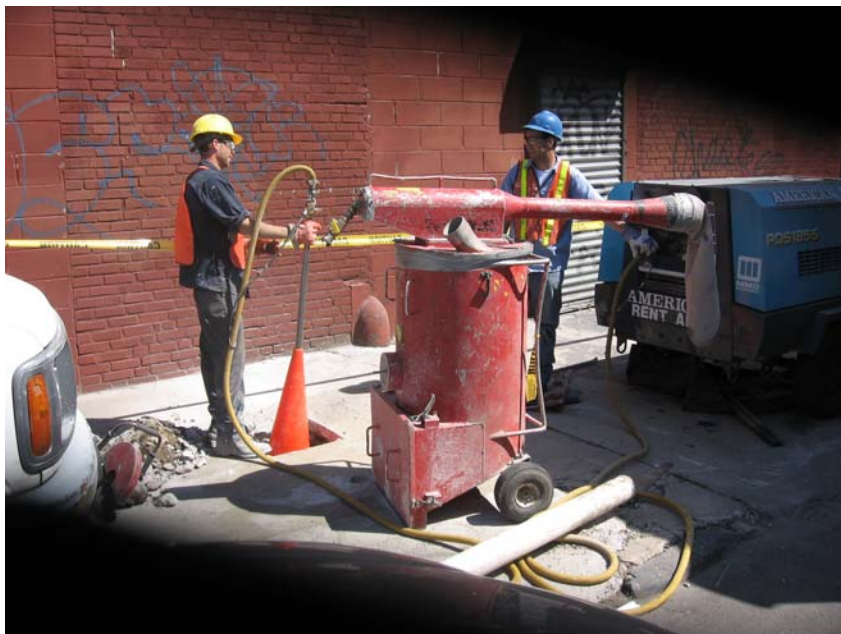


Photo 2: Example pre-clearing boring.

**FORMER KLINK COSMO CLEANERS SITE
PHOTOGRAPHIC LOG
BROOKLYN, NEW YORK**



Photo 3: Example pre-clearing boring.



Photo 4: New flush-mount protective casing and well pad at DEC-010.

**FORMER KLINK COSMO CLEANERS SITE
PHOTOGRAPHIC LOG
BROOKLYN, NEW YORK**



Photo 5: New flush-mount protective casing and well pad at DEC-031D.



Photo 6: Example RSI markout.

**FORMER KLINK COSMO CLEANERS SITE
PHOTOGRAPHIC LOG
BROOKLYN, NEW YORK**



Photo 7: Soil Vapor Implant Sample SG-4 1.



Photo 8: Insulating Jackets on Power Lines Near Richardson Street and Vandervoort Avenue.

**FORMER KLINK COSMO CLEANERS SITE
PHOTOGRAPHIC LOG
BROOKLYN, NEW YORK**



Photo 9: McGorlick Park - Background Surface Soil Study.



Photo 10: West View Richardson Street and Vandervoort Avenue.

**FORMER KLINK COSMO CLEANERS SITE
PHOTOGRAPHIC LOG
BROOKLYN, NEW YORK**



Photo 11: Completed Monitoring Well DEC-031S/DEC-031D with new concrete flags.



Photo 12: ADT Sonic Drill Rig.

**FORMER KLINK COSMO CLEANERS SITE
PHOTOGRAPHIC LOG
BROOKLYN, NEW YORK**



Photo 13: Ambient Air Sample AA-1.



Photo 14: Preparation for Borehole Clearing.

RI PHASE II

KLINK COSMO PHASE 2 PHOTOGRAPHIC LOG



2/27/12: Example of geophysical utility mark outs around DEC-046D location.



2/27/12: Example of geophysical utility mark outs around SG-116 location.

KLINK COSMO PHASE 2 PHOTOGRAPHIC LOG



2/27/12: Photograph of overhead wires jacketed by Con Ed near DEC-011D.



2/28/12: Sonic Drilling at DEC-088D.

KLINK COSMO PHASE 2 PHOTOGRAPHIC LOG



3/13/12: Interface of sand and gray lacustrine silty clay at 78.5 feet bgs in DEC-028D.



3/13/12: Close up photograph of gray lacustrine silty clay at DEC-028D.

KLINK COSMO PHASE 2 PHOTOGRAPHIC LOG



3/14/12: Interface of sand and gray lacustrine silty clay at 72 feet bgs in DEC-011D.



3/14/12: Close up photograph of gray lacustrine silty clay at DEC-011D.

KLINK COSMO PHASE 2 PHOTOGRAPHIC LOG



3/7/12: Well development at DEC-088D using Watterra Pump.



3/16/12: Removal of well string at DEC-014 during well decommissioning.

KLINK COSMO PHASE 2 PHOTOGRAPHIC LOG



3/1/12: Advancement of soil boring at SG-119 prior to installation of soil-gas implant.



3/1/12: Photograph of Macro core sample collected from SG-119.

KLINK COSMO PHASE 2 PHOTOGRAPHIC LOG



3/1/12: Photograph of 6-inch long soil-gas implant prior to installation.



3/1/12: Installation of soil-gas implant at SG-119.

KLINK COSMO PHASE 2 PHOTOGRAPHIC LOG



3/1/12: Completed soil-gas implant with 5-inch diameter flush-mount protective casing.



3/5/12: Soil-gas sample collection at SG-048.

KLINK COSMO PHASE 2 PHOTOGRAPHIC LOG



3/5/12 Soil-gas sample collection at SG-114.

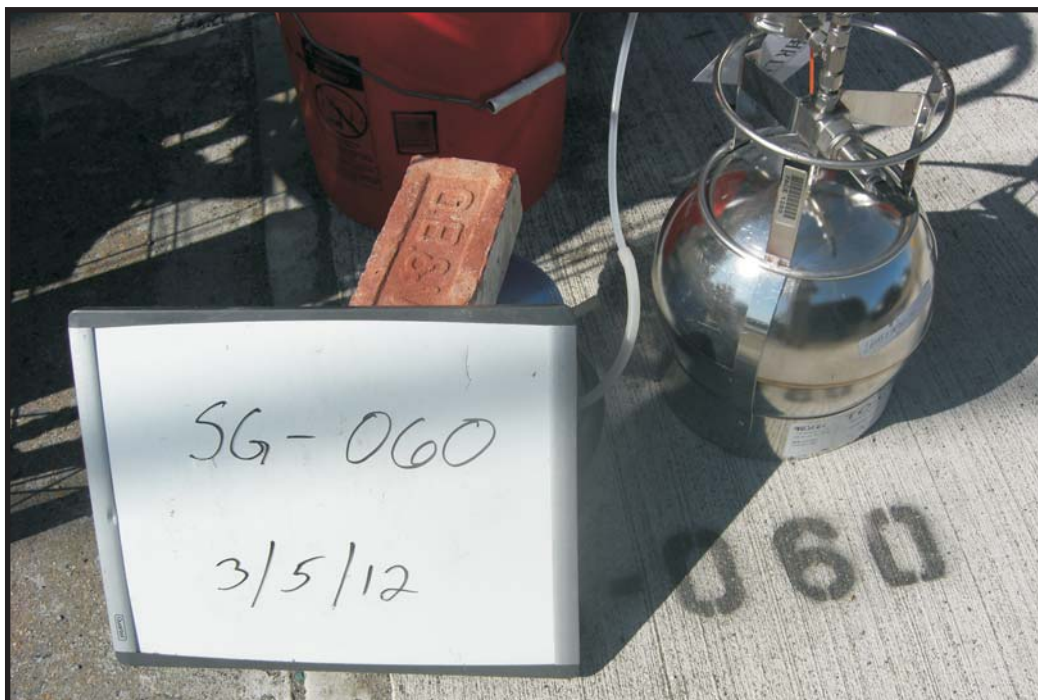


3/5/12: Soil-gas sample collection at SG-116.

KLINK COSMO PHASE 2 PHOTOGRAPHIC LOG



3/5/12: Soil-gas sample collection at SG-117



3/5/12: Soil-gas sample collection at SG-060.

KLINK COSMO PHASE 2 PHOTOGRAPHIC LOG



3/5/12: Soil-gas sample collection at SG-119.

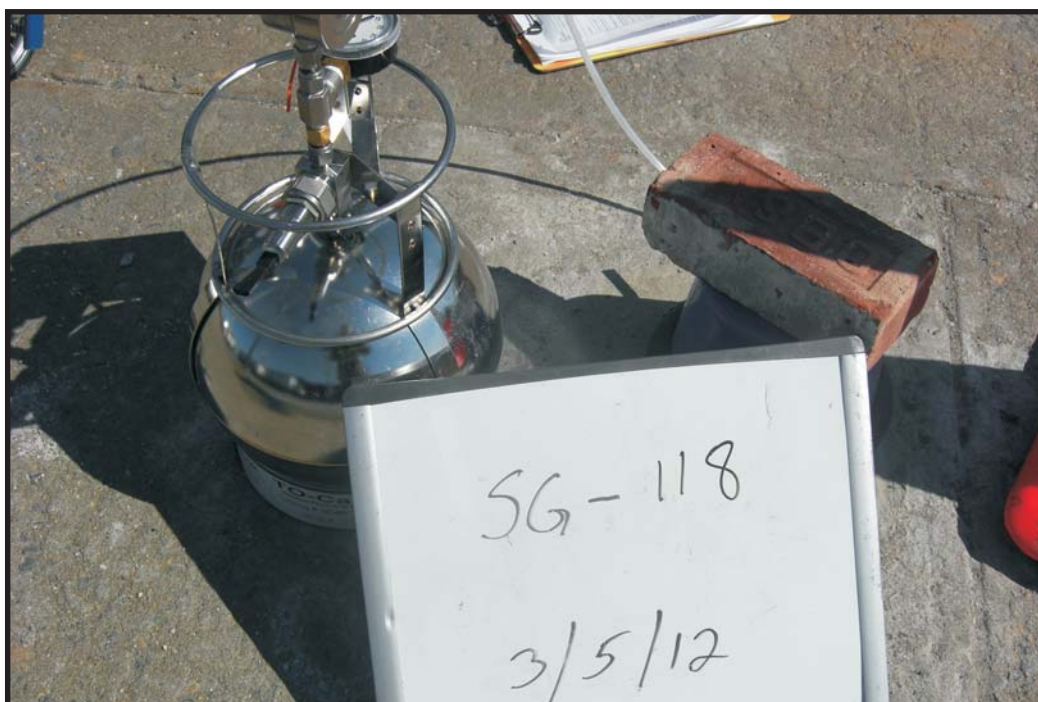


3/5/12: Soil-gas sample collection at SG-121.

KLINK COSMO PHASE 2 PHOTOGRAPHIC LOG



3/5/12: Soil-gas sample collection at SG-062.



3/5/12: Soil-gas sample collection at SG-118.

KLINK COSMO PHASE 2 PHOTOGRAPHIC LOG

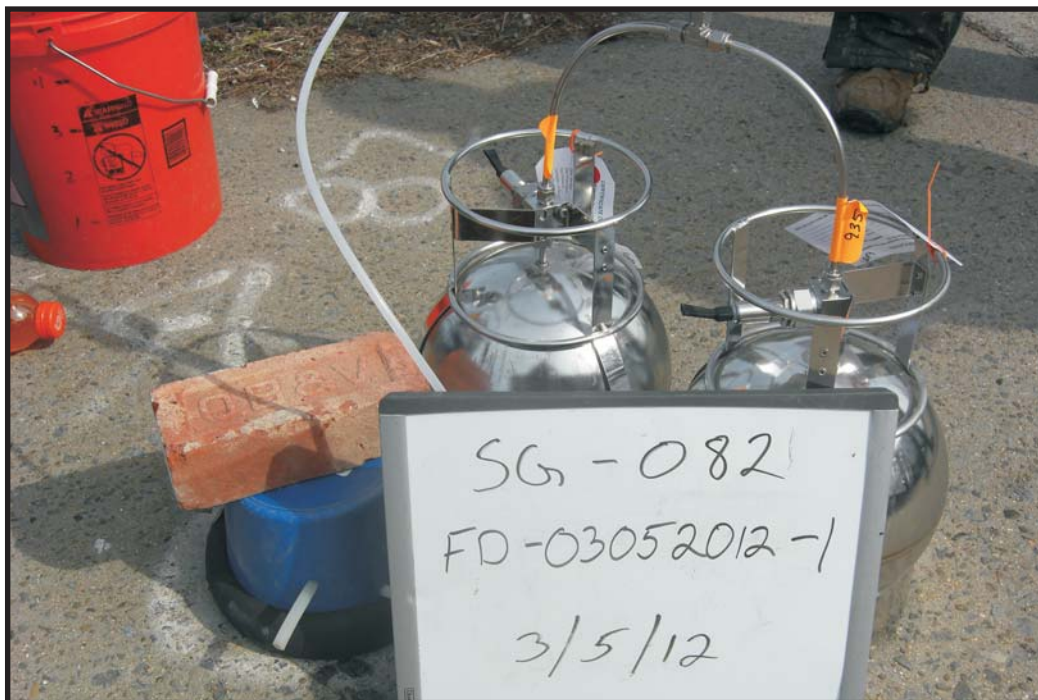


3/5/12: Soil-gas sample collection at SG-115.



3/5/12: Soil-gas sample collection at SG-083.

KLINK COSMO PHASE 2 PHOTOGRAPHIC LOG



3/5/12: Soil-gas sample collection at SG-082 and field duplicate FD-03052012-1.



3/5/12: Ambient air sample AA-03052012-1.

KLINK COSMO PHASE 2 PHOTOGRAPHIC LOG



3/5/12: Soil-gas sample collection at SG-081.



3/5/12: Soil-gas sample collection at SG-080.

KLINK COSMO PHASE 2 PHOTOGRAPHIC LOG



3/6/12: Soil-gas sample collection at SG-055.



3/6/12: Soil-gas sample collection at SG-079.

KLINK COSMO PHASE 2 PHOTOGRAPHIC LOG



3/6/12: Soil-gas sample collection at SG-047.



3/6/12: Soil-gas sample collection at SG-113.

KLINK COSMO PHASE 2 PHOTOGRAPHIC LOG



3/6/12: Soil-gas sample collection at SG-019 and field duplicate FD-03062012-1.



3/6/12: Soil-gas sample collection at SG-020.

KLINK COSMO PHASE 2 PHOTOGRAPHIC LOG



3/6/12: Soil-gas sample collection at SG-021.



3/6/12: Soil-gas sample collection at SG-044.

KLINK COSMO PHASE 2 PHOTOGRAPHIC LOG



3/6/12: Soil-gas sample collection at SG-045.



3/6/12: Soil-gas sample collection at SG-046.

KLINK COSMO PHASE 2 PHOTOGRAPHIC LOG



3/6/12: Soil-gas sample collection at SG-042.



3/6/12: Ambient air sample AA-03062012-1.

KLINK COSMO PHASE 2 PHOTOGRAPHIC LOG



3/6/12: Example of helium testing at SG-018 prior to sample collection.

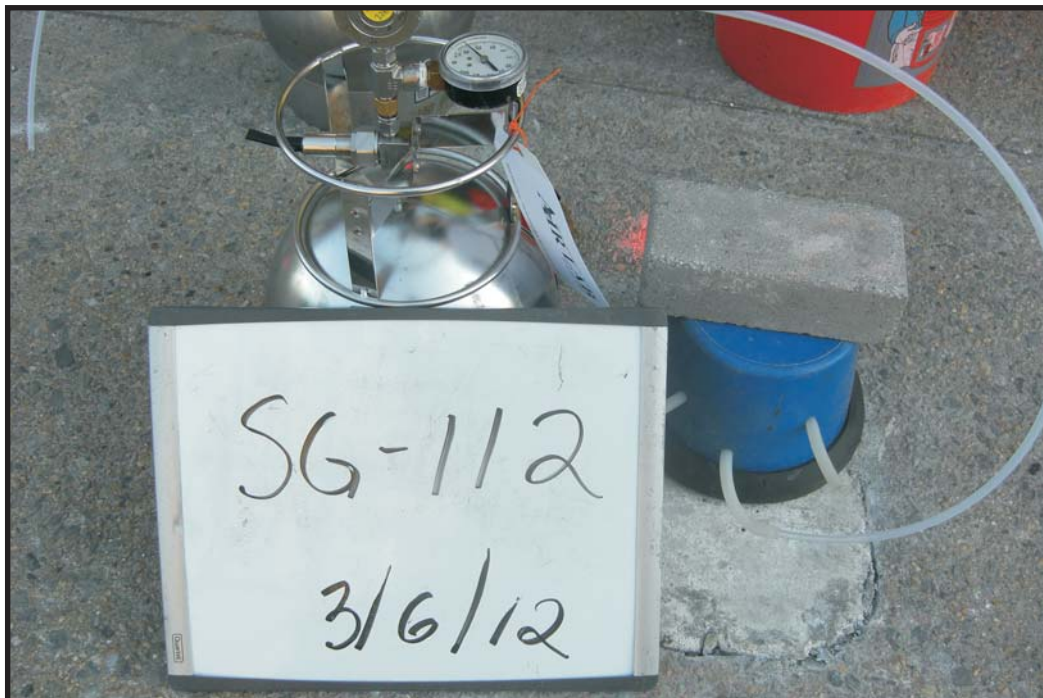


3/6/12: Soil-gas sample collection at SG-018.

KLINK COSMO PHASE 2 PHOTOGRAPHIC LOG

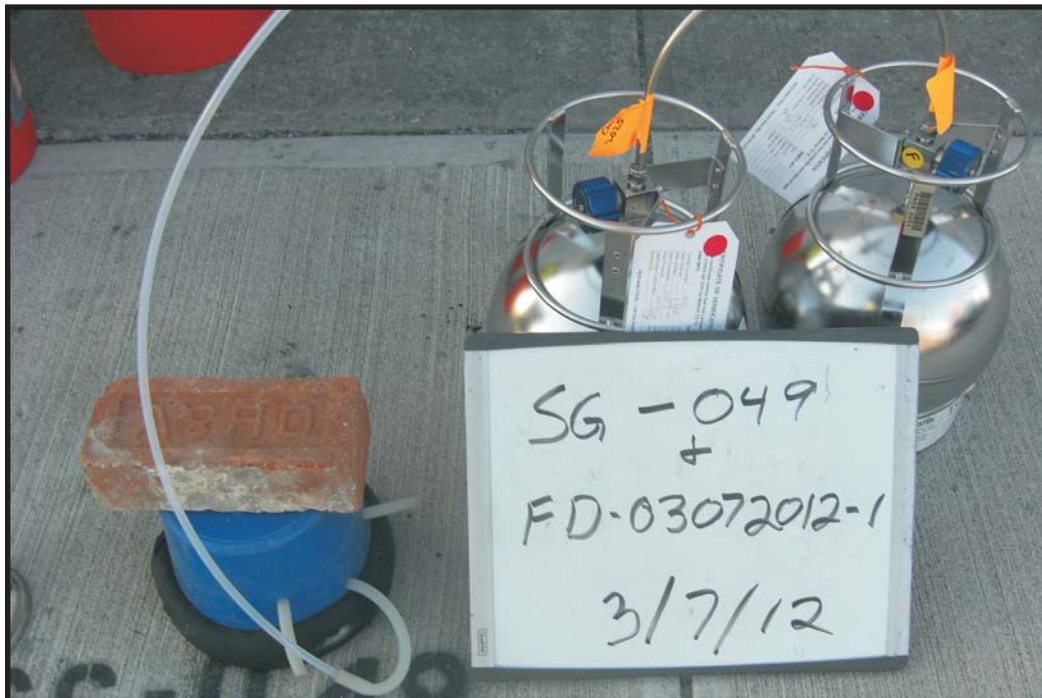


3/6/12: Soil-gas sample collection at SG-056.

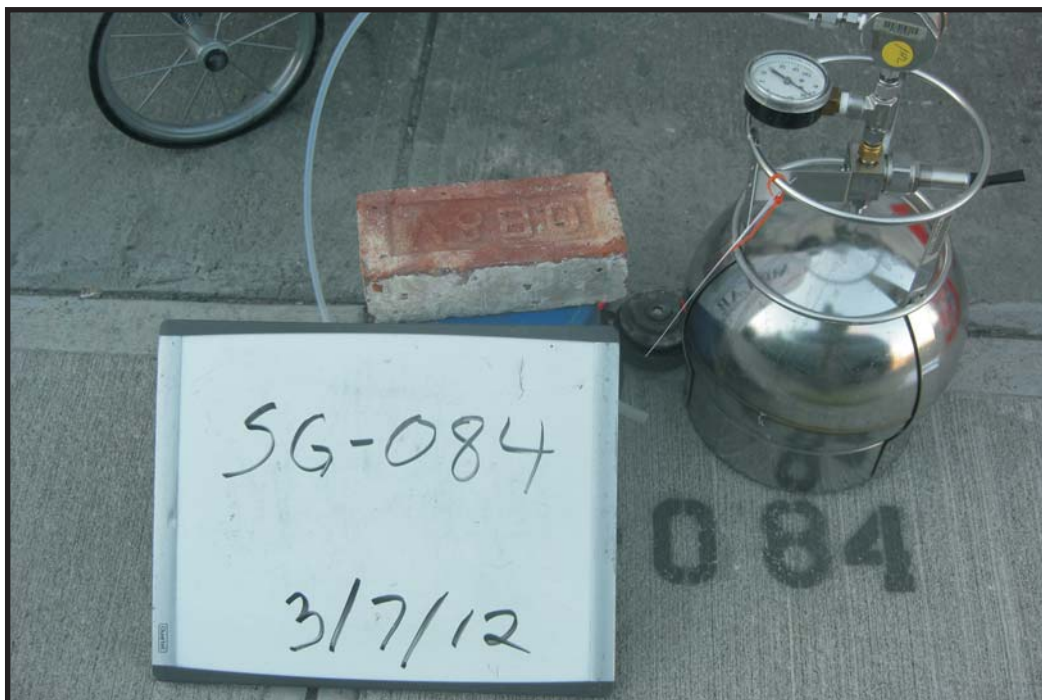


3/6/12: Soil-gas sample collection at SG-112.

KLINK COSMO PHASE 2 PHOTOGRAPHIC LOG



3/7/12: Soil-gas sample collection at SG-049 and field duplicate FD-03072012-1.



3/7/12: Soil-gas sample collection at SG-084.

KLINK COSMO PHASE 2 PHOTOGRAPHIC LOG



3/7/12: Soil-gas sample collection at SG-058.



3/7/12: Soil-gas sample collection at SG-085.

KLINK COSMO PHASE 2 PHOTOGRAPHIC LOG



3/7/12: Soil-gas sample collection at SG-086.



3/7/12: Ambient air sample AA-03072012-1.

KLINK COSMO PHASE 2 PHOTOGRAPHIC LOG



3/7/12: Soil-gas sample collection at SG-087 and field duplicate FD-03072012-2. Duplicate sample not used, summa can expired too quickly.



3/7/12: Soil-gas sample collection at SG-059.

KLINK COSMO PHASE 2 PHOTOGRAPHIC LOG



3/7/12: Soil-gas sample collection at SG-120 and field duplicate FD-03072012-2.



3/7/12: Soil-gas sample collection at SG-061R.

KLINK COSMO PHASE 2 PHOTOGRAPHIC LOG



3/7/12: Soil-gas sample collection at SG-122.



3/7/12: Soil-gas sample collection at SG-063.

APPENDIX B

FIELD NOTES

RI PHASE I

Location Klink Date 5/9/11
 Project / Client MSDEC

0700: OK on-site
 0725: MD CV-site
 0750: SM calls, he's on Richardson waiting for 9 ADT vac crews
 0830: Greg and Brady are one crew. Chris and ~~Brady~~ are w/ Meyer, starting @ 430. Greg starting @ 300.

0900: Greg/Brady start DEC - 0300
 1" Asphalt @ surface
 3" base stone little to
 4"-5" f-sand and silt, some cobbles
 of concrete/asphalt. Little m. sand
 Collected sample
 3:5-4:5 @ 1030 for:
 VOCs, SVOCs, Pest, PCBs, Herb, Metals,
 CN, and Hex Chrom.

1035: DEC-0300 cleaned to 5ft,
 ADT backfill and seal patch. PID =
 0.77m over open hole and cuttings

Project / Client _____

1120: Starting DEC - 0130
 3" asphalt and base from
 surface.
 1210: DEC - 0130 cleaned to
 5ft. Similar material to 0300
 low f-sand and silt, little concrete
 asphalt cobbles.
 1300: Greg's crew lunch (40)
 1320: ADT setting up to clean DEC-00
 cluster.

Frst.
 03
 03
 03
 Richardson

1340: start cleaning DEC - 0600
 8" concrete @ surface
 130: DEC-0600 cleaned to 5ft
 1ft of cinders and dk brown
 sand and brick/concrete cobbles
 3ft. low f-sand and silt for
 coarse.

1440: start DEC - 0600

5/9/11

1510: DEC-0605 from 1ft to 2ft
has likely MGP waste, blk
cinders, hold in and soft + an
sample collected 1-2ft @ 1510
for full test and KCR. 28 ppm
starting @ 2ft brn f-sand
and silt down to 5ft.

1540: DEC-0605 ~~delay~~ being
backfilled then ADT off-site.

1635: CF off-site for day

CF

5/10/11

0645: CF on-site sitting @ DEC-0290
area to keep it clean for vacuum

0700: 1 ADT crew around, MD (unc)
on-site

0900: ADT starts cleaning DEC-0290
Asphalt @ surface cracked
and only 1" thick w/ 2-3"
waste stone.
4ft of brn f-sand, little silt
and m-sand to brick frags.
P.D. = 0 ppm over open hole and
cuttings.

0955: DEC-0290 cleaned to 5ft
Frank sonic rig helper here.
Greg moving to DEC-64 cluster

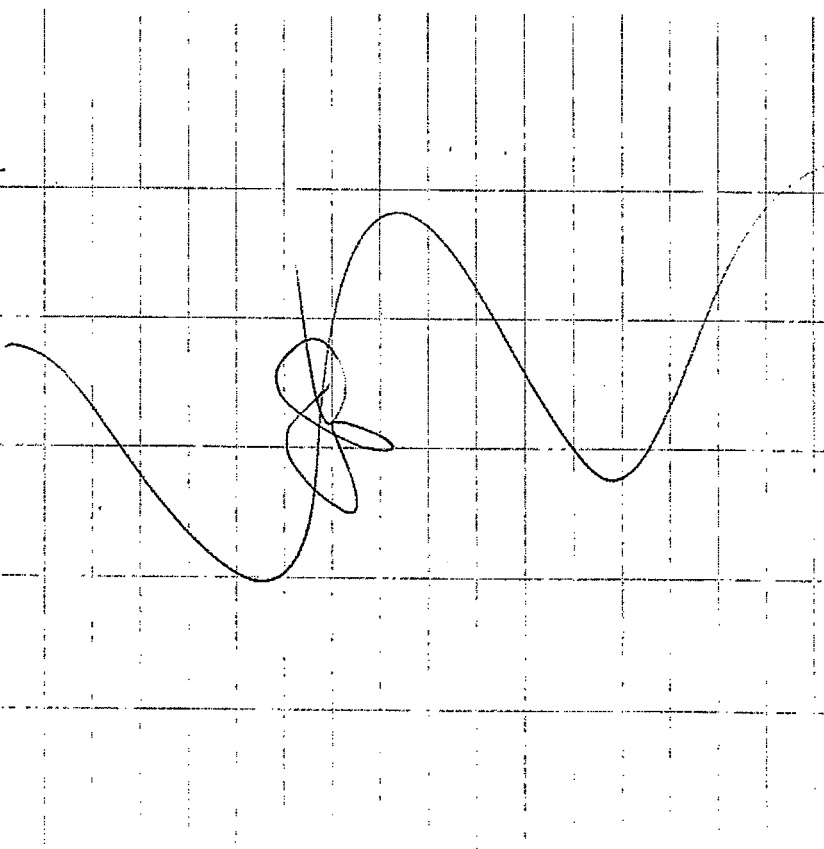
1015: start drilling DEC-0290.
DEC-0645 cleaned to 5ft.

driller
1240: ADT lunch @ 40ft w/ DEC-0290

1345: resume drilling DEC-0290

5/10/11

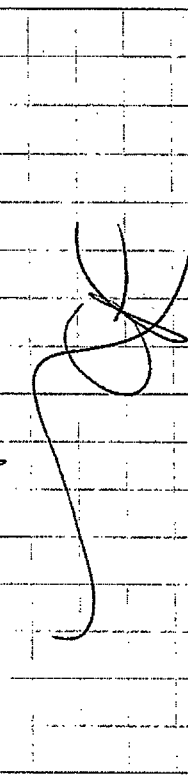
1540: @ 70ft @ DEC-0290, 70-75ft
sample still in the ground.
ADT cleaning up for day.
1600: ADT (Serenny + Frank) off-site
1635: CF off-site 4 drums
3 mud / 1 solid



5/11/11

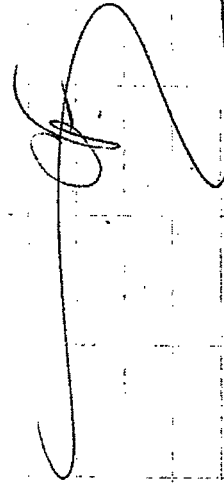
N:5 DEC

0800: 4 on-site, ADT here
already, will cont. DEC-0290
0930: ADT resumes drilling DEC-0290
1100: DEC-0290 completed @ 85ft
well set @ 85ft w/ 10ft of
screen, sand pack in @ 75ft
ADT mixing bent. slurry now
1215: ADT (Serenny) starts DEC-0290
1535: DEC-0430 @ 60ft, cleanup
8 drums 1 soil 3 mud
1 gravel/concrete vacuum
3 drilling mud (DEC-0290)
1615: MS (URS) will wait for-
Arco (drum pick-up) OK off-site

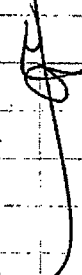


10 Location Klink Date 5/12/11
Project / Client MSDEC

0700: CF on-site
0715: MD (URS) on-site
0745: 1 ADT Sonic rig here
0830: 2nd ADT Sonic rig here
0935: Jeremy re-starts DEC-043D
1235: DEC-043D down to 85 ft,
setting well w/ 10ft of screen
@ 85 ft.
1320: ADT lunch DEC-043D installed
and back filled, no manhole.
1420: Starting DEC-064D
1530: DEC-064D sampled to 30ft
casing only to 10ft. Solids drum
here, 1 @ DEC-030D
2 solids drums
1625: Brey's ADT crew off-site,
Jeremy's off-site @ 1600.
CF off-site



Location _____ Date 5/13/11
Project / Client _____

0720: CF on-site, cones near
DEC-064D ~~set~~ left alone
overnight. ADT work truck
(Frank) pulling up.
0800: Jeremy pulls up w/ rig.
0900: ADT setting up to re-start
DEC-064D
0945: re-start dn/lma
1230: ADT lunch DEC-064D @
Soft.
1240: Mittem picks up samples
1300: ADT lunch over
1515: DEC-064D being set @
80ft w/ 10ft of screen, Larco
@ here for drums. 3 total
today 1 soil & mud
1535: DEC-064D installed, ADT
cleanup.
1600: ADT off-site, CF off-site


Location

Date

5/16/11

Project / Client

dyzale 60' SAND

0720: CF on-site, Greg + Dave (ADT) pulling up now.

0830: Scott + Tim (URS) on-site
0800: Jeremy and Frank (ADT) on-site

0820: Jeremy and Frank (ADT) off to buy & tape measure.

0920: Jeremy setting up his rig
@ DEC-0150, 1st sample 35ft

1030: Jeremy finally starts DEC-0150 after trying to make hydrant meet DEC-815 work. Did not succeed so they will have to move work truck to another hydrant to get H₂O.

1230: Jeremy + Frank lunch, DEC-0150 @ 45ft.

1320: Lunch over ADT

Location

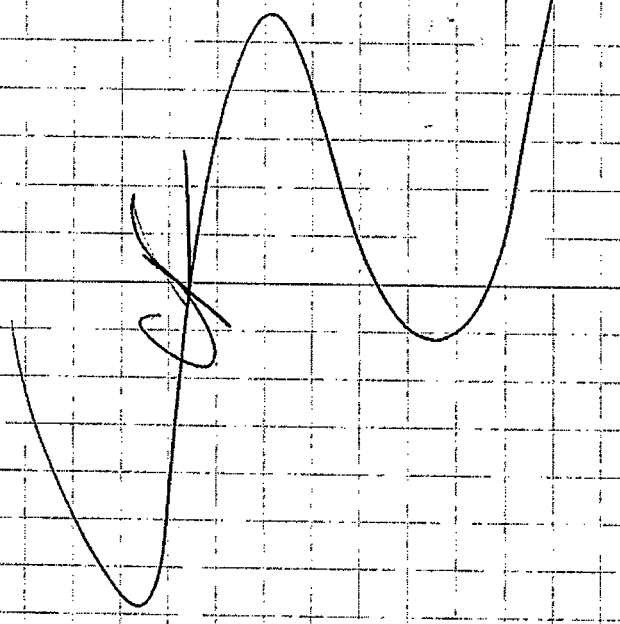
Date

5/16/11

Project / Client

1545: DEC-0150 sampled to 80ft, casing @ 75ft well will be set @ 82ft on Tue AM. 1 drum solids
3 @ 5m's rig (DEC-014)
2 mud 1 Soil.
4 total, Arco here loading

1630: CF / ADT off-site



14

Location Klink Date 5/17/11Project / Client NYSDOCrain so's a wind AM

0700: CF on-site
 0750: Dave (NYSDOC) on-site,
 Scott and Tim ^{class} ready here.
 0830: ADT (Jeremy + Frank)
 on-site
 0900: ADT setting up to finish
 DEC-015D, well to be set
 @ 825 ft.
 0930: Jeremy + Frank setting manhole
 @ DEC-060D
 1015: set DEC-015D @ 82 ft
 1140: Cleanup and move to DEC-007D
 1210: ADT lunch (Jeremy + Frank)
 1250: ADT getting H₂O for drilling.
 1600: @ 50 ft @ DEC-007D
 ADT cleanup, ~~CF~~
 1630: SM setting manhole @
 DEC-015D then off-site Arco drum
 1730: CF off-site

15

Location Klink Date 5/18/11Project / Client NYSDOC

0710: ~~CF~~ on-site
 0845: ADT near, getting H₂O
 for drilling then setup
 0940: Resurface DEC-007D
 1325: Sampled to 95 ft, casing.
 @ 85 ft. ADT lunch
 1405: resume DEC-007D
 1600: DEC-007D installed
 lost 2 ft when pulling casing
 well is 90 ft
 off-site. No manhole well
 plotted. Rainfall extremely
 heavy last 30+ minutes
 CF off-site while Arco
 loading drums just
 solid drum from DEC-007D
 SM to sign paperwork.

5/19/11

0715: CF on-site
 0840: Jeremy, Frank, Hayden (ADT) were doing manhole @ DEC-0070, will set rig up on DEC-0060D.

1000: Start drilling @ DEC-0060D
 1200: Mud starts coming up ~~from~~ from around DEC-0060D manhole. Jeremy stops and pulls rig off of hole so CF can check well.
 DEC-0060D OK, Cannot get 7" casing to 10ft, no bit (other ADT crew has it). Only 5ft section in ground.

1540: Fuel filter on rig needs changing. Last 10ft used 300 gallons of H₂O, Jeremy had to go very slow so we didn't blow out of filter all together.

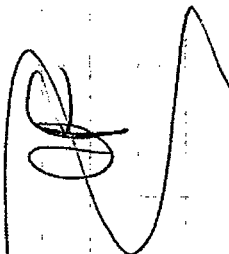
1600: DEC-0060D @ 93ft, ADT
 1630: ADT off-site
 1700: CF off-site

5/20/11

0715: CF on-site
 0840: Jeremy + Frank (ADT) on-site setting rig trucks.
 0930: Jeremy changed fuel filter on rig, ~~ADT~~ ADT now setting up @ DEC-0060D.
 940: resume ~~ADT~~ ADT
 DEC-0060D
 1140: DEC-0060D installed @ 93ft sand 81-93ft w/bent. Slurry above that.

1225: DEC-0060D well installed and manhole set. Moving to DEC-0060D
 1300: ADT lunch
 330: Lunch over, now raining. ADT starting DEC-0060
 530: @ 25ft @ DEC-0060D, ADT cleanup
 1600: ADT off-site.
 1615: Harco on-site for 9 drums 1 sol, 4 H₂O, 4 mud
 1635: CF off-site

0715: OK on site
 0850: Jeremy + Frank (ADT) pulling up. Dave H. Knisoec) also here.
 1000: resume DEC-065D from 25ft
 1230: @ 65ft, ADT lunch. Greg's rig has been down since before 1100 AM, mechanic (ADT) on way from shop.
 1345: ADT lunch over
 1600: pump broke on Jeremy's rig while mixing grout. DEC-065D installed @ 80ft, no manhole. Arco here for 5 drums total. 1 solid @ 66D and 1 solid 3 mud @ 13D.
 1630: ADT off-site
 1700: JF to develop DEC-065D at off-site



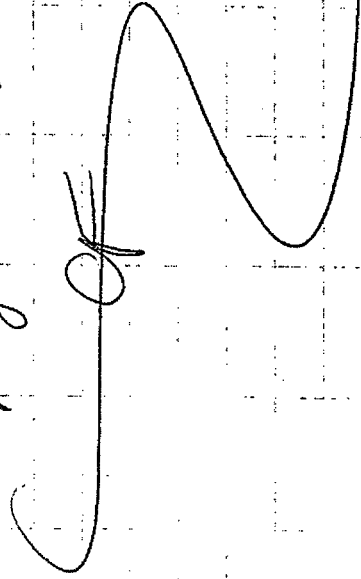
0700: OK on-site
 0845: Greg + Dave (ADT) have been here for 1/2 hr. No sign of Jeremy and Frank yet. Jeremy has to fix pump on rig before we can drill.
 0900: Jeremy and Frank on-site. Frank to set manhole @ 66D @ DEC-065D manhole set.
 Jeremy still working on pump on rig.
 1100: Jeremy still putting pump back together.
 1230: Jeremy tracking to DEC-065D
 1230: start drilling DEC-065D
 1530: DEC-065D down to 55ft 3 drums
 Total of 7 drums to go w/ Arco tonight 2 H₂O 3 mud 2 solid.
 Mitham here @ 1300 for sample pick-up.

5/24/11

1630: ADT off-site, TF (URS) calls to say that DEC-0645 is only 25ft deep and it's H₂O level is @ 25ft. Tried to force tubing past 25ft and could not, bottom felt hard, will have Greg (ADT) try to flush out well, if he can't will over-drill, pull well and then clean ~~out~~ (C) a new hole and re-drill well. Harco here for 7 drums. 2 solid, 2 H₂O, 3 mud.

1715: CF signs Harco paperwork TI developing 660, CF off-site

CF



5/25/11

0715: CF on-site on Richardson
0910: Jeremy pulling up now Greg is flushing out DEC-0645 (20ft at well sand in PVC)
1010: Jeremy starts drilling
1030: Tim calls to say DEC-0645 is down open to correct depth Greg's rig is not working properly, Jeremy going over to see what the problem is with the pump Greg will keep trying

1145: Greg comes over, says the rig and pump are not good. Rig leaking hydraulic oil from same spot as earlier in the week. Rigs down all together Greg taking rig back to the shop, casing is sticking 25ft out of ground, Jeremy will go over and finish it off leave casing in the ground but bring it flush

5/25/11

1210: ADT lunch
 1310: ADT resumes drilling DEC-065D
 1500: DEC-065D installed,
 Frank cleaning up while Jeremy
 is @ DEC-0130 making casing
 flush w/ ground.
 Harco here for drums
 Total of 5 H₂O, / mud and
 1 solid drum.
 1600: ADT off-site
 1615: CF off-site

5/26/11

0715: CF on-site
 0800: ADT on-site
 0840: flushing out DEC-045D
 1000: DEC-045D flushed out
 to 70ft, no further, well
 seems to be broken @ top
 of screen. ADT cleanup to
 move over to DEC-0130 to
 finish well
 1130: casing @ DEC-0130
 down to 65 ft, rig down
 Jeremy off to find a fuel
 filter after CF over to Auto
 Zone where they are out of
 that model filter.
 @ 1020am woman who lives
 near corner of Division and
 Vandeventer Ave in one of
 row houses comes over @
 in her vehicle w/ her husband
 honks her horn @ me and
 says "do I have to look @
 those guys throwing an orange
 out the window", I said

Location

Date _____

Project / Client

don't; "an orange" she said
yes. I said I would ~~talk~~ ^{talk}
talk to them but it's not
a big deal in this neighborhood
thinking she was kidding. She
was not; said she ~~was~~ ^{was}
I will call Dave Harrington".
Then sped away angry.
Before leaving to go buy a fuel
filter, Jeremy mentions that he
needs to leave @ 3 PM to
make it home for son's talent
show.

1220: resume drilling DEC-0130
1445: POT cleanup, DEC-0130
sampled to 85ft, casing @
80ft. ~~still~~ice. Trouble advancing
casing using tons of H₂O.
Jeremy not sure what problem is,
suspect that the bit on casing
is broken or worn.

15051: 406 - off-site

1535: CF off-side + I waiting for

Location

Date:

Project / Client

Drums on 1^{st} . 59-25 = 34 on

07/5: CF on-site
0840: ADT on-site, CF / TFF
Slag testing DEC-065D
ADT charging not swivel
on rig before beginning
work.

1130 XDT starts dn/11ng
 @ DEC-0130, with 8.5 x
 MW.

1230: DEC - 030
@ 85ft, ADT
1300: cleanup and move to
DEC - 044D.

1400: 0.5y @ DEC-044D but down
due to pump problem
530: start drilling @ DEC-044D
1620: DEC-044D @ 20ft. Aero
new for 3 drums / solid, 2
mud
1630: off site

1630: Off off-S, Le

Location _____

Date 5/31/11

Project / Client _____

0710: CF on-site
 0900: Jeremy (ADT) calls to say they are running late but are @ the lot on Monitor St and will be here shortly.

0945: ADT on-site, will setup on DEC-044D

1020: resume drilling DEC-044D @ 20ft

1110: Jeremy pulls casing (all 20ft) ~~off~~ because it's plugged w/ piece of boulder. On cobbles/boulders since 10ft

1230: DEC-044D @ 30ft, ^{new} pan was breaking the whole way. @ ~ 1145 CF stopped Jeremy and told him we had to stop mud leak. Hundreds of gallons been going into sewer. Jeremy advanced 7' to 15ft, then pulled them out ?? will ask

Location _____

Date 5/31/11

Project / Client _____

1310: Jeremy ~~will~~ will take rig back to shop. Swivel bolts broke off in threads. Dave H. said we can get the drum (mud) picked up tomorrow.

1415: ADT off-site

1420: CF off-site

✓

of

✓

✓

Location

Date

6/1/11

Project / Client

0730: CF on-site
 0810: ADT on-site, Dave H. also here. Just frank w/work truck, Jeremy not here yet, getting truck for rig.

0915: Called five day to end rental on 1 P18 ^{multi-rig} and 1 JP. Confirm # SC57066.

0925: Jeremy here w/rig (swivel is on) ADT setting up

0950: start drilling
 1030: Swivel broken again, rig down
 1050: Jeremy says rig has to go back to the shop, will bring back different rig tomorrow
 ADT cleanup

1215: ADT / CF off-site

Location

Date

6/2/11

Project / Client

0715: CF on-site
 0845: ADT (Frank) pulls up w/work truck. Dave H. (w/soil) also here
 0855: Jeremy here w/soil rig
 0950: resume drilling @ DEC 0440
 1340: boring completed @ 80ft setting well (DEC-0440)
 1450: DEC-0440 installed ADT
 now cleanup and manhole. Plan for tomorrow to clean by hand to 5ft new location for DEC-0450 then start drilling

1505: ADT off-site, no manhole
 1605: Harco on-site for 2 drums soil, 1 H2O (and)

1640: CF off-site

10730: CF on-site
 10830: ADT Frank and Chris Station
 1 on-site w/ work truck, setting
 manhole @ DEC-044D, rig not
 here yet.

0900: Jeremy on-site w/ drill
 rig.

10950: setting up to hand clean
 - new DEC-045D location. Will use
 a coning type bit w/ rig to break
 through concrete.

10410: DEC-045DR hand cleared
 to 5ft.

1315: Boring completed @ 80ft
 ADT setting well.

1325: when PVC was put in hole,
 it was 5ft down. Jeremy overdrill
 by 5ft.

1400: tried several things, but
 could not grab pipe. He says

see he has a tool @ the shop
 and can save the hole.
 CF says that's the best
 route. ADT packing up for
 day.

1430: CF picks up 1 drum
 from SR Coopervale
33 now on account

ADT generated 2 drums
 today, both used

1500: ADT off-site

1530: Arco here for 2 drums
 (used)

1545: CF off-site



Location

Date

6/6/11

Project / Client

0800: CF on-site to develop DEC-013D

0900: DEC-013D well screen likely broken, well sand clogged up valve several times. Kept tubing above bottom and took original out, but TD @ the end 3ft less than start

0905: ADT on-site

1035: DEC-045DR has been reserved. Sand pack going in now. Well will be @ the soft. ADT pulled out all PVC 1st to make sure hole and well are ok.

1120: DEC-045DR installed, casing out of hole, ADT cleanup and manhole. Will then jump over to drill DEC-0605 to 45 ft

Location

Date

6/6/11³³

Project / Client

1220: ADT lunch

1300: setting up @ DEC-0605: CF picks up 2 drums from JR Cooverage 31 now on acct.

1500: DEC-0605 down to 45 ft well will be set tomorrow since ADT brought a different size and types of screen. ADT cleaning up, generated 3 drums today all mud.

1600: ADT off-site

715: Harco here @ 1650 for 5 drums 2 H₂O 3 mud CF off-site

0600: CF on-site to develop DEC-045D

0800: DEC-045D developed turbidity meter quit @ the 40 gallons. Will call five for replacement.

0830: Jeremy (AOT) calls to say they were held up in traffic, will be here shortly.

1045: DEC-013D flushed w/ 255 gallons of H₂O, only well sand came out when 10 PVC was pulled out well was still 2+ ft short of 85 ft and can feel that there is stuff @ the bottom. Jeremy will call Dennis for his opinion, not sure why no silt came out if it were broken. Both Jeremy + Frank swear that well deep never came off when well was sandbed, or

045: CF will check depth again later today to see if anymore sand heaved in CF broken.

1115: start setting DEC-066S @ 45 ft.

1220: DEC-066S installed w/ sandpack 32-45 ft, then bentonite slurry to 5 ft. ADT pulling rest of casing.

1300: CF picks up 2 drums from J.R. Coopersage by now on acct.

1420: Arco here already, loaded 2 development drums from DEC-045D development.

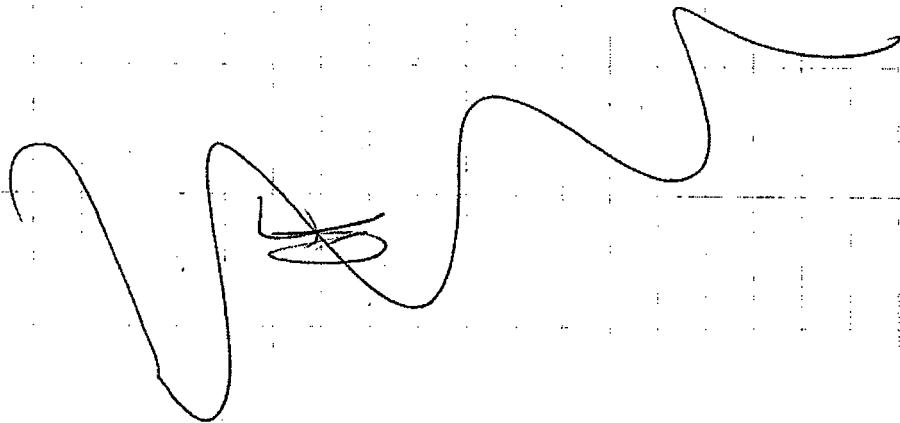
1500: DEC-0655 drilled ~~to~~ 35 ft, ADT out of drums, so stopping for day.

Location _____ Date 6/7/11

Project / Client _____

1500: Arco picks up 5 drums
total 2.720, 3 more

1615: CF off-site

Location _____ Date 6/8/11 37

Project / Client _____

1600: OK on-site to develop
DEC-0440.

1800: DEC-0440 developed
after 100 gallons removed

0920: ADT here (Jeremy + Chris)
1100: after letting Jeremy try
to use a whole pump to
develop/pump DEC-0130 for a
while, it became obvious
that Chris S. was intoxicated
he could not stand up straight,
his eyes were half closed,
and he was slurping his words.
~~CF~~ Since it was time to move
on and use rig to pump air
into well to evacuate sand,
CF called Buffalo office to
tell them to call ADT office
and get Chris off-site. CF
went to car and drove off to
avoid a confrontation.

Location _____

Date 6/8/11

Project / Client _____

1200: Called Jeremy (AOT) to tell him that he can continue to work as long as Chris is nowhere near work area. He said he took Chris to McDonald's and came back to air lift DEC-013D w/ rig compressor.

1350: DEC-013D screen open to bottom, AOT cleanup and move to DEC-0655.

CF picks up 2 more drums from JR Cooverage ~~DI~~ now on acct.

Aurco here @ 1300 banded up 2 H₂O drums from 44 D develop. went, waiting for more later.

1400: start drilling DEC-0655s from 35 ft

1600: 655 set @ 45 ft w/ 15 ft of sand 3A-45, bent string above that to 5 ft.

Location _____

Date 6/8/11

Project / Client _____

1630: Aurco off-site w/ 3 drums / mud, 2 H₂O AOT moving to DEC-0450 to abandon well

1800: well string pulled after most 60 ft came out of hole. Grout topped off, then benseal and concrete @ surface

1900: CF off-site

Location _____ Date 6/9/11

Project / Client _____

0600: CF on-site developing
DEC-0130

0802: DEC-0130 developed
100 gallons removed

0815: CF picks up 2 drums from
Cooperage 25 now on acct.

1030: DEC-0665 developed, 100 +
gallons removed

1100: CF picks up 2 drums 23
now on acct.

1245: DEC-0655 developed
100 + gallons removed

1330: CF picks up open-top
drum from JR Cooperage, 22
left on acct.

1345: Harco on-site for 7 drums
6 H2O, 1 OPE

Location _____

Date _____

Project / Client _____

1430: CF / Harco off-site

6/10/11

0635: CF on-site to slug
test:
DEC-013D
DEC-044D
DEC-0450
DEC-0655
DEC-0665

0730: DEC-0665 slug tests
completed

0930: DEC-013D slug tests
Completed

0930: DEC-0450 slug tests
completed. Dave H. (WSPAC)
on-site

1000: DEC-044D slug tests completed

1115: DEC-0655 slug tests
completed

1130: CF off-site to Fed Ex
in New Jersey.

6/13/11

Cloudy 60's AM

0730: CF on-site for SG
sampling.

0830: David S. on-site,
waiting for Pire Env delivery

0910: Pire Env drops off SG
equipment, CF/DS off to
FedEx on Masspel (cf Maurice
Ave to pick up Summa
Canisters

1115: SG-55 sampled

1125: SG-79 sampled

1130: SG-78 sampled

1140: Ambient air sample
collected

1314: SG-19 sampled

1325: SG-20 sampled

1340: SG-21 sampled

CF calls Pire Env. because
Helium detector not working

Location

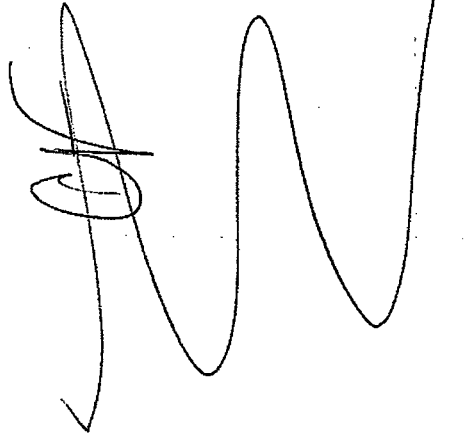
Date

6/13/11

Project / Client

1400: Price will deliver new
helium detector Tues AM 1st
thing
CF/OS to Fed Ex on
Maurice w/ today's SG
samples

1455: CF/OS off-site



Location

Date

6/14/11

Project / Client

0700: CF on-site
0720: DS on-site

0850: SG-62 sampled
0900: ~~SG~~ AA-061411 ambient
air sample collected
0930: SG-83 no pressure
lost, no sample likely, unless
regulator reading incorrect.
Will submit can for analysis

0940: SG-82 sampled
1010: SG-81 sampled, but can @ ps
1005: SG-80 sampled
1125: SG-060 and duplicate

Sample Collected

1135: SG-49 sampled

1140: SG-48 sampled

1340: SG-42 sampled

1350: SG-44 sampled

1400: SG-45 sampled

SG-46 and duplicate
Sample collected.

1415: CF/OS to Fed Ex

Location

Date

6/14/11

Project / Client

1515: CF 10s off-site

Location

Date

6/15/11

Project / Client

0700: OF on-site

0720: DS on-site

0900: SG-84 sampled

SG-58 sampled + DP-061511

SG-85 sampled

SG-86 sampled

1100: SG-57 sampled

SG-87 sampled

SG-59 sampled

SG-61 sampled (manhole is broken)

- called Buffalo

AA-061511 collected @ ~~0700~~

located on Morgan Ave. across the street from fire hydrant btw Division and Richardson.

1400: SG-43 sampled

SG-18 sampled

SG-47 sampled

SG-56 sampled

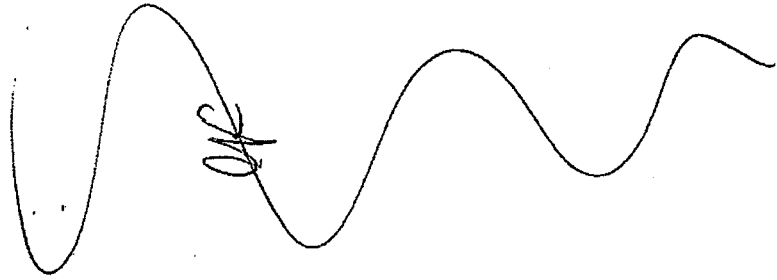
Location _____

Date 8/15/11

Project / Client _____

@ 1530: SG-603 and DUP2-0615/11
 collected
 CF/DS to Fed Ex on
 Manize Ave to Ship Summa's
 ' 1605: CF/DS off-site

OK



Location _____

Date 6/20/11

Project / Client _____

cloudy 70's AM

0700: CF on-site for GW
 sampling, waiting for Steve,
 Tim, and Kevin (URS)
 Also waiting for Pine Env. and
 M+Kern (lab).

0730: Steve L. calls to say
 he's running late due to
 GWB traffic. Tim and Kevin
 pulling up now.

0825: Steve L. here. Tim and
 Kevin are off doing water
 levels. CF will meet up w/ them.

1030: Pine Env drops off
 equipment.

1220: M+Kern drops off bottles
 for GW sampling.

1530: CF/SZ sampled DEC-0300/030
 TFI/KM sampling DEC-0640/064
 Elwater

Location _____

Date 6/20/11

Project / Client _____

Location _____

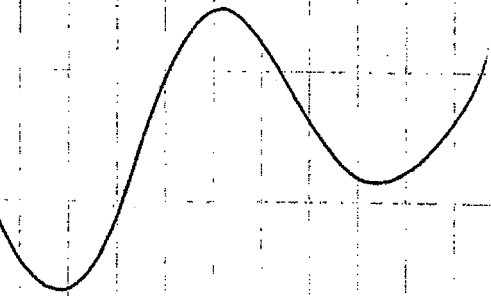
Date 6/20/11

Project / Client _____

1610: CF/SL off-site after
buying funnel/bubble wrap/
rubber bands

CF gets 1 drum from
JR Coopage 21 now on
acct.

CF



Location _____

Date 6/21/11

Project / Client _____

0600: CF @ gas station @ Fort
Lee. SL dropped off, leave
for site.

0635: CF/SL arrive on-site
setup @ DEC-031/31A

0830: DEC-031D sampled

0900: Tim I picks up drum
from JR Coopage 20
now on acct.

0945: DEC-031 sampled, 77 km
sampled DEC-046 and ~~DEC-046~~
moving to DEC-033.

1125: CF/SL sampled DEC-045D
1310: CF/SL sampled DEC-045
then pick up drum from
JR Coopage 19 left on acct.

Location _____

Date 6/21/11

Project / Client _____

1515: Alvaro picks up 2 drums
both purple H₂O

1615: CF/SL off-site

Location _____

Date 6/22/11

Project / Client _____

0610: CF/SL on-site @ DEC-065
cluster

8745: DEC-065B sampled

8745: DEC-065 sampled

9445: DEC-012 sampled

1208: DEC-043D sampled

TI/KM's compressor stopped
working, called Dave Env for
replacement, CF will meet here
w/ NJ so compressor can
be replaced today

3 drums 2 open top, 1
closed top from Cooperage
today. 16 left on acct.

1300: CF/SL off-site, TI/KM
to cont working w/ CF/SL's
compressor.

11/22/11 53

6/23/11

0610: CF/SL on-site cluster

755: DEC-044D sampled

0905: DEC-044 sampled

1040: DEC-013D sampled

1 drum picked up @ JR
Cooperage 15 left on account

1150: DEC-013 sampled

1320: DEC-042 sampled

1440: DEC-008 sampled

1500: Arco here for 2 H₂O drums

1600: CF/SL off-site

CF

6/24/11 55

0610: CF/SL on-site

725: DEC-004 sampled
CF/SL off to buy DEC
(1") to collect LNAPEL
and GW samples @
DEC-048

1000: five env on-site w/
pen-pump

1100: Collect 1 full 40 ml
vial and 1/2 full 40
ml vial of LNAPEL, CF
checked w/ George K (URS
chemist) he says it should
be enough volume

1200: Tim I picks up 3
open-top drums from JR
Cooperage 12 left on acct.

1300: ~~DEC-048~~ DEC-048 sampled
(DEC-0624(1)) and MS/MSD

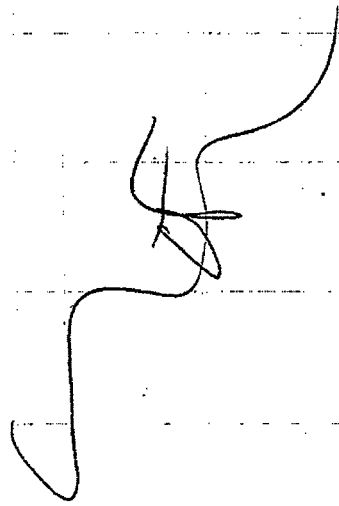
6/24/11

1300: also collected

1325: Spectrum / MTKem
dicks up 2 coolers, noted
no COC that samples were
just collected and are
not yet chilled. 15 amber
liter jars brought up temp
in both coolers.

~~1525~~ 1520: Arco here for
4 drums / H₂O, 3 PPE

1535: CF / SL off-site, TI / KM
off-site @ 1300



7/11/11

hazy, hot, humid

0700: CF on-site for, Silverwill
flag replacements 25 flags total.

0730: Arco on-site to do flags
w/ll start on Vandeventer
w/ DEC-045D, DEC-045DR,
DEC-045 (abandoned boring)
DEC-014D, and DEC-014DR

0900: Flags for DEC-045S, DEC-
045D and DEC-045 ~~DR~~ all
busted out, concrete is 5-6"
thick. Arco will then do
DEC-014D and DEC-014DR

0940: DEC-014D and DEC-014DR
are done on the same flag.

030: 5 Flags busted out, concrete
truck (Brooklyn Concrete) here.

1100: Bob Reeves (NYC Parks)
718 965 6965

1120: Spoke w/ Bob Reeves of
McCormick about sampling in
McGlowrie Pk on Monitor St.
He said he would call me
back w/ a good time

1255: 5 flags completed and
covered off w/ caution tape
Aarico off to get lunch, they
are done for the day.

1315: Off-site, have not
heard back from Bob Reeves
(Nite Parks)

CF

0700: CF on-site, Aarico also
pulling up.

Aarico will work on
~~CF~~ ~~underfoot~~ ~~underfoot~~
SB-25, SB-26, DEC-232
DEC-060; DEC-060

CF marking all remaining
flags w/

0740: AWL (Gray bldg on
Richardson) complained about
Aarico's being on sidewalk
w/ trench and about general
sidewalk condition. I said
we generally fix where we
put holes in ground. I

Saatchi we are here doing an
investigation for the stalled and
grave him Dave's ^(w/ wife) name, not
contact into the did not ask, I
left phone in the car
He was not overly angry,
and gave me his card.

Location _____

Date 7/12/11

Robert R. Pavlovich
President
rpavlovich@awlindustries.com



AWL INDUSTRIES, INC.
460 MORGAN AVENUE • BROOKLYN, NY 11222
TEL: 718-388-5500 • FAX: 718-388-2017
WWW.AWLINDUSTRIES.COM

1010: DOT comes by asking about container. Arco arranged for w/ Tully. They need to move it because they were milling paving Division btw Vanderbrant and Porter. Arco has permits on them for sidewalk work, not the container. ~~Arco~~ ^{Arco} VRS for was nothing to do w/ permits. Arco also having issues keeping their compressor running likely overheating temps in low 90's very humidity and broke one concrete bit. Only 2 flags busted out so far, 5 sidewalk @ Dec SB-25 and DEC-24TD busted out.

Location _____

Project / Client _____

Date 7/12/11

1145: Arco has all 5 flags busted out w/ muck down. Concrete should be here btw 1200 and 1300.
1450: concrete truck finally here
DEC-060 flags very thick
1520: Arco completes 5 flags @ Arco off-site

7/13/11

Sunny 80's AM

0645: Of on-site, Harco already here. Will work on Richardson's from Vandevent towards Morgan ~~area~~ (see pg. 60)

745: Harco saw-cutting 6 flags on Richardson: DEC-044, DEC-044D, SB-23, SB-24, DEC-031, and DEC-031D.

945: All 6 flags busted out

1130: Concrete truck here

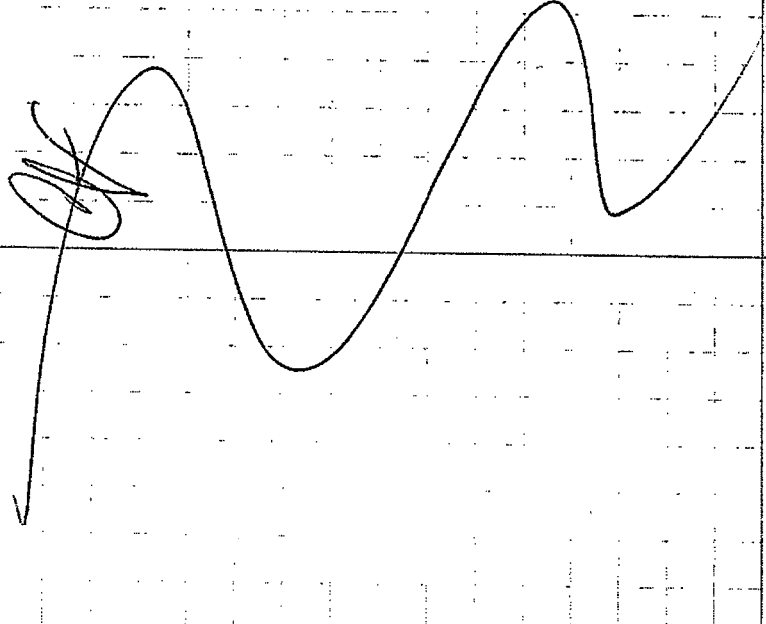
1300: Flags all formed, Harco edging and cleaning up. Dave Hl (WSECC) called. He is on his way to site.

1335: Walked Harco crew around to show them remaining locations, which are all marked with white spray paint. Harco off-site ~~(see pg. 60)~~

7/13/11

1345: Dave Hl (WSECC) on-site if showing flags (completed) and talking about AWZ president (see pg. 60)

1420: Of off-site



Job # 1176390.00002

Meeker Ave, Bldg 4 5/2/11

Klink Cosmo Mys DEC

weather: overcast, 54-60°
light wind from SE

745 MDascoli arrives at meeting
Spot.

830 Cary Friedman + Scott McEabe
+ I go to Vandervoort Ave
+ Division st to review
well locations.

945 Doria Katorbis, Radar
Solutions, arrives +
sets up at DEC-030

1045 Doria setup + starts scanning
at DEC-30A

GSSI SIR20 Digital

Radar system (control unit)

~~DOO~~ Utility Cart w/

500 mhz transceiver
antenna

Ditch witch (Subsite Electronics)
for utility detection
EM injection

Klink Casino
Meeker Ave

5/2/11

Location

Project Chart

Klink Casino
Meeker Ave

5/2/11

Location

Project Chart

- 1100 Doris moves DEC-30D
4' S + 1.5' W from
original location.
- 1102 Move to DEC-13D + Scan.
Location remains as marked.
- 1135 Clear DEC-64 + 64D
DEC-64 moved 1' N + 1' W
from original spot.
DEC-64D Moved 1' S from
original spot.
Vandal cover between
original spots.

Vandervort



- 1140 Break for bathroom + lunch.
- 1215 Lunch break over. Start to
Clear SV DEC-80 on Vandervort.
(Soil Vapor - SV-point)
- 1230 SV-80 is cleared as
marked.

- 1220 Move to SV-81, + DEC-14 +
DEC-14D, near DEC-14. on
Scan as one unit.
- 1250 Locations SV-81, DEC-14 +
DEC-14D are cleared as
marked. DEC-14D location
marked in white or orange as clear.
- 1252 Now scanning SV-82.
Move SV-82 ~2' W of white
marked location.
- 1305 Move to Now scanning SV-83.
Probable rebar in concrete flag
at location as marked. B/c of
possibility of pipe, move location
2' S + 3' W of original location.
- 1315 Now scanning DEC-45D.
Location cleared as marked.
- 1324 Now performing EMI activities
on Vandervort.
- 1342 Completed - no change on E-side
of Vandervort locations.
- 1345 Move to Scanning
DEC-66D + 66S.

Location: Klink Cosmo Date: 5/2/11
Project: Count Vandersee St + Richardson

1347 Scanning ^{DEC} 66S + 66D
locations as one unit.

Move DEC-66D ~25' S of
original mark to ON 5E
on GPR grid.

DEC-66S, stays as marked.
1412 5 light sprinkling of rain,
break + protect equipment.

1414/1421 both stopped, move
to Richardson St.

Scan SV-84 + DEC-44D as
one unit.

1453 SV-84 + DEC-44D remain
locations as originally marked.

1454 ~~above~~ now scan DEC-65S +
DEC-65D + SV-85 as one
unit.

Low penetration w/ GPR,
resolution is only to ~3' bgs.

1529 DEC 65S + 65D + SV-85
can stay as originally
marked.

Klink Cosmo Date: 5/2/11

1530 Scanning SV-86 on Richardson
1541 SV-86 is cleared where
marked.

1542 Scanning SV-87 on Morgan Ave
Move location to be further
south of electrical mark out.
move it 3' south of original
marking.

1556 Finished, return to car.

2 Location Vanderhoof + Division 5/9/11

Project: Clark
Klink Co SMO
Weather: sunny 60°-70°
light wind from N

7'0" MD arrives + nests Crayf.
+ Scott M.

Sampling protocol:

- TCL VOC from highest P/D + top of water or just top of water if no P/D or layer of high contamination
- 1 set from fill + 1 set from natural
- 1 TCL VOC + SVOC, pest., herb, PCB etc
- 2-202
- 1-802

Shallow well installation
10' into water
1st screen 5' above water
water at 25"
2"
0.010 slot
#0 sand

DTB ~45' deep

corner of Division Pl +
Porter Ave 5/9/11

Project: Clark

Deep well installation

DTB ~35' from deeper than shallow
2"
10' of screen
0.010 slot
#0 sand

830 ADT arrives w/ 2 vacation crews
Greg Rivera
Chris Iodice
with Mike Brady
Leo Malynkov

840 Start hand clearing
DEC-43D

w/ Chris + Leo at corner of
Division Pl + Porter Ave.

DEC-43D dry, no odor
0' 0' asphalt
0' 0-3' dark brown FILL - sand, gravel
+ some bricks
0' 3'-5' medium brown vt-b SAND w/
some silt + few vt-gravel
+ few cobbles

Division + Porter - DEC 430

Date 5/9/11

Location

Project / Client Kwikie Casino

DEC-6DD

955 Cleared DEC-430 to 5'.
No obstructions encountered.
Now clean up + patching location.

1020 start with sidewalk
at DEC-6DD on
Porter Ave after getting
the concrete saw.

1025 Dave Harrington, DEC
arrives.
shows spot for DEC-7D.
on Beedel St.

PID DEC-6DD
0' concrete 3"
0.3 3'-1.5' dk brown FILL - ~~silt~~ sand,
0 gravel, some sand, trace brick
0.15' 5' net brown SILT + sand
0.5' few angular gravel
0.6 4' Boulder @ 4' able to remove
4-5' no other 10' stringing
same as above.

Beedel St - DEC 7D 5/9/11

Project / Client Kwikie Casino

DEC-7D

1110 DEC-6DD hand
cleared to 5'. no
obstructions. Now cleaning
up + filling location.

1130 Break for lunch

1210 ADT Chris + Leo pick up

concrete saw from Greg + Mike.
1220 getting setup on DEC-7D
on Beedel St.

1230 start with sidewalk

1238 Sidewalk broken up

PID DEC-7D
5" concrete

0 5'-15' dk brown FILL - silt, sand,
0.3 gravel, roots

0.03 15'-4' net brown - SILT + sand

0 ↓ no other

0 4'-5' same as above, ~~very~~
dense for hand dig

1332 Cleared to 5',
no obstructions.

Location Vander voort bldg Date 5/9/11
Project Name Boulder Division

1400 Cleaned up DEC-7D.
1415 Retrieved concrete saw
from other crew. Set
up @ DEC-15D on
Vander voort bldg
Division
1423 Start cutting sidewalk.
1430 Concrete cut + being cleaned.

150 DEC-15D
0 0'-5" Concrete
0 5'-15' Dk brown FILL-silt,
sand, few gravel + lumps
0 2'-0' true glass, trace metal
0 1.5' ~~2.0'~~ red brown ~~STC~~ FILL
0 SAND FILL silt
2'-0' v-l sand, fine plastic
2.5' red brown-silt +
v-l sand, fine gravel
Boulder @ 2.1', 5" thick
Boulder @ 2.5' 7" thick
cleaned to 52"

Location Date 5/9/11
Project Name Klink Cosmo

1600 cleaned to 52' at DEC-15D.
Remnants end, clean
up + cold patch.
will finish tomorrow.
1630 URS + ADT off site.
Megan Dandel.

18 Vanderroot bottom 5/10/11

Project: NYDEC Vlnk Cosmo
Weather: sunny, 60°-70°, light wind from W N

7⁰⁰ AM MD arrives on-site to save parking spaces.
Cory Friedman on-site.
8⁰⁰ AM Mike Iuliano, + Scott McCabe on-site.

ADT crews on-site
Greg + Mike Doby
Chris I. + Bernie
Sonic crew (Jeremy + Frank) on their way.

9⁰⁰ AM Chris Iuliano + Bernie set up at DEC-15D to attempt to clear to 5'. Vacuum down to 52', then continue (previously cleared on 5/9/11) then continue to clear to 60'.

PID DEC-15D
0 4'-5' Boulder, cobbles, few sand + silt, red brown paving stone

19 E-side of Vanderroot bottom 5/10/11
Project: NYDEC Vlnk Cosmo
Weather: sunny, 60°-70°, light wind from W N

10⁰⁰ Cleared DEC-15D to 5'. No pipes or utilities found. Cleaned up area, now move up Vanderroot.
10²⁵ Set up at DEC-45D + start with concrete. Trying to keep dust down w/ water on saw.

Now concrete removed vacuuming + otherwise clearing the hole.

DEC-45D
0 0'-6" concrete
0 6"-2' blue brown fill - wood, sand, silt, gravel, heavy glass, two plastic concrete cobbles, bricks
0 2'-5' blue brown fill - no odor, sand, silt, cobbles, gravel

11⁴⁰ Cleared DEC-45D to 5'. No obstructions or utilities.

20 E side of
 Vanderhoof blun
 Division Richardson
 Project / Client

5/10/11
 Date
 5/10/11
 Date

unny, 70°, mod steady wind
 from N

1210 Set up at DEC-14R+14D.

Take a lunch break

1350 ADT starts with DEC-14R+14D

concrete, then jack hammering it out

Jacking out DEC-14D

PID DEC-14D

0'-5" concrete

0.6 5'-1' Black FILL - sand, silt, gravel
 no odor

0.5 1'-2' wet brown FILL - sand,
 silt, gravel, trace brick,
 trace glass

0.4 2'-5' wet brown FILL -

0.4 sand, silt, trace brick

0.5

1415 Hand cleared DEC-14D
 to 5'. No utilities or
 obstructions.

1425 cleared up ^{14D} 14D, now
 start cutting DEC-14R.

1425 DEC-14R

0'-5" concrete

5'-16" ~~black~~ FILL -

0 sand, silt, gravel, no odor,
 trace glass, trace brick

0 16"-5' wet brown FILL - sand,
 silt, few bricks, trace

0 glass, compact no odor

0 concrete cube @ 2.5'

(lease from 3.5'-5')

1525 cleared DEC-14R to 5'
 no obstructions, no utilities.

cleaning up filling patching hole.

1600 ADT off-site

1615 VES - MD - off-site

U Dead.

Richardson

5/11/11

Location

DATE

Project Name

Spokane Lake Gsmo

Weather: partly cloudy, 60°-67°
wind steady from the N

715 I arrive @ site meet
Scott McCabe + Cory Friedman

800 ADT crews on site
~~for~~ Jeremy, Frank + Chris
on site

German Torres + Mike Brady
to complete 2 vacuum
locations. DEC-65 + 65D.

Another sonar crew is on the way

845 Safety meeting w/vacuum crew

830 Vacuum crew starts to get

set up on DEC-65 + 65D.

905 Cut concrete for 2 bowls.

+ then jack hammering out
concrete.

920 Start clearing DEC-65D -

5/11/11

DATE

Location

Project Name

DEC-65

915 DEC-65D

0 5" concrete

0 5"-1.5' med brown FILL sand, silt,

0 gravel

0.3 1.5'-5' med brown SILT + VF^{med} sand

0 no odor, ~~at base~~ VF - no gravel

0 cables

0

1000

Finished hand clearing DEC-65

Now start clearing DEC-65D

915 DEC-65D

5' concrete

0 5"-1.5' med brown FILL -

0 sand, silt, gravel, face brick

0 1.5'-5' med brown SILT + VF^{med} sand

0 no odor, trace of VF gravel

trace cable

1055 Finished hand clearing

DEC-65D. No other wires

or obstructions

Now cleaning up area.

Locations all patched.

24 Location Vanderhoort + Division 5/11/11
 Project Name Klink Coshmo
 DEC-30D

1130 ADT sonic crew
 Greg Rivera
 Tommy Sheerin
 arrive - tire blew out on the LIE + had to be fixed.

1200 Uh off load rig at DEC-30D at corner of Vanderhoort + Division Pl.

1210 Break for lunch

1220 Lunch over, start setting up w/ cones + tape + mud pan.

1238 Setting up, problem w/ getting the pump moving.

1318 Pump fixed - it was full of sand.

1322 Drilling 7" casing 10' bgs to start.

Tommy Sheerin is the official driller, but he is training Greg to be the driller, so it's going a little slower than normal.

25 Location Vanderhoort + Division 5/11/11
 Project Name Klink Coshmo
 DEC-30D

1329 Drilled in 5' of 7" casing. Now drilling 5" casing in.
 1410 Drilled 5" casing to 20'.
 1452 Drilled 5" casing to 45'.
 Now prep to sample by getting sample rods from Perry's truck.

1515 retrieve rods, now cleaning up after driving casing down to grade. cleaning out mud pan.

1600 ADT Greg + Tommy + Bernie off-site.

Generated

DEC-30D 3 drums of soil + water
 DEC-6546SD 1 drum soil cuttings + handker concrete

1635 - 1650 Arrive picks up 8 drums from 5/11/11 from work at 2 sonic holes + 2 hand clers.

1650 URS off-site

Ugher Dancer

Vanderhoof + Division 5/12/11

NYSDDEC

Weather: partly cloudy, 60°-70°,
light wind from NE

720 MD on-site + meet Greg
Friedman at Division Plaza.
750 ADT - Bernie on-site w/ me + rig.
820 ADT - Jeremy + Frank arrive
w/ rig

830 ADT - Tony + Greg arrive.
850 ADT crew at DEC-30D.

Tony, Greg, Bernie
off-load rig + start to get
set up.

920 Rig positioned + Conduct
safety meeting.

930 Resume set up after meeting.

1010 Start sampling 45-50 at

1050 ~~revised~~ DEC-30D.
DEC-30D/S-1/45-50

Rec: 8"
110: 0.0
Desc: Boulder, fine
medium sand
Boulders @ 48.5'

Note: Having trouble w/ 2' extension
pieces on sampler.

Vanderhoof + Division 5/12/11

DEC-30D

1200 ~~1130~~ retrieve

DEC-30D/S-2/400'-55'

Rec: 5"

110°

Desc: Boulder @ 50'-53.5'

can't drill thru it

Rock mushroomed out of end

Now will advance casing to 55' +
try to sample again, 55'-60', after
retrieving boulder @ 1200 pm.

1205 Pieces of boulder are stuck in the
casing. Try to spin the sampler
down to remove the rock.

Retrieve sampler + it falls,

1252 Re-retrieve sampler.

Casing slipped down to 57'

PST another 5' on + drill down to 60'.

1310 Break for lunch.

1340 Lunch over, Sample 60'-65'.

Missed 55'-60 5/2

Sampler casing slipped

5/12/11

DEC-30D

DEC-30D/S-4/60-65'

Rec: 24"

PID: 0, 0, 0

Deser: loose VF-VC SAND,

medium fine VC gravel

64.5' - 66' fine GRAVEL, some cobble

no odor, wet

1440 Retrieve:

DEC-30D/S-5/65-70

Rec: 4"

PID: 0

Deser: very granitic

on end of sampler

@ 65', no additional sample,

boulder pushed everything

else 65-70 out at the top.

1445 Retrieve:

DEC-30D/S-6/70-75

Rec: 48"

PID: 0, 0, 0, 0, 0 loose

Deser: med brown, no odor

70-73 #f-c SAND w/

few vf-c gravel

73-75 #f-c SAND + gravel

5/12/11

DEC-30D

1520 Retrieve:

DEC-30D/S-7/75-80

Rec: 60"

PID: 0 →

Deser: med brown, no odor,

VF-VC SAND w/ few VF-c

gravel, loose

1525 Now cleaning up + prepping

to leave casing in the ground

to install monitoring well

on Monday, 5/16/11.

1530 AARCO arrives.

DEC-300 granted 1 drum today.

1600 JKST AAT off site

Meyer David

Location _____ Date 5/16/14

Project / Client Mecker Ave

57° Rain, viz

1200- Tim Iffovich returns to DEC-0360
 @ Spic + Spar site to rerun slug test.
 Will use 2' denssten slug & 1 1/4" dia.
 to run slug test.

1400- Spoke w/ Scott M., agreed the test
 will take to long & stopped test
 after approx 2 hours

1700- Performed slug test on DEC-310, 315, 44
 All three wells recorded very quickly
 See slug Test logs for details
 URS off site

TWS

Location _____

Date 5/17/14

Project / Client Mecker Ave - Klink Cosmo

58° Rain, Thunder & lightning in am

0730 - T Iffovich (URS) on-site will wait
 to see if thunder & lightning will stop.

0835- Set up on DEC-430 to begin
 Developing. Will use a Wattera +
 Generator to develop. Will purge ~100 gal
 (2-55 gal drums). Will record parameters
 pH, Turb. Temp & Spec Cond.

1015- Finish developing DEC-430.
 Purged 100 gal.

1050- Picked up 4 drums from drum place.
 (see log in back of book)

1115- Started developing DEC-300

1300- Finish developing DEC-300
 will move to DEC-290

1345- Start developing DEC-290
 1530- Finish developing DEC-290
 1730- URS off site

Meeker Ave / Klink Cosmo

60°, Cloudy

5/18/11

0730 - T. Ifkusch (URS) on site.

Meet w/ S. McCabe & C. Friedman (URS)

0915 - Begin development on DEC-15D

1100 - Finish developing DEC-15D, w/ll meet up w/ S. McCabe.

1400 - Begin to slug Test DEC-43 & DEC-43D

1445 - Move to slug Test DEC-29

1700 - Set a rig w/ Carrie for a couple hours throughout the day. OFF site

Tues

Meeker Ave - Klink Cosmo

63°, Cloudy

5/19/11

0730 - T. Ifkusch on site. stopped @

Hardware store for supplies & gas station to fill up the generator.

0745 - Meet up w/ S. McCabe

w/ll begin slug Testing for the day

1130 - Run slug Tests on DEC-29D, DEC-15 & DEC-15D. Pipe dropped off tubing for development.

1140 - Picked up 4 drums for development

1220 - Begin developing DEC 14D

1355 - Finish developing DEC 14D

Begin DEC-14R

1514 - Finish 14R. Move to

DEC 64D

1700 - Finish developing on DEC 64D
URS OFF site

Tues

5/20/14

Project / Client

Meeker Ave - Klink Cosmo

70° Cloudy

0830- Begin to slug Test DEC-30 & DEC-30D.

1000- Slug Tests complete, will pick up 2 drums for development

1030- Begin developing DEC-007D.

1200 DEC-007D developed. Move to

slug Test DEC-014D & DEC-014R

1300- Break for lunch

1345- Move to slug Test DEC-012

1430- URS (Tiffen) off site to airport

Tw1

5/23/14

Project / Client

Meeker - Klink Cosmo

Cloudy 60°

0730 Tiffen (URS) on site, meet up w/ C. Friedman (URS) to discuss the days work. Will setup to drill DEC-013D. Will drill straight to 45' feet & begin logging. (use DEC-013 boring log for 0-45' description)

0830- ADT on site

Gregg Rivera - Driller

Dave Moon - Helper

0900- Drillers fill up water tank @ hydrant & setup on DEC-013D. Had Tailgate safety meeting w/ drillers.

Borehole was previously cleaned to 5' bys by Vector.

NYS DEC - Dave Harrington on site

Drillers are using a Compact Foton

Sonic 17-C Drill Rig

1030- Rig sprung a leak of hydraulic fluid from a fitting above the head.

Gregg took a picture & called the shop

ADT will drive the parts out to repair.

Will perform a slug Test on DEC-012

while waiting

1215 Rerford slug Test on DEC-07D &

DEC-64D. Still waiting on parts to be delivered.

1235- The ADT mechanic arrives to fix the rig

1235- Picked up 2 drums for development later.

Driller left w/ mechanic to pick up supplies to fix rig.

1305- Driller & Mechanic return to fix rig.

1315- Rig was fixed, resume drilling

1400- Around 17 lbs, drilling through boulder. water was unable to get down through the stuffed casing. Driller's used rods to drill through the casing & try to clean out the material clogging the casing. A fitting on the water pump also seems to be leaking. Have difficulty sucking up water from the mud pan.

1435- Support Truck goes to fill up water. Aired the drillers to drain the mud pan more frequently to avoid overflow.

1515- Drillers got to 40'. 3 drums of water & 1 soil drum. Carrie also asked drillers to clean up muddy water left around the borehole & spread

1620- Drillers Filled up w/ fresh water & cleaned up the area.

Drillers off site

1650- Put up w/ C. Friedman to discuss progress. Start to develop DEC-006DD

1730- Just able to get generator started. may be oil, will pick some up after well is developed

1900- Development complete @ DEC 006DD. TI off site to Antelope for oil.

Tad

Date 5/24/14

Project: Meeker Ave - Klink Casms

Partly Cloudy, 80°

0715 - T. Iskovich (URS) on site to block off

Area around DEC-013D. Meet w/

C. Friedman (URS) to discuss the days work.

Will continue to drill DEC-013D & start
logging the Log @ 75', currently @ 40'.

0730 - TI Slug Tests well DEC-045.

0805 - Slug Test Complete. Instant Recovery

0830 - Drillers begin setting up on DEC-013D

0900 - Drillers go to fill up water tank @ hydrant

0920 - Drillers return w/ water ~~begin drilling~~0927 - Drillers go to other support truck to
grab another 7" casing, the 7" casing already
in the hole has sunk down

0935 - Drillers return, begin drilling

Driller - Greg Rivera, Helper - Dave Moon

1000 - Drilled to 55', drillers move to get water

1112 - Drillers return w/ water

1159 - Drillers on of water again. Break for lunch

1215 - Drillers continue drilling

1300 - Haven't drilled 5' since restarting & already
out of water, this is the fifth trip

1310 - Continue drilling, picked up 2 drums for development

1345 - Collected sample from 60-65' but out of water
again (4th trip), the formation seems to be

Location:

Project: Meeker Ave - Klink Casms

Partly Cloudy, 80°

taking all the water sent down the casing.

No water has come up through the casing
into the mud pan. Drillers still think

these water pump isn't working properly

Asked the drillers to clean up some of the

puddles in the road made by water coming

out of the rods during sample extraction.

1357 - Continue drilling

1414 - Drillers fill up water tank again (in)

1420 - Spoke w/ S. McCabe regarding progress
& about using so much water @ thislocation. Will continue to drill down
to 85' bgs

1430 - Return w/ water, continue drilling

1515 - Sampled 65-70' interval, at this rate

will not be able to drive another 5' section
of casing in before 1600. Driller movesto fill water tank & will move casing flush
w/ ground level

1530 - Drillers begin to clean up.

1620 - Drillers off site. Set up on DEC-064
for development. Well is supposed to

be 45' deep. But a depth to

water was found @ 2.22' & confi →

Location

Project / Client

Maker Ave - Klink Creek

Date

5/22/11

a depth to bottom was 25.40 TI & CF used tubing to jet @ the bottom of the well but no material came up. Seemed like a hard bottom to the well. Spoke w/ S. McCabe. Drillers will try to flush out the well in the morning 5/23/11. Move to develop DEC-066D

1830 - Finished developing 666D. TI off site

GWL

Location

Project / Client

Maker Ave - Klink Creek

Date

5/23/11

Sunny, 80°

0730 - T I French on site, spoke w/ C. Finckley about the days work. Performed slug test on DEC-066DD, however, will run the test again later. Don't think the slug was completely under water, need longer rope. Spoke w/ S. McCabe, drillers will try to flush out DEC-064.

0840 - Drillers arrive. Greg Rivera - Driller

Gave names - helper

0900 - Drillers setup on DEC-064

0945 - Drillers flushed outside well using extreme. They injected water into the well pushing out the sand that got into the well. Took a depth to bottom measurement of 44.8' bgs.

Spoke w/ S. McCabe on progress

1000 - Drillers begin drilling @ DEC-030D

Starting @ 70' bgs

1045 Still having trouble pushing the casing down.

Jeremy came over to look @ the rig.

Drillers will try to bypass the water pump to see if it helps to put water down. Believe the water pump still isn't working properly.

1115 - Drillers try again to advance casing, unable to advance casing
 1130 - Drill sig still not working properly.

decide the rig has to be taken back to the shop for maintenance. Spoke w/

C. Friedman. Drillers will leave casing, to be completed by the other drill sig. Drillers begin clean up.

1300 - Pick up 5 drums to continue development

1315 - Attempted to develop DEC-015, the

well was installed to ~80' depth to

bottom was measured 60.9'. Tried

cleaning well w/ water but tubing

kept getting clogged w/ sand. C.F. spoke

w/ McCabe, will have drillers flush it

out in the morning. Move to DEC-064

to continue development

1630 - Development complete @ 64'. AARCO

picked up 5 purge water drums + 2 soil/mud

TI off site

TW

Partly Sunny, 75°

0815 - TIFRANK (URS) arrives on-site

will move to DEC-015 to slug test

1000 - Slug Test at DEC-015, DEC-066 D,

DEC-064 + DEC-006 DD. Move

to setup on DEC-065 D for development.

1300 - Finish Developing DEC-065 D.

will grab lunch + meet w/

C. Friedman

1500 - Drillers stop the day (see C.F. notes)

1530 - C.F. off site

1545 - AARCO arrives to pick up the drums

1615 - All drums picked up. TI off site

TW

Location _____ Date 5/22/94Project / Client Meeker Ave - Klink CanoeSunny 80°

0815- T. Ifkovich on site. Will slug test DEC-065D.
 1230- Drive to Friday to ship geotechnical
 Samples to USGS buffer office. Watched
 the rig w/ C. Friedman. TI offsite

TWI

Location Meeker Ave / Klink Canoe Date 5/22/94

Project / Client _____

Weather: Overcast, 80°

0730- T. Ifkovich + K. McGinn on site @
 Staples. Meet w/ C. Friedman. Sampling
 equipment has not yet arrived. Sample
 bottles have not yet arrived. Grab interface
 probe from CF + begin a round of water
 levels (see W.L. sheet).

1100- Rene delivers equipment. CF + Steve
 meet Rene @ MacAnals for equipment.

1130- Breakfast for lunch.

1145- Witham Lab delivers bottles +

4 readers. Split up bottles + equipment
 w/ CF + Steve.

1204- Set up on DEC-064 D to
 begin sampling. Will use bladder
 pump + Horiba D-52 for parameters. Collect
 samples for TCE VOCs + TICs analysis.

1414- Finish + collect sample @ DEC-065D

1444- Begin sampling DEC-064

1600- Begin sampling DEC-066D

1733- Finish sampling DEC-066D

collected Field Duplicate, move to

DEC-066D

1900- Finish sampling DEC-066D. Go to

Autorec for socket. O.F.F. site

Location Meeker Ave / Klink Corro Date 6/21/11
 Project / Client NYSDEC

Sunny, 80°

0720 T. J. Kluich & K. McGovern on site.
 Meet w/ C. Friedman & Steve to
 exchange samples & containers. CF set
 up on DEC-031 & DEC-0310. Move
 to setup on DEC-046 & collect w/ c
 + depth to bottom. (Car was parked over it
 yesterday)

0915 - Finished DEC-046, collected 115/1450.

Picked up another water drum

1035 - Finish sampling DEC-033. Will move to
 DEC-047

1215 - Finish DEC-047, will dump water
 in drum, give samples to Carrie, &
 break for lunch

1310 - Setup & begin to sample DEC-007

1435 - Finish DEC-007, move to DEC-007D

1606 - Finish DEC-007D, move to DEC-048

1620 - Found trace UAPL w/ slight Pet. odor
 @ DEC-048, OTW-25.45, DTP-25.42
 spoke w/ S. McCabe, will move to different
 well. Will set up on DEC-028
 S. McCabe called back to advise to call
 the DEC & report the spill.

Location Meeker Ave / Klink Corro Date 6/21/11
 Project / Client NYSDEC

1500 - Spoke w/ Steve from the NYSDEC
 (1800-457-7362). Reported 3/100's of
 a foot of UAPL (at Petroluem odor)
 found in well DEC-048 on Withers St.
 in Brooklyn, NY. Possible cause is
 from a fuel truck parked on side walk.
 Responsible party is unknown.

DEC sig # - 2-241-130

Spill # - 110 31 90

1820 - Finished sampling DEC-028, dumped
 water into water drum. Will stop @
 Staples for bubble wrap & freeze
 bags for ice ORS off-site

END

Location Muskegon Ave / Kink Corro Date 6/22/11Project / Client WVS DECOvercast, 80°

0720 - T. Iversen & K. McGowan onsite. Meet up w/ C. Friedman & Steve. Tell CF about the LWAR @ DEC-018 & that it was called in to the DEC. Gave her purge logs for DEC-007D & DEC-028.

0730 - Move to setup on DEC-015
 0858 - Finish DEC-015, move to DEC-015D
 0923 - Sheriff from WVS DEC called for more background information on the spill called in yesterday. Advised that S. Meese would have more background information.

0930 - George Kistler called to advise they want the LWARL in DEC-048 sampled for VOCs, SVOCs, Petroleum ID & Specific Gravity. Spoke w/ CF about sampling. She is going to call George to discuss the sampling.

0935 - CF called back to say not to worry about sampling DEC-048 just yet.

1010 - Finish DEC-015D, will get a water drum & PRE drum.

1115 - Setup on DEC-022 but air compressor is cutting out. Will take on early lunch.

1244 - Air compressor still not working. Checked all connections.

Location Muskegon Ave / Kink Corro Date 6/22/11Project / Client WVS DEC

CF called Pine for a replacement. We took CF's Air Compressor and continued to sample on DEC-043. CF & Steve will get another water drum & open top drum for PRE.

1345 - Finish sampling DEC-043, will take purge water to water drum & set up on DEC-022D

1410 - Spectrum Labs arrives to pick up the samples.

1450 - Finish sampling @ DEC-022D

DARCO arrives to pick up the drums.
 2 - PRE/Tubing, 1 - Purge Water

Setup on DEC-032 to begin sampling
 1620 - Finish sampling @ DEC-032 & move to DEC-066D

1800 - Finish sampling DEC-066D, move to DEC-066

1850 - Finish DEC-066. DO readings were fluctuating from 9.80 to 2.20. Not working properly.

1900 - VBS clean up, off site

Location MacKen Ave / Klink Come Date 6/23/11
 Project / Client NYS DEC

Cloudy, 80°

0720 - T. Iserovich & K. McGovern on-site
 Grab tubing from C. Friedman & setup
 on DEC-029D.

0808 - Finished @ DEC-029D, began sampling
 @ DEC-029.

0954 - S. McCabe called. We will go to another
 site in the Bronx to get some elevation
 measurements later today.

1003 - Finish sampling DEC-029. Move to DEC-014D.

1200 - Finished sampling DEC-014D. Move to DEC-048.

1300 - Finished sampling DEC-014R.

Break for lunch

1330 - Setup on DEC-009

1442 - Finish sampling DEC-009

1645 - Drove to Can Ed site @ 295

Locust Ave in the Bronx.

Measured distance from ground surface

to Top of Riser for MWMF-05

& MWMF-06.

MWMF-05 \rightarrow 0.24'

MWMF-06 \rightarrow 0.30'

Return to hotel

Location MacKen Ave / Klink Come Date 6/24/11
 Project / Client NYS DEC

0715 - T. Iserovich & K. McGovern on-site

Setup on DEC-039. Will collect

a Field Duplicate @ this location

0825 - Finish DEC-039 will move DEC-027

0935 - Finish DEC-027 will meal up

with Carole to do final cleanup

1215 - Assisted Carole & Steve w/ LARAC

sampling @ DEC-048, left all

equipment w/ Carole. Left site

for JFK Airport

Test

[illegible]

0730 SIM acquires OWSITE.
C.F. & M.D. OWSITE in STAPLES
PARKING LOT WAITING FOR DORA OF
RANDOM SOLUTIONS TO ARRIVE
WX: OVERCAST, 5-9 OF
0800 PINE ENVIRONMENTAL OWSITE
TO DROP OFF EQUIP.
2 - MURIKAZE PLUS 400 psi / 1/2 c / 4 lbs
2 - 100 Solomon INTERFACE PUMP
FIREWATER, BUMPUPS & WINTERGLOVES.
0830 M.S. GOES TO BEYOND MONITORING
WELL & SOIL GAS LOCATIONS.
1st MONTH WELLS & SOIL GAS.
0905 RAGAN SOLUTIONS - DOREA
ARRIVE.
→ will provide utility clearance
at well & soil gas locations
→ SEE 2000 GPR, OTHER WORK
IN PROGRESS INSTANT, MC VANGUARD
PUMP LOCATION w/
M.D. will work WITH DOREA.
- call ADI. AS OF KNOW, THEY DO
NOT HAVE PERMITS TO START
TOMBRAVEN (TARBON) DEMONIS

Location

Date

Project / Client

Date

Project / Client

(cont.) will keep Sam informed on status.

→ probably will have permits on Wednesday.

→ Sam calls 2 hrs. David visits was not heard anything yet about permits for work on Thursday Friday.

→ Sam calls ARCO to cancel drum pit for today.

→ Sam call D.H. with update

→ Sam calls Coleman with update.

200 Sam & C.F. off site for college part.

600 Sam speaks with D.H. re permits available for Wed. ADT need to

send 2- Vactor crews & 2 Rigs.

1615 Sam calls Dennis re ADT.

OIC with D.H. request

630 Measure inspection at College Rd.

1000 off site

Location

Date

Project / Client

Date

Project / Client

0730 Sam marks at site.

Wx: clear, sunny 60°

→ MD is on another site, C.F.

went to office.

0800 Dennis onsite. Have 6 location

East of Vactorport to clear

to complete utility clearance.

0830 move to DEC 0430 10' sag

w/ location at center.

0900 move to DEC 0600

0930 move to DEC 0600

1000 move to DEC 0600 ACT

1015 move to DEC 0150

1035 move to SB-79.

- with white van dumping

with SK crew at 10-40 & D.H.

NJ put EBC 2859

1110 Finish location DEC 0190

1200 D.H. off site.

→ ADT calls, no DOT permits.

- Sam calls D.H. we will take when

H.R. gets onsite.

- S.H. goes to find all SC.

Wells & put them on a floor

Location

Date

Project / Client

5/3/11

5/3/11 Sun

1430 S.M & D.H Finish Rebuilding
Site Characterization location.

-> GOTO mark up a duplicate set
of figures.

1600 Dennis OF ADT calls, D.H. wants
to call Lynn Carr AT ADT TO
clear up problems with permits.

1615 DOT permits should be ready
Tomorrow ~ 3pm

1630 S.M & D.H OFF SITE

Location

Date

Project / Client

5/3/11

5/4/11 Sun

0800 S.M & D.H Leave Home.
WX: 60°F, RAIN.

1000 S.M & D.H GOTO GET A GENERATOR.
TO perform shell maintenance
(will need to power drill used to
drill out stuck bolts).

1030 Start well maintenance.

1130 Dennis calls. DOT still not giving
ADT permits. Lynn is out too.

1530 Peter from Zebra calls. They
have all permits but ours.
Arizona vanguard will need
a sketch.

- S.M & D.H now performing well
maintenance.

1900 S.M & D.H OFF SITE. DMR
for the day

Location _____

Date 5/4/11

Project / Client _____

5/4/11

0800 Sun & D.H. arrive continuing

well maintenance.

WX: Clear, sunny, 60°F.

10:00 Zeeba calls with comment. Sun goes

John description of the gas location

across Vanderhoof. They will be

ready to go for tomorrow

11:00 ADT calls. Still no permits. D.H. will

have to call 718-222-7301 or 7256

1200 Sun & D.H. leave with well maintenance.

- Sun's Rental car is broken and a

single filler car. Sun & D.H. go to

Enterprise in Manning & Kent

1300 ADT off for Logan for meeting

Sun goes to College Road to

Take down temporary down markers

& meet with Ashley for ADS utility.

Location _____

Date 5/6/11

Project / Client _____

5/6/11

0730 Sun arrive

WX: Clear, sunny, 59°F.

Equipment:

- Nutri-Rate Plus. 90/kef/40/02/H2S

- waiting for Zeeba Env to arrive

at site to perform the boring &

Soil gas impact installation.

845 Zeeba Env arrive.

Charles &

truck-mounted 4620 DT.

- Set up on SG-079.

1000 move to SG-078

- note: 1 pediment - 1 soil sample for

Each location

- if taking over working with Zeeba

- Sun calls covered about Jacketers

wears across Vanderhoof between

Richardson & Frost.

- Call Nathan. Schedule LAB pickup

for next morning, Wed & Fri

1230 over 5:00

5/9/11

0700 SIM OWSITE

WX: PARTLY CLOUDY, 62°F.

0710: C.F. & M.D. OWSITE

EQUIPMENT:

MULTI ROPE PLUS: 2 (10/100) 0.14 S/CO.

→ WAITING FOR ADT TO ARRIVE OWSITE

0830 ADT OWSITE w/ 2 VACUUM CARS.

GUY & MIKE BRIDGES

CHRIS JAMES & YURI.

→ will clean 17 well locations TO

50 BGS in 2' x 2' square

EQUIPMENT: AIR KNIFE, VACUUM UNIT,
DIG BARS, PISTON PIGGER, PULVERIZER
TO CUT CORERS.

M.D. will STAIN WITH CHALK AT DEC-0430

C.F. will BEGIN WITH GUY AT DEC-300

1230. MEET MIKE (KEVIN

TO PICK UP SAMPLES

1315 VACUUM PROGRESS

M.D. - DEC-430, DEC-0600 done

C.F. - DEC-300, DEC-0150 done

→ GUY SETS UP TO VACUUM DEC-0600 &

DEC-0660 ON VAN DERVOORT.

5/9/11

1315 GUTMANN OWSITE M.D. HAS COMPLETED

CLEARANCE OF DEC-0070

430 DEC-066 cleared TO 50'

5" sandy green FINE C.INDY SAND,

SLT, GRAY, BRN (BCH, BR) AND

RB. IN, SIFT FINE SAND TO 50'

NO P.D.

1530 DEC-0660.

→ TAN LIKE SUBSTANCE 8"-15"

BLD, MOTTLED LK ODR.

Sample FOR FULL TESP + REPORT

CHARACTERISTICS. 1 WEEK THAT

- SEGREGATE OUT INTO SEPARATE

FOR DISPOSAL PENDING ANALYSIS.

1600 MEYER DOWN TO 4.2 ON

DEC-150. WILL FINISH TOMORROW

- SIM CALLS AARON TO LET THEM

KNOW. ABOUT DRUM

- WAITING FOR AARON.

DRUMS.

2 - SAIL & CONCRETE

1 - TAN LK MATERIAL

1730 AARON PICKS UP DRUMS

5/10/11

0800 S.M. C.F. & M.D. on-site

WX: Clear, sunny 62°F.

0800 ADT JAGGON on-site

Crew #1 6696 & Mike BERRY

Crew #2 Benue & Chris

Gottmann on-site

0900 Crew 1 starts. DEC-04D, CR

Crew 2 starts on DEC-04D

0915 D.H. on-site. NO EKG yet.

- Calls ADT. Jerry is on the way.

0930 ADT on-site with his

trash north some

Jerry & Frank.

Crew 1 moves to 64

Crew 2 over to DEC-04D.

1100 Crew 1 moves to 64D

- ADT begins some drilling out 29D.

DEC-04D - 0-4" concrete

4"-14" brush, mortar, fire to concrete

size asphalt/rock. Trash brush, gravel.

0900

14"-50' Ben, gravel fire safe salt

1330 Set up on DEC-44D

5/10/11

DEC-044D

0-4" concrete

4"-10" Fill. Brown - Rubber, mortar

45' sand, trash brush, rubble.

12"-50' Ben, mortar. Set 7 feet sand

Time gravel, cables.

Grub samples for waste characterization

Run DEC-044D 4-5' 1430

Full trip plus J.R.C.

1515. Coating concrete - concrete.

- will put in work order to get

overhead wires jacketed by

DEC-66/64D by end of the

week.

- 760g. patches covered at 2 points

Boring locations thru old patches

Sinks. 1 by DEC-44, 1 on

Unidentifiable

1000 Run for today.

Drops

2- Conbe

1 Soil

3 Drill mud.

Location _____

Date 5/10/11

Project / Client _____

1910 AARCO over
 1935 AARCO OFF SITE
 - Sun OFF SITE

Location _____

Date 5/11/11

Project / Client _____

0900 . Sun, M.D. C.F. onshore to
 take up SPOTS for Dullins Access;
 wx: partly cloudy, 55°F wind 5-10
 mph from west

0800 ADT and
 1 VASTAN crew -
 1 son in rig - Jelan, Frank & Chris on line
 0830 - 2nd Rig on the way. TANKER lost
 A TUG & they are waiting for
 A name and
 0910 D. Goes to work with THE VASTAN
 crew at DEC-065 / -065D.
 - M. Gorman & D.H. onshore. GO TO
 work over Spic & Spar Site to
 review proposed boreholes

0910: Cont. Dullins at DEC-029D from
 45' by 5'

1125. M.D. finished clearing AT DEC-065D
 → ADT and his onshore
 TONY, Greg, Beemo.
 → ADT will set up a - DEC-050D.
 1230 Sun OFF SITE FOR BUFFALO

Location _____ Date 5/16/11

Project / Client _____

5/16/11

0700 Sun & Tim Irmovik meet C.I.F. on site
WX: cloudy, light to moderate rain 58°F

0720 ADT onsite

0800 1 - Jeremy & Gerald
0800 2 - Greg & Dave Mow
C.I.F. will meet with crew

Sun & T.I. work crew 2

Crew 2 to set up on DEC-30D, it has
been prepared to 80.0' H₂O. Just need
to set well up 10' screen (2" SCH 40 PC #10.14)

- Permits start at 0900

0900 Set up screen lig. on DEC-30D & begin
to set well.

1200 Finish setting DEC-30D, will
move over & set up on DEC-014D.

- ADT goes to GAT Lunch?

T.I. off site testing, will redo DEC-36D
first

1400 T.I. calls, no real bang for screen in at
DEC-36D & it's been about 2 hrs. call
test done, will move to DEC-031/0310
to screen screen test.

Location _____ Date 5/16/11

Project / Client _____

1500 ADT onsite waiting to put up
drums.

2 - Soil

2 - H₂O.

4 more.

1530 Crew #2 done to 30.0' by on DEC-140.
will drive casing's Flange & cover
with A. Steel plate for the night.

1615 ADT off site.

T.I. & Sun suggesting DEC-044

1700 GAT site

5/17/11

0900 SMT, J, C, E on-site

WX: Rain, 55°F.

EQUIPMENT:

pneum. bar plus: p10/ea/10/02/45'

1130 - Lightning

0800 - ADT on-site

Crew 1 - Jerry & Frank

Crew 2 - Dave & Greg

T.I. goes to develop DEC-015D

DIT on-site

0900 Drill crews move to respective locations

Crew 1 - DEC-015D, just have to set

well. AT 50'

Crew 2 - DEC-014D, at 30' bgs. will cut

to dull.

1205 ADT goes to lunch. Bill Popos on-site

TO VISIT

1245 CONTINUE DRILLING DEC-014D.

1416 ARKO on-site

1 Soil

3 Drill mud

6 development H₂O

1545 - DRILLING DEC-014D TO 80' bgs.

→ just 5" of casing in Below sidewalk,
will set well tomorrow.

- Clean up.

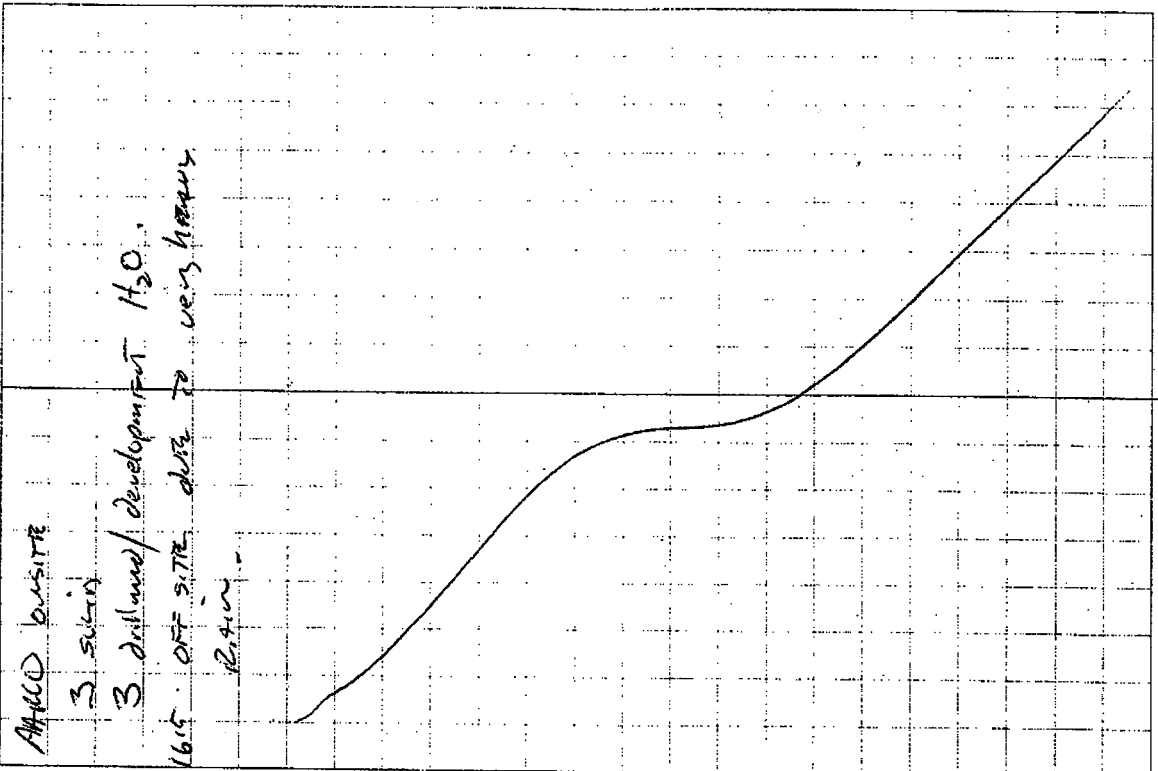
1630 - SET well pads AT DEC-15D.

1715 OFF SITE

Location _____ Date 5/18/11
 Project / Client _____

5/18/11
 6000 S.M. T.I. & C.F. overcast
 wt. overcast, 50% OF
 EQUIPMENT.
 1 - monitor plus pro/col/col/col/HES
 -> VES FLOW comes up with symbol
 for remaining process. will call
 GUTMAN & LUTER TO get station.
 0900 ADT arrive
 - GARY & Dave
 - Set up R/L on DEC-0140 TO SET
 well TO 80.0' R/L
 10' 2" set 40 pc #10 slot
 70' 2" set 40 pc #10 slot
 1115 MOVE AHEAD & START drilling DEC-0140
 w/ 5" casing.
 1200 - 1245 ADT GETS LUNCH.
 1245 - 1320 continue drilling DEC-0140
 1320 - START TO SET DEC-0140
 15' 2" set 40 pc #10 slot screen
 30' 2" set 40 pc #10
 1530 Finish setting DEC-0140 set machine
 - Starts to rain heavy during setting
 of two monitors

Location _____ Date 5/18/11
 Project / Client _____



Location

Date

5/19/11

Project / Client

0700 Sun, CF, T.I. onsite.

WX: partly cloudy, 63°F
EQUIPMENT

1- mutation plus. pio/cor/cor/cor/H₂S

→ 5m sets up to save space at
DEC-0450.

→ Spoke with Cathy Corcoran. Conf.

They will get it by end of week
to Jacket wires by DEC-0660.
They have been delayed due to
weather.

→ ReSand Soud, return to Dawson
Shankes - Born of NYC Park Rep for
Sampling in MSHR McAdams park. This morning.

0745 - Corals due to Jacket wires.

0830 ADT - Corals & Dine set up on DEC-0450

~ will advance to 45.0' before start
of sampling. Anticipate depth of well
to be ~80.0' by.

1100 Corals completes wire JACKETING
By DEC-0660.

1200-1230 ADT Goes to land

1230 Corals to drill & Sample DEC-0450

1530 D.H. onsite

Location

Date

5/19/11

Project / Client

1600 AARCO onsite.

2. Souds

4 Drill mud/corals

4 developed H₂O

6000 Souds TEST & DEVELOP WELLS

1930 OFF SITE

Location _____

Date 5/20/11

Project / Client _____

5/20/11

0030 SM, T.I. & C.F. OUSITE

WX: partly cloudy, 63°F

Equipment:

Multiriser Plus - P10/C100/02/100/145

0830 ADT OUSITE - GRAB 2 DUNE

HAVE SET DEC-045D TO 80'

10' 2" SCH 40 PVC #10 S&T SEN

70' 2" SCH 40 PVC RISER

WILL USE #1 SAW TO 68' & BRUSH

JUMPY TO 1' BGS

1030 DEC-045D SET, MOVE TO DEC-064

TO DRILL TO 45.0' & SET

WELL.

1120 BEGIN DRILLING DEC-064

1200 BEGIN TO SET WELL AT DEC-064

TO 45' BGS

15' 2" SCH 40 PVC #10 S&T SEN

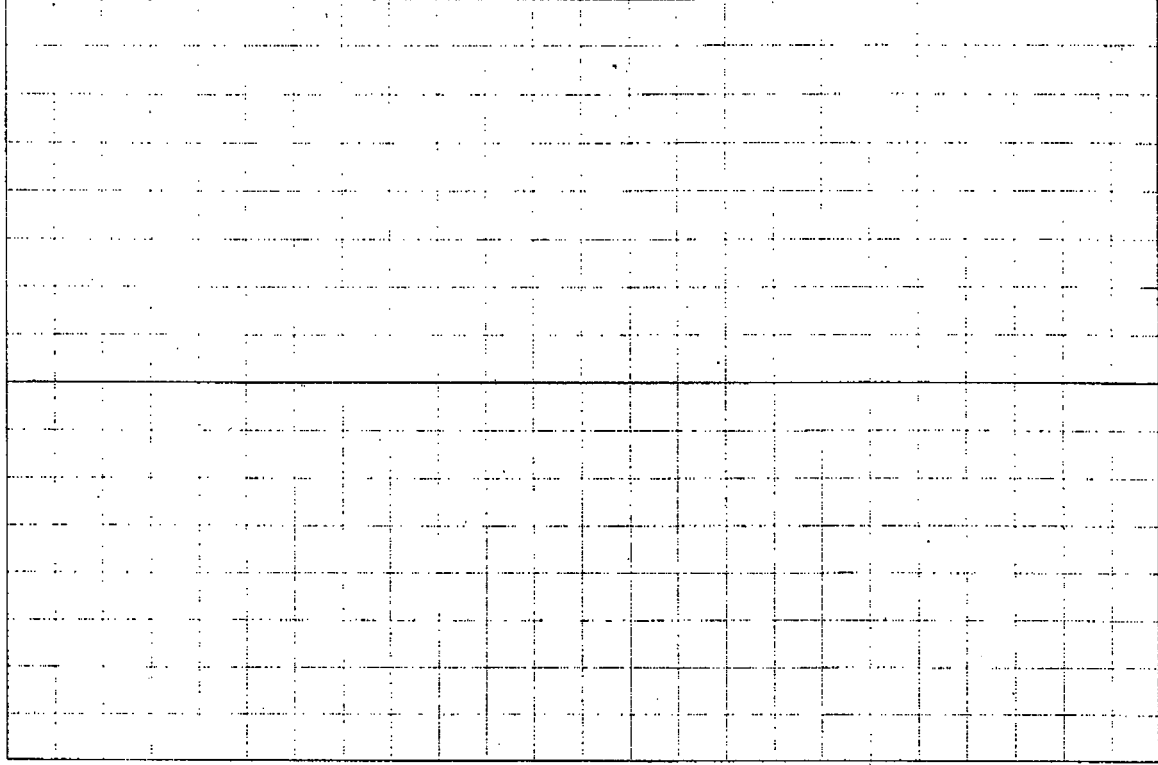
30' 3" SCH 40 PVC RISEN

- SAND TO 29', CHIPS TO 1' BGS

Location _____

Date _____

Project / Client _____



RI PHASE II

Location

Date

2/27/12

Project / Client

C. 100: it on site, marking locations w/ 5" R (4" R 5")

0830: Donz (Kaden Solutions) on-site, setting up radar. will start clearing well cluster on Porter DEC 58-580

945: DEC-088 moved 3ft north. DEC-088D cleared w/ GPR in place.

400T vac cover set p on DEC-089 89D cluster, no GPR

100: SG 113 cleared w/ GPR as marked.

1015: DEC-015 R GPR shows something shallow just north of mark but marked mark is clear.

8/27/12

1040: DEC-028D was shallow (1.5ft) p- target just outside painted mark to the west and east.

1055: SG-112 moved 3ft west, 1ft south of mark because of shallow targets over original mark.

1115: DEC-011D cleared w/ GPR on paint mark.

1115: DEC-0460 painted mark under a car, door clearing a 5x5' box in front of car.

1120: car over DEC-076D moved off of DEC-076D mark, so Dora making her grid larger.

1130: DEC-046 cleared w/ GPR mark moved 1.5ft south from original location.

8/27/12

1150: SG-120 ~~8~~ cleared on painted mark. (original)

1200: SG-611C cleared w/ GPR on painted mark (original)

1215: SG-122 cleared w/ GPR on original painted mark.

230-1330. Dora lunch

1400: DEC-090/0900. DEC-0900 cleared in place w/ GPR DEC-090 near edge of a car-target but obvious change in composition in ground. Will let SM make call on where to put DEC-090 or try to vacation intended location.

1415: SG-115 cleared w/ GPR on original mark

2/27/12

1425: SG-118 cleared w/6PR on original painted mark

1440: DEC-091 / DEC-091D cleared w/6PR on original paint marks

1455: SG-121 cleared w/6PR on original painted mark

1505: SG-119 cleared w/6PR on original painted mark.

1515: SG-117 cleared w/6PR on original paint mark

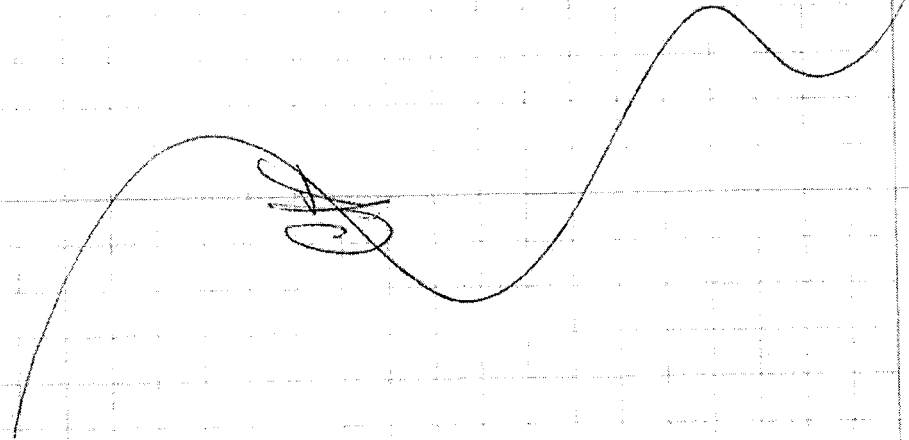
1525: SG-116 moved 2.5ft east from original paint mark

1540: SG-114 moved 2.5ft east from original paint mark and cleared w/6PR. Dona (RSI) packing up, ADT vacatrons crews still working

2/27/12

1605: ADT crews off site

1655: CF off-site



Location

Date

2/22/12

Project / Client

2/27/12

0700. Sam outside to layout /

Clear new bearing & set up

LOCATION - AT KEMBLE CASINO SITE.
WX: Clear, sunny, 30°F.

- C.F. outside. goes with Sam to

ID locations

Go into Bunion (Lounge) by Dec-88/88A

- Doug is contact. OK to get
locations on Porter. His delivery
are 10030, then down Port. table

Day.

0815. Call ADT. 2 Varran crews will
meet URS at Vandenberg &

Division

0840 Down at Radar Summit outside

0915 ADT outside with 2 Varran crews.

Crew 1 Jeremy & Haydn

Crew 2 Chris I & Freda.

Crew 1 sets up on 89 pair

Crew 2 sets up on 88 pair

→ Form clearing Dec-088 pair

→ ADT open to Spore.

Location

Date

2/29/12

Project / Client

1000 ADT Return

- Crew #2 - Fact-hall in broken

Equipment:

minimize 2000 p.d.:

- can push with 100 ppm isobutyl.

Dec-088A

0-1.1' Rock, fine, gravel, metal, sand.

5m silt clay

1.1 - 5.0 Reddish brown, moist silt, sand
open.

Dec-088B

0-1.1' Black, fine, silt, 3"

5-10mm gravel.

.8-3.0 Reddish brown, grey sand P-C

gran & rubble

Open

Location

Date

2/20/12

Project / Client

1315 D.H. onsite

1320 DEC-088 complete to 5.0'

1334 DEC-089 complete to 5.4'

- ADT BACKFILL HOLES, compact soils
WITH A TAMPER & covers with 3' OF
ASPHALT patch. Evid. to him

-> Holes EXCAVATED 2x2, 2.5 (+) ' using
VACUUM UNIT, AIR KNIFE, DISC BAR &
POST HOLE DIGGERS

1430 DEC-081D CLEAR

- SAME DESCRIPTION AS DEC-089
1500 MORE CLEAN #1 TO DEC-015R

1530 DEC-081D CLEAR

- HOLE SAME AS DEC-088

1545 DEC-015R complete

0-1.3' concrete

3-4' open, moist fill, clay soil, cobbles,
Bould. Aggreg.

4-5' light brown fill, moist f-c sand, gravel,
Bould. Agg.

- WORK STOPPED. HAS NOT WORKED SINCE
LAST. HAS SAID IN PAST, SLEPT,
TALKED ON THE PHONE

Location

Date

2/27/12

Project / Client

1610 D.H. & SIM helped
DEC-081D & DEC-015R
1545 - AARCO onsite. pick up
Z - drums - concrete / soil.
1600 ADT OFF SITE
AARCO WIFE SITE
1610 D.H. would like M.G. TO TAKE
TO BILL AT ADT. They do not
get full pay for today since
Sim & D.H. did 2 holes with
Jerry
1614 Sim leave along Mesquite.
TO THIS EFFECT.
1620 French calls. Since his car is
be onsite tomorrow till 10am.
1700 Sim & D.H. go to meet
AGENT SOIL VAPOR INVESTMENT
1715 LEAVE TO HOTEL

2/28/12

0700

Sim onsite, meet mine on Vanderwaal in front of JR Cooperative

wx: clear, sunny 40°F

Equipment:

mini Bar 2000, PD

- call with 100 ppm isobutylene

MULTI BAR

- call with 50% butane, O₂ 20.9%

CO - 5 ppm, H₂ > 25 ppm

-> Sim briefs mine on scope of work,

H&S & sampling requirements

- mine will work with Vactron crews

Today:

- Sim will sit drill ris when it arrives

& 1 Vactron crew until then

0745 ADT onsite

Crew #1 Jeremy & Hayden

Crew #2 Chris I & Frankie

-> perform daily TAGCOPATE safety

Meetings

Crew #1 - Dec-046D

Crew #2 - Dec-011D

2/28/12

DEC-046D

0-3" Asphalt

3"-3" Beach/Dune sand

Some under, Bunk, Asphalt

3'-5' Roadbed, fine mist soil/sand

there gravel & shell

945 Complete DEC-046D

- clean up 2 Asphalt patch prepared

- move over to DEC-091/091D

1030 Joby onsite with Amy 17C

Rodson Ris

-> 3" sample, 6" over casing

-> set up on DEC-088D

1115 Begin Drilling AT DEC-088D

1430 Complete drilling for this day

ADT has to stop early because

they have to tie back with

other crew. They will have their

own vehicles tomorrow - & will

work a normal shift

1500 Joby off site

- Sim goes to check on

Vactron crews

-> After call, they will be onsite AT

Location

Date

2/28/12

Project / Client

about 1615.

→ ADT has completed VACATION OF

1 DEC - 90 & 91 PAGES.

1545 FILL OUT Jeremy's daily. put note

on page stating THAT on 2/27/12

VRS & DEC personnel ASSIGNED Jeremy

with VACATION at DEC-089D &

DEC-0157R locations & Bill P.

is active. VACATION note for that

day will be ADJUSTED accordingly.

Drums generated

2 H₂O5 SO₂

1549 ADT OFF SITE. MA OFF SITE

S.M. WANTS FROM AARCO.

1615 AARCO ONSITE TO pick up drums.

1700 AARCO & S.M. OFF SITE

Location

Date

2/29/12

Project / Client

2/29/12

0700. S.M. ONSITE

EQUIPMENT:

Mini RAR 2000 PID,

Cal with 100ppm ISObutyl G

Multi RAR CGT

cal with 50% LEL (2.5% methane)

20% L₀₂, 50ppm CO & 25ppm H₂S.

WX: Clear, 45°F

0930 ADT ONSITE WITH Drill Rig

- Jerry & Janice

- Set up on DEC-089D to complete

Boring.

0800 1 VACATION crew ARRIVES AT

SITE AT. DEC-028D. Frank & (Hear)

- Bill P told them to take all day

to do VACATION OF 1 hour. THEN

get 2 hrs.

0900 Rig down with Hydraulic lock at

top of track. Scott shut on

Filling.

DEC-028D has been closed to

50 BGS.

DEC-0280

0-3" concrete

3'-1" Best, tan, silty, cobbles

1'-2.5' Dark grey, silty sand & fine gravel
cush2'-5.0' Brownish brown, moist fine sand, silty
sand, trace gravel

1000 - Resume drilling at DEC-0280

- ADT Vibration even off site

1010 - no advancing off drill. lost all

H₂O. need to get back.- Jerry tried to switch drill/curry
head on 6"

1110 stop drilling after logging bit.

can't get down. to slow we were
(65)- Sam calls MG. ADT (Bill) wants
to switch to 7". There is a
hydraulic leak which is limiting the
power of the rig1130 ADT - Bill instructs Jerry to pull
out 5" casing again, switch out
cutter head & have Jerry try to
advance hole.- he is sending at Revent, we can handle
& send.

1143 ADT OFF SITE TO GET CUSH &

SEALING

1200 Spectra Analytical Lab outside
to pick up samples.

1320 KENISLEY, outside with new cutter

head & Revent drill mud, Jerry will

put new cutter head, & add 1 den

OF Revent mud once bit/stick

get to the bottom of the open

hole in an attempt to make

drilling

1530 down to 85'. ADT will set well
in morning.

- Begin to clean up

- ADT, outside

2 - Soil

1 - Liquid

1615 MG calls, He needs names of

Aluminum well casing, refer to

order more as per D.H.

Sam, this email address

1630 Sam off site to get email for MG

3/1/12

3/1/12

0700. Sun meets M.H. over site, go over
plan for installation of 12 sol
vapor points. 11 new & 1 replacement
(SG-61R). Points will be set
maxim 25-8' and minim 2-2.5'
depending on stratigraphy -
WX: 38°F, cloudy, light rain

Equipment:

- 1 - M.I. Rar 2000 P10
- cal with 100 ppm isobutylene
- 1 - Alcatel Rar 66T
- cal with 50% cel, 20.9% cel,
- 70ppm CO, 25ppm H₂S

0730 ADT onsite: Tracy & Janice

0830 Begin to set up on Dec-0880

0900 Call Brian Jones, Ziegler crew is on

San Antonio & should arrive shortly

1000 ADT has Dec-0880 set.

make his ahead 16' to drill & drop

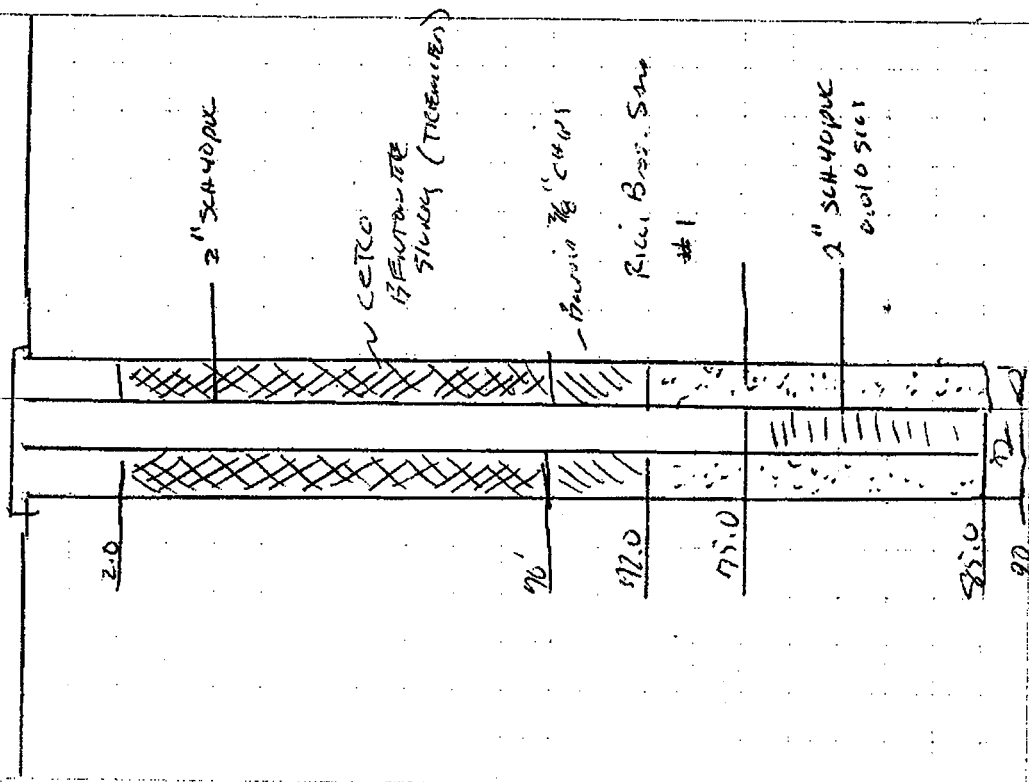
Dec-088 to 50' BAS.

1005 Big dam with fuel filter problem

11000 big burning 60' AM

3/1/12

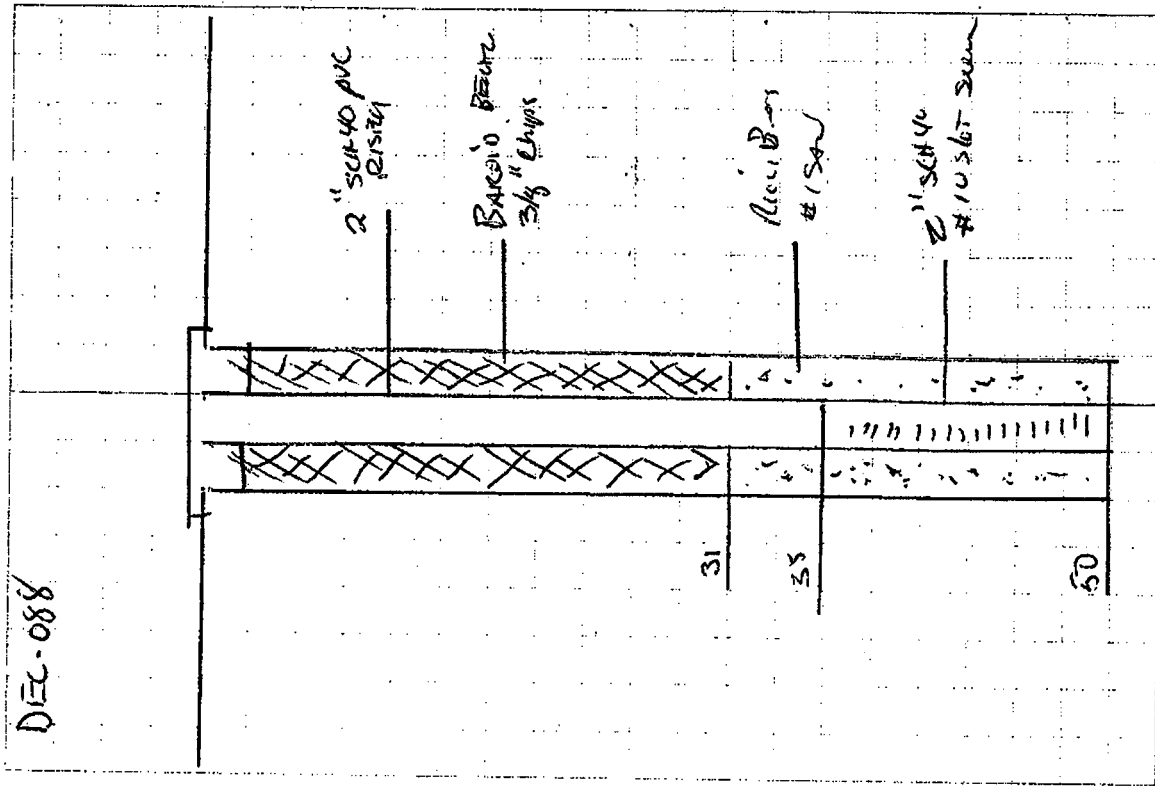
DEL-0880



Location _____ Date 3/1/12
 Project / Client _____

- 1045 START TO DRILL AT DEC-088
 1130 D.H. ONSITE
 1150 ADT DOWN TO 50' ON DEC-088,
 - will break for lunch before setting
 THIS WELL
 1250 ADT, BEGIN TO SET DEC-088 TO
 50'
 1300 DEC-088 SET TO 50'
 - ATTACHED ON SITE TO PICK UP CHAINS -
 1 SOIL
 1 WATER.
 -> ADT REMAINS CLEANER UP.
 -> S.W. & D.H. GET CHECK ON ZEBRA &
 M.A.
 1615 - RIG DOWN, WORK START.
 1800 GOT RIG STARTER. DOES NOT HAVE
 ENOUGH POWER TO LOAD ONTO TRAILER.
 WILL HAVE TO USE CABLES TO LOSSEN
 ANGLE ONTO TRAILER
 1845 OFF SITE

Location _____ Date 3/1/12
 Project / Client _____



Location

Date 3/2/12

Project / Client

3/2/12

0700. S.M. & M.A. on-site.

- meet over by Sh-113 & Dec-0890/0890
to H2O Spots for ADT & Zebra.

WX: overcast, 44°F.

Equipment -

Minilova 2000 pin

Mettler C61

0715 ADT on-site.

- MVE TRACTOR Towed to set up on
Dec-0890.- 0800 ON Dec-0890, GOTO get H₂O

0815 ZEBRA on-site

0830 ADT begins sample, Dec-0890

0900 M.A. calls, Burrows over next

to Sh-112 (S.M. over on way home)

would like in card & wants to have

financially explained THAT we

are requesting SE paid in.

10W S.M. goes over card, lots of

Knew that FLY separate will

TAKE place in April.

- ADT goes to get H₂O over drilling

AT Hydrant on Porton

Location

Date 3/2/12

Project / Client

1100 Resume drilling, AT Dec-0890.

1200 Spectrum on-site to pull
up Soil samples.

1200 ADT down to 85' on Dec-0890.

ADT Cleps up 3 screws S.M. will

pull down rig on IT over

boring. Seal bag w/ wood ply

in 6" ring.

1230 ADT on-site

ADT on-site to pull up 10W

3 soil

1 H₂O

1250 S.M. OFF SITE FOR AIRPORT

M.A. still installing SV points

with ZEBRA.

Location _____ Date 3/5/12
 Project / Client _____

0700 Sun, TI & MA meet outside.

WX: clear, sunny, 32°F.

EQUIPMENT:

MIN. RATE 2000 PID.

CEL w/ 100 ppm isobutylene.
 Multirata

CEL w/ 50% CEL, 20.9% O₂,
 50 ppm CO, 25 ppm H₂S.

→ Sun, TI & MA go over plan for
 soil vapor sampling. will attempt
 to collect samples at all 42
 locations, 5 duplicate samples @
 1 outdoor air/day.

0715 MA & TI go to START SOIL VAPOR
 SAMPLING

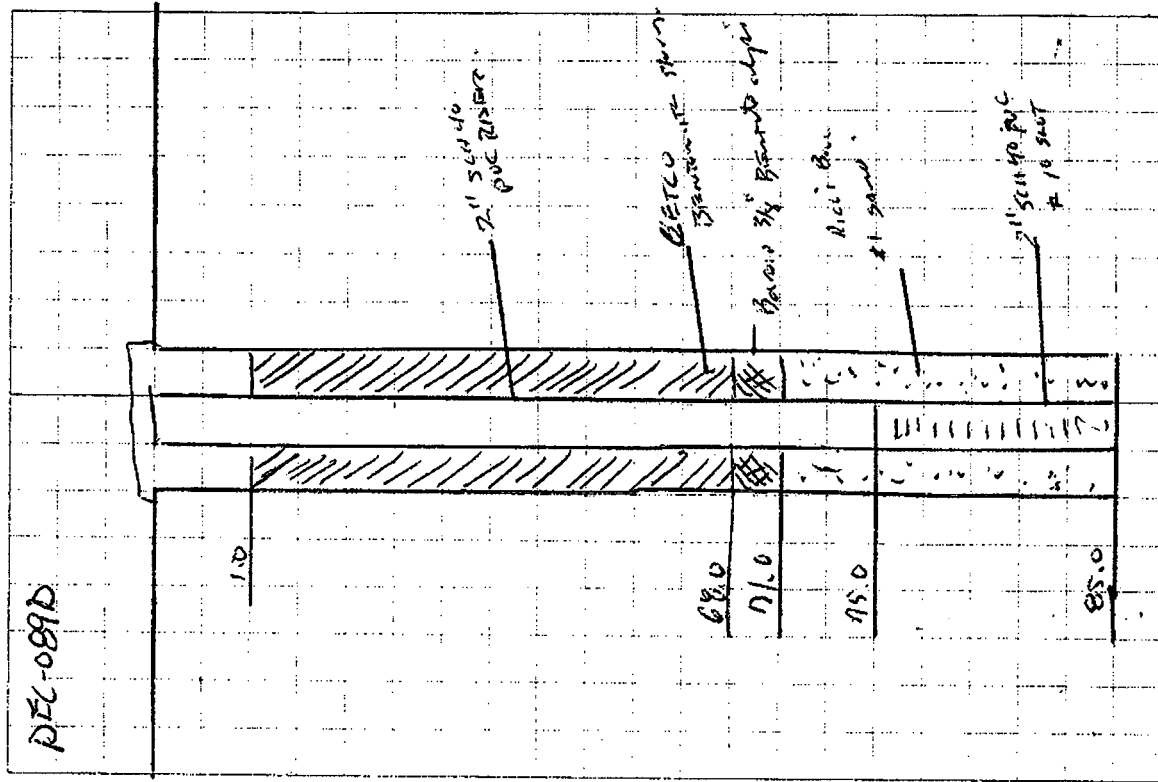
0730 ADT outside - Tony & Janice
 warm up rig. will set up on DEC-089D
 & set well to 85.0' BG.

0840 ADT SET DEC-089D, clear up,
 change out JAWS on BVC clamps,

Get H₂O

1030 Begin to drill at DEC-089D will drill
 to 50' with 6" & install well with
 15' screen.

Location _____ Date 3/5/12
 Project / Client _____

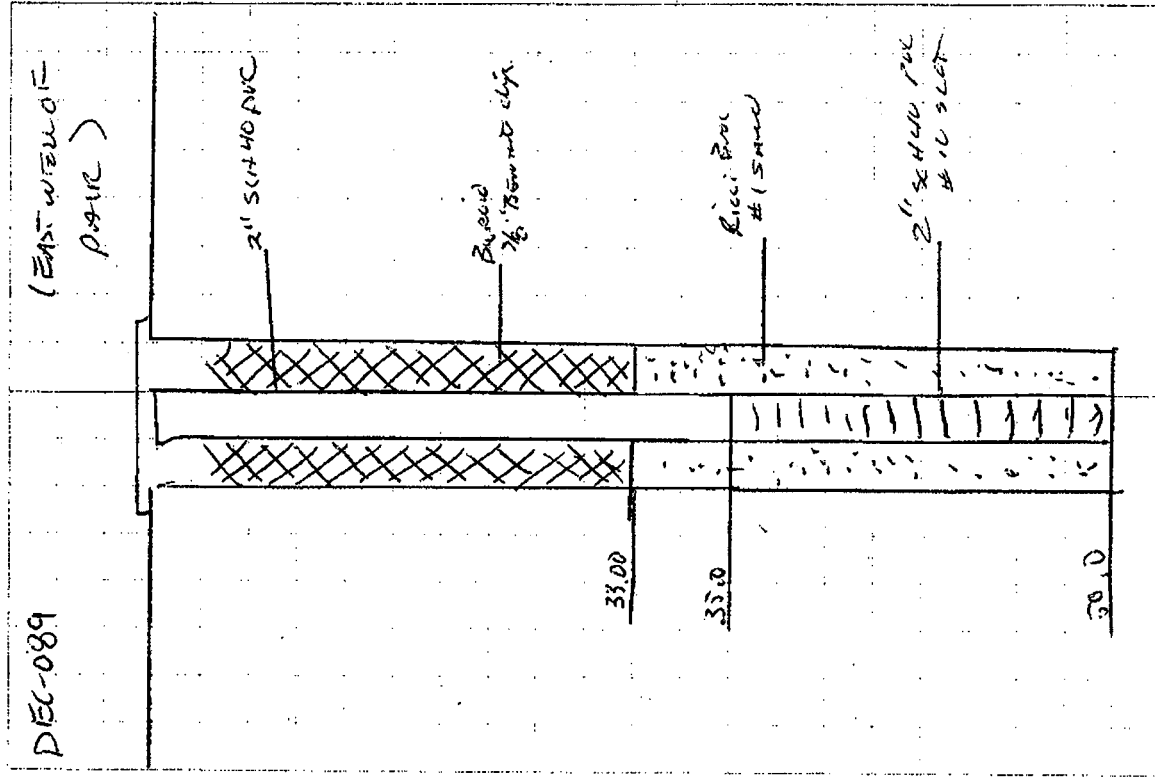


Location _____ Date 3/5/12
Project / Client _____

1130 ADT goes to track back - down to
50' on DEC-089.
D.H. casing
1205 ADT begins to set well at DEC-089
1330 DEC-089 set. ADT closes up
& will set well pads at DEC-089
& DEC-089D.
1430 ADT Finishes well pad at DEC-089D
- do not have enough concrete to
install the well pad at DEC-089
and will set foundation
1445 ADT off site
- ANILCO concrete
1500
1510
1515 S.M. & D.H. gets check on TIA until
1545 S.M. D.H. & TIA goes Spic & Span
to see if any drilling has been performed.
→ appear boring bottom DEC-2402
DEC-2402 was visited last week by
D.H.

1615 note: what appears to be a bearing
was apparently an abandoned Soil Vapour
Injection performed during Spic & Span phase 2

Location _____ Date 3/5/12
Project / Client _____



Location _____ Date 3-5-12

Project / Client _____

Cont. from p 44.
 - location is abandoned 50-100 location
 which was move to S.
 1630 S.M. & T.I. go to FANEX to drop
 off SUMMA canister
 1715 Return to Hotel

Location _____ Date 3-6-12

Project / Client _____

0630 S.M. outside to get parking
 location next to DEC-090/-090D
 for ADT Support Touch -
 WX: Clear, sunny 26°F
 EQUIPMENT.
 MINILAB 2000. CAL with 100 ppm
 isobutylene.
 MULTI AIR - check cal with MIX
 50% LEL, 20.9% O₂, 50 ppm CO
 25 ppm H₂S
 0700 M.A. & T.I. answer to poster
 Soil GAS sampling.
 0715 ADT outside. go to get H₂O
 & move lig into DEC-090D.
 0830 Begin to pull sample DEC-090D.
 1115 Down to 55 BPS. ADT goes to
 Lunch.
 1230 Jerry at Layden area unloading
 supplies.
 1330 Resumma drilling
 1335 Bin, Jerry. water pump not working
 - Jerry tries to fix
 1445 ABLED outside to pick up
 THE DU.

Location _____ Date 3-6-12

Project / Client _____

1500 ADT done for the day.
 Had fixed pumps - & return
 55-60' sample - empty
 - will continue tomorrow

Article

1-50'c
 1-14'c

1530 call c/o to let him know that
 the bit in my vent well
 1540 M.H. at Dec calls. He will be
 here tomorrow afternoon after
 visiting his sister

1550 S.M. goes to check on 4
 wells to be abandoned
 Dec: 006, Dec-014, Dec-015 &
 Dec-022.

- need to remove old style tamper probe
 bolts from Dec-014 & Dec-022
 1630 S.M. & TI go to FORDY to drop off
 drill gas sample

1730 Fred for want take sample. They claim
 that they are dangerous goods.

1800 S.M. & TI return to hotel & call Paul
 Ford for pickup.

Location _____ Date 3-7-12

Project / Client _____

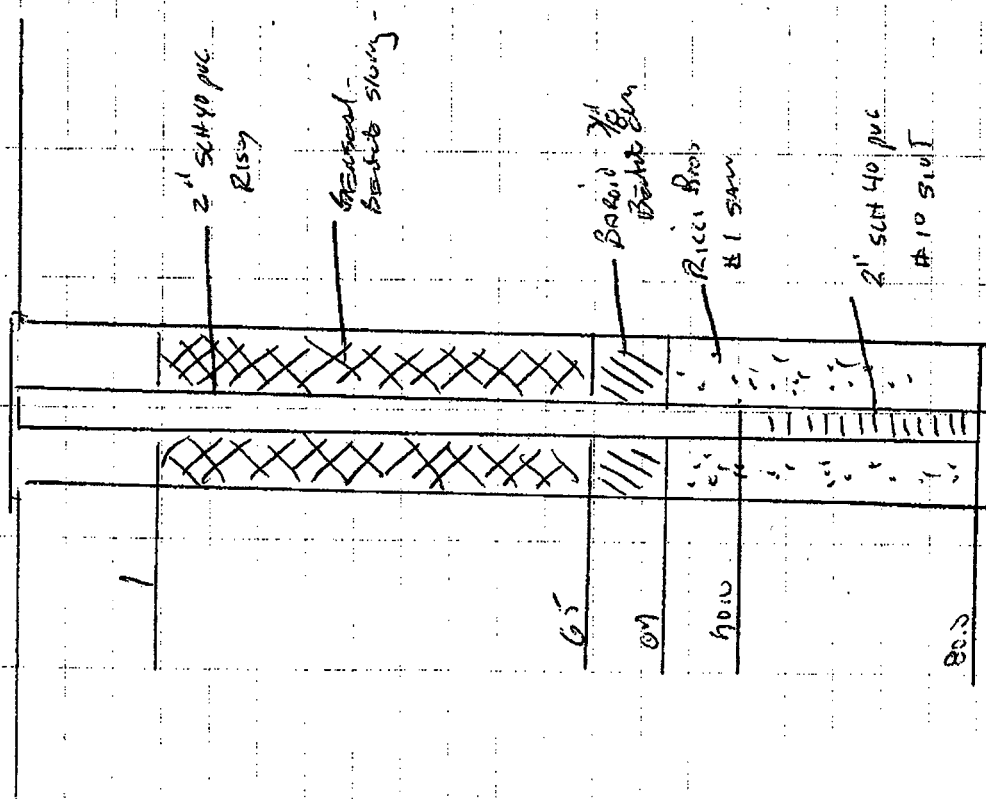
3-7-12,
 0645 S.M. at Dec-0900/0910 location
 to check out - pending Spots return
 ADT Support Truck.
 07:00 - clear, sunny, 39°F.
 Equipment:
 Mini Car 2000 p10 - check oil/water
 100 ppm isohexylene
 Multikar CAT, check cal/water to bleed,
 20.9% O₂, 30 ppm CO & 25 ppm H₂S.
 0930 ADT arriving at Dec-0900 aware
 Support Truck.
 0930 Coring drill at Dec-0900.
 1030 Down to 80' on Dec-0900, ADT
 goes to get well supplies.
 1125 Brown to set Dec-0900
 1205 ADT finishes Dec-0900, goes to
 lunch. S.M. picks up M.H. off N45W -
 ADT begins to drill Dec-090
 1400 Down to 450' M.H.: Begins to set
 Dec-0900
 1440 S.M. drops M.H. off at Region 2
 OFFICE and returns to THE
 SITE

Location _____ Date 3-17-12

Project / Client _____

DEC-090D

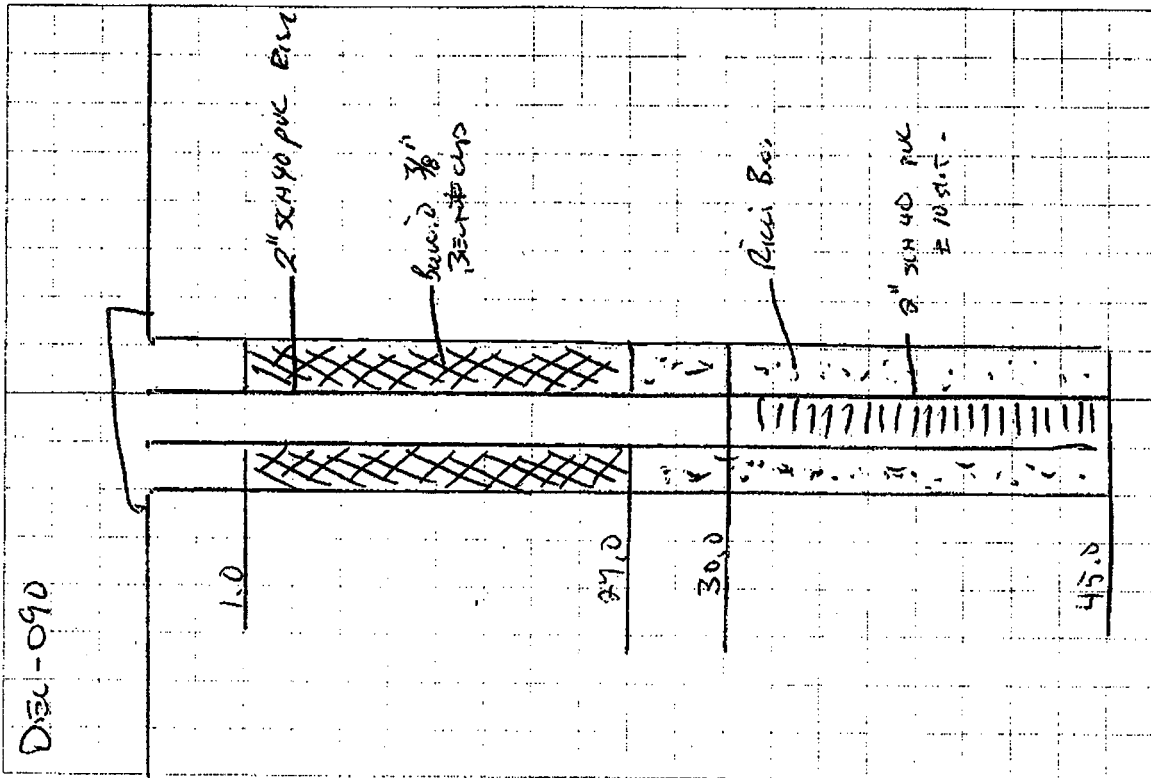
(Southern most well of pair)



Location _____ Date 3-17-12

Project / Client _____

DEC-090



Location _____ Date 3-7-12

Project / Client _____

1500 S.M. Bath onsite, ADT was
 Set Dec-090, TI powered
 oversight.
 AARU onsite
 1 soil
 2 drill muds.
 - ADT OFF SITE. S.M. & TI will
 go get drums from IR company
 to develop wells.
 1600 S.M. & TI return to develop
 Dec-088.
 1800 - Complete well development at
 Dec-088.
 - TI returns to Hrd to pack
 up Summer casisto.
 - S.M. goes to get extra FROTH
 slips

Location _____ Date 3-8-12

Project / Client _____

3-8-12
 0645 S.M. TI & M. onsite
 WX: pretty cloudy, 54°F.
 Equipment:
 1100 LAR 2000 PID
 1100 LAR CGI
 Waterloo Hydrocist pump
 Granite 2000 transducer
 Hamam 993301 ph/conc/Temp mts
 1/2 x 3/8 desiccant/disperser tubing
 HOPKES Root Valve,
 → TI will continue well development
 → ADT will go sand & mortar SG &
 MW locations w/ ID's as per
 D.H.
 → S.M. works for ADT, who will set
 Manholes at Dec-90, Dec-900 &
 Dec-89. Then will move &
 set up to drill & sample
 Dec-0910.
 0730 ADT onsite. Begin to
 set well pads / protect work
 casings at Dec-090, 0900 &
 089.

Location

Date 3-8-12

Project / Client

0815. M.G. calls. S.M. informs him that he was hurt, possible hernia while moving drum out DEC-088. Last night. A phone call was made. Last night to Mrs. Ray & a message was left for Sheldon. Noire - mgs will get Sheldon's call & call back.

0845 ADT moves to DEC-091D

- D.H. answering.

0905. MARY SHELDON WORK OK. INQUIRY.
1110 ADT goes to lunch.

- call HARCO. They can perform diamond flux. Requested THE week of 3-19-12

1200 ADT returns & calls daily at DEC-091D

1400 ADT down to 80' on DEC-091D

- clean up & secure site

1500 ADT OFF-SITE

- S.M. & T.I. GOTO develop DEC-091

1630 - Move to DEC-089 & -089D.

ALLOW ON-SITE

2 - Soil

9 - H₂O

1830 OFF-SITE

Location

Date 3-9-12

Project / Client

3-9-12

0700. S.M. on-site. Hearing problem.

Spots for ADT

wx: overcast / partly cloudy, 41°F
Equipment.

MiniRate 2000 pip, check cal w/

100 ppm 1500btylen

MultiRate C&I, check cal w/ 508 LEL,

20.9% O₂, 50ppm CO, 25ppm L₂S,

0730 ADT on-site - 500g & 500g

- move K₄ to DEC-091D

location to set well.

0930 DEC-091D set to 80' Bas.

- ADT move. water ~ 7' to DEC-091

& begin to drill 6" casing

1110 DEC-091 set.

- ADT goes to set 2 well props.

1200 - ADT goes to set

1230 - ADT prepares to move to

DEC-015K

- Spectrum Analyzed onsite to

pick up soil samples.

1300 - ADT has to go Home & Hydrant

water tank has excessive feed

- go to hydrant on porten.
- 1330 Begin to drill with 6" sonic.
- At Dec-015R.
- AACRC call won't be onsite.
- Tim 5 pm
- 2 sonic
- 4 H₂O.
- Son will sign manifest on Monday.
- 1415 ADT out of H₂O, down to
- 30' bgs. will clean up & finish
- on Monday.
- 1500 OFF SITE FOR THE AIRPORT

- 3-12-12
- 0700 Son onsite.
- WX - Clear, sunny 40°F
- Equipment.
- M. R. 2000 pio
- M. R. 1000 plus.
- 0930 ADT onsite. Joey & Janice
- > meet AT Dec-015R. ADT goes
- to fill up new poly H₂O tank and
- take one on the support tank center
- 300 m. away.
- 0830 Condo to drill AT Dec-015R
- 0945 Begin to set Dec-015R to
- 45' BGS
- 1010 Joey calls ADT OFFICE. He says
- picked up 2 v-bag bits this morn
- credit thru 6' of cobbles &
- overlooked 2 used bits. Have 1
- but left that is missing. Buttons in
- call OFFICE to get new bits.
- Buttons may come out today
- v-bags will charge any money
- for less than 8hrs due to
- ADT not providing necessary supplies

Location

Date 3-12-12

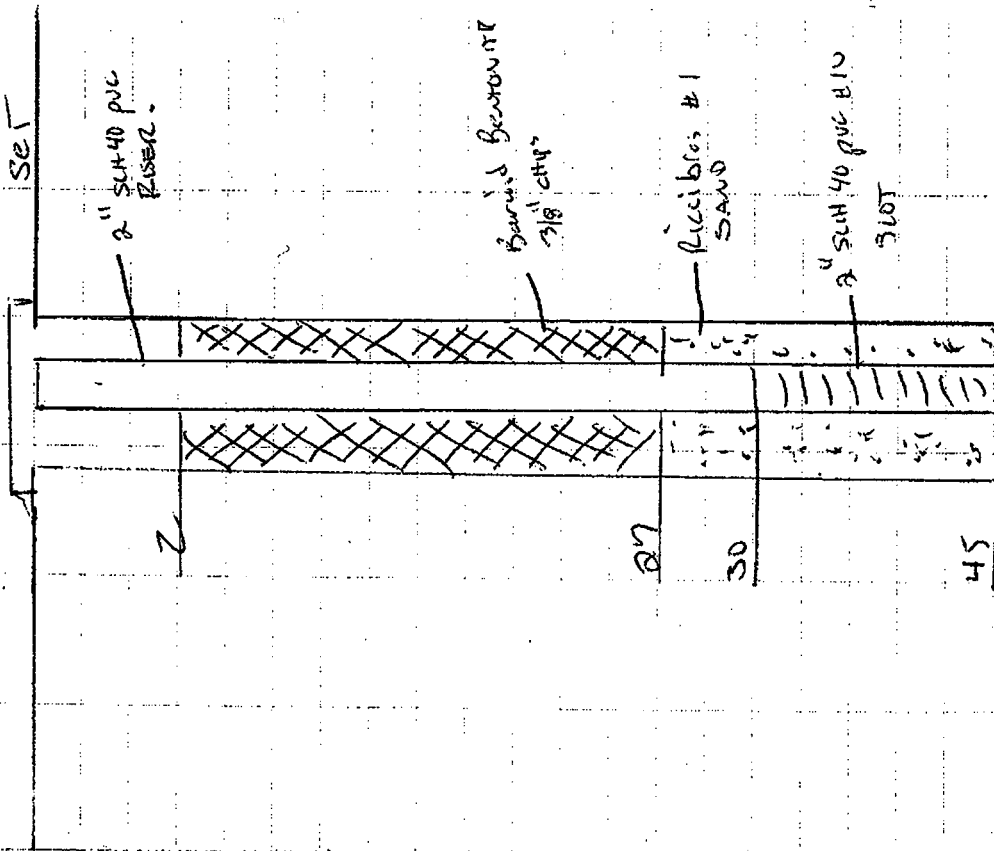
Project / Client

DEC-015R

NORTHERN MOUNTAIN

well OF

SET



Location

Date 3-12-12

Project / Client

1050 DEC-015R well pipe is well set.

- move to DEC-028D.

1215 - ADT goes to lunch. Drilling on site

to drop off 2 new bits. DIT

was out for 5 hr 11:15.

1300 ADT continue to drill & say DEC-028D

1430 ADT down to 70' BGS.

- start to clean up for the

day.

AARCO on site

2 30L

2 H₂O / drill mud.

1500 ADT 2 AARCO off site

Sun. & DIT go to cont. flow

for replacement.

1615 Sun. & DIT off site

Location _____ Date 3-12-12

Project / Client _____

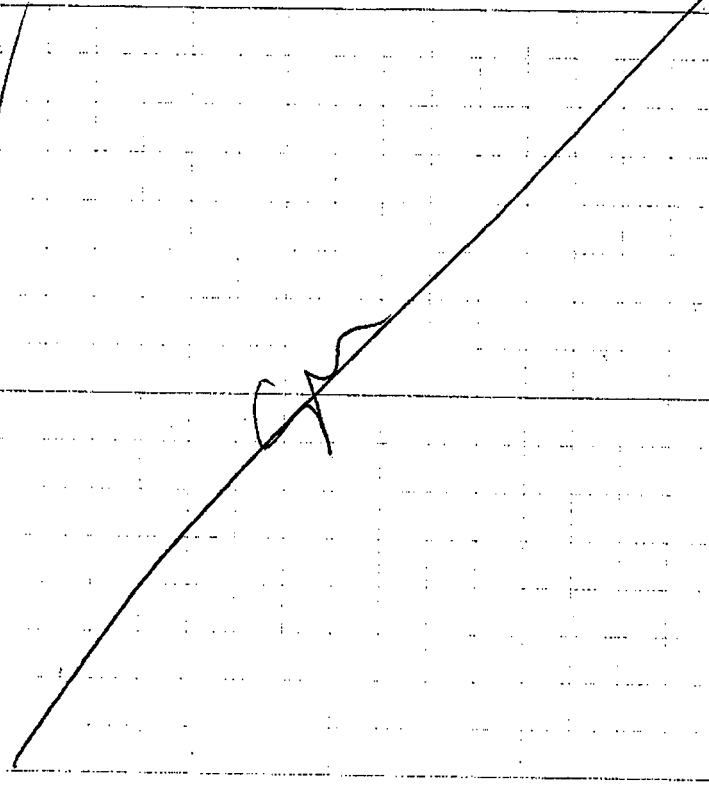
Location	# Flags	Sizes
① DEC-028D	1	5x5
② DEC-0157R	1	5x5
③ DEC-00/90D	2	5x5's
④ SH-83/115	4	2-5x5 2-3x5
⑤ DEC-91/91D	2	5x5's
⑥ SH-121	1	5x5
⑦ SH-119	1	4x5
⑧ SH-117	1	5x5
⑨ SH-116	1	5x5
10 * DEC-31	1	5x5
11 * DEC-31D	1	5x5
12 * DEC-317C	1	5x5
13 * DEC-44	1	5x5
14 * DEC-44D	1	5x5
15 * DEC-65	1	5x5
16 * DEC-65D	1	5x5

* NOTE: New Flags THAT will need to have
 Cast Aluminum well covers installed
 Sun heavy fork lift traps

Location _____ Date 3-12-12

Project / Client _____

Location	# Flags	Sizes
① SH-121	1	5x5
② SH-122/DEC-49	1	6x5
-NO 100-59		
③ DEC-11D	1	5x5
④ DEC-11	1	5x5



0900. Sun outside.

WX: cloudy, 56°F.

EQUIPMENT.

Min Par zone p10.

-cid w/ 100 ppm isobutyl

Min Par

-call w/ 50% LEL, 20.9% O₂, 50 ppm CO & 25 ppm H₂S.

-wait for ADT by DEC-028D.

0930 Jerry calls. Support truck broken down in garden near Cherry. Needs also to pick up a fuel filter & injectors.

1000 IT is starter on truck that is dead.

1030 Gro. truck running, ride to

DEC-028D again.

10430 Canoe to drill & sample DEC-028D

11000 Down to 80'. 9.3 clay 78.5'-80'.

9.4 9.4s sully run

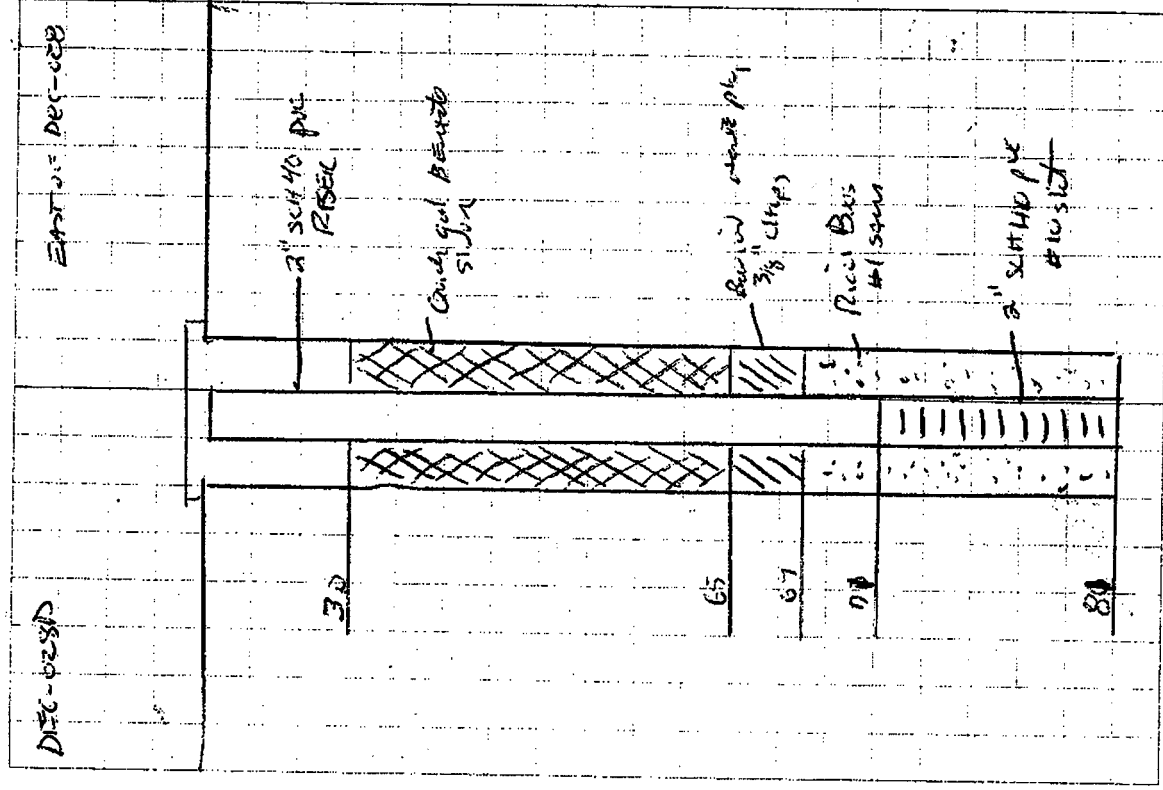
1030 Begin to set well at PAR-28D

11215. ADT completes setting well, goes to

Low

1215 ADT returns to set structure.

& clean up



1400 ADT completes manhole & departs

307E

- PARCO ensure

Z-sail

1430 Sam goes to develop. Dec-091D

Dec-091

1915 Sam OFF SITE. Both walls develop

0700 Sam ensure AT DEC-011D.
UNL 60°F, clear, sunny
Equip. maint.

MincRax 2000 PID

- Check cal w/ 100 ppm 150000000
MultiRax CAT

- Check cal w/ 50% LEL 20.9% O₂
50 ppm CO & 25 ppm H₂S.

0930 ADT ensure - JAMMER & JOEY.

- Moving Rick to DEC-011D.

0830 - Begin Pully at DEC-011D.

will go to 45' before THE START
OF SAMPLE COLLECTION

1200 Down to 75' AT DEC-011D

- Gray STIFF/loose clay
encounter @ 72'. ADT

Goos to lunch. will try to
push sticky tube 75-77'

- Sam keep moving with m.h.
- calls P.H. & informs him.

1345 ADT attempts to grab A-SHEBAY
TUBER SAMPLE 75-77'

day 13/24"

1300 ADT Begin to set well at DEC-011D

Location

Date

3/14/12

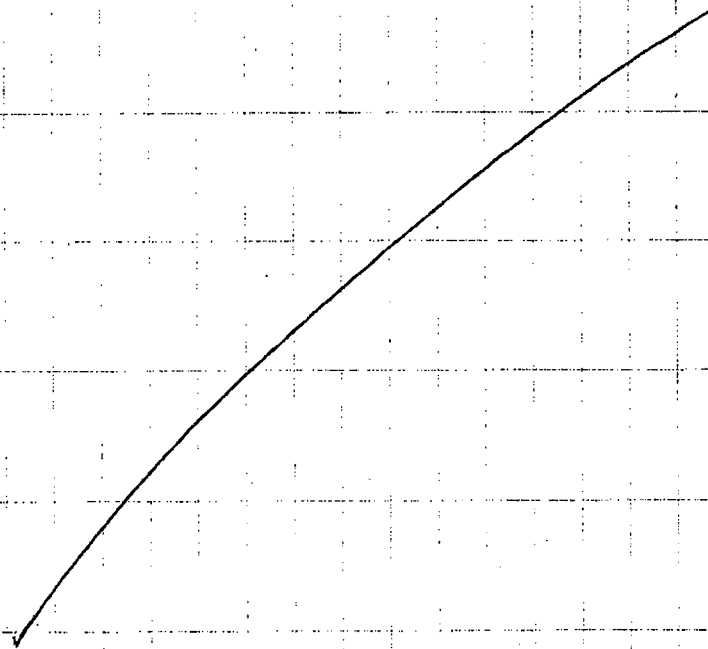
Project / Client

1430 DEC-011D SET. ADI does not
have enough concrete for the
manhole. will set tomorrow.

-> AARCO downsize

2 - Seals
17-1120

1700 SIM goes to develop. DEC-015R,
1700 SIM goes to develop DEC-028D
1800 OFF SITE



Location

Date

3/14/12

Project / Client

DEC-011D

NORTH OF
DEC-112" SCH 40 PVC
RESEALBarricade Hazard
3/16" CHIPS12" x 12" BRASS
#1 SAND2" SCH 40
PVC #1050

3.0

60.0

63.0

13.0

75

0000 Sun & M.A. outside

at 46°F outside.

Equipment

plus Raze 2000 gip, cal at 100 ppm volatility
 plus Raze plus, cal at 50% LEL, 20.9% O₂,
 50 ppm CO, 25 ppm H₂.

Sun goes to SR coverage to pick
 drums for well development at

DEC-0280. MT will develop THE

well. M.A. goes to McDonough to
 wait for PWR to deliver a new
 ph/can/ top motor.

- 7:030 ADT outside - Joey & Jamie

- move over to DEC-0460 location.

0830 ADT begins to drill/sample DEC-0460

- will go to 45' & then start casing
 sampler.

0915 down to 40', Hydril bit breaks. Stop Rg,
 down.

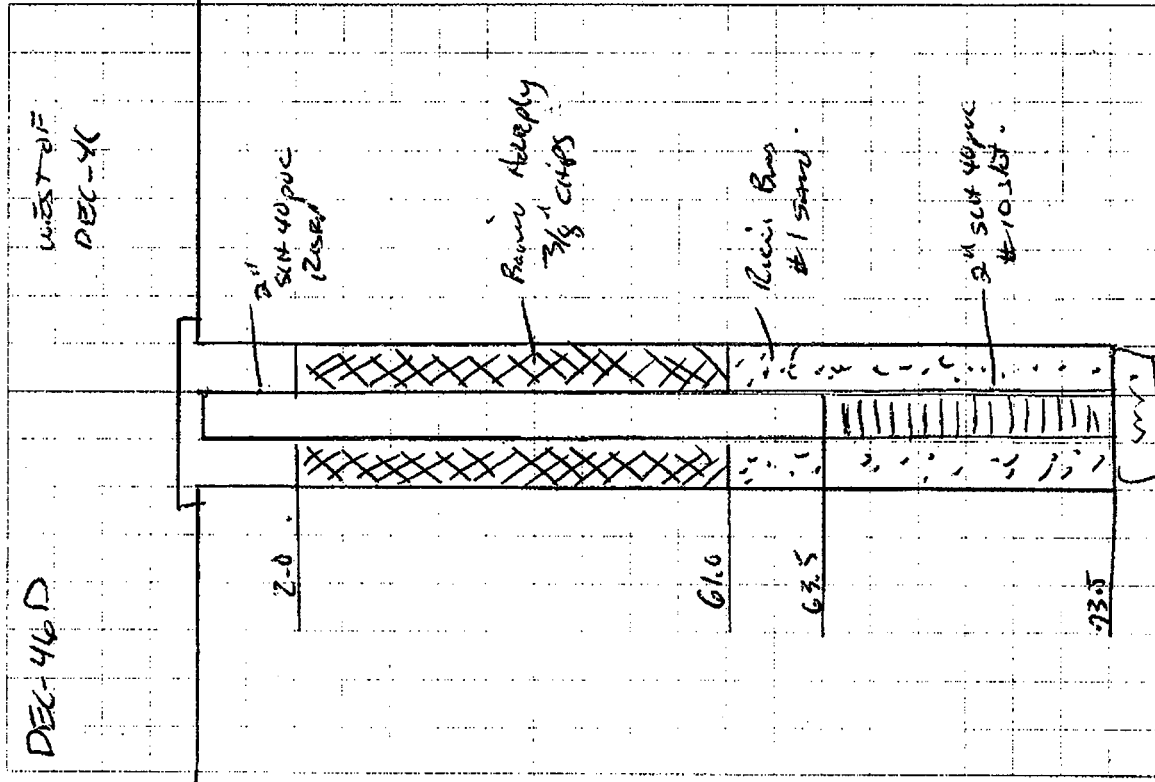
1205 Rig fixed. M.C. outside MT develops

DEC-1110.

1210 D.H. outside

1430 Begin to set DEC-0460 to 93.0

1530 ADT completed setting DEC-0460



cont.

- ADT will set well pads AT
Dec-046D & Dec-041D tomorrow.

- AdGeo onsite

9 H₂O/D.H.M.W.

3 Soil

1600 S.M. AT & M.G. work AT
Lester by Dec-08/0800 EST
Adventur Future Boring

1630 OFF SITE

0700 S.M. onsite. Pass to JTC company
to pick up drums for development
of Dec-046D

WX: Cloudy, 46°F, light wind mist/dew.

Equipment:

M.H. K&S 2002 P.O.

M.H. K&S 2002 P.O.

- M.A. Says AT Dec-046D to develop
well.

- S.M. goes to Dec-011D to wait for
ADT

0730 ADT onsite to set well pad

8 cleanup site

0900 - ADT zero setting Dec-011D
well pad

- M.A. completes well development
at Dec-046D, ADT moves

to Dec-046D to set well
pad.

- S.M. calls AdGeo to pick up
Drums Early

- M.A. calls PINK to cancel
equipment

Location _____ Date 3-16-12

Project / Client _____

6930. Finish well pad AT DEC-046D.

- D.H. ensure, Mgr over

- ADT moves to DEC-014 TO

Decommission well -

DEC-014 DTB = 42.1' pop out bottom w/ head

- pull well string & backfill with
benzocaine.- top 1' concrete & replace well
cap.

1035 move to DEC-006

DTB 32.7'

1120 move to DEC-020

DTB - 39'

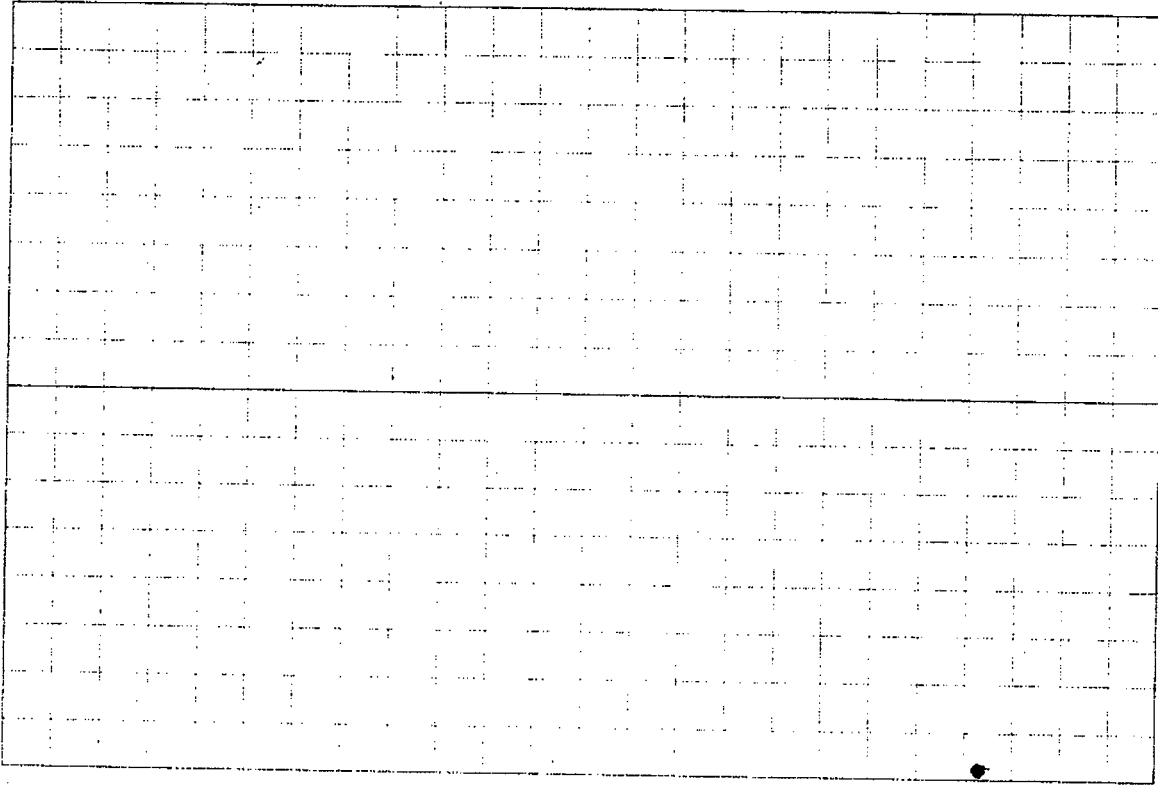
1200 Complete well decommission

- DO paperwork with ADT.

1215 8002 Mgr OFF SITE FOR BREAK

Location _____ Date _____

Project / Client _____



Klink Cosmo / DEC

3/26/12

3/26/12 Monday
 0700 Crews met at hotel.
 0720- left hotel - drove to site.
 0735- arrived at Staple parking lot.
 0750 Distributed gear
 0758 HTS Tailgate meeting
 0800 Crews separated and began wall-to-wall measurements.
 1040- J. Payl + Mies drove to hotel to wait for pine drop off.
 1115- Kevin McConem + Mike arrived. Sample containers organized.
 Equipment organized -
 1220- Still waiting for pine drop off.
 1348 Pink crane arrived. Unload equipment - which stored in rooms.
 1415 Drove to site. LAST DISTRIBUTION of equipment.
 1430 Crews drove to sites w/ drum pickup by Tom + Mike, one "PINK" drum.
 1500 Crews set up in wells.
 1600 DEC-0600 Sampled for ULS, AK, Chloride, nitrate/nitrite, plus phosorus.
 off-Sulfate, Sulfate + TKN -

Klink Cosmo / DEC

3/26/12

Project parameter
 1607 Sampled DEC-0460
 1723 Sampled DEC-046
 1805- Sampled DEC-0600
 1828 Loaded up one drum w/ pump water - then left site.
 Drove to Staple parking lot.
 Mike + Mies left for home. John + Kevin drove to hotel.
 1845- arrived at the hotel.

Pen Mutual
 1800- Stacy Gaches
 523-0600
 0650 →

Location

Date

Project / Client Kilnuk Cosmo

3/29/12 Tuesday. NK Cold. Temp in 30's.

Sunny; windy

0645 Left hotel - drove to site. met

Mike.

0700 HAND safety TALK/SAFE MEETING.

0710- Drove to well sites.

0925 - Set up on DEC 89 pipe. Mike + Tom.

0740. Picked up 2 Bore drums, one Ring Top

0808 Sampled DEC-032

0850. Sampled DEC-089

0930 Sampled DEC-089D

1000 Sampled DEC-066D

1100 Sampled DEC-088

1114 Sampled DEC-066

1150 Sampled DEC-088D

1424 Sampled DEC-030D

1435 Sampled DEC-091

1450 Once picked up one Bore drum

1510 Sampled DEC-091D + DUP.

1552 Sampled DEC-030 + Dup

20120327-FD-1

1655 Sampled DEC-045

1740 Sampled DEC-045D

Location

Date

Project / Client

Kilnuk Cosmo 3/27/12Left site at 1745 - all clear
1800 - Packed hotel

Location

Date

Project / Client

Klink Casino

3/28/12 w/ coal - Breary Tampa
405-505. Partly sunny.

0700 Arrived at site

0708 H+S Tailgate meeting

0718 - Drove to well location

0728 Picked up 1 "Pure" drum and
one Ring Top drum.

0834 Sampled DEC-039

0920 Sampled DEC-090

0930 Sampled DEC-090B. 1st Rain falling

1012 Sampled DEC-022D

1140 Sampled DEC-014R

1207 Sampled DEC-009

1230 - Sampled DEC-014D, note.
Container for nitrate-nitrite, TN
and total phosphorus dropped.
will have to resample for these
parameters 10 monon.

1405 Sampled DEC-064

1455 Sampled DEC-064D

1500 ARCO picked up 2 water drums.
(2 ppe and one water drum left at
site)

1505 Spectrum Corner picked up Two Coolers &
Samples

Location

Date

Project / Client

Klink Casino

3/28/12

1521 Sampled DEC-007

1530 MIRA left site & drove home.

1649 Sampled DEC-007D. Team
found gassed wells on Division Pl.

1740 Left site (all crew except MIRA)
Drove to hotel.

1745 - Back at hotel. To him Boyd
made up Sample Site from coolers
stored in his hotel room. updated
field notes + form.

Location

Date

Project / Client

Klink Cosmo

3/29/12. WX - Partly Cloudy. Temps mid 40's Am to high 50's pm
 Breeze - windy
 0700 - on site.
 0708 H+G Taggart machine
 0715 all crew drove to well locations for sampling + well grouting
 0855 Re-sampled DEC-014D for NITRATE-NITRITE, TKN and TOTAL Phosphorus
 0915 Sampled DEC-015
 1000 Picked up one "Bore" drum and one open top drum.
 1124 Sampled DEC-048 + JAP
 1125 Sampled DEC-029D + MS and MSD
 1145 Sampled DEC-029
 1324 Sampled DEC-047
 1420 Sampled DEC-015R
 1435 Sampled DEC-015D
 @ 1445 also came by and took 2 PPE (any PP) drums.
 @ 1450 well DEC-033 pumped dry - 100 sample collected - well
 Sample TD Monitor
 1530 Spectrum Center picked up 2 lockers

Location

Date

Project / Client

Klink Cosmo

3/29/12

1634. Sampled DEC-012
 1635 Sampled DEC-043
 1700 Sampled DEC-043D
 1722 - left the site
 1730 - arrived at hotel.

Location

Date

Project / Client

Klink Cosano

3/30/12

Friday

wx: Partly Sunny - Cool (40°-53° F)

0650 o.c. Rain Am Crew. Area, Dan Kevin, Mike

~~0650~~ left hotel and drove to site

0700 Arrived at the site

0710 H+S Polypore meeting

0715 Drove to wella to be sampled

0855 Sampled DEC-013

0915 Sampled DEC-013D

0953 - Picked up 5 Bone top drums and

3. Bone top drums

1135 Sampled DEC-028

1155 Sampled DEC-028D

1319 Sampled DEC-031TC + MS/MSA

1355 Sampled DEC-011

1415 Sampled DEC-011D

1452 Sampled DEC-010

1510 Area picked up 2 water and 1

PPE drums Spectrum picked up 2 coals

1610 Sampled DEC-004

1630 Sampled DEC-008

1640 Sampled DEC-042

1720. left the site

1742 - Arrived at hotel

Location

Date

Project / Client

Klink Cosano

Saturday 3/31/12

wx: Partly cloudy. Breezy -

Temperatures high 40° low 50°

0700 - on site

0709 H+S Polypore meeting - Crew is

Kevin, Dan + Mike

0715 - All crew go to well site

0855 Sampled DEC-005

1105 Sampled DEC-005D

1130 Sampled DEC-029TC + duplicate sample

26120331-407

1417 Sampled DEC-031D

1440 Sampled DEC-044

1515 left site - drove to hotel (Mountain View)

Mike left - his last day on the

Project. unloaded equipment in

hotel and placed in Norma's car

for what we need for Sunday

1600 Finished work for the day

4/11/12 - Sunday -

Wx. Partly Sunny - Tempa high 30's

11:54 AM 50's pm. Windy

10700 - Left hotel, - drove to site
(Kevin + John)

0730. Setup at 1st well location.

0826. Sampled DEC-027

1025 Sampled DEC-040 plus deep

20120401-FO-1

1205 Sampled DEC-031

1230 Roved all remaining PFE and

plugs were in drum. There are

now 8 drums on site

5 "bungy top" wire drums

3 fine top PFE drums

all other drums mostly full

17340 - Back at hotel

4/12/12 - Monday -

Wx. Sunny - Cool (40's-50's F)
Foggy

0730. Tourt Kevin - began begin loading

equipment into Van Rued

4th wheel equipment behind

hotel front back for later PFE

Co. when pick-up. Equip consists of

4 Pumps

3 Hach Turbid. meters

3 Controllers

3 Compressors

1 generator

1 Ground for pump on a reel

3 Hach 1/2" PFE

0840 left hotel - drove to the site.

0855 at site.

0905. Met MIRA. Came MIRA 2

Gull Co. of samples and 3

empty Co. of samples - plus 2

Must will meet Corrier from

Spectrum and also pick up

driver.

Location:

Project : Client

Klink Casano

21/2/72

Oct 10 20. Kevin + John left 5:12
and drove to Buffalo
1730 - arrived in Buffalo.

Date _____

Location:

Project / Client

Date _____

100

APPENDIX C

GEOPHYSICAL SURVEY REPORT

RI PHASE I

May 31, 2011

Mr. Chuck Dusiel
Mr. George Kisluk
Mr. Scott McCabe
URS Corporation, Inc.
77 Goodell Street
Buffalo NY 14203

Re: Finalized Report
Klink Cosmo Cleaners Borehole Clearance Survey
Site ID# 2-24-130
Work Order No. 243779 US
Brooklyn, New York
URS/NYCDDC Project
RSI Job No. 11-042

Dear Gentlemen,

Please find below our finalized GPR and EM induction (EMI) interpretations for the Klink Cosmo Cleaners borehole clearance survey in Brooklyn, New York. On May 2nd and 3rd, 2011, RSI conducted ground penetrating radar (GPR) and EMI surveys to locate potential utilities and other obstructions coincident with 17 proposed soil boring and 10 proposed monitoring well locations.

RSI used a GSSI SIR-20 radar system, with a 500 MHz antenna and utility cart with a built-in encoder in it, as well as two different EM induction tools, both of which detect 60 Hz energy and enable the receiver to trace any utility carrying an induced frequency, to clear an area approximately 10 feet by 10 feet around each proposed soil boring and monitoring well location. The table below summarizes our field interpretation.

We greatly appreciate this opportunity to work with URS Corporation, Inc. again. Please call should you have any inquiries regarding this or future assignments.

Sincerely,
RADAR SOLUTIONS INTERNATIONAL



Doria Kutrubes, M.Sc., P.G.
President and Sr. Geophysicist

TABLE 1
SUMMARY OF GPR AND EM INDUCTION RESULTS

Well/Boring ID	Proposed Location(s)	Recommended Re-Location(s)	Comments
MW-30D	5E, 5N	0N, 3.5E	Water line 5 feet from and parallels west curb of Division Street. Electrical service 5' south of building's northeast corner. Existing SG-48 at 5E, 9N. No live 60 Hz observed within 10x10 grid using EMI.
O MW-13D	5E, 5N	5E, 2N	Existing MW at 0.5N, 5.2E. Looks OK; could move to 5E, 2N. No live 60 Hz observed within 10x10 grid using EMI.
MW-64D	5E, 2.5N and 5E, 7.5N	5E, 1N 6E, 7.5N	Possible MH cover or metal plate, 7.5E from 2.7N-7.5N. No live 60 Hz observed within 10x10 grid using EMI.
SB-80	5E, 5N	n/a	Looks OK. No live 60 Hz observed within 10x10 grid using EMI.
SB-81 MW-14 MW-14D	5E, 21N 5E, 10N 5E, 5N	n/a n/a 5E, 3N alternate	Existing DEC-14 at 4.5E, 15.5N. Looks clear. No live 60 Hz observed within 10x10 grid using EMI.
SB-82	5E, 5N	3.5E, 5N	Possible point target at proposed boring location (probable cinder, metal scrap). No live 60 Hz observed within 10x10 grid using EMI.
SB-83	5E, 5N	2E, 3N	Something near 5E, 4N. No live 60 Hz observed within 10x10 grid using EMI.
MW-45D	5E, 5N	n/a	Should be OK. Nearby telephone utility to east is fiberoptic with no 60 Hz tracer wire. Unable to detect with either EMI device.
MW-66D MW-66S	5E, 2.7N 5E, 1.5N	n/a 5E, 0N	Possible point target at shallow well.
SB-84 DEC-44	10E, 5N 1E, 5N	n/a n/a	Existing well DEC-44 at 6E, 6N. Both proposed locations look OK.
MW-65S MW-65D SB-85	15E, 5N 6.5E, 5N 11E, 5N	n/a n/a n/a	Water service parallel 3W. Nearby point targets, but nothing coincident with proposed locations.
SB-86	5E, 5N	n/a	Looks OK
SB-87	5E, 5N	n/a	Looks OK. Electrical line parallel 10N (+/- 2'). Water gate at 5W, 13N.
EC-43D	5E, 5N	7E, 5N	possible cobble/metal at initial location.
SG-78	5E, 5N	5E, 7.5N	Probable cobble.
DEC-006DD	5E, 5.5N	5E, 7.5N	Electrical utility 3 feet east of curb line in street.
DEC-007D	5E, 5N	5E, 7.5W	Gas line roughly parallel 6.5E.
DEC-015D	5E, 5N	n/a	Should be OK.
SG-79	5E, 5N	hand dig	Possible buried slab, below which we do not see anything along Lines 5E and 7.5E. Hand dig this location
MW-89D	5E, 5N	n/a	Should be OK. Small point targets in fill (cinders or metal scrap).

RI PHASE II

March 2, 2011

Mr. George Kisluk
Mr. Scott McCabe
URS Corporation, Inc.
77 Goodell Street
Buffalo NY 14203

Re: Finalized Report
Klink Cosmo Cleaners Borehole Clearance Survey - Phase II
Site ID# 2-24-130
Work Order No. 243779 US
Brooklyn, New York
URS/NYCDDC Project
RSI Job No. 12-009

Dear Gentlemen,

Please find below our finalized GPR and EM induction (EMI) interpretations for the Klink Cosmo Cleaners, Phase II, borehole clearance survey in Brooklyn, New York. RSI conducted ground penetrating radar (GPR) and EMI surveys on February 27, 2012 to locate potential utilities and other obstructions coincident with proposed soil boring and monitoring well locations.

RSI used a GSSI SIR-3000 radar system, with a 500 MHz antenna and utility cart with a built-in encoder in it, as well as a Subside Ditch Witch 950 T/R EM induction tool. The EMI tool was used to detect coherent 60 Hz energy and enable the receiver to trace any utility carrying an induced frequency, to clear an area approximately 10 feet by 10 feet around each proposed soil boring and monitoring well location. The table below summarizes our field interpretation.

We greatly appreciate this opportunity to work with URS Corporation, Inc. again. Please call should you have any inquiries regarding this or future assignments.

Sincerely,
RADAR SOLUTIONS INTERNATIONAL



Doria Kutrubes, M.Sc., P.G.
President and Sr. Geophysicist

TABLE 1
SUMMARY OF GPR AND EM INDUCTION RESULTS

Well/Boring ID	Proposed Location(s)	Recommended Re-Location(s)	Comments
DEC 88D and DEC 88	5E, 5N 5E, 14N	n/a 5.5E, 17N	Small, shallow targets observed; possible cobbles/tentative utilities. No live, coherent 60 Hz observed within 10x10 grid using EMI.
SG-113	5E, 5N	n/a	DEC-29 at 2.5E, 2.5N. Should be OK. No live, coherent 60 Hz detected using EMI.
DEC-15R	5.3E, 4.7N	n/a	existing DEC-15D at 5.3E, 0.5S, Water Svc. is 4' from Hydrant, parallel to 11.5N (from EMI). May be shallow pipe trending from 10E, 1.5N to 5.5E, 6N; is 1' deep.
DEC-28D	9.5E, 5N	9.5E, 6.5N	Existing DEC 28 at 3E, 6N; small point target around 9E, 5N; move proposed well to be safe. No 60Hz detected using EMI
SG-112	5E, 5N	1.5E, 6N	Deeper point targets observed along Lines 0N, 2.5N, and 5N at 5E. Live, 60 Hz signal detected: possible utility parallel 3E.
DEC 11D	5E, 5N	n/a	No EMI detected. Looks OK.
DEC-46D	5N, 11E	3N, 10.5E	Initially under car, which moved during survey. Electrical Lines detected roughly parallel 6.5N and 8N (the latter marked out by Dig-Safe). Some interference between two E lines, EMI not clear. Relocated further to south to be safe.
SG-120	5E, 5N	n/a	May be utility trending from 0E, 10N to 10E, 6.5N; No 60Hz detected at proposed boring
SG-61R	5E, 5N	n/a	Damaged existing SG-61 at 5E, 2N. No EMI detected at proposed location. Should be OK.
SG-122	5E, 5N	n/a	Existing DEC 47 at 5E, 1N. Lots of point targets around. No EMI detected. Should be OK.
DEC 90D DEC 90	5E, 5N 5E, 10N	n/a At discretion of URS	evidence of excavation just north of proposed well. Centerline of excavation trends from 2.5E, 7N to 5E, 9N to 7.5E, 11.5N. DEC 90D looks OK; DEC-90 is near CL of trench. May want to relocate DEC-90 to north in case there is a utility near the trench CL that can not be detected using GPR and EMI. Relocation at the discretion of URS - vacuum excavating.
SG-115	5E, 5N	n/a	SG-83 at 5E, 9N. Looks OK, but unable to get good EMI reading due to proximity to cell/communications tower.
SG-118	5E, 5N	n/a	Should be OK. However GPR had limited penetration. No EMI due to proximity to cell/communications tower.
DEC 91 DEC 91D	5E, 15N 5E, 6N	n/a n/a	Both look OK. No EMI detected, but still in proximity of tower
SG-121	5E, 5N	n/a	Looks OK. No EMI detected.
SG-119	5E, 5N	Drill through old SG location	Possible utility parallel 3.5N. Also, may be a second utility parallel 5N, or seam in sidewalk. URS proposes drilling new SG through original SG location; OK from a geophysical standpoint.
SG-117	5E, 5N	n/a	DEC-66 at 4.5E, 1.2S. Some point targets, but nothing consistent with a utility.
SG-116	5E, 5N	7.5E, 5N	Possible utility trending from 10E, 8.5N to 7.5E, 7N to 5E, 5N to 2.5E, 3.5N; No EMI detected within grid. Relocate to avoid possible utility.
SG-114	5E, 5N	8.5E, 5N	Moved to avoid multiple, small point targets. No EMI detected within grid.

APPENDIX D

SOIL BORING LOGS

RI PHASE I

<div>URS Corporation</div>										TEST BORING LOG				
										BORING NO. : DEC-004				
PROJECT/PROJECT LOCATION: Meeker Avenue Plume Trackdown										SHEET: 1 OF 2				
CLIENT: New York State Department of Environmental Conservation										JOB NO. : 11176332 / 11176390				
BORING CONTRACTOR: Aquifer Drilling & Testing Inc.										NORTHING:202478.48904 EASTING: 1001408.06000				
GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION: 39.26 feet amsl					
DATE	TIME	LEVEL	TYPE	TYPE		Split Spoon			DATE STARTED: 5/23/07					
				DIA.		2-inch			DATE FINISHED: 6/14/07					
				WT.		140 lbs.			DRILLER: Jeremy Meyers					
				FALL		30 - inches			GEOLOGIST: Claire Renaldo					
					* POCKET PENETROMETER READING				REVIEWED BY: Scott Fischer					
DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION	USCS	PID	REMARKS				
		NO.	BLOW COUNT	RQD%		CONSISTENCY								
						ROCK HARDNESS								
0							Hand Cleared to 5' bgs.			Vactron cleared boring 0-5.0'				
-5		1	2/3/4/6	50	Medium Brown	Loose	Sandy SILT	SM	0.3	Moist				
		2	5/3/3/5	50			CLAY, some silt		0.6					
-10		3	2/3/2/3	75	Gray		Coarse Sandy SILT		0.5					
		4	3/4/5/4	50	Brown				0.6					
		5	5/8/9/12	50	Gray				0.5	Wet				
-15		6	14/16/17/19	25	Tan	Medium Dense	SILT, some clay		0.5					
		7	14/15/22/11	50		Dense	-some coarse gravel		0.4	Moist				
-20		8	33/17/15/21	75	Mottled Gray		Fine Sandy SILT		3.0					
		9	19/21/22/24	100	Brown		-some gravel and cobbles		0.7					
-25							-mud-rotary drilling, no samples collected							
COMMENTS: Boring advanced with track-mounted CME-55 drilling rig equipped with 4.25" hollow stem augers.														
BORING NO. : DEC-004														

URS Corporation							TEST BORING LOG				
PROJECT: Meeker Avenue Plume Trackdown							BORING NO. : DEC-004				
CLIENT: New York State Department of Environmental Conservation							SHEET: 2 OF 2				
							JOB NO. : 11176332 / 11176390				
DEPTH FEET	STRATA	SAMPLE		REC %	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS	
		NO.	BLOW COUNT	RQD %		ROCK HARDNESS					
-30	[Pattern]										
-35	[Pattern]	10	16/65/46/16	75	Gray	Very Dense	Fine Sandy SILT		315		
	[Pattern]									180	
-40	[Pattern]	11	9/23/27/16	75							
	[Pattern]										
-45	[Pattern]	12	12/17/23/16	100	Tan	Dense	Coarse SAND	SP	0.0		
-50							Boring Completed at 47' bgs.				
-55											
COMMENTS: Boring advanced with track-mounted CME-55 drilling rig equipped with 4.25" hollow stem augers.											
BORING NO. : DEC-004											



TEST BORING LOG

BORING NO. : DEC-006

PROJECT: Meeker Avenue Plume Trackdown

SHEET: 2 OF 2

CLIENT: New York State Department of Environmental Conservation

JOB NO.: 11176332 / 11176390

DEPTH FEET	STRATA	SAMPLE		REC %	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD %		ROCK HARDNESS				
-30 <										

COMMENTS: Boring advanced with track-mounted CME-55 drilling rig equipped with 4.25" hollow stem augers. Sampled 23'-24' bgs for 8260 VOCs at 1100.

BORING NO. : DEC-006

<div>URS Corporation</div>										TEST BORING LOG				
										BORING NO. : DEC-006D				
PROJECT/PROJECT LOCATION: Meeker Avenue Plume Trackdown										SHEET: 1 OF 2				
CLIENT: New York State Department of Environmental Conservation										JOB NO. : 11176332 / 11176390				
BORING CONTRACTOR: Aquifer Drilling & Testing Inc.										NORTHING:202533.2752 EASTING: 1002137.432				
GROUNDWATER:Encountered at 47.0' bgs.						CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION: 48.81				
DATE	TIME	LEVEL	TYPE	TYPE	Casing	Split Spoon			DATE STARTED: 5/27/08					
				DIA.	4"	2-inch			DATE FINISHED: 6/2/08					
				WT.		140 lbs.			DRILLER: Jeremy Meyers					
				FALL		30 - inches			GEOLOGIST: C. Friedman					
				* POCKET PENETROMETER READING					REVIEWED BY: Tim Burmeier					
DEPTH FEET	STRATA	SAMPLE		REC%		SOIL	MATERIAL DESCRIPTION			USCS	PID	REMARKS		
		NO.	BLOW COUNT	RQD%	COLOR	CONSISTENCY ROCK HARDNESS								
0							See DEC-006 Boring Log for Lithologic Description From 0-35.0 feet bgs					Vactron cleared boring 0-5.0'		
-5														
-10														
-15														
-20														
-25														
COMMENTS: Boring advanced with track-mounted CME-55LC using 4-inch mud-rotary drilling.														
BORING NO. : DEC-006D														



TEST BORING LOG

BORING NO. : DEC-006D

PROJECT: Meeker Avenue Plume Trackdown

SHEET: 2 OF 2

CLIENT: New York State Department of Environmental Conservation

JOB NO.: 11176332 / 11176390

DEPTH FEET	STRATA	SAMPLE		REC %	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS				
		NO.	BLOW COUNT	RQD %		ROCK HARDNESS								
<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>														
	<div></div>	1	7/38/26/71	75	Brown	Very Dense	Fine to medium SAND, trace to some gravel	SP	0.4	moist				
		2	38/46/17/18	15					0.7					
		3	16/22/28/35	50					3.3					
		4	31/22/28/48	100					3.4					
		5	100/1	100					0.5					
	<div></div>	6	23/34/48/36	20							Medium to coarse SAND, trace to some gravel		0.0	wet
		7	14/22/24/27	50									0.0	
		8	20/30/33/34	100			0.0							
		9	20/19/30/48	50	0.0									
		10	51/41/38/34	50	0.0									
	Boring Completed at 58.0' bgs.							0.0						

COMMENTS: Boring advanced with track-mounted CME-55LC using 4-inch mud-rotary drilling.

BORING NO. : DEC-006D

<div>URS Corporation</div>										TEST BORING LOG				
										BORING NO. : DEC-006DD				
PROJECT/PROJECT LOCATION: Former Klink Cosmo Cleaners Site										SHEET: 1 OF 4				
CLIENT: New York State Department of Environmental Conservation										JOB NO. : 11176390.00002				
BORING CONTRACTOR: Aquifer Drilling & Testing Inc.										NORTHING:202527.166 EASTING: 1002139.573				
GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION: 48.60 feet amsl					
DATE	TIME	LEVEL	TYPE	TYPE					DATE STARTED: 5/19/11					
				DIA.					DATE FINISHED: 5/20/11					
				WT.					DRILLER: J. Meyers					
				FALL					GEOLOGIST: C. Friedman					
					* POCKET PENETROMETER READING				REVIEWED BY: T. Burmeier					
DEPTH FEET	STRATA	SAMPLE		REC%		SOIL	MATERIAL			USCS	PID	REMARKS		
		NO.	BLOW COUNT	RQD%	COLOR	CONSISTENCY ROCK HARDNESS	DESCRIPTION							
0							See DEC-006D boring log for lithologic description for 0-55.0 feet bgs.					Vactron cleared 0-5.0' bgs		
-5														
-10														
-15														
-20														
-25														
COMMENTS: Boring advanced with track-mounted AMS 17-C Sonic drill rig.														
BORING NO. :DEC-006DD														



TEST BORING LOG

BORING NO. : DEC-006DD

PROJECT: Former Klink Cosmo Cleaners Site

SHEET: 2 OF 4

CLIENT: New York State Department of Environmental Conservation

JOB NO. :11176390.00002

[illegible]

COMMENTS: Boring advanced with track-mounted AMS 17-C Sonic drill rig.


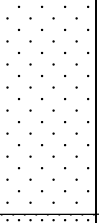

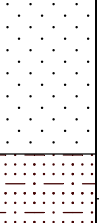
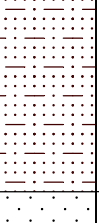
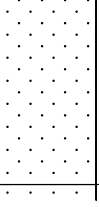
BORING NO. :DEC-006DD

PROJECT: Former Klink Cosmo Cleaners Site


SHEET: 3 OF 4

CLIENT: New York State Department of Environmental Conservation

JOB NO. :11176390.00002

DEPTH FEET	STRATA	SAMPLE		REC %	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD %		ROCK HARDNESS				
-60		2		10	Brown		Fine SAND, trace cobbles	SP		NA
										NA
										0.0
										0.0
										0.0
										0.0
										0.0
-65		3		70			Fine to medium SAND, little gravel			1.1
										1.0
										1.0
										0.0
										0.0
										0.0
										0.0
-70		4		30			Fine SAND, trace silt and gravel			0.0
										0.0
										0.0
										0.0
										0.0
										0.0
										0.0
-75		5		100			Fine to medium SAND, trace silt and gravel			0.5
										0.4
										0.2
										0.4
										0.0
										NA
										NA
-80		6		0			Fine SAND and SILT -no recovery	SM		0.0
										NA
										NA
										NA
										NA
										NA
										NA
-85		7		90			Fine to coarse SAND, little gravel	SW		0.5
										0.4
										0.3
										0.2
										0.0
-90										

COMMENTS: Boring advanced with track-mounted AMS 17-C Sonic drill rig.

URS Corporation							TEST BORING LOG			
PROJECT: Former Klink Cosmo Cleaners Site							BORING NO. : DEC-006DD			
CLIENT: New York State Department of Environmental Conservation							SHEET: 4 OF 4			
							JOB NO. :11176390.00002			
DEPTH FEET	STRATA	SAMPLE		REC %	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD %		ROCK HARDNESS				
-95		8		60			Fine to medium SAND, trace gravel		1.3	
									1.2	
									1.1	
-100							Boring completed at 93.0' bgs.			
-105										
-110										
-115										
-120										

COMMENTS: Boring advanced with track-mounted AMS 17-C Sonic drill rig.

BORING NO. :DEC-006DD

URS Corporation										TEST BORING LOG			
										BORING NO. : DEC-007			
PROJECT/PROJECT LOCATION: Meeker Avenue Plume Trackdown										SHEET: 1 OF 2			
CLIENT: New York State Department of Environmental Conservation										JOB NO. : 11176390			
BORING CONTRACTOR: Aquifer Drilling & Testing Inc.										NORTHING:Not Surveyed EASTING: Not Surveyed			
GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION: Not Surveyed				
DATE	TIME	LEVEL	TYPE	TYPE		Split Spoon			DATE STARTED: 5/31/07				
				DIA.		2-inch			DATE FINISHED: 5/31/07				
				WT.		140 lbs.			DRILLER: Jeremy Meyers				
				FALL		30 - inches			GEOLOGIST: Angela Ledgerwood				
					* POCKET PENETROMETER READING				REVIEWED BY: Scott Fischer				
DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION	USCS	PID	REMARKS			
		NO.	BLOW COUNT	RQD%		CONSISTENCY ROCK HARDNESS							
0							Hand Cleared to 5' bgs.			Vactron cleared boring 0-5.0'			
-5		1	5/10/11/11	75	Red Brown	Medium Dense	Silty medium SAND, trace gravel and clay	SM	0.2	Dry			
		2	5/9/9/6	50	Medium Brown		Medium SAND, some gravel, trace silt	SP	1.1				
-10		3	3/5/6/7	25			Fine to medium SAND, trace silt	SW	3.4				
		4	1/7/6/6	75					0.5				
		5	4/5/7/7	75					0.0				
-15		6	4/7/8/8	50					0.0				
		7	4/5/6/6	50					0.1	Moist			
-20		8	3/2/2/4	50		Loose	Fine SAND, some silt	SP	0.0				
		9	3/5/5/7	100			Silty fine SAND	SM	0.0	Wet			
		10	3/7/12/12	100	Red Brown	Medium Dense			0.0				
-25		11	4/4/10/18	75	Gray				0.0				
COMMENTS: Boring advanced with track-mounted CME-55 drilling rig equipped with 4.25" hollow stem augers. No sample collected due to poor recovery and abundance of cobbles above water table.													
BORING NO. : DEC-007													

BORING NO. : DEC-007

<div>URS Corporation</div>										TEST BORING LOG				
										BORING NO. : DEC-007D				
PROJECT/PROJECT LOCATION: Former Klink Cosmo Cleaners Site										SHEET: 1 OF 4				
CLIENT: New York State Department of Environmental Conservation										JOB NO. : 11176390.00002				
BORING CONTRACTOR: Aquifer Drilling & Testing Inc.										NORTHING:202355.105 EASTING: 1001986.276				
GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION: 42.85 feet amsl					
DATE	TIME	LEVEL	TYPE	TYPE					DATE STARTED: 5/17/11					
				DIA.					DATE FINISHED: 5/18/11					
				WT.					DRILLER: J. Meyers					
				FALL					GEOLOGIST: C. Friedman					
					* POCKET PENETROMETER READING				REVIEWED BY: T. Burmeier					
DEPTH FEET	STRATA	SAMPLE		REC%		SOIL	MATERIAL			USCS	PID	REMARKS		
		NO.	BLOW COUNT	RQD%	COLOR	CONSISTENCY ROCK HARDNESS	DESCRIPTION							
0							See DEC-007 boring log for lithologic description for 0-40.0 feet bgs.					Vactron cleared 0-5.0' bgs		
-5														
-10														
-15														
-20														
-25														
COMMENTS: Boring advanced with track-mounted AMS 17-C Sonic drill rig.														
BORING NO. :DEC-007D														

PROJECT: Former Klink Cosmo Cleaners Site

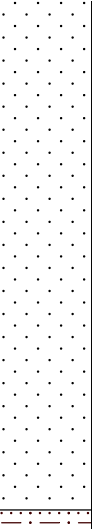
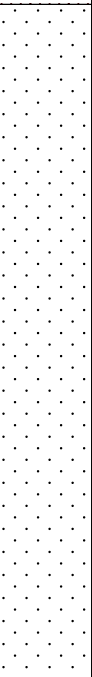
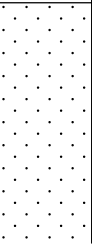
SHEET: 2 OF 4

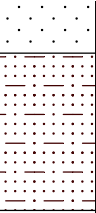
CLIENT: New York State Department of Environmental Conservation

JOB NO. :11176390.00002

DEPTH FEET	STRATA	SAMPLE		REC %	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD %		ROCK HARDNESS				
-30										
-35										
-40					Grey		Fine SAND and SILT, some gravel	SM		Wet
		1		40			GRAVEL and COBBLES, little medium to coarse sand	GW	0.0	
									0.0	
									0.0	
									0.0	
-45					Brown		Fine to medium SAND, little coarse sand, gravel and cobbles	SP	0.5	
		2		90					0.4	
									0.2	
									0.1	
									0.3	
-50							-trace gravel		3.7	
							Fine to coarse SAND, GRAVEL and COBBLES		2.1	
		3		70				SW	0.7	
							Fine to medium SAND, little coarse sand and gravel	SP	1.4	
									0.0	
-55									4.7	
									1.3	
		4		80					1.2	

COMMENTS: Boring advanced with track-mounted AMS 17-C Sonic drill rig.

<div>URS Corporation</div>							TEST BORING LOG							
PROJECT: Former Klink Cosmo Cleaners Site							BORING NO. : DEC-007D							
CLIENT: New York State Department of Environmental Conservation							SHEET: 3 OF 4							
							JOB NO. :11176390.00002							
DEPTH FEET	STRATA	SAMPLE		REC %	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS				
		NO.	BLOW COUNT	RQD %		ROCK HARDNESS								
-60		5		0		-no recovery				0.7				
										0.0				
										NA				
										NA				
										NA				
-65		6		100		NA								
						NA								
						3.8								
						4.0								
						1.2								
-70		7		80	Fine SAND and SILT	Fine to medium SAND, little coarse sand and gravel	SM SP		1.0					
									0.0					
									1.8					
									2.0					
									0.9					
-75		8		90					0.5					
									0.0					
									10.0					
									10.4					
									15.5					
-80	9		0	16.6										
				16.7										
				NA										
				NA										
				NA										
-85				80	-no recovery	Fine to coarse SAND, little gravel			NA					
									0.5					
									0.4					
									0.3					
									0.0					
-90	10								0.0					
									0.0					
<div>COMMENTS: Boring advanced with track-mounted AMS 17-C Sonic drill rig.</div>														
<div>BORING NO. :DEC-007D</div>														

<div>URS Corporation</div>							TEST BORING LOG			
							BORING NO. : DEC-007D			
PROJECT: Former Klink Cosmo Cleaners Site							SHEET: 4 OF 4			
CLIENT: New York State Department of Environmental Conservation							JOB NO. :11176390.00002			
DEPTH FEET	STRATA	SAMPLE		REC %	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD %		ROCK HARDNESS				
-95							Fine SAND and SILT, some gravel and cobbles	SM	0.0	
						0.0				
						0.0				
						0.0				
						0.0				
							Boring Completed at 95.0' bgs.			
-100										
-105										
-110										
-115										
-120										
<div>COMMENTS: Boring advanced with track-mounted AMS 17-C Sonic drill rig.</div>										
<div>BORING NO. :DEC-007D</div>										

<div>URS Corporation</div>										TEST BORING LOG			
										BORING NO. : DEC-008			
PROJECT/PROJECT LOCATION: Meeker Avenue Plume Trackdown										SHEET: 1 OF 2			
CLIENT: New York State Department of Environmental Conservation										JOB NO. : 11176332 / 11176390			
BORING CONTRACTOR: Aquifer Drilling & Testing Inc.										NORTHING:202398.12145 EASTING: 1001768.6907			
GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION: 41.01 feet amsl				
DATE	TIME	LEVEL	TYPE	TYPE		Split Spoon			DATE STARTED: 5/30/07				
				DIA.		2-inch			DATE FINISHED: 6/8/07				
				WT.		140 lbs.			DRILLER: Jeremy Meyers				
				FALL		30 - inches			GEOLOGIST: Claire Renaldo				
					* POCKET PENETROMETER READING				REVIEWED BY: Scott Fischer				
DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION	USCS	PID	REMARKS			
		NO.	BLOW COUNT	RQD%		CONSISTENCY ROCK HARDNESS							
0							Hand Cleared to 5' bgs.			Vactron cleared boring 0-5.0'			
-5		1	5/11/16/2		Red Brown	Medium Dense	Sandy SILT, trace gravel	SM	0.0	Dry			
		2	10/12/11/14						0.0				
		3	9/20/16/23		Lt. Brown	Dense			0.0				
		4	16/12/14/14		Red Brown	Medium Dense			0.0				
-10		5	16/16/50/3		Brown	Very Dense	Medium SAND, trace silt and gravel	SP	0.0	Begin Mud Rotary Drilling			
		6	7/44/56/44		Lt. Tan				0.0				
-15							Silty medium SAND, trace rounded gravel	SM					
		7	13/17/17/31		Dark Brown	Dense			0.0				
		8	41/22/20/20		Brown				0.7 2.1				
-20							Coarse SAND, trace silt	SP					
		9	18/22/30/45			Very Dense			SAND-SILT-GRAVEL		GM	0.0	
-25													
COMMENTS: Boring advanced with track-mounted CME-55 drilling rig equipped with 4.25" hollow stem augers. Sampled for VOCs 38'-39' bgs. Auger refusal at 18' bgs, commence mud rotary drilling.													
BORING NO. : DEC-008													

<div>URS Corporation</div>										TEST BORING LOG				
										BORING NO. : DEC-009				
PROJECT/PROJECT LOCATION: Meeker Avenue Plume Trackdown										SHEET: 1 OF 2				
CLIENT: New York State Department of Environmental Conservation										JOB NO. : 11176332 / 11176390				
BORING CONTRACTOR: Aquifer Drilling & Testing Inc.										NORTHING:202173.55843 EASTING: 1001470.0995				
GROUNDWATER:40' bgs						CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION: 40.91 feet amsl				
DATE	TIME	LEVEL	TYPE	TYPE		Split Spoon			DATE STARTED: 5/30/07					
				DIA.		2-inch			DATE FINISHED: 6/8/07					
				WT.		140 lbs.			DRILLER: Jeremy Meyers					
				FALL		30 - inches			GEOLOGIST: Claire Renaldo					
						* POCKET PENETROMETER READING				REVIEWED BY: Scott Fischer				
DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION	USCS	PID	REMARKS				
		NO.	BLOW COUNT	RQD%		CONSISTENCY					ROCK HARDNESS			
0							Hand Cleared to 5' bgs.			Vactron cleared boring 0-5.0'				
-5		1	1/2/4/4	0	Yellow Brown	Loose	No Recovery							
		2	3/3/5/12	25			Silty medium SAND	SM	0.0	Moist				
-10		3	6/17/12/10	75		Medium Dense	Silty SAND, trace cobbles, petroleum odor		0.0					
		4	11/11/13/12	75	Gray		Silty fine SAND, some gravel		684.0					
		5	6/8/8/9	50	Medium Brown				10.2					
-15									6.8					
		6	13/15/9/11	50			SILT, trace clay	ML						
							SILT-SAND-GRAVEL	GM	3.2					
		7	21/34/23/22	25	Lt. Brown	Very Dense			0.9	Dry				
-20		8	19/12/13/16	50		Medium Dense	Coarse SAND, some gravel	SP	1.6					
		9	11/13/15/15	50			Medium SAND, trace silt		0.8					
-25		10	11/18/18/20	75	Gray Brown	Dense	-trace gravel		1.5					
		11	1/11/22/18	50					1.0					
COMMENTS: Boring advanced with track-mounted CME-55 drilling rig equipped with 4.25" hollow stem augers. Sampled for VOCs 12'-13' bgs.														
BORING NO. : DEC-009														



TEST BORING LOG

BORING NO. : DEC-010

PROJECT: Meeker Avenue Plume Trackdown

SHEET: 2 OF 2

CLIENT: New York State Department of Environmental Conservation

JOB NO.: 11176332 / 11176390

DEPTH FEET	STRATA	SAMPLE		REC %	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD %		ROCK HARDNESS				
-30 <										

COMMENTS: Boring advanced with track-mounted CME-55 drilling rig equipped with 4.25" hollow stem augers.

BORING NO. : DEC-010

PROJECT/PROJECT LOCATION: Meeker Avenue Plume Trackdown

SHEET: 1 OF 2

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 11176332 / 11176390

BORING CONTRACTOR: Aquifer Drilling & Testing Inc.

NORTHING: 201714.20215 EASTING: 1001434.3139

GROUNDWATER: 38' bgs

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 40.22 feet amsl

DATE

TIME

LEVEL

TYPE

TYPE

Split Spoon

DATE STARTED: 5/24/07

DIA.

2-inch

DATE FINISHED: 5/30/07

WT.

140 lbs.

DRILLER: Tony

FALL

30 - inches

GEOLOGIST: Angela Ledgerwood

REVIEWED BY: Scott Fischer

DEPTH
FEET

STRATA

SAMPLE

NO.

BLOW
COUNT

REC%

RQD%

COLOR

SOIL
CONSISTENCY

ROCK
HARDNESS

MATERIAL
DESCRIPTION

USCS

PID

REMARKS

0

-5

-10

-15

-20

-25

Vactron
cleared
boring 0-5.0'

Dry

Hand Cleared to 5' bgs.

SILT
- trace fine gravel

Dense
Sandy SILT, some gravel

Medium
Dense
Silty coarse SAND, some gravel

Reddish
Gray
SILT, trace fine gravel

Dense
Silty coarse SAND

SILT, trace fine gravel

Medium
Brown
Medium
Dense
Coarse SAND, trace silt and cobbles

Very
Dense

Lt.
Brown

COMMENTS: Boring advanced with track-mounted CME-55 drilling rig equipped with 4.25" hollow stem augers.

Sampled for VOCs 35'-36' bgs.



TEST BORING LOG

BORING NO. : DEC-011

PROJECT: Meeker Avenue Plume Trackdown

SHEET: 2 OF 2












CLIENT: New York State Department of Environmental Conservation

JOB NO. : 11176332 / 11176390

[illegible]

COMMENTS: Boring advanced with track-mounted CME-55 drilling rig equipped with 4.25" hollow stem augers. Sampled for VOCs 35'-36' bgs.

BORING NO. : DEC-011

<div>URS Corporation</div>										TEST BORING LOG				
										BORING NO. : DEC-012				
PROJECT/PROJECT LOCATION: Meeker Avenue Plume Trackdown										SHEET: 1 OF 2				
CLIENT: New York State Department of Environmental Conservation										JOB NO. : 11176332 / 11176390				
BORING CONTRACTOR: Aquifer Drilling & Testing Inc.										NORTHING:201758.10775 EASTING: 1001716.3228				
GROUNDWATER:35' bgs						CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION: 39.64 feet amsl				
DATE	TIME	LEVEL	TYPE	TYPE		Split Spoon			DATE STARTED: 6/1/07					
				DIA.		2-inch			DATE FINISHED: 6/4/07					
				WT.		140 lbs.			DRILLER: Rudy					
				FALL		30 - inches			GEOLOGIST: Claire Renaldo					
						* POCKET PENETROMETER READING				REVIEWED BY: Scott Fischer				
DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION	USCS	PID	REMARKS				
		NO.	BLOW COUNT	RQD%		CONSISTENCY ROCK HARDNESS								
0							Hand Cleared to 5' bgs.			Vactron cleared boring 0-5.0'				
-5		1	1/2/4/4	10	Brown	Loose	Coarse SAND, trace gravel	SP	0.0	Dry				
		2	3/3/5/12	25	Orange Brown		Silty medium SAND, trace gravel	SM	0.0					
-10		3	6/17/12/10	10	Brown	Medium Dense			0.0					
		4	11/11/13/12	50				Silty medium to coarse SAND, trace gravel		0.0				
		5	6/8/8/9	5						0.0	Refusal Begin Mud Rotary Drilling			
-15		6	13/15/9/11	50				- trace cobbles		0.0				
		7	21/34/23/22	10		Very Dense	- some gravel		0.0					
-20														
		8	11/13/15/15	25		Medium Dense			0.0					
		9	11/18/18/20	25		Dense			0.0					
-25		10	1/11/22/18	25	Tan		Coarse SAND and GRAVEL	GP	0.0					
<div>COMMENTS: Boring advanced with track-mounted CME-55 drilling rig equipped with 4.25" hollow stem augers. Auger refusal at 14' bgs, commence mud rotary drilling. Sampled for VOCs 34'-35' bgs.</div>														
<div>BORING NO. : DEC-012</div>														



TEST BORING LOG

BORING NO. : DEC-012

PROJECT: Meeker Avenue Plume Trackdown

SHEET: 2 OF 2

CLIENT: New York State Department of Environmental Conservation

JOB NO.: 11176332 / 11176390

DEPTH FEET	STRATA	SAMPLE		REC %	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD %		ROCK HARDNESS				
-30 <										

COMMENTS: Boring advanced with track-mounted CME-55 drilling rig equipped with 4.25" hollow stem augers. Auger refusal at 14' bgs, commence mud rotary drilling. Sampled for VOCs 34'-35' bgs.

BORING NO. : DEC-012

PROJECT/PROJECT LOCATION: Meeker Avenue Plume Trackdown

SHEET: 1 OF 2

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 11176332 / 11176390

BORING CONTRACTOR: Aquifer Drilling & Testing Inc.

NORTHING: 201958.2666 EASTING: 1001649.5599

GROUNDWATER: Encountered at 36.5' bgs.

CAS. SAMPLER CORE TUBE

GROUND ELEVATION: 39.47 feet amsl

DATE	TIME	LEVEL	TYPE	TYPE	HSA	Split Spoon	CORE	TUBE
				DIA.	4.25 "	2-inch		
				WT.		140 lbs.		
				FALL		30 - inches		

DATE STARTED: 11/21/2007
 DATE FINISHED: 11/25/2007
 DRILLER: Jeremy Meyers
 GEOLOGIST: A. Ledgerwood

* POCKET PENETROMETER READING

REVIEWED BY: Tim Burmeier

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD%		ROCK HARDNESS				

0					Brown		Asphalt			Vactron cleared boring 0-5.0'
							FILL: Silty Sand, trace cobbles			
-5		1	2/6/6/11	60		Medium Dense				Moist
		2	9/9/11/17	70				SM	0.4	
		3	7/9/9/7	80			Silty SAND, trace gravel and cobbles		2.8	
-10		4	9/9/10/12	80					7.2	
		5	22/42/17/25	30	Grey	Very Dense			10.8	
-15		6	20/44/50/36	20	Brown Grey				4.0	
		7	50/ 50/2	50					9.9	
		8	14/25/22/26	50	Brown				0.7	
-20		9	15/24/36/32	50	Brown Grey		Fine to coarse SAND, trace gravel and cobbles	SW	0.4	
		10	22/ 50/6	30					26.4	
-25									3.0	

COMMENTS: Boring advanced with track-mounted CME-55LC using equipped with 4.25 -inch hollow stem augers.
 Sampled for VOCs 34.0-35.0' and 35.0-36.0' bgs.



TEST BORING LOG

BORING NO. : DEC-013

PROJECT: Meeker Avenue Plume Trackdown

SHEET: 2 OF 2

CLIENT: New York State Department of Environmental Conservation

JOB NO.: 11176332 / 11176390

DEPTH FEET	STRATA	SAMPLE		REC %	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD %		ROCK HARDNESS				
-30 										

COMMENTS: Boring advanced with track-mounted CME-55LC using equipped with 4.25 -inch hollow stem augers. Sampled for VOCs 34.0-35.0' and 35.0-36.0' bgs.

BORING NO. : DEC-013

<div>URS Corporation</div>										TEST BORING LOG				
										BORING NO. : DEC-013D				
PROJECT/PROJECT LOCATION: Former Klink Cosmo Cleaners Site										SHEET: 1 OF 3				
CLIENT: New York State Department of Environmental Conservation										JOB NO. : 11176390.00002				
BORING CONTRACTOR: Aquifer Drilling & Testing Inc.										NORTHING:201962.960 EASTING: 1001647.311				
GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION: 39.47 feet amsl					
DATE	TIME	LEVEL	TYPE	TYPE					DATE STARTED: 5/23/11					
				DIA.					DATE FINISHED: 5/27/11					
				WT.					DRILLER: G. Rivera, J. Meyers					
				FALL					GEOLOGIST: T. Ifkovich, C. Friedman					
					* POCKET PENETROMETER READING				REVIEWED BY: T. Burmeier					
DEPTH FEET	STRATA	SAMPLE		REC%		SOIL	MATERIAL			USCS	PID	REMARKS		
		NO.	BLOW COUNT	RQD%	COLOR	CONSISTENCY ROCK HARDNESS	DESCRIPTION							
0							See DEC-013 boring log for lithologic description for 0-45.0 feet bgs.					Vactron cleared 0-5.0' bgs		
-5														
-10														
-15														
-20														
-25														
COMMENTS: Boring advanced with track-mounted AMS17-C Sonic drill rig.														
BORING NO. :DEC-013D														



TEST BORING LOG

BORING NO. : DEC-013D

PROJECT: Former Klink Cosmo Cleaners Site

SHEET: 2 OF 3

CLIENT: New York State Department of Environmental Conservation

JOB NO. :11176390.00002

[illegible]

COMMENTS: Boring advanced with track-mounted AMS17-C Sonic drill rig.

BORING NO. :DEC-013D



TEST BORING LOG

BORING NO. : DEC-013D

PROJECT: Former Klink Cosmo Cleaners Site

SHEET: 3 OF 3

CLIENT: New York State Department of Environmental Conservation

JOB NO. :11176390.00002

DEPTH FEET	STRATA	SAMPLE		REC %	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD %		ROCK HARDNESS				
<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><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COMMENTS: Boring advanced with track-mounted AMS17-C Sonic drill rig.

BORING NO. :DEC-013D



TEST BORING LOG

BORING NO. : DEC-014

PROJECT: Meeker Avenue Plume Trackdown

SHEET: 2 OF 2

CLIENT: New York State Department of Environmental Conservation

JOB NO.: 11176390

[illegible]

COMMENTS: Boring advanced with track-mounted CME-55 drilling rig equipped with 4.25" hollow stem augers. Sampled for VOCs 20'-21' bgs.

BORING NO. : DEC-014

PROJECT/PROJECT LOCATION: Former Klink Cosmo Cleaners Site

SHEET: 1 OF 3

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 11176390.00002

BORING CONTRACTOR: Aquifer Drilling & Testing Inc.

NORTHING: 201919.921 EASTING: 1001937.307

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 36.10 feet amsl

DATE

TIME

LEVEL

TYPE

TYPE

DATE STARTED: 5/16/11

DATE FINISHED: 5/18/11

DRILLER: G. Rivera

GEOLOGIST: S. McCabe

* POCKET PENETROMETER READING

REVIEWED BY: T. Burmeier

DEPTH
FEET

STRATA

SAMPLE

NO.

BLOW
COUNT

REC%

RQD%

COLOR

SOIL
CONSISTENCY
ROCK
HARDNESS

MATERIAL
DESCRIPTION

USCS

PID

REMARKS

0

-5

-10

-15

-20

-25

Concrete

Vactron
cleared 0-5.0'
bgs

Dark
Grey

Fill: Fine to coarse size cinder, trace
slag, brick and gravel

FILL

0.2

Moist

0.3

Clayey SILT, trace sand and fine to
coarse gravel

ML

0.7

Silty fine SAND, trace fine to coarse
gravel

SM

0.3

0.5

Fine SAND, trace silt and fine to coarse
gravel

SP

0.4

0.4

0.7

0.5

Silty fine SAND, trace fine to coarse
gravel

SM

0.0

0.1

Clayey SILT, trace fine to coarse sand
and fine to coarse gravel

ML

0.0

0.0

0.2

0.1

0.0

0.0

0.1

0.3

0.0

Silty fine SAND, some fine to coarse

0.0

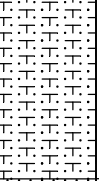

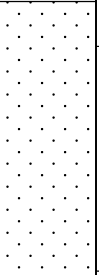
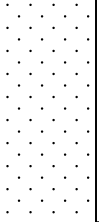
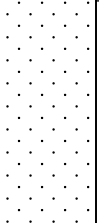
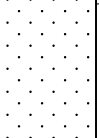

COMMENTS: Boring advanced with track-mounted AMS 17-C Sonic drill rig.
Soil sample collected from 31.0-32.0 feet bgs for TCL VOC plus TICs analysis.

PROJECT: Former Klink Cosmo Cleaners Site

SHEET: 2 OF 3

CLIENT: New York State Department of Environmental Conservation

JOB NO. :11176390.00002

DEPTH FEET	STRATA	SAMPLE		REC %	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD %		ROCK HARDNESS				
-30		5		94	Brown		gravel, trace cobbles and medium to coarse sand		0.0	Wet
									0.3	
									0.7	
									0.4	
-35		6		60	Brown		Fine SAND	SP	0.0	
									0.3	
									0.1	
									0.0	
-40		7		92					0.0	
									1.1	
									0.9	
									1.3	
-45		8		70			Fine to medium SAND, some fine to coarse gravel, trace coarse sand		1.4	
									2.3	
									4.2	
									6.1	
-50		9		50					10.1	
									11.7	
									0.0	
									1.1	
-55		10		0			-no recovery		1.4	
									0.9	
									0.0	
									NA	
		11		56			-trace cobbles		NA	
									NA	
									0.9	
									0.4	
									0.5	

COMMENTS: Boring advanced with track-mounted AMS 17-C Sonic drill rig.
Soil sample collected from 31.0-32.0 feet bgs for TCL VOC plus TICs analysis.

PROJECT: Former Klink Cosmo Cleaners Site

SHEET: 3 OF 3

CLIENT: New York State Department of Environmental Conservation

JOB NO. :11176390.00002

DEPTH FEET	STRATA	SAMPLE		REC %	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD %		ROCK HARDNESS				
<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><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COMMENTS: Boring advanced with track-mounted AMS 17-C Sonic drill rig.
Soil sample collected from 31.0-32.0 feet bgs for TCL VOC plus TICs analysis.

<div>URS Corporation</div>										TEST BORING LOG				
										BORING NO. : DEC-015				
PROJECT/PROJECT LOCATION: Meeker Avenue Plume Trackdown										SHEET: 1 OF 2				
CLIENT: New York State Department of Environmental Conservation										JOB NO. : 11176390				
BORING CONTRACTOR: Aquifer Drilling & Testing Inc.										NORTHING:202166.85693 EASTING: 1001855.1305				
GROUNDWATER:36' bgs						CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION: 39.21 feet amsl				
DATE	TIME	LEVEL	TYPE	TYPE		Split Spoon			DATE STARTED: 5/29/07					
				DIA.		2-inch			DATE FINISHED: 5/29/07					
				WT.		140 lbs.			DRILLER: Rudy					
				FALL		30 - inches			GEOLOGIST: Claire Renaldo					
						* POCKET PENETROMETER READING				REVIEWED BY: Scott Fischer				
DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION	USCS	PID	REMARKS				
		NO.	BLOW COUNT	RQD%		CONSISTENCY								
						ROCK HARDNESS								
0							Hand Cleared to 5' bgs.			Vactron cleared boring 0-5.0'				
-5		1	4/5/9/7	25	Dk. Brown	Medium Dense	Silty SAND, trace gravel	SM	0.1	Dry				
		2	11/11/13/14	50	Medium Brown				0.1					
-10		3	7/9/8/10	50					0.1					
		4	10/6/5/5	50			Coarse SAND and GRAVEL	GP	0.3					
		5	3/4/6/9	50			Coarse SAND	SP	0.3					
-15		6	2/7/10/8	75			Coarse SAND and GRAVEL	GP	0.2	Moist				
		7	7/9/10/6	75	Lt. Brown				0.4	Dry				
-20		8	3/4/5/7	100		Loose	Fine SAND, trace silt	SM	0.2					
		9	5/6/6/4	50		Medium Dense	Silty medium SAND, trace gravel		0.9					
		10	6/8/6/4	50			Medium SAND	SP	0.5					
-25		11	8/10/9/12	50			Silty fine SAND	SM	0.2	Moist				
COMMENTS: Boring advanced with track-mounted CME-55 drilling rig equipped with 4.25" hollow stem augers. Sampled for VOCs 27'-28' bgs @ 1520.														
BORING NO. : DEC-015														



TEST BORING LOG

BORING NO. : DEC-015

PROJECT: Meeker Avenue Plume Trackdown

SHEET: 2 OF 2

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 11176390

[illegible]

COMMENTS: Boring advanced with track-mounted CME-55 drilling rig equipped with 4.25" hollow stem augers. Sampled for VOCs 27'-28' bgs @ 1520.

BORING NO. : DEC-015

<div>URS Corporation</div>										TEST BORING LOG				
										BORING NO. : DEC-015D				
PROJECT/PROJECT LOCATION: Former Klink Cosmo Cleaners Site										SHEET: 1 OF 3				
CLIENT: New York State Department of Environmental Conservation										JOB NO. : 11176390.00002				
BORING CONTRACTOR: Aquifer Drilling & Testing Inc.										NORTHING:202171.785 EASTING: 1001853.162				
GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION: 39.31 feet amsl					
DATE	TIME	LEVEL	TYPE	TYPE					DATE STARTED: 5/16/11					
				DIA.					DATE FINISHED: 5/17/11					
				WT.					DRILLER: J. Meyers					
				FALL					GEOLOGIST: C. Friedman					
					* POCKET PENETROMETER READING				REVIEWED BY: T. Burmeier					
DEPTH FEET	STRATA	SAMPLE		REC%		SOIL	MATERIAL			USCS	PID	REMARKS		
		NO.	BLOW COUNT	RQD%	COLOR	CONSISTENCY ROCK HARDNESS	DESCRIPTION							
0							See DEC-015 boring log for lithologic description From 0-35.0 feet bgs.					Vactron cleared 0-5.0' bgs		
-5														
-10														
-15														
-20														
-25														
COMMENTS: Boring advanced with track-mounted AMS 17-C Sonic drill rig.														
BORING NO. :DEC-015D														

<div>URS Corporation</div>							TEST BORING LOG			
PROJECT: Former Klink Cosmo Cleaners Site							BORING NO. : DEC-015D			
CLIENT: New York State Department of Environmental Conservation							SHEET: 2 OF 3			
							JOB NO. :11176390.00002			
DEPTH FEET	STRATA	SAMPLE		REC %	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD %		ROCK HARDNESS				
-30										
-35		1		0			No recovery		NA	
-40									NA	
-45		2		50	Brown		Fine SAND and SILT, some gravel and cobbles	SM	0.0	
-50							-2-inch thick fine to medium sand lens at 43.0' bgs		0.0	
-55		3		80			SILT, trace clay	ML	0.0	
							Fine to coarse SAND and GRAVEL	SW	0.0	
		4		60			Medium to coarse SAND, some gravel and cobbles	SP	0.0	
									0.0	
		5		60			Fine to coarse SAND, some gravel and cobbles	SW	1.1	
									0.4	
									0.0	
COMMENTS: Boring advanced with track-mounted AMS 17-C Sonic drill rig.										
BORING NO. :DEC-015D										



TEST BORING LOG

BORING NO. : DEC-015D

PROJECT: Former Klink Cosmo Cleaners Site

SHEET: 3 OF 3

CLIENT: New York State Department of Environmental Conservation

JOB NO. :11176390.00002

DEPTH FEET	STRATA	SAMPLE		REC %	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD %		ROCK HARDNESS				
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									0.0	
									0.0	
									0.0	
									0.0	
									0.0	
		0.0								
		0.0								
		NA								
		NA								
		NA								
		NA								
	NA									
	NA									
	<div></div>	8		80			Fine to medium SAND, trace gravel		2.0	
									1.4	
									1.7	
									1.0	
									0.0	
									0.0	
		0.0								
		0.0								
		0.0								
		0.0								
0.0										
0.0										
9		30			-trace coarse sand		0.0			
							0.0			
							0.0			
							0.0			
							0.0			
							0.0			
0.0										
0.0										
0.0										
0.0										
0.0										
0.0										
								NA		
								NA		

COMMENTS: Boring advanced with track-mounted AMS 17-C Sonic drill rig.

BORING NO. :DEC-015D

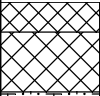
<div>URS Corporation</div>										TEST BORING LOG				
										BORING NO. : DEC-022				
PROJECT/PROJECT LOCATION: Meeker Avenue Plume Trackdown										SHEET: 1 OF 2				
CLIENT: New York State Department of Environmental Conservation										JOB NO. : 11176332 / 11176390				
BORING CONTRACTOR: Aquifer Drilling & Testing Inc.										NORTHING:202681.19037 EASTING: 1002006.1709				
GROUNDWATER:33' bgs						CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION: 51.82 feet amsl				
DATE	TIME	LEVEL	TYPE	TYPE		Split Spoon			DATE STARTED: 5/23/07					
				DIA.		2-inch			DATE FINISHED: 5/23/07					
				WT.		140 lbs.			DRILLER: Tony					
				FALL		30 - inches			GEOLOGIST: Angela Ledgerwood					
				* POCKET PENETROMETER READING				REVIEWED BY: Scott Fischer						
DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION	USCS	PID	REMARKS				
		NO.	BLOW COUNT	RQD%		CONSISTENCY								
						ROCK HARDNESS								
0							Hand Cleared to 5' bgs.			Vactron cleared boring 0-5.0'				
-5		1	3/5/4/6	50	Dk. Brown	Loose	Coarse Sandy-SILT	SM	1.2	Dry				
		2	5/6/9/6	75	Medium Brown		- trace gravel		0.2					
-10		3	9/11/12/14	50		Medium Dense			3.6					
		4	7/7/8/9	50					0.8					
-15		5	4/8/7/10	50	Reddish Brown		Fine Sandy SILT, trace gravel		0.3					
		6	8/9/8/11	50					0.3					
		7	11/7/7/8	75					0.4					
-20		8	6/8/12/9	50	Lt. Brown		Medium to coarse SAND, trace silt	SP	0.2					
		9	5/7/10/9	50			Coarse SAND, trace fine gravel		0.3					
-25		10	8/6/5/6	50					0.4					
		11	8/7/6/7	75	Medium Brown				0.4					
COMMENTS: Boring advanced with track-mounted CME-55 drilling rig equipped with 4.25" hollow stem augers. Sampled for VOCs 31'-33' bgs. Background PID readings up to 0.4 ppm.														
BORING NO. : DEC-022														

URS Corporation							TEST BORING LOG			
							BORING NO. : DEC-022			
PROJECT: Meeker Avenue Plume Trackdown							SHEET: 2 OF 2			
CLIENT: New York State Department of Environmental Conservation							JOB NO. : 11176332 / 11176390			
DEPTH FEET	STRATA	SAMPLE		REC %	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD %		ROCK HARDNESS				
-30		12	7/7/4/6	75			Silty fine SAND	SM	0.4	Moist
		13	5/6/8/9	50					0.4	
		14	8/9/10/10	100					0.6	Wet
-35							End of Boring at 33' bgs			
-40										
-45										
-50										
-55										
COMMENTS: Boring advanced with track-mounted CME-55 drilling rig equipped with 4.25" hollow stem augers. Sampled for VOCs 31'-33' bgs. Background PID readings up to 0.4 ppm.										
BORING NO. : DEC-022										

<div>URS Corporation</div>										TEST BORING LOG				
										BORING NO. : DEC-022D				
PROJECT/PROJECT LOCATION: Meeker Avenue Plume Trackdown										SHEET: 1 OF 3				
CLIENT: New York State Department of Environmental Conservation										JOB NO. : 11176332 / 11176390				
BORING CONTRACTOR: Aquifer Drilling & Testing Inc.										NORTHING:202679.5224 EASTING: 1002000.9725				
GROUNDWATER:Encountered at 48.0' bgs.						CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION: 51.73				
DATE	TIME	LEVEL	TYPE	TYPE	HSA	Split Spoon			DATE STARTED: 11/8/2007					
				DIA.	4.25 "	2-inch			DATE FINISHED: 11/12/2007					
				WT.		140 lbs.			DRILLER: Jeremy Meyers					
				FALL		30 - inches			GEOLOGIST: S. McCabe					
				* POCKET PENETROMETER READING					REVIEWED BY: Tim Burmeier					
DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION			USCS	PID	REMARKS		
		NO.	BLOW COUNT	RQD%		ROCK HARDNESS								
0							See DEC-022 Boring Log for Lithologic Description From 0-30.0 feet bgs					Vactron cleared boring 0-5.0'		
-5														
-10														
-15														
-20														
-25														
COMMENTS: Boring advanced with track-mounted CME-55LC using equipped with 4.25 -inch hollow stem augers.														
BORING NO. : DEC-022D														

<div>URS Corporation</div>							<div>TEST BORING LOG</div>			
PROJECT: Meeker Avenue Plume Trackdown							BORING NO. : DEC-022D			
CLIENT: New York State Department of Environmental Conservation							SHEET: 3 OF 3			
							JOB NO. : 11176332 / 11176390			
DEPTH FEET	STRATA	SAMPLE		REC %	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD %		ROCK HARDNESS				
<div><div>-60</div><div>-65</div><div>-70</div><div>-75</div><div>-80</div><div>-85</div><div>-90</div></div>	<div><div></div><div></div></div>									
							Boring Completed at 62.0' bgs.			
<div>COMMENTS: Boring advanced with track-mounted CME-55LC using equipped with 4.25 -inch hollow stem augers.</div>										
<div>BORING NO. : DEC-022D</div>										

<div> <div>URS Corporation</div> <div> <div>PROJECT: Meeker Avenue Plume Trackdown</div> <div>CLIENT: New York State Department of Environmental Conservation</div> </div> </div>							TEST BORING LOG															
							BORING NO. : DEC-027															
							SHEET: 2 OF 2															
							JOB NO. : 11176332															
DEPTH FEET	STRATA	SAMPLE		REC %	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS												
		NO.	BLOW COUNT	RQD %		ROCK HARDNESS																
<div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> </div>		10	18/22/26/ 50/5	63						0	Auger refusal at 26.0', switch to mud rotary											
	-30		11	16/32/25/ 50/5		58	Dense Medium Dense	Fine to medium SAND, trace gravel				0	Wet									
	-35		12	16/17/12/19		38											0					
	-40		13	16/10/22/24		83							0									
-45		14	22/16/18/19	71									0									
-50		15	5/10/13/9	29									0									
-55		16	5/5/7/9	67									0									
								Boring Completed at 50.0' bgs.														
<div> <div>COMMENTS: Boring advanced with track-mounted CME-55LC using equipped with 4.25 -inch hollow stem augers.</div> <div>Sampled for VOCs 37.0-38.0' bgs.</div> </div>																						
BORING NO. : DEC-027																						

<div>URS Corporation</div>										TEST BORING LOG				
										BORING NO. : DEC-028				
PROJECT/PROJECT LOCATION: Meeker Avenue Plume Trackdown										SHEET: 1 OF 2				
CLIENT: New York State Department of Environmental Conservation										JOB NO. : 11176332 / 11176390				
BORING CONTRACTOR: Aquifer Drilling & Testing Inc.										NORTHING:202252.5697 EASTING: 1001700.9689				
GROUNDWATER:Encountered at 37.6 ' bgs					CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION: 39.99					
DATE	TIME	LEVEL	TYPE	TYPE	HSA	Split Spoon			DATE STARTED: 11/15/2007					
				DIA.	4.25 "	2-inch			DATE FINISHED: 11/20/2007					
				WT.		140 lbs.			DRILLER: Jeremy Meyers					
				FALL		30 - inches			GEOLOGIST: S. McCabe					
					* POCKET PENETROMETER READING				REVIEWED BY: Tim Burmeier					
DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION			USCS	PID	REMARKS		
		NO.	BLOW COUNT	RQD%		ROCK HARDNESS								
0					Reddish Brown		Concrete					Vactron cleared boring 0-5.0'		
								FILL: Medium to coarse SAND, trace cobbles and gravel						
								Silty SAND, trace gravel						
-5			1	6/11/9/14	54	Light Brown	Medium Dense			SM	0	Moist		
			2	17/12/12/15	71			Fine to medium SAND, trace silt and gravel		SP	32	Auger through boulder 10- 12'		
-10			3	50/3	13		Very Dense				0			
			4	29/18/21/20	25		Dense				0			
-15			5	4/7/8/8	83		Medium Dense				0			
			6	9/9/10/9	75						11.1			
		7	11/11/13/13	83						14.5				
-20		8	4/4/6/8	67						45				
		9	12/13/13/16	58						35				
-25		10	13/19/19/20	63	Dense				33					
COMMENTS: Boring advanced with track-mounted CME-55LC using equipped with 4.25 -inch hollow stem augers. Sampled for VOCs 36.0-38.0' bgs.														
BORING NO. : DEC-028														



TEST BORING LOG

BORING NO. : DEC-028

PROJECT: Meeker Avenue Plume Trackdown

SHEET: 2 OF 2

CLIENT: New York State Department of Environmental Conservation

JOB NO.: 11176332 / 11176390

DEPTH FEET	STRATA	SAMPLE		REC %	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD %		ROCK HARDNESS				
<div><div></div><div>-30</div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></di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COMMENTS: Boring advanced with track-mounted CME-55LC using equipped with 4.25 -inch hollow stem augers. Sampled for VOCs 36.0-38.0' bgs.

BORING NO. : DEC-028

PROJECT/PROJECT LOCATION: Meeker Avenue Plume Trackdown

SHEET: 1 OF 2

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 11176390

BORING CONTRACTOR: Aquifer Drilling & Testing Inc.

NORTHING: 202086.5293 EASTING: 1002015.6302

GROUNDWATER: Encountered at 37.0' bgs.

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 38.90

DATE TIME LEVEL TYPE TYPE

HSA

Split Spoon

DATE STARTED: 11/26/2007

DIA. 4.25 "

2-inch

DATE FINISHED: 11/27/2007

WT. 140 lbs.

DRILLER: Jeremy Meyers

FALL 30 - inches

GEOLOGIST: S. McCabe

* POCKET PENETROMETER READING

REVIEWED BY: Tim burmeier

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD%		ROCK HARDNESS				

0					Dark Brown		FILL: Fine to coarse SAND and GRAVLE, trace asphalt			Vactron cleared boring 0-0.5'
					Yellow Brown		Silty SAND, trace gravel	SM		
-5		1	3/6/8/17	71		Medium Dense			0	Moist
		2	23/23/13/18	88	Brown	Dense			0	
-10		3	5/9/11/10	83		Medium Dense			0	
		4	6/7/8/9	88			Fine to medium SAND, trace gravel	SP	0	
-15		5	11/11/11/14	54		Hard	Clayey SILT, trace sand and gravel	ML	0	
		6	7/15/16/18	100					0	
-20		7	17/24/43/72	92					0	
		8	13/21/21/31	54		Dense	Fine to coarse SAND, trace silt, gravel, and cobbles	SW	0	
-25		9	15/41/ 50/4	63		Very Dense			0	

COMMENTS: Boring advanced with track-mounted CME-55LC using equipped with 4.25 -inch hollow stem augers. Sampled for VOCs 33.0-35.0' bgs.

URS Corporation						TEST BORING LOG					
						BORING NO. : DEC-029					
PROJECT: Meeker Avenue Plume Trackdown						SHEET: 2 OF 2					
CLIENT: New York State Department of Environmental Conservation						JOB NO. : 11176390					
DEPTH FEET	STRATA	SAMPLE		REC %	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS	
		NO.	BLOW COUNT	RQD %		ROCK HARDNESS					
-30		10	12/11/15/ 50/5	54					0	Auger refusal at 27.0' bgs, switch to mud rotary Wet	
		11	8/16/24/20	63							0
		12	48/ 50/1	29							0
-35		13	18/33/56/33	67							0
		14	65/42/36/39	58		Dense					0
		15	6/21/11/14	46		Medium Dense					0
-40		16	11/14/9/10	29							0
		17	9/10/14/15	100							0
		18	5/11/11/18	75		Very Dense					0
-45		19	13/17/36/26	92							0
-50											
-55						Boring Completed at 51.0' bgs.					
COMMENTS: Boring advanced with track-mounted CME-55LC using equipped with 4.25 -inch hollow stem augers. Sampled for VOCs 33.0-35.0' bgs.											
BORING NO. : DEC-029											

<div>URS Corporation</div>										TEST BORING LOG				
										BORING NO. : DEC-029D				
PROJECT/PROJECT LOCATION: Former Klink Cosmo Cleaners Site										SHEET: 1 OF 3				
CLIENT: New York State Department of Environmental Conservation										JOB NO. : 11176390.00002				
BORING CONTRACTOR: Aquifer Drilling & Testing Inc.										NORTHING:202087.488 EASTING: 1002022.985				
GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION: 38.85 feet amsl					
DATE	TIME	LEVEL	TYPE	TYPE					DATE STARTED: 5/10/11					
				DIA.					DATE FINISHED: 5/11/11					
				WT.					DRILLER: J. Meyers					
				FALL					GEOLOGIST: C. Friedman					
					* POCKET PENETROMETER READING				REVIEWED BY: T. Burmeier					
DEPTH FEET	STRATA	SAMPLE		REC%		SOIL	MATERIAL			USCS	PID	REMARKS		
		NO.	BLOW COUNT	RQD%	COLOR	CONSISTENCY ROCK HARDNESS	DESCRIPTION							
0							See DEC-029 boring log for lithologic description from 0-40.0 feet bgs.					Vactron cleared 0-5.0' bgs		
-5														
-10														
-15														
-20														
-25														
COMMENTS: Boring advanced with track-mounted AMS 17-C Sonic drill rig. Soil sample collected 75.0 - 76.0 and 84.0 - 84.5 feet bgs for geotechnical analysis.														
BORING NO. :DEC-029D														



TEST BORING LOG

BORING NO. : DEC-029D

PROJECT: Former Klink Cosmo Cleaners Site

SHEET: 2 OF 3

CLIENT: New York State Department of Environmental Conservation

JOB NO. :11176390.00002

[illegible]

COMMENTS: Boring advanced with track-mounted AMS 17-C Sonic drill rig.
Soil sample collected 75.0 - 76.0 and 84.0 - 84.5 feet bgs for geotechnical analysis.

BORING NO. :DEC-029D

PROJECT: Former Klink Cosmo Cleaners Site

SHEET: 3 OF 3

CLIENT: New York State Department of Environmental Conservation

JOB NO. :11176390.00002

DEPTH FEET	STRATA	SAMPLE		REC %	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD %		ROCK HARDNESS				
-60									0.0	
									0.0	
							Coarse SAND and GRAVEL, trace cobbles	SP	1.2	
									3.0	
		4		60			Fine to medium SAND, little gravel and coarse sand		1.3	
									0.0	
-65							-trace cobbles		0.0	
									0.0	
		5		80					0.0	
							Fine SAND some silt, trace gravel		0.0	
									0.0	
-70							Fine to coarse SAND, little gravel and cobbles	SW	0.0	
		6		40					0.6	
									0.0	
									0.0	
-75							Fine to medium SAND, trace to some coarse sand and gravel		2.4	
		7		70					1.2	
									1.0	
									0.8	
-80									0.0	
									1.0	
									0.0	
		8		87			GRAVEL, little fine sand and silt	GW	0.0	
							Silty CLAY	CL	0.0	
							Fine SAND and SILT	SM	0.0	
-85							Boring Completed at 85.0' bgs.			
-90										

COMMENTS: Boring advanced with track-mounted AMS 17-C Sonic drill rig.
Soil sample collected 75.0 - 76.0 and 84.0 - 84.5 feet bgs for geotechnical analysis.

PROJECT/PROJECT LOCATION: Meeker Avenue Plume Trackdown

SHEET: 1 OF 2

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 11176390

BORING CONTRACTOR: Aquifer Drilling & Testing Inc.

NORTHING: 202008.3851 EASTING: 1001817.1012

GROUNDWATER: Encountered at 34.5' bgs.

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 37.43

DATE

TIME

LEVEL

TYPE

TYPE

HSA

Split Spoon

DATE STARTED: 11/19/2007

DIA.

4.25 "

2-inch

DATE FINISHED: 11/20/2007

WT.

140 lbs.

DRILLER: Jeremy Meyers

FALL

30 - inches

GEOLOGIST: A. Ledgerwood

REVIEWED BY: Tim Burmeier

DEPTH
FEET

STRATA

SAMPLE

NO.

BLOW
COUNT

REC%

RQD%

COLOR

SOIL
CONSISTENCY

ROCK
HARDNESS

MATERIAL
DESCRIPTION

USCS

PID

REMARKS

0

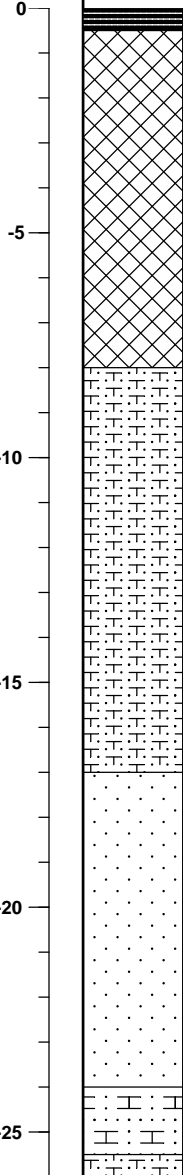
-5

-10

-15

-20

-25



Light
Brown

Asphalt

FILL: CLAY, trace brick fragmants

Vactron
cleared
boring 0-5.0'

Stiff

Moist

Dense

Silty SAND, trace gravel and cobbles

SM

Loose

Fine to medium SAND

SP

Medium
Dense

Loose

Wet, perched
water

Brown

Reddish
Brown

Hard

Clayey SILT

ML

Medium

SM

Moist

COMMENTS: Boring advanced with track-mounted CME-55LC using equipped with 4.25 -inch hollow stem augers.

Sampled for VOCs 33.0-33.0' bgs.

URS *Corporation*

PROJECT/PROJECT LOCATION: Former Klink Cosmo Cleaners Site

SHEET: 1 OF 3

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 11176390.00002

BORING CONTRACTOR: Aquifer Drilling & Testing Inc.

NORTHING: 201995.054 EASTING: 1001821.776

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 37.2 feet amsl

DATE

TIME

LEVEL

TYPE

TYPE

DATE STARTED: 5/11/11

DIA.

DATE FINISHED: 5/16/11

WT.

DRILLER: J. Meyers

FALL

GEOLOGIST: M. Dascoli

REVIEWED BY: T. Burmeier

DEPTH
FEET

STRATA

SAMPLE

NO.

BLOW
COUNT

REC%

RQD%

COLOR

SOIL
CONSISTENCY

ROCK
HARDNESS

MATERIAL
DESCRIPTION

USCS

PID

REMARKS

0

-5

-10

-15

-20

-25

See DEC-030 boring log for lithologic description From 0-45.0 feet bgs.

Vactron
cleared 0-5.0'
bgs

COMMENTS: Boring advanced with track-mounted AMS 17-C Sonic drill rig.

BORING NO. :DEC-030D

<div>URS Corporation</div>							TEST BORING LOG			
PROJECT: Former Klink Cosmo Cleaners Site							BORING NO. : DEC-030D			
CLIENT: New York State Department of Environmental Conservation							SHEET: 2 OF 3			
							JOB NO. :11176390.00002			
DEPTH FEET	STRATA	SAMPLE		REC %	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD %		ROCK HARDNESS				
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									0.0	
									0.0	
									0.0	
									0.0	
		2		8	Grey			0.0		
								0.0		
								0.0		
								0.0		
								0.0		
		3		0			-no recovery	0.0		
								NA		
								NA		
								NA		
								NA		

COMMENTS: Boring advanced with track-mounted AMS 17-C Sonic drill rig.

BORING NO. :DEC-030D



TEST BORING LOG

BORING NO. : DEC-030D

PROJECT: Former Klink Cosmo Cleaners Site

SHEET: 3 OF 3

CLIENT: New York State Department of Environmental Conservation

JOB NO. :11176390.00002

[illegible]

COMMENTS: Boring advanced with track-mounted AMS 17-C Sonic drill rig.

BORING NO. :DEC-030D

PROJECT/PROJECT LOCATION: Meeker Avenue Plume Trackdown

SHEET: 1 OF 2

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 11176390

BORING CONTRACTOR: Aquifer Drilling & Testing Inc.

NORTHING: 201767.5110 EASTING: 1001889.4718

GROUNDWATER: Encountered at 34.0' bgs.

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 34.94

DATE

TIME

LEVEL

TYPE

TYPE

HSA

Split Spoon

DATE STARTED: 11/20/2007

DIA.

4.25 "

2-inch

DATE FINISHED: 11/21/2007

WT.

140 lbs.

DRILLER: Jeremy Meyers

FALL

30 - inches

GEOLOGIST: A. Ledgerwood

* POCKET PENETROMETER READING

REVIEWED BY: Tim Burmeier

DEPTH
FEET

STRATA

SAMPLE
NO.

BLOW
COUNT

REC%
RQD%

COLOR

SOIL
CONSISTENCY
ROCK
HARDNESS

MATERIAL
DESCRIPTION

USCS

PID

REMARKS

0

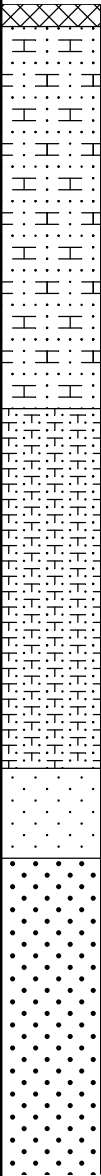
-5

-10

-15

-20

-25



Light
Brown

Concrete

Clayey SILT

ML

Vactron
cleared
boring 0-5.0'

Soft

Moist

1

1/2/2/3

80

16

2

1/2/2/2

60

32.2

3

5/11/15/16

40

15.6

4

20/11/12/14

70

27

5

15/15/12/10

90

24.2

6

4/6/10/5

40

93.3

7

2/7/14/16

30

53.2

Sweet solvent
like odor from
sample

8

14/16/18/18

60

53.9

9

6/12/14/16

40

145

Brown

Very Dense

10

15/30/29/23

50

111

Auger
through

COMMENTS: Boring advanced with track-mounted CME-55LC using equipped with 4.25 -inch hollow stem augers.
Sampled for VOCs 29.0-30.0' and 33.0-34.0' bgs.



TEST BORING LOG

BORING NO. : DEC-031

PROJECT: Meeker Avenue Plume Trackdown

SHEET: 2 OF 2

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 11176390

DEPTH FEET	STRATA	SAMPLE		REC %	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD %		ROCK HARDNESS				
<div>-30-</div> <div>-35-</div> <div>-40-</div> <div>-45-</div> <div>-50-</div> <div>-55-</div>		11	60/ 60/5	0	Light Brown	Medium Dense			NA	cobbles 25.0- 28.0'

COMMENTS: Boring advanced with track-mounted CME-55LC using equipped with 4.25 -inch hollow stem augers. Sampled for VOCs 29.0-30.0' and 33.0-34.0' bgs.

BORING NO. : DEC-031

<div>URS Corporation</div>										TEST BORING LOG				
										BORING NO. : DEC-031D				
PROJECT/PROJECT LOCATION: Meeker Avenue Plume Trackdown										SHEET: 1 OF 3				
CLIENT: New York State Department of Environmental Conservation										JOB NO. : 11176390				
BORING CONTRACTOR: Aquifer Drilling & Testing Inc.										NORTHING:201769.077 EASTING: 1001894.982				
GROUNDWATER:Encountered at 45.0'						CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION: 34.70				
DATE	TIME	LEVEL	TYPE	TYPE	Casing	Split Spoon			DATE STARTED: 6/17/08					
				DIA.	4 "	2-inch			DATE FINISHED: 6/18/08					
				WT.		140 lbs.			DRILLER: Shawn Miller					
				FALL		30 - inches			GEOLOGIST: S. McCabe					
				* POCKET PENETROMETER READING					REVIEWED BY: Tim Burmeier					
DEPTH FEET	STRATA	SAMPLE		REC%		SOIL	MATERIAL			USCS	PID	REMARKS		
		NO.	BLOW COUNT	RQD%	COLOR	CONSISTENCY ROCK HARDNESS	DESCRIPTION							
0							See DEC-031 Boring Log for Lithologic Description From 0-45.0 feet bgs					Vactron cleared boring 0-5.0'		
-5														
-10														
-15														
-20														
-25														
COMMENTS: Boring advanced with truck-mounted CME-85 using 4-inch mud-rotary drilling.														
BORING NO. : DEC-031D														



TEST BORING LOG

BORING NO. : DEC-031D

PROJECT: Meeker Avenue Plume Trackdown

SHEET: 2 OF 3

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 11176390

DEPTH FEET	STRATA	SAMPLE		REC %	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD %		ROCK HARDNESS				
<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><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COMMENTS: Boring advanced with truck-mounted CME-85 using 4-inch mud-rotary drilling.

BORING NO. : DEC-031D

<div> <div>URS Corporation</div> <div> <div>PROJECT: Meeker Avenue Plume Trackdown</div> <div>CLIENT: New York State Department of Environmental Conservation</div> </div> </div>							TEST BORING LOG			
							BORING NO. : DEC-031D			
							SHEET: 3 OF 3			
							JOB NO. : 11176390			
DEPTH FEET	STRATA	SAMPLE		REC %	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD %		ROCK HARDNESS				
<div> <div>-60</div> <div>-65</div> <div>-70</div> <div>-75</div> <div>-80</div> </div>		7	5/9/12/13	55	<div> <div>Dense</div> <div>Reddish Brown</div> <div>Gray Brown</div> </div>					0.4
		8	10/14/13/16	75						0.2
		9	11/10/10/12	40						0.3
		10	11/12/15/17	65						0.2
		11	18/18/21/26	75						0.4
		12	21/24/22/34	75						0.4
		13	18/19/19/24	65						0.5
		14	13/19/24/20	75						0.6
		15	21/17/19/16	100						0.7
		16	10/13/17/17	50						0.7
		17	15/18/18/24	75						0.7
		18	10/15/20/23	75						0.3
<div> <div>-85</div> </div>							Boring Completed at 81.0' bgs.			
<div> <div>COMMENTS: Boring advanced with truck-mounted CME-85 using 4-inch mud-rotary drilling.</div> <div></div> <div></div> </div>										
BORING NO. : DEC-031D										

PROJECT/PROJECT LOCATION: Meeker Avenue Plume Trackdown

SHEET: 1 OF 2

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 11176390

BORING CONTRACTOR: Aquifer Drilling & Testing Inc.

NORTHING: 201579.2496 EASTING: 1001969.0590

GROUNDWATER: Encountered at 35.0' bgs.

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 28.30

DATE TIME LEVEL TYPE TYPE

HSA

Split Spoon

DATE STARTED: 11/27/2007

DIA. 4.25 "

2-inch

DATE FINISHED: 11/29/2007

WT. 140 lbs.

DRILLER: Jeremy Meyers

FALL 30 - inches

GEOLOGIST: S. McCabe

* POCKET PENETROMETER READING

REVIEWED BY: Tim Burmeier

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD%		ROCK HARDNESS				

0					Brown		Concrete			Vactron cleared boring 0-5.0'
							FILL: Silty fine SAND, trace asphalt, glass and slag			
-5		1	1/3/2/2	50		Loose			0	Moist
		2	1/3/4/4	90			Silty fine SAND, some cobbles	SM	3.1	
-10		3	2/15/ 50/3	58		Very Dense			1.9	
		4	15/26/26/111	58			Fine to coarse SAND, some gravel and cobbles	SW	0	Auger through cobbles 11.0- 14.0'
-15		5	49/97/ 50/5	75					0	Switch to mud rotary drilling
-20										
		6	5/4/3/4	60		Loose	Fine to medium SAND, trace silt and gravel	SP	0	
-25						Medium Dense				

COMMENTS: Boring advanced with track-mounted CME-55LC using equipped with 4.25 -inch hollow stem augers.
Sampled for VOCs 29.0-30.0' and 33.0-34.0' bgs.

URS Corporation							TEST BORING LOG			
							BORING NO. : DEC-032			
PROJECT: Meeker Avenue Plume Trackdown							SHEET: 2 OF 2			
CLIENT: New York State Department of Environmental Conservation							JOB NO. : 11176390			
DEPTH FEET	STRATA	SAMPLE		REC %	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD %		ROCK HARDNESS				
-30	[Patterned Strata Column]	7	4/10/15/16	50			Silty SAND, trace gravel	SM	0	Wet
		8	5/16/16/18	0		Dense				
		9	11/9/7/9	50		Medium Dense				
		10	11/12/13/24	50			Fine to coarse SAND, trace silt and gravel	SW	0	
		11	14/16/17/20	75					0	
-35		12	24/22/12/14	50		Dense			0	
		13	16/15/19/17	75					0	
-40		14	11/19/18/16	90					0	
-45							Boring Completed at 45.0' bgs.			
-50										
-55										
COMMENTS: Boring advanced with track-mounted CME-55LC using equipped with 4.25 -inch hollow stem augers. Sampled for VOCs 29.0-30.0' and 33.0-34.0' bgs.										
BORING NO. : DEC-032										

PROJECT/PROJECT LOCATION: Meeker Avenue Plume Trackdown

SHEET: 1 OF 2

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 11176332 / 11176390

BORING CONTRACTOR: Aquifer Drilling & Testing Inc.

NORTHING: 201498.3729 EASTING: 1001515.1546

GROUNDWATER: Encountered at 34.0' bgs.

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 36.67

DATE

TIME

LEVEL

TYPE

TYPE

HSA

Split Spoon

DATE STARTED: 11/29/2007

DIA.

4.25 "

2-inch

DATE FINISHED: 12/3/2007

WT.

140 lbs.

DRILLER: Jeremy Meyers

FALL

30 - inches

GEOLOGIST: S. McCabe

REVIEWED BY: Tim Burmeier

DEPTH
FEET

STRATA

SAMPLE
NO.

BLOW
COUNT

REC%
RQD%

COLOR

SOIL
CONSISTENCY
ROCK
HARDNESS

MATERIAL
DESCRIPTION

USCS

PID

REMARKS

0

-5

-10

-15

-20

-25

Vactron
cleared
boring 0-5.0'

Moist

COMMENTS: Boring advanced with track-mounted CME-55LC using equipped with 4.25 -inch hollow stem augers.
Sampled for VOCs 33.0-34.0' bgs.



TEST BORING LOG

BORING NO. : DEC-033

PROJECT: Meeker Avenue Plume Trackdown

SHEET: 2 OF 2

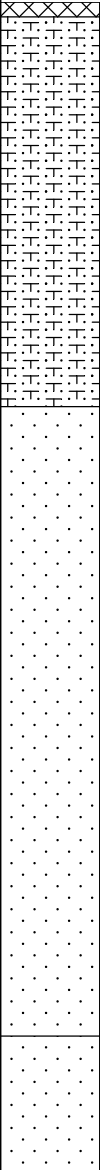
CLIENT: New York State Department of Environmental Conservation

JOB NO.: 11176332 / 11176390

DEPTH FEET	STRATA	SAMPLE		REC %	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD %		ROCK HARDNESS				
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COMMENTS: Boring advanced with track-mounted CME-55LC using equipped with 4.25 -inch hollow stem augers. Sampled for VOCs 33.0-34.0' bgs.

BORING NO. : DEC-033

<div>URS Corporation</div>										TEST BORING LOG				
										BORING NO. : DEC-039				
PROJECT/PROJECT LOCATION: Meeker Avenue Plume Trackdown										SHEET: 1 OF 2				
CLIENT: New York State Department of Environmental Conservation										JOB NO. : 11176332				
BORING CONTRACTOR: Aquifer Drilling & Testing Inc.										NORTHING:202601.4224 EASTING: 1001779.649				
GROUNDWATER:Encountered at 42.0' bgs.						CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION: 45.02				
DATE	TIME	LEVEL	TYPE	TYPE	HSA	Split Spoon			DATE STARTED: 5/19/08					
				DIA.	4.25 "	2-inch			DATE FINISHED: 5/20/08					
				WT.		140 lbs.			DRILLER: Jeremy Meyers					
				FALL		30 - inches			GEOLOGIST: S. McCabe					
				* POCKET PENETROMETER READING					REVIEWED BY: Tim Burmeier					
DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION			USCS	PID	REMARKS		
		NO.	BLOW COUNT	RQD%		CONSISTENCY							ROCK HARDNESS	
0							Concrete	SM			Vactron cleared boring 0-5.0'			
							Silty SAND, trace gravel							
-5		1	6/13/8/22	80	Brown	Medium Dense				0.0	Moist			
		2	27/23/20/13	25		Dense				0.0				
-10		3	3/9/9/8	75	Light Brown	Medium Dense	Fine to coarse SAND, trace gravel	SW		0.0				
		4	12/14/14/18	75						0.0				
-15		5	15/21/27/20	100		Dense				0.5				
		6	8/12/12/12	75		Medium Dense				0.3				
		7	9/13/13/17	75						0.2				
-20		8	8/17/19/30	75		Dense				0.0				
	9	9/21/20/24	75						0.0					
-25	10	6/12/14/16	75		Medium Dense	Fine to medium SAND, trace gravel	SP		0.0					
COMMENTS: Boring advanced with track-mounted CME-55LC using 4.25 -inch hollow stem augers. Soil sample collected for TCL VOCs plus TICs 41.0-42.0' bgs.														
BORING NO. : DEC-039														

<div>URS Corporation</div>										TEST BORING LOG				
										BORING NO. : DEC-042				
PROJECT/PROJECT LOCATION: Meeker Avenue Plume Trackdown										SHEET: 1 OF 2				
CLIENT: New York State Department of Environmental Conservation										JOB NO. : 11176332 / 11176390				
BORING CONTRACTOR: Aquifer Drilling & Testing Inc.										NORTHING:202512.9723 EASTING: 1001729.524				
GROUNDWATER:Encountered at 39.0' bgs.					CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION: 42.10					
DATE	TIME	LEVEL	TYPE	TYPE	HSA	Split Spoon			DATE STARTED: 5/15/08					
				DIA.	4.25"	2-inch			DATE FINISHED: 5/19/08					
				WT.		140 lbs.			DRILLER: Jeremy Meyers					
				FALL		30 - inches			GEOLOGIST: S. McCabe					
					* POCKET PENETROMETER READING				REVIEWED BY: Tim Burmeier					
DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION			USCS	PID	REMARKS		
		NO.	BLOW COUNT	RQD%		ROCK HARDNESS								
0					Brown		Concrete					Vactron cleared boring 0-5.0'		
							FILL: Silty fine sand, trace gravel, wood, slag, and cinders							
-5						Very Loose					0.3	Moist		
		1	1/1/1/2	25										
		2	2/2/4/3	25								0.2		
-10							Medium Dense							
		3	3/10/13/15	50	Yellow Brown		Silty fine SAND, trace gravel	SM			1.0			
		4	13/47/41/32	25		Very Dense						1.1		
-15							Dense	Fine to coarse SAND, trace gravel	SW			1.3		
		5	21/18/24/28	50								0.3		
-20						Medium Dense					1.4			
	6	12/22/21/17	75								1.3			
	7	12/12/11/13	100	Light Brown							0.1			
-25						Very Dense					0.6			
	8	5/10/10/10	75											
	9	14/15/15/16	75											
	10	21/32/25/26	75			Medium Dense								
COMMENTS: Boring advanced with track-mounted CME-55 LC using 4.25-inch hollow stem augers.														
BORING NO. : DEC-042														



TEST BORING LOG

BORING NO. : DEC-042

PROJECT: Meeker Avenue Plume Trackdown

SHEET: 2 OF 2

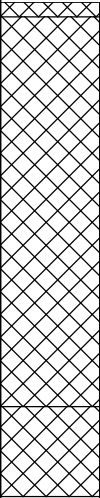
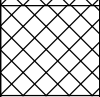
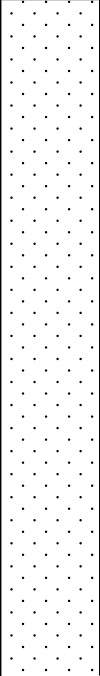
CLIENT: New York State Department of Environmental Conservation

JOB NO.: 11176332 / 11176390

DEPTH FEET	STRATA	SAMPLE		REC %	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD %		ROCK HARDNESS				
-30 <										

COMMENTS: Boring advanced with track-mounted CME-55 LC using 4.25-inch hollow stem augers.

BORING NO. : DEC-042

<div>URS Corporation</div>										TEST BORING LOG				
										BORING NO. : DEC-043				
PROJECT/PROJECT LOCATION: Meeker Avenue Plume Trackdown										SHEET: 1 OF 2				
CLIENT: New York State Department of Environmental Conservation										JOB NO. : 11176390				
BORING CONTRACTOR: Aquifer Drilling & Testing Inc.										NORTHING:202181.314 EASTING: 1002285.359				
GROUNDWATER:Encountered at 35.0' bgs.						CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION: 37.67				
DATE	TIME	LEVEL	TYPE	TYPE	Casing	Split Spoon			DATE STARTED: 5/27/08					
				DIA.	4"	2-inch			DATE FINISHED: 6/4/08					
				WT.		140 lbs.			DRILLER: Jeremy Meyers					
				FALL		30 - inches			GEOLOGIST: C. Friedman					
				* POCKET PENETROMETER READING					REVIEWED BY: Tim Burmeier					
DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION	USCS	PID	REMARKS				
		NO.	BLOW COUNT	RQD%		CONSISTENCY								
						ROCK HARDNESS								
0					Brown		Concrete			Vactron cleared boring 0-5.0'				
-5						Very Loose	FILL: Silty fine sand, trace slag, and cinders			Moist				
		1	4/2/4/8	25					0.4					
		2	4/5/17/19	25		Medium Dense			0.3					
-10		3	5/8/10/9	50	Reddish Brown	Very Stiff	FILL: Clayey silt and sand, some gravel and slag		0.3					
		4	12/14/26/27	25	Brown	Dense	Fine to medium SAND, trace gravel	SP	0.4					
		5	11/23/14/13	50					0.3					
-15		6	50/5	75		Very Dense			0.7					
-20		7	19/29/26/14	75					0.0					
		8	14/16/13/16	75		Medium Dense			0.0					
		9	18/12/20/21	75		Dense			0.0					
-25														
COMMENTS: Boring advanced with track-mounted CME-55 LC using 4-inch mud rotary drilling.														
BORING NO. : DEC-043														



TEST BORING LOG

BORING NO. : DEC-043

PROJECT: Meeker Avenue Plume Trackdown

SHEET: 2 OF 2

CLIENT: New York State Department of Environmental Conservation

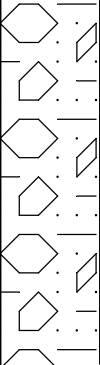
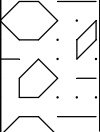
JOB NO. : 11176390

DEPTH FEET	STRATA	SAMPLE		REC %	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD %		ROCK HARDNESS				
-30 										

COMMENTS: Boring advanced with track-mounted CME-55 LC using 4-inch mud rotary drilling.

BORING NO. : DEC-043

<div>URS Corporation</div>										TEST BORING LOG				
										BORING NO. : DEC-043D				
PROJECT/PROJECT LOCATION: Former Klink Cosmo Cleaners Site										SHEET: 1 OF 3				
CLIENT: New York State Department of Environmental Conservation										JOB NO. : 11176390.00002				
BORING CONTRACTOR: Aquifer Drilling & Testing Inc.										NORTHING:202181.307 EASTING: 1002285.318				
GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION: 37.72 feet amsl					
DATE	TIME	LEVEL	TYPE	TYPE					DATE STARTED: 5/11/11					
				DIA.					DATE FINISHED: 5/11/11					
				WT.					DRILLER: J. Meyers					
				FALL					GEOLOGIST: C. Friedman					
					* POCKET PENETROMETER READING				REVIEWED BY: T. Burmeier					
DEPTH FEET	STRATA	SAMPLE		REC%		SOIL	MATERIAL			USCS	PID	REMARKS		
		NO.	BLOW COUNT	RQD%	COLOR	CONSISTENCY ROCK HARDNESS	DESCRIPTION							
0							See DEC-043 boring log for lithologic description for 0-50.0 feet bgs.					Vactron cleared 0-5.0' bgs		
-5														
-10														
-15														
-20														
-25														
COMMENTS: Boring advanced with track-mounted AMS 17-C Sonic drill rig. Soil sample collected 80.0 - 81.0 feet bgs for geotechnical analysis.														
BORING NO. :DEC-043D														

URS Corporation							TEST BORING LOG			
							BORING NO. : DEC-043D			
PROJECT: Former Klink Cosmo Cleaners Site							SHEET: 2 OF 3			
CLIENT: New York State Department of Environmental Conservation							JOB NO. :11176390.00002			
DEPTH FEET	STRATA	SAMPLE		REC %	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD %		ROCK HARDNESS				
-30										
-35										
-40										
-45										
-50		1		30	Grey, White, Brown, Black		GRAVEL and COBBLES, little fine sand and silt	GW	0.0	Wet
0.0										
0.0										
0.0										
0.0										
-55										
		2		0			-no recovery		NA	
NA										
NA										
NA										
NA										
<div>COMMENTS: Boring advanced with track-mounted AMS 17-C Sonic drill rig. Soil sample collected 80.0 - 81.0 feet bgs for geotechnical analysis.</div>										
BORING NO. :DEC-043D										

PROJECT: Former Klink Cosmo Cleaners Site

SHEET: 3 OF 3

CLIENT: New York State Department of Environmental Conservation

JOB NO. :11176390.00002

DEPTH FEET	STRATA	SAMPLE		REC %	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD %		ROCK HARDNESS				
-60 <										

COMMENTS: Boring advanced with track-mounted AMS 17-C Sonic drill rig.
Soil sample collected 80.0 - 81.0 feet bgs for geotechnical analysis.

PROJECT/PROJECT LOCATION: Meeker Avenue Plume Trackdown

SHEET: 1 OF 2

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 11176390

BORING CONTRACTOR: Aquifer Drilling & Testing Inc.

NORTHING:201738.4087 EASTING: 1001809.57

GROUNDWATER:Encountered at 34.0' bgs.

CAS. SAMPLER CORE TUBE

GROUND ELEVATION: 37.15

DATE	TIME	LEVEL	TYPE	TYPE	Casing	Split Spoon	CORE	TUBE
				DIA.	4"	2-inch		
				WT.		140 lbs.		
				FALL		30 - inches		

DATE STARTED: 6/18/08
 DATE FINISHED: 6/20/08
 DRILLER: Jeremy Meyers
 GEOLOGIST: C. Friedman

* POCKET PENETROMETER READING

REVIEWED BY: Tim Burmeier

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD%		ROCK HARDNESS				

0					Brown		Concrete	ML		Vactron cleared boring 0-5.0'
							SILT and CLAY, trace gravel			
-5		1	5/9/16/12	100		Very Stiff			1.0	Moist
		2	16/22/18/26	25		Dense	Fine SAND and SILT	SP	1.3	
-10		3	18/26/32/25	50		Very Dense	Fine SAND, trace gravel		4.2	
		4	18/32 50/4	50					4.3	
-15		5	25/28/33/49	50			Medium SAND, trace to some gravel		2.7	Boulder 13-14'
		6	32/38	75					10.1	
-20		7	11/14/23/35	50		Dense			4.5	
		8	33/25/22/30	75					6.3	
									33.7	
-25		9	19/17/16/17	75					6.2	

COMMENTS: Boring advanced with track-mounted CME-55 LC using 4-inch mud rotary drilling.



TEST BORING LOG

BORING NO. : DEC-044

PROJECT: Meeker Avenue Plume Trackdown

SHEET: 2 OF 2

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 11176390

DEPTH FEET	STRATA	SAMPLE		REC %	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD %		ROCK HARDNESS				
-30 <										

COMMENTS: Boring advanced with track-mounted CME-55 LC using 4-inch mud rotary drilling.

BORING NO. : DEC-044

PROJECT/PROJECT LOCATION: Former Klink Cosmo Cleaners Site

SHEET: 1 OF 3

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 11176390.00002

BORING CONTRACTOR: Aquifer Drilling & Testing Inc.

NORTHING:201741.332 EASTING: 1001817.671

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 37.02 feet amsl

DATE TIME LEVEL TYPE TYPE

DATE STARTED: 5/27/11

DIA.

DATE FINISHED: 6/2/11

WT.

DRILLER: J. Meyers

FALL

GEOLOGIST: C. Friedman

* POCKET PENETROMETER READING

REVIEWED BY: T. Burmeier

DEPTH
FEET

STRATA

SAMPLE

NO.

BLOW
COUNT

REC%

RQD%

COLOR

SOIL
CONSISTENCY
ROCK
HARDNESS

MATERIAL
DESCRIPTION

USCS

PID

REMARKS

0

-5

-10

-15

-20

-25

See DEC-044 boring log for lithologic
description for 0-45.0 feet bgs.

Vactron
cleared 0-5.0'
bgs

COMMENTS: Boring advanced with track-mounted AMS17-C Sonic drill rig.

Soil sample collected 50.0 - 51.0 and 70.0 - 71.0 for geotechnical analysis.

BORING NO. :DEC-044D



TEST BORING LOG

BORING NO. : DEC-044D

PROJECT: Former Klink Cosmo Cleaners Site

SHEET: 2 OF 3

CLIENT: New York State Department of Environmental Conservation

JOB NO. :11176390.00002

[illegible]

COMMENTS: Boring advanced with track-mounted AMS17-C Sonic drill rig. Soil sample collected 50.0 - 51.0 and 70.0 - 71.0 for geotechnical analysis.

BORING NO. :DEC-044D



TEST BORING LOG

BORING NO. : DEC-044D

PROJECT: Former Klink Cosmo Cleaners Site

SHEET: 3 OF 3

CLIENT: New York State Department of Environmental Conservation

JOB NO. :11176390.00002

DEPTH FEET	STRATA	SAMPLE		REC %	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD %		ROCK HARDNESS				
<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><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COMMENTS: Boring advanced with track-mounted AMS17-C Sonic drill rig. Soil sample collected 50.0 - 51.0 and 70.0 - 71.0 for geotechnical analysis.

BORING NO. :DEC-044D

PROJECT/PROJECT LOCATION: Meeker Avenue Plume Trackdown

SHEET: 1 OF 2

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 11176390

BORING CONTRACTOR: Aquifer Drilling & Testing Inc.

NORTHING: 201745.6589 EASTING: 1001996.625

GROUNDWATER: Encountered at 34.0' bgs.

CAS. SAMPLER CORE TUBE

GROUND ELEVATION: 32.55

DATE	TIME	LEVEL	TYPE	TYPE	Casing	Split Spoon	CORE	TUBE
				DIA.	4"	2-inch		
				WT.		140 lbs.		
				FALL		30 - inches		

DATE STARTED: 6/4/08
 DATE FINISHED: 6/16/08
 DRILLER: Shawn Miller
 GEOLOGIST: S. McCabe

* POCKET PENETROMETER READING

REVIEWED BY: Tim Burmeier

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD%		CONSISTENCY ROCK HARDNESS				

0					Brown		Concrete			Vactron cleared boring 0-5.0'
							Clayey SILT, trace sand and gravel			
-5		1	1/9/7/8	25		Very Stiff		ML	0.3	Moist
		2	3/1/1/2	75		Soft			0.4	
-10		3	1/8/5/4	25		Stiff			0.2	
		4	5/13/20/17	50		Dense	Fine SAND, trace gravel	SP	0.6	
-15		5	26/27/13/15	50		Very Stiff	Clayey SILT	ML	0.7	
		6	14/20/21/22	50		Very Dense	Fine to medium Sand, trace gravel	SP	0.6	
-20		7	29/26/37/42	100					0.6	
		8	6/9/7/9	50		Medium Dense			0.8	
		9	11/9/12/12	50					1.7	
-25		10	9/4/5/7	75					2.2	
						Very Dense				

COMMENTS: Boring advanced with truck-mounted CME-85 using 4-inch mud rotary drilling.

<div>URS Corporation</div>										TEST BORING LOG				
										BORING NO. : DEC-045D				
PROJECT/PROJECT LOCATION: Former Klink Cosmo Cleaners Site										SHEET: 1 OF 3				
CLIENT: New York State Department of Environmental Conservation										JOB NO. : 11176390.00002				
BORING CONTRACTOR: Aquifer Drilling & Testing Inc.										NORTHING:201738.648 EASTING: 1001998.988				
GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION: 32.44 feet amsl					
DATE	TIME	LEVEL	TYPE	TYPE					DATE STARTED: 5/19/11					
				DIA.					DATE FINISHED: 5/19/11					
				WT.					DRILLER: G. Rivera					
				FALL					GEOLOGIST: S. McCabe					
					* POCKET PENETROMETER READING				REVIEWED BY: T. Burmeier					
DEPTH FEET	STRATA	SAMPLE		REC%		SOIL	MATERIAL			USCS	PID	REMARKS		
		NO.	BLOW COUNT	RQD%	COLOR	CONSISTENCY ROCK HARDNESS	DESCRIPTION							
0							See DEC-045 boring log for lithologic description for 0-45.0 feet bgs.					Vactron cleared 0-5.0' bgs		
-5														
-10														
-15														
-20														
-25														
COMMENTS: Boring advanced with track-mounted AMS17-C Sonic drill rig.														
BORING NO. :DEC-045D														



TEST BORING LOG

BORING NO. : DEC-045D

PROJECT: Former Klink Cosmo Cleaners Site

SHEET: 2 OF 3

CLIENT: New York State Department of Environmental Conservation

JOB NO. :11176390.00002

DEPTH FEET	STRATA	SAMPLE		REC %	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD %		ROCK HARDNESS				
</										

COMMENTS: Boring advanced with track-mounted AMS17-C Sonic drill rig.

BORING NO. :DEC-045D



TEST BORING LOG

BORING NO. : DEC-045D

PROJECT: Former Klink Cosmo Cleaners Site

SHEET: 3 OF 3

CLIENT: New York State Department of Environmental Conservation

JOB NO. :11176390.00002

DEPTH FEET	STRATA	SAMPLE		REC %	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD %		ROCK HARDNESS				
-60		4		86			-some coarse sand, trace fine to coarse gravel		0.0	
									0.0	
									0.0	
									0.0	
									0.0	
									0.0	
									0.0	
-65		5		80			Fine to coarse SAND, trace to some fine to coarse gravel	SW	0.0	
									0.0	
									0.0	
									0.0	
									0.0	
									0.0	
									0.0	
-70		6		100					0.0	
									0.0	
									0.0	
									0.0	
									0.0	
									0.0	
									0.0	
-75		7		100	Orangish Brown		Fine to medium SAND, trace coarse sand and fine to coarse gravel	SP	0.0	
									0.0	
									0.0	
									0.0	
									0.0	
									0.0	
									0.0	
-80							Boring completed at 80.0' bgs.			
-85										
-90										

COMMENTS: Boring advanced with track-mounted AMS17-C Sonic drill rig.

BORING NO. :DEC-045D

URS Corporation							TEST BORING LOG			
							BORING NO. : DEC-046			
PROJECT: Meeker Avenue Plume Trackdown							SHEET: 2 OF 2			
CLIENT: New York State Department of Environmental Conservation							JOB NO. : 11176390			
DEPTH FEET	STRATA	SAMPLE		REC %	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD %		ROCK HARDNESS				
-30 <										

<div>URS Corporation</div>										TEST BORING LOG				
										BORING NO. : DEC-047				
PROJECT/PROJECT LOCATION: Meeker Avenue Plume Trackdown										SHEET: 1 OF 2				
CLIENT: New York State Department of Environmental Conservation										JOB NO. : 11176390				
BORING CONTRACTOR: Aquifer Drilling & Testing Inc.										NORTHING:201110.6942 EASTING: 1001622.227				
GROUNDWATER:Encountered at 30.0' bgs.					CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION: 31.26					
DATE	TIME	LEVEL	TYPE	TYPE	Casing	Split Spoon			DATE STARTED: 6/26/08					
				DIA.	4"	2-inch			DATE FINISHED: 6/30/08					
				WT.		140 lbs.			DRILLER: Jeremy Meyers					
				FALL		30 - inches			GEOLOGIST: C. Friedman					
					* POCKET PENETROMETER READING				REVIEWED BY: Tim Burmeier					
DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION			USCS	PID	REMARKS		
		NO.	BLOW COUNT	RQD%		CONSISTENCY							ROCK HARDNESS	
0							Concrete					Vactron cleared boring 0-5.0'		
							Clayey SILT, trace gravel							
-5		1	6/7/8/8	100	Reddish Brown	Stiff				ML	0.0		Moist	
		2	6/18/16/52	75		Hard								
-10		3	15/16/19/27	100										
		4	4/12/16/32	100	Brown	Medium Dense	Silty SAND, trace gravel			SM	0.0			
-15		5	5/18/17/20	50		Dense					0.0			
		6	14/13/15/13	50		Medium Dense					0.0			
-20		7	4/15/20/12	100	Gray	Hard	Clayey SILT, trace gravel			CL	0.0			
		8	4/8/22/22	75		Very Stiff					0.0			
-25	9	25/10/11/14	50					0.0						
	10	5/9/9/10	50							0.0				
COMMENTS: Boring advanced with track-mounted CME-55 LC using 4-inch mud rotary drilling.														
BORING NO. : DEC-047														

PROJECT/PROJECT LOCATION: Meeker Avenue Plume Trackdown

SHEET: 1 OF 2

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 11176390

BORING CONTRACTOR: Aquifer Drilling & Testing Inc.

NORTHING: 201186.5875 EASTING: 1001796.924

GROUNDWATER: Encountered at 30.0' bgs.

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 28.69

DATE

TIME

LEVEL

TYPE

DATE STARTED: 6/23/08

DIA.

4"

2-inch

DATE FINISHED: 6/25/08

WT.

140 lbs.

DRILLER: Jeremy Meyers

FALL

30 - inches

GEOLOGIST: C. Friedman

* POCKET PENETROMETER READING

REVIEWED BY: Tim Burmeier

DEPTH
FEET

STRATA

SAMPLE

REC%

COLOR

SOIL
CONSISTENCY

MATERIAL
DESCRIPTION

USCS

PID

REMARKS

NO.

BLOW
COUNT

RQD%

ROCK
HARDNESS

0

-5

-10

-15

-20

-25

Concrete

Silty SAND, trace gravel

SM

Vactron
cleared
boring 0-5.0'

Brown

Very Dense

Moist

1

64/ 30/1

100

0.0

2

16/12/10/12

100

0.0

3

9/11/17/25

745

0.0

4

10/10/10/24

75

0.0

5

6/12/12/14

75

0.0

6

14/16/17/18

100

0.0

7

8/14/13/20

75

0.0

8

11/ 40/4

25

0.0

9

30/30/35/ 87/5

50

200

Black

Strong tar like
odor

COMMENTS: Boring advanced with track-mounted CME-55 LC using 4-inch mud rotary drilling.

Soil sample collected for TCL VOC plus TICS and TCL SVOC plus TICs 24.5-25.5' bgs.

PROJECT/PROJECT LOCATION: Former Klink Cosmo Cleaners Site

SHEET: 1 OF 3

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 11176390.00002

BORING CONTRACTOR: Aquifer Drilling & Testing Inc.

NORTHING: 202043.667 EASTING: 1001902.992

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 37.77 feet amsl

DATE

TIME

LEVEL

TYPE

TYPE

DATE STARTED: 5/12/11

DATE FINISHED: 5/13/11

DRILLER: J. Meyers

GEOLOGIST: C. Friedman

REVIEWED BY: T. Burmeier

* POCKET PENETROMETER READING

DEPTH
FEET

STRATA

SAMPLE

NO.

BLOW
COUNT

REC%

RQD%

COLOR

SOIL
CONSISTENCY
ROCK
HARDNESS

MATERIAL
DESCRIPTION

USCS

PID

REMARKS

0

-5

-10

-15

-20

-25

Concrete

Vactron
cleared 0-5.0'
bgs

Brown

Fine SAND and SILT, little clay lenses,
trace gravel

SM

Moist

3.0

2.4

2.0

0.0

0.0

Fine to medium SAND, trace gravel and
cobbles

SP

1.8

Red to
Brown

Brown

Fine SAND and SILT, trace gravel

SM

1.4

1.3

1.8

1.0

0.0

0.0

0.0

0.0

0.0

-some gravel and cobbles

Dry

1.0

1.4

1.2

1.0

1.1

1.2

Greyish
Brown

COMMENTS: Boring advanced with track-mounted AMS 17-C Sonic drill rig.

Soil sample collected from 31.0-32.0 feet bgs for TCL VOCs plus TICs, TCL SVOCs plus TICs,

TCL Pesticide/PCBs/Herbicide, TAL Metals, Cyanide and Hex Chromium.

PROJECT: Former Klink Cosmo Cleaners Site

SHEET: 2 OF 3

CLIENT: New York State Department of Environmental Conservation

JOB NO. :11176390.00002

DEPTH FEET	STRATA	SAMPLE		REC %	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD %		ROCK HARDNESS				
-30									1.1	Wet
									1.0	
									0.0	
									0.0	
							GRAVEL and COBBLES	GW	0.0	
							Fine to coarse SAND and GRAVEL	SW	0.3	
									0.0	
									0.0	
									0.0	
									0.3	
-35									0.3	Wet
									0.5	
									0.4	
							-some gravel		0.8	
							Fine SAND	SP	0.0	
									0.3	
							Fine to coarse SAND, little to some gravel and cobbles		0.6	
									0.8	
									0.5	
									0.0	
-45									0.8	Wet
									1.3	
									1.4	
									1.0	
									0.0	
							GRAVEL and COBBLES	GP	0.0	
									0.0	
									0.0	
									0.0	
									0.0	
-55									0.8	Wet
							Fine to medium SAND and GRAVEL/COBBLES, little coarse sand	SW	1.1	
									1.4	

COMMENTS: Boring advanced with track-mounted AMS 17-C Sonic drill rig.

Soil sample collected from 31.0-32.0 feet bgs for TCL VOCs plus TICs, TCL SVOCs plus TICs,

TCL Pesticide/PCBs/Herbicide, TAL Metals, Cyanide and Hex Chromium.



TEST BORING LOG

BORING NO. : DEC-064D

PROJECT: Former Klink Cosmo Cleaners Site

SHEET: 3 OF 3

CLIENT: New York State Department of Environmental Conservation

JOB NO. :11176390.00002

[illegible]

COMMENTS: Boring advanced with track-mounted AMS 17-C Sonic drill rig.

Soil sample collected from 31.0-32.0 feet bgs for TCL VOCs plus TICs, TCL SVOCs plus TICs,

TCL Pesticide/PCBs/Herbicide, TAL Metals, Cyanide and Hex Chromium.

BORING NO. :DEC-064D

PROJECT/PROJECT LOCATION: Former Klink Cosmo Cleaners Site

SHEET: 1 OF 3

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 11176390.00002

BORING CONTRACTOR: Aquifer Drilling & Testing Inc.

NORTHING: 201699.610 EASTING: 1001695.714

GROUNDWATER: ~35 feet bgs

CAS. SAMPLER CORE TUBE

GROUND ELEVATION: 39.25 feet amsl

DATE	TIME	LEVEL	TYPE	TYPE				
				DIA.				
				WT.				
				FALL				

DATE STARTED: 5/24/11

DATE FINISHED: 5/25/11

DRILLER: J. Meyers

GEOLOGIST: C. Friedman

* POCKET PENETROMETER READING

REVIEWED BY: T. Burmeier

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD%		ROCK HARDNESS				
0							Concrete			Vactron cleared 0-5.0' bgs
-5		1	40		Brown		Fine SAND and SILT, little gravel	SM	0.5	Moist
									0.5	
									0.0	
									0.0	
									0.0	
-10		2	100				Fine to medium SAND and GRAVEL/COBBLES	SW	0.0	Wet
									0.0	
									0.0	Dry
									0.0	
-15		3	100		Reddish Brown		Clayey SILT, little gravel and fine sand	ML	0.0	Moist to dry
									0.0	
									0.0	
									0.0	
									0.0	
-20		4	100		Brown				0.0	Dry
									0.0	
									0.0	
									0.0	
									0.0	
-25					Grey to Brown				0.0	
									0.0	
									0.0	
									0.0	
					Brown			SW	0.0	

COMMENTS: Boring advanced with track-mounted AMS 17-C Sonic drill rig.

Soil sample collected from 9.0 - 10.0, 14.0 - 15.0 and 34.0 - 35.0 feet bgs for TCL VOCs plus TICs, TCL SVOCs plus TICs,

TCL Pesticide/PCBs/Herbicide, TAL Metals, Cyanide and Hex Chromium analysis.

URS Corporation							TEST BORING LOG				
PROJECT: Former Klink Cosmo Cleaners Site CLIENT: New York State Department of Environmental Conservation							BORING NO. : DEC-065D				
							SHEET: 2 OF 3				
							JOB NO. :11176390.00002				
DEPTH FEET	STRATA	SAMPLE		REC %	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS	
		NO.	BLOW COUNT	RQD %		ROCK HARDNESS					
<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>		5		50			Fine to medium SAND and GRAVEL/COBBLES		0.0	Undifferentiated odor	
									0.0		
									0.0		
									0.0		
		8.8									
		10.0									
		12.1									
		80.2									
		0.0									
		0.0									
		6		80					SP	0.0	Wet
										0.0	
										0.0	
										0.0	
		0.0									
		0.0									
		0.0									
		0.0									
		0.0									
		0.0									
	7		70						0.0		
									0.0		
									0.0		
									0.0		
	0.0										
	0.0										
	0.0										
	0.0										
	0.0										
	0.0										
	8		80						0.0		
									0.0		
									0.0		
									0.0		
	0.0										
	0.0										
	0.0										
	0.0										
	0.0										
	0.0										
	9		40						0.0		
									0.0		
									0.0		
									0.0		
	0.0										
	0.0										
	0.0										
	0.0										
	0.0										
	0.0										
	10		80						0.6		
									2.2		
									0.2		
									0.0		
	0.0										
	0.0										
	0.0										
	0.0										
	0.0										
	0.0										
	11		70						0.0		
									0.0		
									0.0		
									0.0		
	0.0										
	0.0										
	0.0										
	0.0										
	0.0										
	0.0										

COMMENTS: Boring advanced with track-mounted AMS 17-C Sonic drill rig.

Soil sample collected from 9.0 - 10.0, 14.0 - 15.0 and 34.0 - 35.0 feet bgs for TCL VOCs plus TICs, TCL SVOCs plus TICs,

TCL Pesticide/PCBs/Herbicide, TAL Metals, Cyanide and Hex Chromium analysis.

BORING NO. :DEC-065D

PROJECT: Former Klink Cosmo Cleaners Site

SHEET: 3 OF 3

CLIENT: New York State Department of Environmental Conservation

JOB NO. :11176390.00002

DEPTH FEET	STRATA	SAMPLE		REC %	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD %		ROCK HARDNESS				
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COMMENTS: Boring advanced with track-mounted AMS 17-C Sonic drill rig.

Soil sample collected from 9.0 - 10.0, 14.0 - 15.0 and 34.0 - 35.0 feet bgs for TCL VOCs plus TICs, TCL SVOCs plus TICs,

TCL Pesticide/PCBs/Herbicide, TAL Metals, Cyanide and Hex Chromium analysis.

PROJECT/PROJECT LOCATION: Former Klink Cosmo Cleaners Site

SHEET: 1 OF 3

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 11176390.00002

BORING CONTRACTOR: Aquifer Drilling & Testing Inc.

NORTHING: 201668.614 EASTING: 1001939.332

GROUNDWATER: ~30 feet bgs

CAS. SAMPLER CORE TUBE

GROUND ELEVATION: 31.46 feet amsl

DATE	TIME	LEVEL	TYPE	TYPE				
				DIA.				
				WT.				
				FALL				

DATE STARTED: 5/20/11

DATE FINISHED: 5/23/11

DRILLER: J. Meyers

GEOLOGIST: C. Friedman

* POCKET PENETROMETER READING

REVIEWED BY: T. Burmeier

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD%		ROCK HARDNESS				
0							Concrete			Vactron cleared 0-5.0' bgs
-5		1		80	Brown		Fine SAND and SILT	SM	0.5	Moist
					Red to Brown		Fine to coarse SAND, some gravel and cobbles	SW	0.4	Dry
									0.2	
									0.0	
									0.0	
-10		2		40	Brown		GRAVEL and COBBLES	GP	2.5	Moist Dry
					Grey to Black				2.0	
									0.0	
									0.0	
									0.0	
-15		3		50	Red to Brown		Fine SAND	SP	7.1	Moist
					Brown				4.7	
									0.0	
									0.0	
									0.0	
-20		4		50	Grey to Brown		Fine to medium SAND, trace gravel		1.4	
					Lt Brown		Fine SAND		0.4	
									0.0	
									0.0	
									0.0	
									0.0	
-25					Brown				0.0	

COMMENTS: Boring advanced with track-mounted AMS17-C Sonic drill rig.

Soil samples collected 24.0 - 25.0 and 29.0 - 30.0 feet bgs for TCL VOCs plus TICs, TCL SVOCs plus TICs,

TCL Pesticide/PCBs/Herbicide, TAL Metals, Cyanide and Hex Chromium analysis.



TEST BORING LOG

BORING NO. : DEC-066D

PROJECT: Former Klink Cosmo Cleaners Site

SHEET: 2 OF 3

CLIENT: New York State Department of Environmental Conservation

JOB NO. :11176390.00002

[illegible]

COMMENTS: Boring advanced with track-mounted AMS17-C Sonic drill rig.

Soil samples collected 24.0 - 25.0 and 29.0 - 30.0 feet bgs for TCL VOCs plus TICs, TCL SVOCs plus TICs,

TCL Pesticide/PCBs/Herbicide, TAL Metals, Cyanide and Hex Chromium analysis.

BORING NO. :DEC-066D

PROJECT: Former Klink Cosmo Cleaners Site

SHEET: 3 OF 3

CLIENT: New York State Department of Environmental Conservation

JOB NO. :11176390.00002

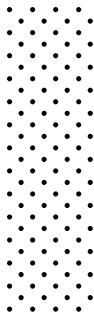
DEPTH FEET	STRATA	SAMPLE		REC %	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD %		ROCK HARDNESS				
-60									0.0	
									0.0	
							Fine to coarse SAND and GRAVEL		0.0	
									0.0	
		12		50			Fine SAND and SILT, some gravel	SM	0.0	
									0.0	
									0.0	
-65					Brown to Orangish Brown		Fine to medium SAND, little coarse sand and gravel	SP	0.0	
		13		60					0.0	
									0.0	
									0.0	
									0.0	
-70					Brown				0.0	
									0.0	
		14		70					0.0	
							Fine SAND, little silt and gravel		0.0	
									0.0	
-75							Fine to medium SAND, little gravel, trace silt		0.0	
		15		80					0.0	
									0.0	
									0.0	
-80							Boring completed at 80.0' bgs.			
-85										
-90										

COMMENTS: Boring advanced with track-mounted AMS17-C Sonic drill rig.

Soil samples collected 24.0 - 25.0 and 29.0 - 30.0 feet bgs for TCL VOCs plus TICs, TCL SVOCs plus TICs,

TCL Pesticide/PCBs/Herbicide, TAL Metals, Cyanide and Hex Chromium analysis.

URS Corporation						TEST BORING LOG						
						BORING NO. : SB-011						
PROJECT/PROJECT LOCATION: Meeker Avenue Plume Trackdown						SHEET: 1 OF 2						
CLIENT: New York State Department of Environmental Conservation						JOB NO. : 11176332						
BORING CONTRACTOR: Geologic NY, Inc.						NORTHING:202512.2684 EASTING: 1001731.5693						
GROUNDWATER:Perched at 8.0' bgs.					CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION: 42.35			
DATE	TIME	LEVEL	TYPE	TYPE		Macro Core			DATE STARTED: 11/29/2007			
				DIA.		2-inch			DATE FINISHED: 11/29/2007			
				WT.					DRILLER: Steve Laramee			
				FALL					GEOLOGIST: A. Ledgerwood			
* POCKET PENETROMETER READING								REVIEWED BY: Tim Burmeier				
DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION	USCS	PID	REMARKS		
		NO.	BLOW COUNT	RQD%		CONSISTENCY ROCK HARDNESS						
0							Concrete	SM	0	Moist		
		1		50	Black Brown		FILL: Sand and asphalt		0			
							Silty coarse SAND, trace gravel		0			
-5		2		70					0			
									0			
									0			
-10		3		20			Clayey SILT, trace gravel	ML	23	Wet		
									0			
									0			
-15		4		40			Coarse SAND, trace gravel and cobbles	SP	0			
									0			
									0			
									0			
		5		100	Light Brown		Medium SAND, trace silt and gravel		0	Moist		
-20									24			
									4.5			
									2.9			
		6		60					0			
									0			
									0.5			
-25									25			
							Coarse SAND, trace gravel and cobbles		128			
COMMENTS: Soil boring advanced using track-mounted Geoprobe 6620 DT unit. Samples collected using 2-inch diameter by 4-foot long Macro Core sampler with dedicated/disposable acetate liners. Sampled for VOCs 25.0-26.0' and 31.5-32.5' bgs.												
BORING NO. : SB-011												

<div> <div>URS Corporation</div> <div> <div>PROJECT: Meeker Avenue Plume Trackdown</div> <div>CLIENT: New York State Department of Environmental Conservation</div> </div> </div>							TEST BORING LOG			
							BORING NO. : SB-011			
							SHEET: 2 OF 2			
							JOB NO. : 11176332			
DEPTH FEET	STRATA	SAMPLE		REC %	COLOR	SOIL CONSISTANCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD %		ROCK HARDNESS				
-30		7		80						
									3.3	Black staining at 29.0'
									3.7	
		8		100					7.8	
									8.2	
		9		80					36	
									22	
							3.3			
-35							Boring completed at 33.0' bgs due to Macro Core refusal.			
-40										
-45										
-50										
-55										
<div> <div>COMMENTS: Soil boring advanced using track-mounted Geoprobe 6620 DT unit. Samples collected using 2-inch diameter by 4-foot long Macro Core sampler with dedicated/disposable acetate liners. Sampled for VOCs 25.0-26.0' and 31.5-32.5' bgs.</div> </div>										
							BORING NO. : SB-011			



TEST BORING LOG

BORING NO. : SB-12

PROJECT: Meeker Avenue Plume Trackdown

SHEET: 2 OF 2

CLIENT: New York State Department of Environmental Conservation

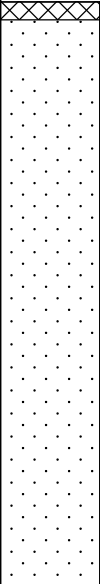
JOB NO. : 11176332 / 11176390

DEPTH FEET	STRATA	SAMPLE		REC %	COLOR	SOIL CONSISTANCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD %		ROCK HARDNESS				
-30 <										

COMMENTS: Soil boring advanced using track-mounted Geoprobe 6610 DT unit. Samples collected using 2-inch diameter by 5-foot long Macro Core sampler with dedicated/disposable acetate liners.

BORING NO. : SB-12

[illegible]

<div>URS Corporation</div>										TEST BORING LOG				
										BORING NO. : SB-15				
PROJECT/PROJECT LOCATION: Meeker Avenue Plume Trackdown										SHEET: 1 OF 1				
CLIENT: New York State Department of Environmental Conservation										JOB NO. : 11176390				
BORING CONTRACTOR: Zebra Environmental										NORTHING:201716.5738 EASTING: 1001756.572				
GROUNDWATER:Not Encountered						CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION: 38.23				
DATE	TIME	LEVEL	TYPE	TYPE		Macro Core			DATE STARTED: 5/15/08					
				DIA.		2-inch			DATE FINISHED: 5/15/08					
				WT.					DRILLER: Evan					
				FALL					GEOLOGIST: C. Friedman					
				* POCKET PENETROMETER READING				REVIEWED BY: Tim Burmeier						
DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION	USCS	PID	REMARKS				
		NO.	BLOW COUNT	RQD%		CONSISTENCY								
						ROCK HARDNESS								
0		1		40	Brown	Concrete	Fine to medium SAND, trace silt and gravel	SP	0.9	Moist				
									0.9					
									0.9					
									0.9					
-5									0.9					
									1.0					
									1.0					
									1.0					
									0.8					
									0.8					
-10									2.6					
									0.0					
				0.0										
-15						Boring Completed at 13.0' bgs, Macro Core Refusal.								
-20														
-25														
COMMENTS: Soil boring advanced using track-mounted Geoprobe 6610 DT unit. Samples collected using 2-inch diameter by 5-foot long Macro Core sampler with dedicated/disposable acetate liners.														
BORING NO. : SB-15														

URS Corporation						TEST BORING LOG							
						BORING NO. : SB-16							
PROJECT/PROJECT LOCATION: Meeker Avenue Plume Trackdown						SHEET: 1 OF 1							
CLIENT: New York State Department of Environmental Conservation						JOB NO. : 11176390							
BORING CONTRACTOR: Zebra Environmental						NORTHING:201684.5176 EASTING: 1001654.957							
GROUNDWATER:Not Encountered					CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION: 39.45				
DATE	TIME	LEVEL	TYPE	TYPE		Macro Core			DATE STARTED: 5/15/08				
				DIA.		2-inch			DATE FINISHED: 5/15/08				
				WT.					DRILLER: Evan				
				FALL					GEOLOGIST: C. Friedman				
					* POCKET PENETROMETER READING				REVIEWED BY: Tim Burmeier				
DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION	USCS	PID	REMARKS			
		NO.	BLOW COUNT	RQD%		CONSISTENCY ROCK HARDNESS							
0													
-1					Black Brown		Concrete			moist			
-2							FILL: Cinders, trace gravel	SM	0.9				
-3									0.9				
-4							Fine to medium SAND, some silt and gravel		0.9				
-5									0.9				
-6									0.3				
-7									0.3				
-8									0.3				
-9									0.2				
-10									0.2				
-11									1.3				
-12									1.3				
-13									0.9				
-14									0.9				
-15									0.9				
-16									0.0				
-17									0.0				
-18									0.0				
-19									0.0				
-20					Reddish Brown				0.0				
-21					Gray Brown				0.0				
-22									0.0				
-23									0.0				
-24									0.0				
-25									0.0				
COMMENTS: Soil boring advanced using track-mounted Geoprobe 6610 DT unit. Samples collected using 2-inch diameter by 5-foot long Macro Core sampler with dedicated/disposable acetate liners.													
BORING NO. : SB-16													



TEST BORING LOG

BORING NO. : SB-17

PROJECT: Meeker Avenue Plume Trackdown

SHEET: 2 OF 2

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 11176390

[illegible]

COMMENTS: Soil boring advanced using track-mounted Geoprobe 6610 DT unit. Samples collected using 2-inch diameter by 5-foot long Macro Core sampler with dedicated/disposable acetate liners.

BORING NO. : SB-17

[illegible]

URS Corporation							TEST BORING LOG									
							BORING NO. : SB-21									
PROJECT/PROJECT LOCATION: Meeker Avenue Plume Trackdown							SHEET: 1 OF 1									
CLIENT: New York State Department of Environmental Conservation							JOB NO. : 11176390									
BORING CONTRACTOR: Zebra Environmental							NORTHING:201589.8013 EASTING: 1001966.06									
GROUNDWATER:Not Encountered					CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION: 28.65							
DATE	TIME	LEVEL	TYPE	TYPE		Macro Core			DATE STARTED: 5/13/08							
				DIA.		2-inch			DATE FINISHED: 5/13/08							
				WT.					DRILLER: Evan							
				FALL					GEOLOGIST: C. Friedman							
					* POCKET PENETROMETER READING			REVIEWED BY: Tim Burmeier								
DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION	USCS	PID	REMARKS						
		NO.	BLOW COUNT	RQD%		CONSISTENCY ROCK HARDNESS										
0		1		50	Brown		Concrete FILL: Medium sand, trace cinders, brick, gravel			Moist						
-5			2								90					
-10			3								60					
-15							Boring Completed at 15.0' bgs, Macro Core refusal at two locations.									
-20																
-25																
COMMENTS: Soil boring advanced using track-mounted Geoprobe 6610 DT unit. Samples collected using 2-inch diameter by 5-foot long Macro Core sampler with dedicated/disposable acetate liners. Soil sample collected for TCL VOCs plus TICs 13.5-15.0'																
BORING NO. : SB-21																

PROJECT/PROJECT LOCATION: Meeker Avenue Plume Trackdown

SHEET: 1 OF 1

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 11176390

BORING CONTRACTOR: Zebra Environmental

NORTHING: 201746.0233 EASTING: 1001832.084

GROUNDWATER: Not Encountered

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 36.57

DATE

TIME

LEVEL

TYPE

TYPE

Macro Core

DATE STARTED: 5/13/08

DIA.

2-inch

DATE FINISHED: 5/13/08

WT.

DRILLER: Evan

FALL

GEOLOGIST: C. Friedman

REVIEWED BY: Tim Burmeier

DEPTH
FEET

STRATA

SAMPLE

NO.

BLOW
COUNT

REC%

RQD%

COLOR

SOIL
CONSISTENCY
ROCK
HARDNESS

MATERIAL
DESCRIPTION

USCS

PID

REMARKS

0

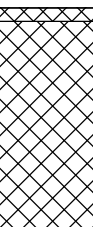
-5

-10

-15

-20

-25



1

60

Brown

Concrete

FILL: Sand, some ash and cinders, trace brick

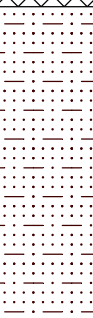
0.0

0.0

0.0

0.0

0.9



2

60

Reddish
Brown

Fine SAND and SILT, some gravel

SM

1.2

1.2

1.2

1.2

1.2

0.4

0.4

3

100

Boring Completed at 12.0' bgs, Macro Core refusal at two locations.

COMMENTS: Soil boring advanced using track-mounted Geoprobe 6610 DT unit. Samples collected using 2-inch diameter by 5-foot long Macro Core sampler with dedicated/disposable acetate liners. Soil sample collected for TCL VOCs plus TICs 13.5-15.0'

PROJECT/PROJECT LOCATION: Fomer Klink Cosmo Cleaners Site

SHEET: 1 OF 1

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 11176390.00002

BORING CONTRACTOR: Zebra Environmental, Inc.

NORTHING: 202369.860 EASTING: 1002191.974

GROUNDWATER:

CAS. SAMPLER CORE TUBE

GROUND ELEVATION: 43.77 feet amsl

DATE	TIME	LEVEL	TYPE	TYPE				
				DIA.				
				WT.				
				FALL				

DATE STARTED: 5/6/11

DATE FINISHED: 5/6/11

DRILLER: L. Reiss

GEOLOGIST: C. Friedman

* POCKET PENETROMETER READING

REVIEWED BY: T. Burmeier

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD%		ROCK HARDNESS				

0							Concrete			
					Brown		FILL: STONE			
		1		67			Fine SAND, little silt		1.4	Moist
-5		2		83					0.3	
-10							Boring completed at 8.0' bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced using a 6620DT Geoprobe rig.
Collected soil sample 4.0 to 5.0 feet bgs for TCL VOC plus TICs analysis.

PROJECT/PROJECT LOCATION: Fomer Klink Cosmo Cleaners Site

SHEET: 1 OF 1

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 11176390.00002

BORING CONTRACTOR: Zebra Environmental, Inc.

NORTHING: 202007.735 EASTING: 1001908.431

GROUNDWATER:

CAS. SAMPLER CORE TUBE

GROUND ELEVATION: 37.31 feet amsl

DATE	TIME	LEVEL	TYPE	TYPE				
				DIA.				
				WT.				
				FALL				

DATE STARTED: 5/6/11

DATE FINISHED: 5/6/11

DRILLER: L. Reiss

GEOLOGIST: C. Friedman

* POCKET PENETROMETER READING

REVIEWED BY: T. Burmeier

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD%		ROCK HARDNESS				

0							Concrete			
					Brown		FILL: STONE	FILL ML		Moist
		1		60			SILT, some fine sand		0.0	
-5							Fine SAND	SP		
		2		83					0.0	
-10							Boring completed 8.0' bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced using a 6620DT Geoprobe rig.
Collected soil sample 7.0 to 8.0 feet bgs for TCL VOC plus TICs analysis.

PROJECT/PROJECT LOCATION: Fomer Klink Cosmo Cleaners Site

SHEET: 1 OF 1

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 11176390.00002

BORING CONTRACTOR: Zebra Environmental, Inc.

NORTHING: 201929.820 EASTING: 1001934.103

GROUNDWATER:

CAS. SAMPLER CORE TUBE

GROUND ELEVATION: 36.22 feet amsl

DATE	TIME	LEVEL	TYPE	TYPE				
				DIA.				
				WT.				
				FALL				

DATE STARTED: 5/6/11
 DATE FINISHED: 5/6/11
 DRILLER: L. Reiss
 GEOLOGIST: C. Friedman
 REVIEWED BY: T. Burmeier

* POCKET PENETROMETER READING

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD%		ROCK HARDNESS				

0							Concrete			
					Brown		FILL: STONE	Fill SP		Moist
		1		50			FILL: ASPHALT		0.0	
							Fine SAND, little to some silt			
-5		2		67					0.0	
-10							Boring completed at 8.0' bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced using a 6620DT Geoprobe rig.
 Collected soil sample 7.0 to 8.0 feet bgs for TCL VOC plus TICs analysis.

PROJECT/PROJECT LOCATION: Fomer Klink Cosmo Cleaners Site

SHEET: 1 OF 1

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 11176390.00002

BORING CONTRACTOR: Zebra Environmental, Inc.

NORTHING: 201858.296 EASTING: 1001958.228

GROUNDWATER:

CAS. SAMPLER CORE TUBE

GROUND ELEVATION: 35.20 feet amsl

DATE	TIME	LEVEL	TYPE	TYPE				
				DIA.				
				WT.				
				FALL				

DATE STARTED: 5/6/11

DATE FINISHED: 5/6/11

DRILLER: L. Reiss

GEOLOGIST: C. Friedman

* POCKET PENETROMETER READING

REVIEWED BY: T. Burmeier

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD%		ROCK HARDNESS				

0							Concrete	Fill SM		Moist
		1		50	Brown		FILL: STONE		0.0	
							FILL: ASPHALT			
							Fine SAND and SILT, trace gravel			
-5		2		83			FILL: BRICK	Fill SM	0.0	
							Fine SAND and SILT			
-10							Boring completed at 8.0' bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced using a 6620DT Geoprobe rig.
Collected soil sample 7.0 to 8.0 feet bgs for TCL VOC plus TICs analysis.

PROJECT/PROJECT LOCATION: Fomer Klink Cosmo Cleaners Site

SHEET: 1 OF 1

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 11176390.00002

BORING CONTRACTOR: Zebra Environmental, Inc.

NORTHING: 201797.275 EASTING: 1001980.452

GROUNDWATER:

CAS. SAMPLER CORE TUBE

GROUND ELEVATION: 33.98 feet amsl

DATE	TIME	LEVEL	TYPE	TYPE				
				DIA.				
				WT.				
				FALL				

DATE STARTED: 5/6/11

DATE FINISHED: 5/6/11

DRILLER: L. Reiss

GEOLOGIST: C. Friedman

* POCKET PENETROMETER READING

REVIEWED BY: T. Burmeier

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD%		ROCK HARDNESS				

0							Concrete	Fill		
					Dark Brown		FILL: STONE	SM		Moist
		1		40			FILL: CONCRETE and BRICK		0.0	
							Fine SAND and SILT			
-5		2		56					0.0	
-10							Boring completed at 8.0' bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced using a 6620DT Geoprobe rig.
Collected soil sample 7.0 to 8.0 feet bgs for TCL VOC plus TICs analysis.

PROJECT/PROJECT LOCATION: Fomer Klink Cosmo Cleaners Site

SHEET: 1 OF 1

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 11176390.00002

BORING CONTRACTOR: Zebra Environmental, Inc.

NORTHING: 201739.157 EASTING: 1001813.320

GROUNDWATER:

CAS. SAMPLER CORE TUBE

GROUND ELEVATION: 37.15 feet amsl

DATE	TIME	LEVEL	TYPE	TYPE				
				DIA.				
				WT.				
				FALL				

DATE STARTED: 5/6/11

DATE FINISHED: 5/6/11

DRILLER: L. Reiss

GEOLOGIST: C. Friedman

* POCKET PENETROMETER READING

REVIEWED BY: T. Burmeier

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD%		ROCK HARDNESS				

0							Concrete	Fill SP		Moist
		1		50	Dark Brown		FILL: STONE		0.0	
							Fine SAND, little silt			
-5		2		50					1.1	
-10							Boring completed at 8.0' bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced using a 6620DT Geoprobe rig.
Collected soil sample 7.0 to 8.0 feet bgs for TCL VOC plus TICs analysis.

PROJECT/PROJECT LOCATION: Fomer Klink Cosmo Cleaners Site

SHEET: 1 OF 1

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 11176390.00002

BORING CONTRACTOR: Zebra Environmental, Inc.

NORTHING: 201698.220 EASTING: 1001691.588

GROUNDWATER:

CAS. SAMPLER CORE TUBE

GROUND ELEVATION: 39.32 feet amsl

DATE	TIME	LEVEL	TYPE	TYPE				
				DIA.				
				WT.				
				FALL				

DATE STARTED: 5/6/11

DATE FINISHED: 5/6/11

DRILLER: L. Reiss

GEOLOGIST: C. Friedman

* POCKET PENETROMETER READING

REVIEWED BY: T. Burmeier

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD%		ROCK HARDNESS				

0					Brown		Concrete			Wet
		1		60			FILL: STONE		0.0	Dry to moist
							Fine SAND and SILT			
-5		2		100					0.0	Moist
-10							Boring completed at 8.0' bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced using a 6620DT Geoprobe rig.
Collected soil sample 7.0 to 8.0 feet bgs for TCL VOC plus TICs analysis.

PROJECT/PROJECT LOCATION: Fomer Klink Cosmo Cleaners Site

SHEET: 1 OF 1

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 11176390.00002

BORING CONTRACTOR: Zebra Environmental, Inc.

NORTHING: 201653.488 EASTING: 1001561.070

GROUNDWATER:

CAS. SAMPLER CORE TUBE

GROUND ELEVATION: 39.42 feet amsl

DATE	TIME	LEVEL	TYPE	TYPE				
				DIA.				
				WT.				
				FALL				

DATE STARTED: 5/6/11

DATE FINISHED: 5/6/11

DRILLER: L. Reiss

GEOLOGIST: C. Friedman

* POCKET PENETROMETER READING

REVIEWED BY: T. Burmeier

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD%		ROCK HARDNESS				

0					Dark Brown to Black		Concrete	Fill		Moist
		1		60			FILL: STONE	SM	0.0	
							FILL: Fine SAND and CINDERS			
							Fine SAND and SILT			
-5		2		100	Brown		Fine to medium SAND	SW	0.0	
-10							Boring completed at 8.0' bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced using a 6620DT Geoprobe rig.
Collected soil sample 7.0 to 8.0 feet bgs for TCL VOC plus TICs analysis.

PROJECT/PROJECT LOCATION: Fomer Klink Cosmo Cleaners Site

SHEET: 1 OF 1

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 11176390.00002

BORING CONTRACTOR: Zebra Environmental, Inc.

NORTHING: 201578.058 EASTING: 1001537.332

GROUNDWATER:

CAS. SAMPLER CORE TUBE

GROUND ELEVATION: 37.81 feet amsl

DATE	TIME	LEVEL	TYPE	TYPE				
				DIA.				
				WT.				
				FALL				

DATE STARTED: 5/6/11

DATE FINISHED: 5/6/11

DRILLER: L. Reiss

GEOLOGIST: C. Friedman

* POCKET PENETROMETER READING

REVIEWED BY: T. Burmeier

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD%		ROCK HARDNESS				

0							Concrete			Moist
					Brown		FILL: STONE			
		1		70			SILT, little to some fine sand		0.0	
-5							Fine SAND and SILT, trace gravel	SM		
		2		83					0.0	
-10							Boring completed at 8.0' bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced using a 6620DT Geoprobe rig.
Collected soil sample 7.0 to 8.0 feet bgs for TCL VOC plus TICs analysis.

RI PHASE II

<div>URS Corporation</div>										<div>TEST BORING LOG</div>				
										BORING NO. : DEC-011D				
PROJECT/PROJECT LOCATION: Meeker Avenue - Klink Cosmo Phase 2										SHEET: 1 OF 3				
CLIENT: New York State Department of Environmental Conservation										JOB NO. : 11176390.00002				
BORING CONTRACTOR: Aquifer Drilling & Testing Inc.										NORTHING:201722.911 EASTING: 1001433.352				
GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION: 40.42 feet amsl					
DATE	TIME	LEVEL	TYPE	TYPE					DATE STARTED: 3/14/12					
				DIA.	5"		3"		DATE FINISHED: 3/14/12					
				WT.					DRILLER: J. McGill					
				FALL					GEOLOGIST: S. McCabe					
					* POCKET PENETROMETER READING				REVIEWED BY: K. McGovern					
DEPTH FEET	STRATA	SAMPLE NO. BLOW COUNT		REC% RQD%	COLOR	SOIL CONSISTENCY ROCK HARDNESS		MATERIAL DESCRIPTION		USCS	PID	REMARKS		
0								See DEC-011 boring log for lithologic description for 0-45.0 feet bgs.				Vactron cleared 0-5.0' bgs		
-5														
-10														
-15														
-20														
-25														
<div>COMMENTS: Boring hand cleared to 5 feet bgs then advanced with track-mounted AMS 17-C Sonic drill rig using 3-inch sampler and 5-inch OD casing.</div> <div>Shelby Tube collected from 75-77' bgs.</div>														
<div>BORING NO. :DEC-011D</div>														



TEST BORING LOG

BORING NO. : DEC-011D

PROJECT: Meeker Avenue - Klink Cosmo Phase 2

SHEET: 2 OF 3

CLIENT: New York State Department of Environmental Conservation

JOB NO. :11176390.00002

DEPTH FEET	STRATA	SAMPLE		REC %	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD %		ROCK HARDNESS				
-30										
-35										
-40										
-45										
-45					Red Brown		Medium to fine SAND, trace fine to coarse gravel	SW		Wet
-45							Fine SAND	SP	0.0	
-45							Silty fine SAND	SM	0.0	
-45									0.0	
-45									0.0	
-50					Orange Brown		Fine SAND, trace silt	SP	0.1	
-50									0.2	
-50									0.0	
-50									0.3	
-50									0.0	
-55									0.0	
-55									0.1	
-55							Very fine SAND and SILT		0.2	

COMMENTS: Boring hand cleared to 5 feet bgs then advanced with track-mounted AMS 17-C Sonic drill rig using 3-inch sampler and 5-inch OD casing.

Shelby Tube collected from 75-77' bgs.

BORING NO. :DEC-011D

PROJECT: Meeker Avenue - Klink Cosmo Phase 2

SHEET: 3 OF 3

CLIENT: New York State Department of Environmental Conservation

JOB NO. :11176390.00002

DEPTH FEET	STRATA	SAMPLE		REC %	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS		
		NO.	BLOW COUNT	RQD %		ROCK HARDNESS						
-60		4		100	Brown		1" fine sand lenses 0.5" clayey silt lenses from 58-59' 6" fine sand lense @ 60.5' 6" fine sand lense @ 62.5' 6" fine sand lense @ 64.5'	SM/ML				
		5		100	Brown to Yellow Brown		Fine to Medium SAND, trace silt and fine gravel	SW				
-65												
		6		100	Light Brown		Fine SAND, trace silt	SP				
-70												
					Gray		Silty CLAY, varved	CL				
-75							Boring completed at 75' bgs					
-80												
-85												
-90												

COMMENTS: Boring hand cleared to 5 feet bgs then advanced with track-mounted AMS 17-C Sonic drill rig using 3-inch sampler and 5-inch OD casing.

Shelby Tube collected from 75-77' bgs.

<div>URS Corporation</div>										<div>TEST BORING LOG</div>				
										BORING NO. : DEC-028D				
PROJECT/PROJECT LOCATION: Meeker Avenue - Klink Cosmo Phase 2										SHEET: 1 OF 3				
CLIENT: New York State Department of Environmental Conservation										JOB NO. : 11176390.00002				
BORING CONTRACTOR: Aquifer Drilling & Testing Inc.										NORTHING:202254.948 EASTING: 1001707.16				
GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION: 40.00 feet amsl					
DATE	TIME	LEVEL	TYPE	TYPE					DATE STARTED: 3/12/12					
				DIA.	5"		3"		DATE FINISHED: 3/13/12					
				WT.					DRILLER: J. McGill					
				FALL					GEOLOGIST: S. McCabe					
					* POCKET PENETROMETER READING				REVIEWED BY: K. McGovern					
DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL		MATERIAL DESCRIPTION	USCS	PID	REMARKS			
		NO.	BLOW COUNT	RQD%		CONSISTENCY ROCK HARDNESS								
0								See DEC-028 boring log for lithologic description for 0-45.0 feet bgs.			Vactron cleared 0-5.0' bgs			
-5														
-10														
-15														
-20														
-25														
<div>COMMENTS: Boring hand cleared to 5 feet bgs then advanced with track-mounted AMS 17-C Sonic drill rig using 3-inch sampler and 5-inch OD casing.</div> <div>Shelby Tube collected from 80-82' bgs.</div>														
<div>BORING NO. :DEC-028D</div>														



TEST BORING LOG


BORING NO. : DEC-028D

PROJECT: Meeker Avenue - Klink Cosmo Phase 2

SHEET: 2 OF 3

CLIENT: New York State Department of Environmental Conservation

JOB NO. :11176390.00002

DEPTH FEET	STRATA	SAMPLE		REC %	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD %		ROCK HARDNESS				
-30										
-35										
-40										
-45		1		86	Brown		Medium to fine SAND, trace fine to coarse gravel and coarse sand	SW	0.1	Wet
0.3										
0.9										
0.6										
0.8										
-50		2		80			Silty fine SAND	SM	0.4	
0.8										
0.8										
0.5										
0.3										
-55	3		88			Medium to fine SAND, trace fine to coarse gravel and coarse sand	SW	1.1		
0.0										
0.1										
0.7										

COMMENTS: Boring hand cleared to 5 feet bgs then advanced with track-mounted AMS 17-C Sonic drill rig using 3-inch sampler and 5-inch OD casing.

Shelby Tube collected from 80-82' bgs.

BORING NO. :DEC-028D



TEST BORING LOG

BORING NO. : DEC-028D

PROJECT: Meeker Avenue - Klink Cosmo Phase 2

SHEET: 3 OF 3

CLIENT: New York State Department of Environmental Conservation

JOB NO. :11176390.00002

[illegible]

COMMENTS: Boring hand cleared to 5 feet bgs then advanced with track-mounted AMS 17-C Sonic drill rig using 3-inch sampler and 5-inch OD casing.

Shelby Tube collected from 80-82' bgs.

BORING NO. :DEC-028D

<div>URS Corporation</div>										<div>TEST BORING LOG</div>				
										BORING NO. : DEC-046D				
PROJECT/PROJECT LOCATION: Meeker Avenue - Klink Cosmo Phase 2										SHEET: 1 OF 3				
CLIENT: New York State Department of Environmental Conservation										JOB NO. : 11176390.00002				
BORING CONTRACTOR: Aquifer Drilling & Testing Inc.										NORTHING:201448.423 EASTING: 1001666.64				
GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION: 36.66 feet amsl					
DATE	TIME	LEVEL	TYPE	TYPE					DATE STARTED: 3/15/12					
				DIA.	5"		3"		DATE FINISHED: 3/15/12					
				WT.					DRILLER: J. McGill					
				FALL					GEOLOGIST: S. McCabe					
					* POCKET PENETROMETER READING				REVIEWED BY: K. McGovern					
DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL		MATERIAL DESCRIPTION	USCS	PID	REMARKS			
		NO.	BLOW COUNT	RQD%		CONSISTENCY	ROCK HARDNESS							
0								See DEC-046 boring log for lithologic description for 0-45.0 feet bgs.			Vactron cleared 0-5.0' bgs			
-5														
-10														
-15														
-20														
-25														
COMMENTS: Boring hand cleared to 5 feet bgs then advanced with track-mounted AMS 17-C Sonic drill rig using 3-inch sampler and 5-inch OD casing.														
BORING NO. :DEC-046D														



TEST BORING LOG

BORING NO. : DEC-046D

PROJECT: Meeker Avenue - Klink Cosmo Phase 2

SHEET: 2 OF 3

CLIENT: New York State Department of Environmental Conservation

JOB NO. :11176390.00002

DEPTH FEET	STRATA	SAMPLE		REC %	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD %		ROCK HARDNESS				

COMMENTS: Boring hand cleared to 5 feet bgs then advanced with track-mounted AMS 17-C Sonic drill rig using 3-inch sampler and 5-inch OD casing.

BORING NO. :DEC-046D



TEST BORING LOG

BORING NO. : DEC-046D

PROJECT: Meeker Avenue - Klink Cosmo Phase 2

SHEET: 3 OF 3

CLIENT: New York State Department of Environmental Conservation

JOB NO. :11176390.00002

DEPTH FEET	STRATA	SAMPLE		REC %	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD %		ROCK HARDNESS				
<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><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COMMENTS: Boring hand cleared to 5 feet bgs then advanced with track-mounted AMS 17-C Sonic drill rig using 3-inch sampler and 5-inch OD casing.

BORING NO. :DEC-046D



TEST BORING LOG

BORING NO. : DEC-088D

PROJECT: Meeker Avenue - Klink Cosmo Phase 2

SHEET: 2 OF 3

CLIENT: New York State Department of Environmental Conservation

JOB NO. :11176390.00002

DEPTH FEET	STRATA	SAMPLE		REC %	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS		
		NO.	BLOW COUNT	RQD %		ROCK HARDNESS						
<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>	5		70						0.0	Wet	
												0.0
												0.0
												0.0
												0.0
												0.0
												0.0
												0.0
												0.0

COMMENTS: Boring hand cleared to 5 feet bgs then advanced with track-mounted AMS 17-C Sonic drill rig using 3-inch sampler and 5-inch OD casing.

Collected soil sample from 37-38' bgs for TCL VOCs plus TICs analysis.

BORING NO. :DEC-088D



TEST BORING LOG

BORING NO. : DEC-088D

PROJECT: Meeker Avenue - Klink Cosmo Phase 2

SHEET: 3 OF 3

CLIENT: New York State Department of Environmental Conservation

JOB NO. :11176390.00002

DEPTH FEET	STRATA	SAMPLE		REC %	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD %		ROCK HARDNESS				
									0.4	
-60							Fine SAND	SP		
									0.2	
		12		86			Fine to coarse SAND	SW		
									0.4	
									0.5	
									0.1	
-65							no recovery			
		13		0						
-70							trace gravel			
		14		42						
-75							Fine to medium SAND		0.0	
		15		40					0.0	
-80									0.0	
		16		20						
-85									0.0	
		17		46					0.0	
-90							Boring completed at 90' bgs			

COMMENTS: Boring hand cleared to 5 feet bgs then advanced with track-mounted AMS 17-C Sonic drill rig using 3-inch sampler and 5-inch OD casing.

Collected soil sample from 37-38' bgs for TCL VOCs plus TICs analysis.

BORING NO. :DEC-088D

<div>URS Corporation</div>									TEST BORING LOG				
									BORING NO. : DEC-089D				
PROJECT/PROJECT LOCATION: Meeker Avenue - Klink Cosmo Phase 2									SHEET: 1 OF 3				
CLIENT: New York State Department of Environmental Conservation									JOB NO. : 11176390.00002				
BORING CONTRACTOR: Aquifer Drilling & Testing Inc.									NORTHING:202121.562 EASTING: 1002118.166				
GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION: 39.19 feet amsl				
DATE	TIME	LEVEL	TYPE	TYPE					DATE STARTED: 3/2/12				
				DIA.	5"		3"		DATE FINISHED: 3/2/12				
				WT.					DRILLER: J. McGill				
				FALL					GEOLOGIST: S. McCabe				
					* POCKET PENETROMETER READING				REVIEWED BY: K. McGovern				
DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION	USCS	PID	REMARKS			
		NO.	BLOW COUNT	RQD%		CONSISTENCY ROCK HARDNESS							
0										Vactron cleared 0-5.0' bgs			
-5					Reddish Brown		Fine SAND, trace fine to coarse gravel	SP	0.0	Moist			
		1		82					0.0				
									0.0				
									0.0				
-10		2		64					0.0				
									0.0				
									0.0				
-15					Brown		Fine sandy SILT, some clay, trace gravel	ML					
							Fine to coarse SAND, some gravel	SW	0.0				
		3		88					0.0				
							Fine SAND, trace silt	SP	0.0				
									0.0				
-20					Reddish Brown Gray		Clayey SILT, some sand, trace gravel	ML					
		4		100					0.0				
									0.0				
									0.0				
-25					Brown		Fine SAND, trace gravel	SP	0.0				
							Silty fine to medium SAND, some gravel,	SM	0.0				
COMMENTS: Boring hand cleared to 5 feet bgs then advanced with track-mounted AMS 17-C Sonic drill rig using 3-inch sampler and 5-inch OD casing.													
Collected soil sample from 34-35' bgs for TCL VOCs plus TICs analysis.													
BORING NO. :DEC-089D													

PROJECT: Meeker Avenue - Klink Cosmo Phase 2

SHEET: 2 OF 3

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 11176390.00002

DEPTH FEET	STRATA	SAMPLE		REC %	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD %		ROCK HARDNESS				
-30		5		88			trace cobbles	SW		
							Fine to medium SAND, some fine to coarse gravel, trace coarse sand and cobbles			
-35		6		62			Fine SAND	SP		
-40		7		60			Fine to coarse SAND, some gravel, trace cobbles	SW		Wet
-45		8		88						
-50		9		82						
-55		10		100			Fine to medium SAND, trace coarse sand and fine to coarse gravel			
		11		100						

COMMENTS: Boring hand cleared to 5 feet bgs then advanced with track-mounted AMS 17-C Sonic drill rig using 3-inch sampler and 5-inch OD casing.

Collected soil sample from 34-35' bgs for TCL VOCs plus TICs analysis.

PROJECT: Meeker Avenue - Klink Cosmo Phase 2

SHEET: 3 OF 3

CLIENT: New York State Department of Environmental Conservation

JOB NO. :11176390.00002

DEPTH FEET	STRATA	SAMPLE		REC %	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD %		ROCK HARDNESS				
<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><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COMMENTS: Boring hand cleared to 5 feet bgs then advanced with track-mounted AMS 17-C Sonic drill rig using 3-inch sampler and 5-inch OD casing.

Collected soil sample from 34-35' bgs for TCL VOCs plus TICs analysis.

BORING NO. :DEC-089D

PROJECT/PROJECT LOCATION: Meeker Avenue - Klink Cosmo Phase 2

SHEET: 1 OF 3

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 11176390.00002

BORING CONTRACTOR: Aquifer Drilling & Testing Inc.

NORTHING: 201829.028

EASTING: 1001968.225

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 34.74 feet amsl

DATE

TIME

LEVEL

TYPE

TYPE

DIA.

5"

3"

DATE STARTED: 3/6/12

DATE FINISHED: 3/7/12

DRILLER: J. McGill

GEOLOGIST: S. McCabe

* POCKET PENETROMETER READING

REVIEWED BY: K. McGovern

DEPTH
FEET

STRATA

SAMPLE

NO.

BLOW
COUNT

REC%

RQD%

COLOR

SOIL
CONSISTENCY

ROCK
HARDNESS

MATERIAL
DESCRIPTION

USCS

PID

REMARKS

0

-5

-10

-15

-20

-25

Vactron
cleared 0-5.0'
bgs

Moist

FILL: Fine sandy SILT, some gravel,
asphalt, slag

Fine sandy SILT

Fine SAND

Fine to coarse SAND, some fine to
coarse gravel

SILT

Fine to coarse SAND, some fine to
coarse gravel, trace cobbles and silt

Fine SAND

0.0

0.0

0.0

0.0

0.0

0.1

0.2

0.4

0.0

0.1

0.1

0.2

0.4

0.0

0.2

0.4

0.3

0.5

0.1

COMMENTS: Boring hand cleared to 5 feet bgs then advanced with track-mounted AMS 17-C Sonic drill rig using 3-inch sampler and 5-inch OD casing.

Collected soil sample from 30- 31' bgs for TCL VOCs plus TICs analysis.

BORING NO. :DEC-090D

PROJECT: Meeker Avenue - Klink Cosmo Phase 2

SHEET: 2 OF 3

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 11176390.00002

DEPTH FEET	STRATA	SAMPLE		REC %	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD %		ROCK HARDNESS				
-30		5		100					0.1	
									0.3	
									0.0	
									0.0	
							rock in shoe		4.1	
		6		20						
-35					Brown		Fine to coarse SAND, some gravel	SW	0.1	Wet
									3.2	
		7		54					1.7	
									5.7	
-40							Fine to medium SAND, trace gravel		0.6	
		8		20						
-45									0.1	
									0.3	
		9		74					1.1	
-50							Medium to coarse SAND, trace fine to coarse gravel			
							Fine to coarse SAND, trace fine to coarse gravel		0.6	
		10		100					0.1	
									0.4	
									0.3	
-55							Silty fine SAND, trace fine to coarse gravel and clay	SM	0.1	
		11		0						

COMMENTS: Boring hand cleared to 5 feet bgs then advanced with track-mounted AMS 17-C Sonic drill rig using 3-inch sampler and 5-inch OD casing.

Collected soil sample from 30- 31' bgs for TCL VOCs plus TICs analysis.

PROJECT: Meeker Avenue - Klink Cosmo Phase 2

SHEET: 3 OF 3

CLIENT: New York State Department of Environmental Conservation

JOB NO. :11176390.00002

DEPTH FEET	STRATA	SAMPLE		REC %	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD %		ROCK HARDNESS				
-60 										

COMMENTS: Boring hand cleared to 5 feet bgs then advanced with track-mounted AMS 17-C Sonic drill rig using 3-inch sampler and 5-inch OD casing.

Collected soil sample from 30- 31' bgs for TCL VOCs plus TICs analysis.

BORING NO. :DEC-090D

PROJECT/PROJECT LOCATION: Meeker Avenue - Klink Cosmo Phase 2

SHEET: 1 OF 3

CLIENT: New York State Department of Environmental Conservation

JOB NO. : 11176390.00002

BORING CONTRACTOR: Aquifer Drilling & Testing Inc.

NORTHING:201586.28

EASTING: 1002048.376

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 28.14 feet amsl

DATE

TIME

LEVEL

TYPE

TYPE

DATE STARTED:

3/8/12

DIA.

5"

3"

DATE FINISHED:

3/8/12

WT.

DRILLER:

J. McGill

FALL

GEOLOGIST:

S. McCabe

* POCKET PENETROMETER READING

REVIEWED BY:

K. McGovern

DEPTH
FEET

STRATA

SAMPLE

NO.

BLOW
COUNT

REC%

RQD%

COLOR

SOIL
CONSISTENCY

ROCK
HARDNESS

MATERIAL
DESCRIPTION

USCS

PID

REMARKS

0

-5

-10

-15

-20

-25

Vactron
cleared 0-5.0'
bgs

Moist

FILL: Silty SAND, trace brick, slag and
fine to coarse gravel

Fine sandy SILT

Fine SAND, trace fine to coarse gravel

Silty fine SAND, trace fine to coarse
gravel and cobbles

Fine to medium SAND, some fine to
coarse gravel , trace coarse sand and
cobbles

cobble in shoe

COMMENTS: Boring hand cleared to 5 feet bgs then advanced with track-mounted AMS 17-C Sonic drill rig using 3-inch sampler and 5-inch OD casing.

Collected soil sample from 30- 31' bgs for TCL VOCs plus TICs analysis.

BORING NO. :DEC-091D

PROJECT: Meeker Avenue - Klink Cosmo Phase 2

SHEET: 2 OF 3

CLIENT: New York State Department of Environmental Conservation

JOB NO. :11176390.00002

DEPTH FEET	STRATA	SAMPLE		REC %	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD %		ROCK HARDNESS				
-30		5		0						
-35		6		46	Dark Brown		Fine to coarse SAND, some fine to coarse gravel, trace cobbles			
-40		7		0			no recovery			
-45		8		82	Brown		Fine to medium SAND, some fine to coarse gravel , trace coarse sand and cobbles		0.0	Wet
-50		9		0			no recovery		0.0	
-55		10		100			Fine to coarse SAND, trace fine to coarse gravel		0.1	
									0.0	
							Fine SAND, trace silt and fine gravel	SP	0.1	
									0.0	
									0.1	
							Fine to medium SAND, some fine to coarse gravel , trace coarse sand	SW	0.0	
									0.4	
		11		86					0.1	

COMMENTS: Boring hand cleared to 5 feet bgs then advanced with track-mounted AMS 17-C Sonic drill rig using 3-inch sampler and 5-inch OD casing.

Collected soil sample from 30- 31' bgs for TCL VOCs plus TICs analysis.

PROJECT: Meeker Avenue - Klink Cosmo Phase 2

SHEET: 3 OF 3

CLIENT: New York State Department of Environmental Conservation

JOB NO. :11176390.00002

DEPTH FEET	STRATA	SAMPLE		REC %	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS	
		NO.	BLOW COUNT	RQD %		ROCK HARDNESS					
<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>	12		92						0.5	
										0.3	
										0.0	
										0.1	
										0.0	
										0.0	
		0.0									
		0.0									
		0.1									
		0.1									
		0.0									
		0.0									
	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>	13		100	Orange Brown		Fine SAND, trace silt and fine to coarse gravel	SP	0.1		
									0.1		
									0.0		
									0.0		
									0.1		
									0.1		
	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>	14		100				Fine to medium SAND, some fine to coarse gravel , trace coarse sand	SW	0.0	
										0.0	
										0.0	
										0.0	
										0.0	
										0.0	
<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>	15		100	Boring completed at 80' bgs		0.0					
						0.0					
						0.0					
						0.0					
						0.0					
						0.1					

COMMENTS: Boring hand cleared to 5 feet bgs then advanced with track-mounted AMS 17-C Sonic drill rig using 3-inch sampler and 5-inch OD casing.

Collected soil sample from 30- 31' bgs for TCL VOCs plus TICs analysis.

BORING NO. :DEC-091D

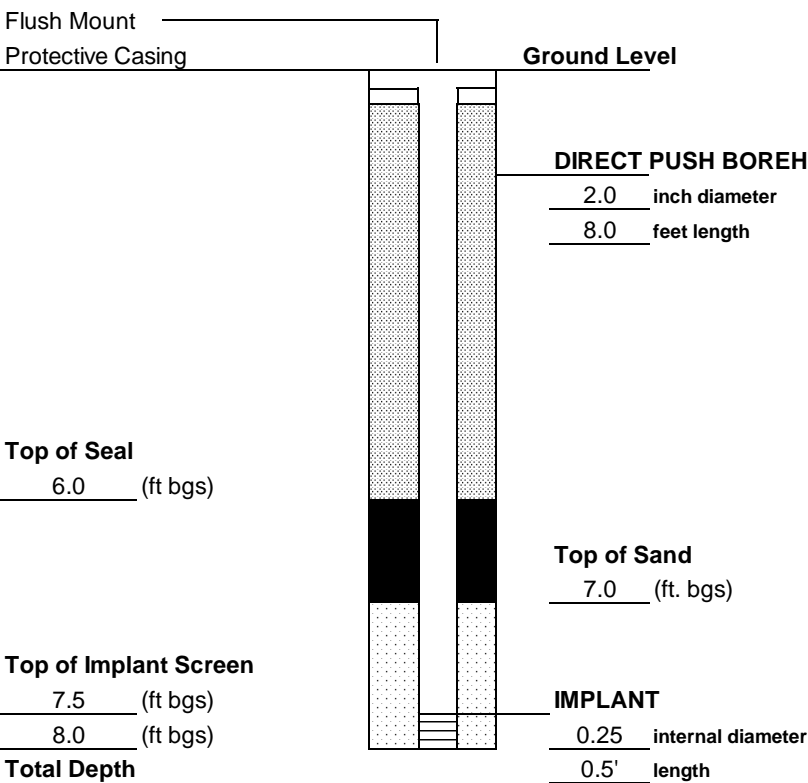
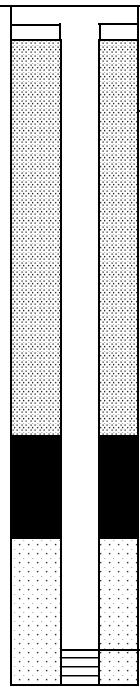



APPENDIX E

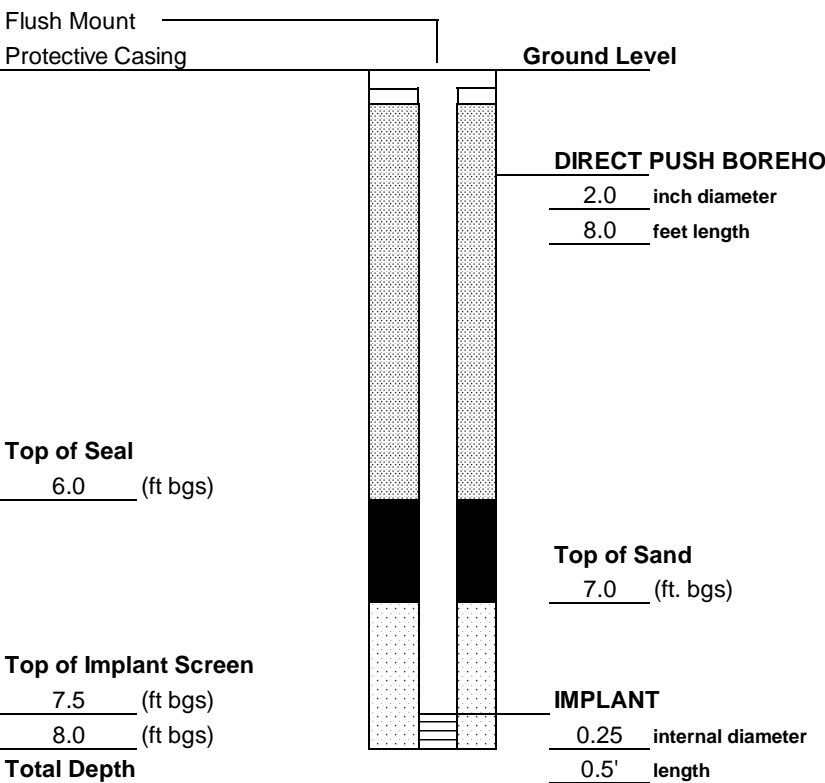



SOIL VAPOR IMPLANT CONSTRUCTION LOGS

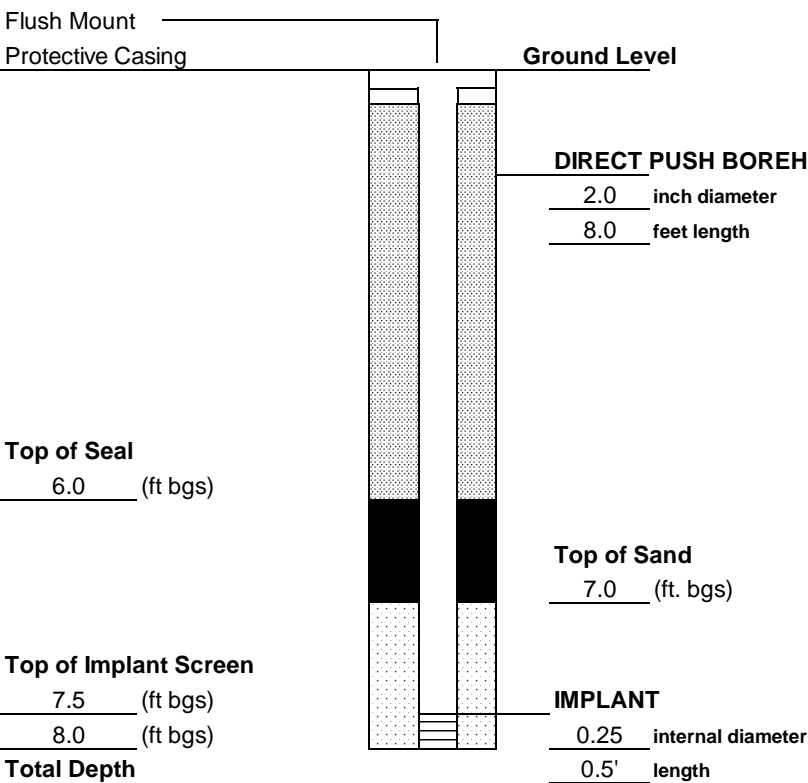
RI PHASE I

DRILLING SUMMARY Geologist: C. Friedman Drilling Company: Zebra Environmental Inc. Driller: Luke Reiss Rig Make/Model: 6620DT Geoprobe Date: 5/6/2011		<p> Flush Mount Protective Casing Ground Level DIRECT PUSH BOREHOLE 2.0 inch diameter 8.0 feet length Top of Seal 6.0 (ft bgs) Top of Sand 7.0 (ft. bgs) Top of Implant Screen 7.5 (ft bgs) 8.0 (ft bgs) Total Depth IMPLANT 0.25 internal diameter 0.5' length NOT TO SCALE </p>					
GEOLOGIC LOG <table border="1"> <thead> <tr> <th>Depth(ft.)</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td></td> <td>See Boring Log for Lithologic Description.</td> </tr> </tbody> </table>				Depth(ft.)	Description		See Boring Log for Lithologic Description.
Depth(ft.)	Description						
	See Boring Log for Lithologic Description.						
WELL DESIGN							
<table border="1"> <thead> <tr> <th>CASING MATERIAL</th> <th>SCREEN MATERIAL</th> <th>FILTER MATERIAL</th> </tr> </thead> <tbody> <tr> <td> Surface: Steel grade box Monitor: 3/8 inch OD polyethylene tubing </td> <td> Type: 6 inch stainless steel implant Pore Diameter: 0.007 inch </td> <td> Type: #1 Sand SEAL MATERIAL Type: Bentonite Slurry </td> </tr> </tbody> </table>		CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL	Surface: Steel grade box Monitor: 3/8 inch OD polyethylene tubing	Type: 6 inch stainless steel implant Pore Diameter: 0.007 inch	Type: #1 Sand SEAL MATERIAL Type: Bentonite Slurry
CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL					
Surface: Steel grade box Monitor: 3/8 inch OD polyethylene tubing	Type: 6 inch stainless steel implant Pore Diameter: 0.007 inch	Type: #1 Sand SEAL MATERIAL Type: Bentonite Slurry					
COMMENTS:		LEGEND Cement/Bentonite Grout Bentonite Seal Silica Sandpack					
Client: NYSDEC		Former Klink Cosmo Cleaners					
URS Corporation		SOIL GAS IMPLANT CONSTRUCTION DETAILS					
		Project No.: 11176390.00002 Well Number: SG-078					

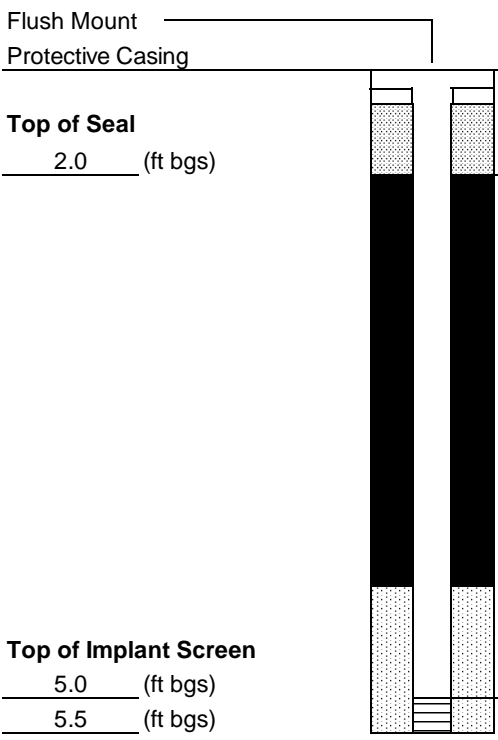
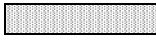


DRILLING SUMMARY Geologist: C. Friedman Drilling Company: Zebra Environmental Inc. Driller: Luke Reiss Rig Make/Model: 6620DT Geoprobe Date: 5/6/2011		<p> Flush Mount Protective Casing Ground Level DIRECT PUSH BOREHOLE 2.0 inch diameter 8.0 feet length Top of Seal 5.0 (ft bgs) Top of Sand 7.0 (ft. bgs) Top of Implant Screen 7.5 (ft bgs) 8.0 (ft bgs) Total Depth IMPLANT 0.25 internal diameter 0.5' length NOT TO SCALE </p>					
GEOLOGIC LOG <table border="1"> <thead> <tr> <th>Depth(ft.)</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td></td> <td>See Boring Log for Lithologic Description.</td> </tr> </tbody> </table>				Depth(ft.)	Description		See Boring Log for Lithologic Description.
Depth(ft.)	Description						
	See Boring Log for Lithologic Description.						
WELL DESIGN							
CASING MATERIAL Surface: Steel grade box Monitor: 3/8 inch OD polyethylene tubing		SCREEN MATERIAL Type: 6 inch stainless steel implant Pore Diameter: 0.007 inch		FILTER MATERIAL Type: #1 Sand SEAL MATERIAL Type: Bentonite Slurry			
COMMENTS:				LEGEND Cement/Bentonite Grout Bentonite Seal Silica Sandpack			
Client: NYSDEC URS Corporation		Former Klink Cosmo Cleaners SOIL GAS IMPLANT CONSTRUCTION DETAILS		Project No.: 11176390.00002 Well Number: SG-079			

DRILLING SUMMARY		 <p style="text-align: center;">NOT TO SCALE</p>		
Geologist: C. Friedman				
Drilling Company: Zebra Environmental Inc.				
Driller: Luke Reiss				
Rig Make/Model: 6620DT Geoprobe				
Date: 5/6/2011				
GEOLOGIC LOG		D E P T H (FT)		DIRECT PUSH BOREHOLE 2.0 inch diameter 8.0 feet length
Depth(ft.)	Description			
	See Boring Log for Lithologic Description.			
	Top of Seal 6.0 (ft bgs)			
	Top of Sand 7.0 (ft. bgs)			
	Top of Implant Screen 7.5 (ft bgs) 8.0 (ft bgs) Total Depth		IMPLANT 0.25 internal diameter 0.5' length	
WELL DESIGN				
CASING MATERIAL		SCREEN MATERIAL		FILTER MATERIAL
Surface:	Steel grade box	Type:	6 inch stainless steel implant	Type: #1 Sand
Monitor:	3/8 inch OD polyethylene tubing	Pore Diameter:	0.007 inch	SEAL MATERIAL
				Type: Bentonite Slurry
COMMENTS:				LEGEND
				 Cement/Bentonite Grout
				 Bentonite Seal
				 Silica Sandpack
Client: NYSDEC		Former Klink Cosmo Cleaners		Project No.: 11176390.00002
URS Corporation		SOIL GAS IMPLANT CONSTRUCTION DETAILS		Well Number: SG-080

DRILLING SUMMARY		 <p style="text-align: center;">NOT TO SCALE</p>	
Geologist: C. Friedman			
Drilling Company: Zebra Environmental Inc.			
Driller: Luke Reiss			
Rig Make/Model: 6620DT Geoprobe			
Date: 5/6/2011			
GEOLOGIC LOG		D E P T H (FT)	Flush Mount Protective Casing Ground Level DIRECT PUSH BOREHOLE 2.0 inch diameter 8.0 feet length Top of Seal 6.0 (ft bgs) Top of Sand 7.0 (ft. bgs) Top of Implant Screen 7.5 (ft bgs) 8.0 (ft bgs) Total Depth IMPLANT 0.25 internal diameter 0.5' length
Depth(ft.)	Description		
	See Boring Log for Lithologic Description.		
WELL DESIGN			
CASING MATERIAL		SCREEN MATERIAL	FILTER MATERIAL
Surface:	Steel grade box	Type:	#1 Sand
Monitor:	3/8 inch OD polyethylene tubing	Pore Diameter:	0.007 inch
COMMENTS:		SEAL MATERIAL	
		Type:	Bentonite Slurry
		LEGEND	
			Cement/Bentonite Grout
			Bentonite Seal
			Silica Sandpack
Client:	NYSDEC	Former Klink Cosmo Cleaners	Project No.: 11176390.00002
	URS Corporation	SOIL GAS IMPLANT CONSTRUCTION DETAILS	Well Number: SG-083

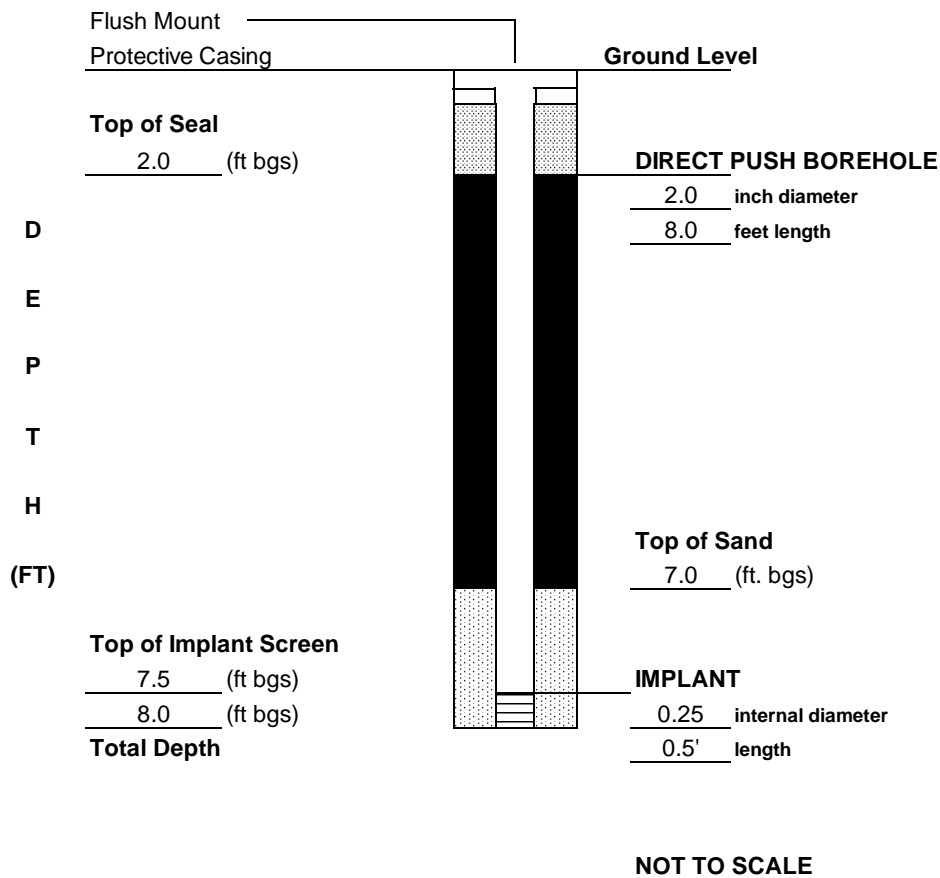
DRILLING SUMMARY		 <p style="text-align: center;">NOT TO SCALE</p>		
Geologist: C. Friedman				
Drilling Company: Zebra Environmental Inc.				
Driller: Luke Reiss				
Rig Make/Model: 6620DT Geoprobe				
Date: 5/6/2011				
GEOLOGIC LOG		D E P T H (FT)	DIRECT PUSH BOREHOLE 2.0 inch diameter 8.0 feet length Top of Sand 7.0 (ft. bgs) Top of Implant Screen 7.5 (ft bgs) 8.0 (ft bgs) Total Depth	
Depth(ft.)	Description			
See Boring Log for Lithologic Description.				
WELL DESIGN				
CASING MATERIAL		SCREEN MATERIAL		FILTER MATERIAL
Surface: Steel grade box Monitor: 3/8 inch OD polyethylene tubing		Type: 6 inch stainless steel implant Pore Diameter: 0.007 inch		Type: #1 Sand
				SEAL MATERIAL Type: Bentonite Slurry
COMMENTS:				LEGEND <div style="display: flex; align-items: center;"> <div style="width: 20px; height: 10px; background-color: #cccccc; border: 1px solid black; margin-right: 5px;"></div> Cement/Bentonite Grout </div> <div style="display: flex; align-items: center;"> <div style="width: 20px; height: 10px; background-color: #000000; border: 1px solid black; margin-right: 5px;"></div> Bentonite Seal </div> <div style="display: flex; align-items: center;"> <div style="width: 20px; height: 10px; background-color: #ffffff; border: 1px solid black; margin-right: 5px;"></div> Silica Sandpack </div>
Client: NYSDEC		Former Klink Cosmo Cleaners		Project No.: 11176390.00002
URS Corporation		SOIL GAS IMPLANT CONSTRUCTION DETAILS		Well Number: SG-086


RI PHASE II


DRILLING SUMMARY			
Geologist: M. Abdelaziz		<div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: left;"> <p>Flush Mount _____</p> <p>Protective Casing _____</p> <p>Top of Seal _____ (ft bgs)</p> <p>Top of Implant Screen _____ (ft bgs) _____ (ft bgs) Total Depth</p> </div> <div style="text-align: center;">  </div> <div style="text-align: right;"> <p>Ground Level</p> <p>DIRECT PUSH BOREHOLE _____ 2.0 inch diameter _____ 8.0 feet length</p> <p>Top of Sand _____ (ft. bgs)</p> <p>IMPLANT _____ 0.25 internal diameter _____ 0.5' length</p> </div> </div> <p>NOT TO SCALE</p>	
Drilling Company: Zebra Environmental Inc.			
Driller: Q. Brandt			
Rig Make/Model: Bobcat Geoprobe			
Date: 3/2/2012			
GEOLOGIC LOG			
Depth(ft.)	Description	D E P T H (FT)	
0-0.5 ft	ASPHALT, some glass		
0.5-6.0 ft	Fill: medium SAND, some silt, fine gravel, and brick		
6.0-7.8 ft	Fine SAND and SILT, little clay		
7.8-8.0 ft	CLAY, some silt		
WELL DESIGN			
CASING MATERIAL		SCREEN MATERIAL	FILTER MATERIAL
Surface:	Steel grade box	Type:	6 inch stainless steel implant
Monitor:	3/8 inch OD polyethylene tubing	Pore Diameter:	0.007 inch
COMMENTS: Screen set from 5-5.5 ft bgs due to tight formation.		LEGEND	
		<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>Cement/Bentonite Grout</p> </div> <div style="text-align: center;">  <p>Bentonite Seal</p> </div> <div style="text-align: center;">  <p>Silica Sandpack</p> </div> </div>	
Client:	NYSDEC	Former Klink Cosmo Cleaners	Project No.: 11176390.00002
URS Corporation		SOIL GAS IMPLANT CONSTRUCTION DETAILS	Well Number: SG-061R

DRILLING SUMMARY		<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>Flush Mount _____</p> <p>Protective Casing _____</p> <p>Top of Seal _____ (ft bgs)</p> <p>Top of Implant Screen _____ (ft bgs) _____ (ft bgs) Total Depth</p> </div> <div style="text-align: center;"> <p>Ground Level</p> <p>DIRECT PUSH BOREHOLE _____ 2.0 inch diameter _____ 8.0 feet length</p> <p>Top of Sand _____ 1.5 (ft. bgs)</p> <p>IMPLANT _____ 0.25 internal diameter _____ 0.5' length</p> </div> </div> <p style="margin-top: 20px;">NOT TO SCALE</p>	
Geologist: M. Abdelaziz			
Drilling Company: Zebra Environmental Inc.			
Driller: Q. Brandt			
Rig Make/Model: Bobcat Geoprobe			
Date: 3/2/2012			
GEOLOGIC LOG		D E P T H (FT)	
Depth(ft.)	Description		
0-2.0 ft	Medium SAND and SILT, trace very fine gravel		
2.0-8.0 ft	Fine to medium SAND and SILT, trace clay and very fine gravel		
WELL DESIGN			
CASING MATERIAL		SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel grade box		Type: 6 inch stainless steel implant Pore Diameter: 0.007 inch	Type: #1 Sand
Monitor: 3/8 inch OD polyethylene tubing			SEAL MATERIAL Type: Bentonite Slurry
COMMENTS: Screen set from 2-2.5 ft bgs due to tight formation and moisture.		LEGEND <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Cement/Bentonite Grout</p> </div> <div style="text-align: center;"> <p>Bentonite Seal</p> </div> <div style="text-align: center;"> <p>Silica Sandpack</p> </div> </div>	
Client: NYSDEC		Former Klink Cosmo Cleaners	Project No.: 11176390.00002
URS Corporation		SOIL GAS IMPLANT CONSTRUCTION DETAILS	Well Number: SG-112





DRILLING SUMMARY			
Geologist: M. Abdelaziz			
Drilling Company: Zebra Environmental Inc.			
Driller: Q. Brandt			
Rig Make/Model: Bobcat Geoprobe			
Date: 3/2/2012			
GEOLOGIC LOG			
Depth(ft.)	Description		
0.0-0.6 ft	ASPHALT and medium SAND, some fine gravel, trace silt		
0.6-7.0 ft	Medium SAND and SILT, some very fine gravel, trace clay wood chips		
7.0-8.0 ft	Medium SAND, trace silt		
WELL DESIGN			
CASING MATERIAL		SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel grade box		Type: 6 inch stainless steel implant Pore Diameter: 0.007 inch	Type: #1 Sand
Monitor: 3/8 inch OD polyethylene tubing			SEAL MATERIAL
			Type: Bentonite Slurry
COMMENTS:		LEGEND	
		<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background-color: #cccccc; border: 1px solid black;"></div> Cement/Bentonite Grout </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background-color: #000000; border: 1px solid black;"></div> Bentonite Seal </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background-color: #e0e0e0; border: 1px solid black;"></div> Silica Sandpack </div>	
Client: NYSDEC		Former Klink Cosmo Cleaners	Project No.: 11176390.00002
URS Corporation		SOIL GAS IMPLANT CONSTRUCTION DETAILS	Well Number: SG-113







DRILLING SUMMARY		<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: left;"> <p>Flush Mount _____</p> <p>Protective Casing _____</p> <p>Top of Seal _____ 2.0 (ft bgs)</p> <p>Top of Implant Screen _____ 7.5 (ft bgs) _____ 8.0 (ft bgs) Total Depth</p> </div> <div style="text-align: center;">  </div> <div style="text-align: right;"> <p>Ground Level</p> <p>DIRECT PUSH BOREHOLE _____ 2.0 inch diameter _____ 8.0 feet length</p> <p>Top of Sand _____ 7.0 (ft. bgs)</p> <p>IMPLANT _____ 0.25 internal diameter _____ 0.5' length</p> </div> </div> <p style="margin-top: 20px;">NOT TO SCALE</p>			
GEOLOGIC LOG					
Depth(ft.)	Description				
0.0-8.0 ft	Medium SAND, little silt and fine gravel, trace glass pieces and brick				
<div style="display: flex; justify-content: space-between;"> D E P T H (FT) </div>					
WELL DESIGN					
CASING MATERIAL		SCREEN MATERIAL		FILTER MATERIAL	
Surface: Steel grade box Monitor: 3/8 inch OD polyethylene tubing		Type: 6 inch stainless steel implant Pore Diameter: 0.007 inch		Type: #1 Sand SEAL MATERIAL Type: Bentonite Slurry	
COMMENTS: 				LEGEND <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Cement/Bentonite Grout</p> </div> <div style="text-align: center;"> <p>Bentonite Seal</p> </div> <div style="text-align: center;"> <p>Silica Sandpack</p> </div> </div>	
Client: NYSDEC URS Corporation		Former Klink Cosmo Cleaners SOIL GAS IMPLANT CONSTRUCTION DETAILS		Project No.: 11176390.00002 Well Number: SG-114	

DRILLING SUMMARY		<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: left;"> <p>Flush Mount _____</p> <p>Protective Casing _____</p> <p>Top of Seal _____ (ft bgs)</p> <p>Top of Implant Screen _____ (ft bgs) _____ (ft bgs) Total Depth</p> </div> <div style="text-align: center;">  </div> <div style="text-align: right;"> <p>Ground Level</p> <p>DIRECT PUSH BOREHOLE _____ 2.0 inch diameter _____ 8.0 feet length</p> <p>Top of Sand _____ (ft. bgs)</p> <p>IMPLANT _____ 0.25 internal diameter _____ 0.5' length</p> </div> </div> <p style="margin-top: 20px;">NOT TO SCALE</p>		
Geologist: M. Abdelaziz				
Drilling Company: Zebra Environmental Inc.				
Driller: Q. Brandt				
Rig Make/Model: Bobcat Geoprobe				
Date: 3/1/2012				
GEOLOGIC LOG		D E P T H (FT)		
Depth(ft.)	Description			
0.0-5.5 ft	Medium SAND, some silt, fine gravel, brick, glass, and cinders			
5.5-8.0 ft	Medium SAND and SILT, trace fine gravel and clay			
WELL DESIGN				
CASING MATERIAL		SCREEN MATERIAL		FILTER MATERIAL
Surface: Steel grade box Monitor: 3/8 inch OD polyethylene tubing		Type: 6 inch stainless steel implant Pore Diameter: 0.007 inch		Type: #1 Sand
				SEAL MATERIAL
				Type: Bentonite Slurry
COMMENTS: Screen set from 6.5-7 ft bgs due to tight formation.			LEGEND	
			<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; width: 40px; height: 15px; background-color: #cccccc;"></div> Cement/Bentonite Grout </div> <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; width: 40px; height: 15px; background-color: black;"></div> Bentonite Seal </div> <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; width: 40px; height: 15px; background-color: #e0e0e0;"></div> Silica Sandpack </div>	
Client: NYSDEC		Former Klink Cosmo Cleaners		Project No.: 11176390.00002
URS Corporation		SOIL GAS IMPLANT CONSTRUCTION DETAILS		Well Number: SG-115

DRILLING SUMMARY		<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>Flush Mount _____</p> <p>Protective Casing _____</p> <p>Top of Seal _____ 2.0 (ft bgs)</p> <p>Top of Implant Screen _____ 4.0 (ft bgs) _____ 4.5 (ft bgs) Total Depth</p> </div> <div style="text-align: center;"> <p>Ground Level</p> <p>DIRECT PUSH BOREHOLE _____ 2.0 inch diameter _____ 8.0 feet length</p> <p>Top of Sand _____ 3.5 (ft. bgs)</p> <p>IMPLANT _____ 0.25 internal diameter _____ 0.5' length</p> </div> </div> <p style="margin-top: 20px;">NOT TO SCALE</p>	
Geologist: M. Abdelaziz			
Drilling Company: Zebra Environmental Inc.			
Driller: Q. Brandt			
Rig Make/Model: Bobcat Geoprobe			
Date: 3/1/2012			
GEOLOGIC LOG		D E P T H (FT)	
Depth(ft.)	Description		
0.0-5.0 ft	Medium SAND, some silt, trace fine gravel		
5.0-8.0 ft	Medium SAND and SILT, little clay		
WELL DESIGN			
CASING MATERIAL		SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel grade box Monitor: 3/8 inch OD polyethylene tubing	Type: 6 inch stainless steel implant Pore Diameter: 0.007 inch	Type: #1 Sand SEAL MATERIAL Type: Bentonite Slurry	
COMMENTS: Screen set from 4-4.5 ft bgs due to tight formation and moisture.		LEGEND <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;"> <p>Cement/Bentonite Grout</p> </div> <div style="text-align: center;"> <p>Bentonite Seal</p> </div> <div style="text-align: center;"> <p>Silica Sandpack</p> </div> </div>	
Client: NYSDEC	Former Klink Cosmo Cleaners	Project No.: 11176390.00002	
URS Corporation	SOIL GAS IMPLANT CONSTRUCTION DETAILS	Well Number: SG-116	

DRILLING SUMMARY		<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>Flush Mount _____</p> <p>Protective Casing _____</p> <p>Top of Seal _____ (ft bgs)</p> <p>Top of Implant Screen _____ (ft bgs) _____ (ft bgs) Total Depth</p> </div> <div style="text-align: center;">  </div> <div style="text-align: center;"> <p>Ground Level</p> <p>DIRECT PUSH BOREHOLE _____ 2.0 inch diameter _____ 8.0 feet length</p> <p>Top of Sand _____ (ft. bgs)</p> <p>IMPLANT _____ 0.25 internal diameter _____ 0.5' length</p> </div> </div> <p style="margin-top: 20px;">NOT TO SCALE</p>	
Geologist: M. Abdelaziz			
Drilling Company: Zebra Environmental Inc.			
Driller: Q. Brandt			
Rig Make/Model: Bobcat Geoprobe			
Date: 3/1/2012			
GEOLOGIC LOG		D E P T H (FT)	
Depth(ft.)	Description		
0.0-0.8 ft	ASPHALT and CINDERS		
0.8-4.5 ft	Medium SAND, trace silt, very fine gravel, and glass		
4.5-7.0 ft	Medium SAND and SILT, trace clay		
7.0-8.0 ft	Fine SAND and SILT, some medium sand, trace fine gravel		
WELL DESIGN			
CASING MATERIAL		SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel grade box		Type: 6 inch stainless steel implant	Type: #1 Sand
Monitor: 3/8 inch OD polyethylene tubing		Pore Diameter: 0.007 inch	SEAL MATERIAL
			Type: Bentonite Slurry
COMMENTS: Screen set from 6.5-7 ft bgs due to tight formation.			LEGEND
			<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>Cement/Bentonite Grout</p> </div> <div style="text-align: center;">  <p>Bentonite Seal</p> </div> <div style="text-align: center;">  <p>Silica Sandpack</p> </div> </div>
Client: NYSDEC	Former Klink Cosmo Cleaners	Project No.: 11176390.00002	
URS Corporation	SOIL GAS IMPLANT CONSTRUCTION DETAILS	Well Number: SG-117	

DRILLING SUMMARY		<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>Flush Mount _____</p> <p>Protective Casing _____</p> <p>Top of Seal _____ (ft bgs)</p> <p>Top of Implant Screen _____ (ft bgs) _____ (ft bgs) Total Depth</p> </div> <div style="text-align: center;">  </div> <div style="text-align: center;"> <p>Ground Level</p> <p>DIRECT PUSH BOREHOLE _____ 2.0 inch diameter _____ 8.0 feet length</p> <p>Top of Sand _____ (ft. bgs)</p> <p>IMPLANT _____ 0.25 internal diameter _____ 0.5' length</p> </div> </div> <p style="margin-top: 20px;">NOT TO SCALE</p>		
Geologist: M. Abdelaziz				
Drilling Company: Zebra Environmental Inc.				
Driller: Q. Brandt				
Rig Make/Model: Bobcat Geoprobe				
Date: 3/1/2012				
GEOLOGIC LOG		D E P T H (FT)		
Depth(ft.)	Description			
0.0-7.0 ft	Medium SAND, some silt, trace fine gravel, clay, and glass			
7.0-8.0 ft	Medium SAND and SILT, little clay			
WELL DESIGN				
CASING MATERIAL		SCREEN MATERIAL		FILTER MATERIAL
Surface: Steel grade box Monitor: 3/8 inch OD polyethylene tubing		Type: 6 inch stainless steel implant Pore Diameter: 0.007 inch		Type: #1 Sand
				SEAL MATERIAL
				Type: Bentonite Slurry
COMMENTS: Screen set from 6.5-7 ft bgs due to tight formation.			LEGEND	
			<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>Cement/Bentonite Grout</p> </div> <div style="text-align: center;">  <p>Bentonite Seal</p> </div> <div style="text-align: center;">  <p>Silica Sandpack</p> </div> </div>	
Client: NYSDEC		Former Klink Cosmo Cleaners		Project No.: 11176390.00002
URS Corporation		SOIL GAS IMPLANT CONSTRUCTION DETAILS		Well Number: SG-118

DRILLING SUMMARY		<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>Flush Mount _____</p> <p>Protective Casing _____</p> <p>Top of Seal _____ (ft bgs)</p> <p>Top of Implant Screen _____ (ft bgs) _____ (ft bgs) Total Depth</p> </div> <div style="text-align: center;"> <p>Ground Level</p> <p>DIRECT PUSH BOREHOLE _____ 2.0 inch diameter _____ 8.0 feet length</p> <p>Top of Sand _____ (ft. bgs)</p> <p>IMPLANT _____ 0.25 internal diameter _____ 0.5' length</p> </div> </div> <p style="margin-top: 20px;">NOT TO SCALE</p>		
Geologist: M. Abdelaziz				
Drilling Company: Zebra Environmental Inc.				
Driller: Q. Brandt				
Rig Make/Model: Bobcat Geoprobe				
Date: 3/1/2012				
GEOLOGIC LOG		D E P T H (FT)		
Depth(ft.)	Description			
0.0-0.7 ft	ASPHALT and medium SAND			
0.7-4.1 ft	Coarse SAND with SILT, some to little very fine gravel			
4.1-8.0 ft	CINDERS with very fine SAND and SILT, trace clay			
WELL DESIGN				
CASING MATERIAL		SCREEN MATERIAL		FILTER MATERIAL
Surface: Steel grade box Monitor: 3/8 inch OD polyethylene tubing		Type: 6 inch stainless steel implant Pore Diameter: 0.007 inch		Type: #1 Sand
				SEAL MATERIAL
				Type: Bentonite Slurry
COMMENTS: Screen set from 3.5-4 ft bgs due to lithology and moisture.			LEGEND	
			<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Cement/Bentonite Grout</p> </div> <div style="text-align: center;"> <p>Bentonite Seal</p> </div> <div style="text-align: center;"> <p>Silica Sandpack</p> </div> </div>	
Client: NYSDEC		Former Klink Cosmo Cleaners		Project No.: 11176390.00002
URS Corporation		SOIL GAS IMPLANT CONSTRUCTION DETAILS		Well Number: SG-119

DRILLING SUMMARY		<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>Flush Mount _____</p> <p>Protective Casing _____</p> <p>Top of Seal _____ (ft bgs)</p> <p>Top of Implant Screen _____ (ft bgs) _____ (ft bgs) Total Depth</p> </div> <div style="text-align: center;"> <p>Ground Level</p> <p>DIRECT PUSH BOREHOLE _____ 2.0 inch diameter _____ 8.0 feet length</p> <p>Top of Sand _____ 1.5 (ft. bgs)</p> <p>IMPLANT _____ 0.25 internal diameter _____ 0.5' length</p> </div> </div> <p style="margin-top: 20px;">NOT TO SCALE</p>	
Geologist: M. Abdelaziz			
Drilling Company: Zebra Environmental Inc.			
Driller: Q. Brandt			
Rig Make/Model: Bobcat Geoprobe			
Date: 3/2/2012			
GEOLOGIC LOG		D E P T H (FT)	
Depth(ft.)	Description		
0.0-1.5 ft	Medium SAND, little silt and fine gravel		
1.5-8.0 ft	Fine SAND with SILT, little to trace clay and very fine gravel		
WELL DESIGN			
CASING MATERIAL		SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel grade box		Type: 6 inch stainless steel implant Pore Diameter: 0.007 inch	Type: #1 Sand
Monitor: 3/8 inch OD polyethylene tubing			SEAL MATERIAL Type: Bentonite Slurry
COMMENTS: Screen set from 2-2.5 ft bgs due to tight formation and moisture.		LEGEND <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Cement/Bentonite Grout</p> </div> <div style="text-align: center;"> <p>Bentonite Seal</p> </div> <div style="text-align: center;"> <p>Silica Sandpack</p> </div> </div>	
Client: NYSDEC		Former Klink Cosmo Cleaners	Project No.: 11176390.00002
URS Corporation		SOIL GAS IMPLANT CONSTRUCTION DETAILS	Well Number: SG-120

DRILLING SUMMARY		<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>Flush Mount _____</p> <p>Protective Casing _____</p> <p>Top of Seal _____ 0.5 (ft bgs)</p> <p>Top of Implant Screen _____ 2.0 (ft bgs) _____ 2.5 (ft bgs) Total Depth</p> </div> <div style="text-align: center;"> <p>Ground Level</p> <p>DIRECT PUSH BOREHOLE _____ 2.0 inch diameter _____ 8.0 feet length</p> <p>Top of Sand _____ 1.5 (ft. bgs)</p> <p>IMPLANT _____ 0.25 internal diameter _____ 0.5' length</p> </div> </div> <p style="margin-top: 20px;">NOT TO SCALE</p>			
Geologist: M. Abdelaziz					
Drilling Company: Zebra Environmental Inc.					
Driller: Q. Brandt					
Rig Make/Model: Bobcat Geoprobe					
Date: 3/2/2012					
GEOLOGIC LOG		D E P T H (FT)			
Depth(ft.)	Description				
0.0-1.0 ft	Fine SAND with SILT, trace fine gravel				
1.0-4.0 ft	Medium SAND with SILT, trace fine gravel				
4.0-5.0 ft	Medium SAND and very fine GRAVEL				
5.0-8.0 ft	Fine SAND and SILT, little to trace clay				
WELL DESIGN					
CASING MATERIAL		SCREEN MATERIAL		FILTER MATERIAL	
Surface: Steel grade box		Type: 6 inch stainless steel implant		Type: #1 Sand	
Monitor: 3/8 inch OD polyethylene tubing		Pore Diameter: 0.007 inch		SEAL MATERIAL	
				Type: Bentonite Slurry	
COMMENTS: Screen set from 2-2.5 ft bgs due to tight formation and moisture.				LEGEND <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;"> <p>Cement/Bentonite Grout</p> </div> <div style="text-align: center;"> <p>Bentonite Seal</p> </div> <div style="text-align: center;"> <p>Silica Sandpack</p> </div> </div>	
Client: NYSDEC		Former Klink Cosmo Cleaners		Project No.: 11176390.00002	
URS Corporation		SOIL GAS IMPLANT CONSTRUCTION DETAILS		Well Number: SG-121	

DRILLING SUMMARY		<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>Flush Mount _____</p> <p>Protective Casing _____</p> <p>Top of Seal _____ (ft bgs)</p> <p>Top of Implant Screen _____ (ft bgs) _____ (ft bgs) Total Depth</p> </div> <div style="text-align: center;"> <p>Ground Level</p> <p>DIRECT PUSH BOREHOLE _____ 2.0 inch diameter _____ 8.0 feet length</p> <p>Top of Sand _____ 1.5 (ft. bgs)</p> <p>IMPLANT _____ 0.25 internal diameter _____ 0.5' length</p> </div> </div> <p style="margin-top: 20px;">NOT TO SCALE</p>	
Geologist: M. Abdelaziz			
Drilling Company: Zebra Environmental Inc.			
Driller: Q. Brandt			
Rig Make/Model: Bobcat Geoprobe			
Date: 3/2/2012			
GEOLOGIC LOG		D E P T H (FT)	
Depth(ft.)	Description		
0.0-1.5 ft	Medium SAND, some silt, very fine gravel, glass and brick		
1.5-3.0 ft	Fine SAND with SILT, little clay		
3.0-8.0 ft	Medium SAND, some silt, trace to little clay		
WELL DESIGN			
CASING MATERIAL		SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel grade box		Type: 6 inch stainless steel implant	Type: #1 Sand
Monitor: 3/8 inch OD polyethylene tubing		Pore Diameter: 0.007 inch	SEAL MATERIAL Type: Bentonite Slurry
COMMENTS: Screen set from 2-2.5 ft bgs due to tight formation and moisture.			LEGEND <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background-color: #cccccc; border: 1px solid black;"></div> <div>Cement/Bentonite Grout</div> </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background-color: #000000; border: 1px solid black;"></div> <div>Bentonite Seal</div> </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background-color: #e0e0e0; border: 1px solid black;"></div> <div>Silica Sandpack</div> </div>
Client: NYSDEC		Former Klink Cosmo Cleaners	Project No.: 11176390.00002
URS Corporation		SOIL GAS IMPLANT CONSTRUCTION DETAILS	Well Number: SG-122

APPENDIX F

SUMMA CANISTER SAMPLING FIELD DATA SHEETS

RI PHASE I

Summa Canister Sampling Field Data Sheet

Site: Klink/Cosmo

Samplers: C. Friedman / D. Swain

Date: 6/13/2011

Sample #	SG-55	SG-79	SG-78	AA-061311	SG-19
Location	Porter/Division	Division	Porter	Northside of Porter in front of old gas holder	In front of 137 Beadel
Summa Canister ID	843	1695	1497	1074	707
Flow Controller ID	FC246	FC0422	FC 170	FC0190	FC173
Additional Tubing Added	NO/ YES - How much 1ft	NO/ YES - How much 1ft	NO/ YES - How much 1ft	NO / YES - How much	NO/ YES - How much 1 ft
Purge Time (Start)	1012	1022	1031		1207
Purge Time (Stop)	1013	1023	1032		1208
Total Purge Time (min)	1 min	1 min	1 min		1 min
Purge Volume					
PID Test of Purge Air	1.2	1.1	0.3		0.4
Initial Tracer Gas Results	0 ppm	0 ppm	0 ppm		0 ppm
Pressure Gauge - before sampling	-25	-29	-24	-28	-30
Sample Time (Start)	1016	1024	1034	1038	1215
Sample Time (Stop)	1115	1124	1129	1138	1314
Total Sample Time (min)	59 min	60 min	55 min	60 min	59 min
Pressure Gauge - after sampling	-3	-4	-2	-4	-4
Sample Volume					
Canister Pressure Went To Ambient Pressure?	YES / NO	YES / NO	YES / NO	YES / NO	YES / NO
Final Tracer Gas Results	0 ppm	0 ppm	0 ppm		0 ppm
Associated Ambient Air Sample Number	AA-061311	AA-061311	AA-061311		AA-061311
General Comments:					

Summa Canister Sampling Field Data Sheet

Site: Klink/Cosmo

Samplers: C. Friedman / D. Swain

Date: 6/13/2011

Sample #	SG-20	SG-21			
Location	In front of 126 Beadel	In front of 107 Beadel			
Summa Canister ID	1601	1553			
Flow Controller ID	FC0162	FC0185			
Additional Tubing Added	NO/ YES - How much 1ft	NO/ YES - How much 1ft	NO/ YES - How much 1ft	NO/ YES - How much 1ft	NO/ YES - How much 1ft
Purge Time (Start)	1222	1233			
Purge Time (Stop)	1223	1234			
Total Purge Time (min)	1 min	1 min			
Purge Volume					
PID Test of Purge Air	0.8	0.7			
Initial Tracer Gas Results	0 ppm	0 ppm			
Pressure Gauge - before sampling	-28	-29			
Sample Time (Start)	1225	1243			
Sample Time (Stop)	1325	1342			
Total Sample Time (min)	60 min	59 min			
Pressure Gauge - after sampling	-5	-1			
Sample Volume					
Canister Pressure Went To Ambient Pressure?	YES / NO	YES / NO	YES / NO	YES / NO	YES / NO
Final Tracer Gas Results	0 ppm	0 ppm			
Associated Ambient Air Sample Number	AA-061311	AA-061311			
General Comments:					

Summa Canister Sampling Field Data Sheet

Site: Klink/Cosmo

Samplers: C. Friedman / D. Swain

Date: 6/14/2011

Sample #	SG-62	AA-061411	SG-83	SG-82	SG-81
Location	Vandervoort	Corner of Division and Vandervoort on DEC-064D	Vandervoort	Vandervoort	Vandervoort
Summa Canister ID	186	1642	1658	1680	1046
Flow Controller ID	FC333	FC 383	FC0073	FC062	FC177
Additional Tubing Added	NO/ YES - How much 1ft	NO/ YES - How much 1ft	NO/ YES - How much 1ft	NO/ YES - How much 1ft	NO/ YES - How much 1ft
Purge Time (Start)	739		823	834	906
Purge Time (Stop)	740		825	836	908
Total Purge Time (min)	1 min		2 min	2 min	2 min
Purge Volume					
PID Test of Purge Air	2.3		0	2.2	2.1
Initial Tracer Gas Results	0 ppm		475 ppm	0 ppm	25 ppm
Pressure Gauge - before sampling	-27.5	-28	-29	-30	-25
Sample Time (Start)	743	758	829	839	911
Sample Time (Stop)	843	857	928	939	1008
Total Sample Time (min)	59 min	59 min	59 min	60 min	57 min
Pressure Gauge - after sampling	-4	-3	-29	-3	0
Sample Volume			no sample likely		
Canister Pressure Went To Ambient Pressure?	YES / NO	YES / NO	YES / NO	YES / NO	YES / NO
Final Tracer Gas Results	0 ppm			0 ppm	0 ppm
Associated Ambient Air Sample Number	AA-061411		AA-061411	AA-061411	AA-061411
General Comments:					

Summa Canister Sampling Field Data Sheet

Site: Klink/Cosmo

Samplers: C. Friedman / D. Swain

Date: 6/14/2011

Sample #	SG-80	SG-60	SG-49	SG-48	DUP-061411
Location	Vandervoort	Vandervoort	Richardson	Vandervoort (Cooperage)	SG-60
Summa Canister ID	825	685	1590	1474	577
Flow Controller ID	FC0247	FC0109	FC087	FC391	FC0109
Additional Tubing Added	NO/ YES - How much 1ft	NO/ YES - How much 1ft	NO/ YES - How much 1ft	NO/ YES - How much 1ft	NO/ YES - How much 1ft
Purge Time (Start)	900	1021	1029	1035	1021
Purge Time (Stop)	902	1023	1031	1037	1023
Total Purge Time (min)	2 min	2 min	2 min	2 min	2 min
Purge Volume					
PID Test of Purge Air	1.7	21.9	0	0	21.9
Initial Tracer Gas Results	250 ppm	0 ppm	50 ppm	0 ppm	0 ppm
Pressure Gauge - before sampling	-29	-30	-30	-30	-30
Sample Time (Start)	904	1025	1033	1041	1025
Sample Time (Stop)	1003	1124	1133	1141	1124
Total Sample Time (min)	59 min	59 min	60 min	60 min	59 min
Pressure Gauge - after sampling	-2.5	-3	-4	-16	-3
Sample Volume					
Canister Pressure Went To Ambient Pressure?	YES / NO	YES / NO	YES / NO	YES / NO	YES / NO
Final Tracer Gas Results	200 ppm	0 ppm	0 ppm	25 ppm	0 ppm
Associated Ambient Air Sample Number	AA-061411	AA-061411	AA-061411	AA-061411	AA-061411
General Comments:					

Summa Canister Sampling Field Data Sheet

Site: Klink/Cosmo

Samplers: C. Friedman / D. Swain

Date: 6/14/2011

Sample #	SG-42	SG-44	SG-45	SG-46	DUP2-061411
Location	Vandervoort	Vandervoort	Vandervoort	Vandervoort	SG-46
Summa Canister ID	1353	706	153	1486	322
Flow Controller ID	FC282	FC 389	FC175	FC0331	FC0331
Additional Tubing Added	NO/ YES - How much 1ft	NO/ YES - How much 1ft	NO/ YES - How much 1ft	NO/ YES - How much 1ft	NO/ YES - How much 1ft
Purge Time (Start)	1245	1251	1258	1305	1305
Purge Time (Stop)	1247	1253	1300	1307	1307
Total Purge Time (min)	2 min	2 min	2 min	2 min	2 min
Purge Volume					
PID Test of Purge Air	43.8	0.7	1.9	0.1	0.1
Initial Tracer Gas Results	0 ppm	0 ppm	150 ppm	0 ppm	0 ppm
Pressure Gauge - before sampling	-27	-30	-30	-25	-25
Sample Time (Start)	1247	1253	1301	1309	1309
Sample Time (Stop)	1347	1353	1401	1359	1359
Total Sample Time (min)	55 min	60 min	60 min	50 min	50 min
Pressure Gauge - after sampling	-2.5	-2.5	-5	-2	-2
Sample Volume					
Canister Pressure Went To Ambient Pressure?	YES / NO	YES / NO	YES / NO	YES / NO	YES / NO
Final Tracer Gas Results	0 ppm	0 ppm	0 ppm	0 ppm	0 ppm
Associated Ambient Air Sample Number	AA-061411	AA-061411	AA-061411	AA-061411	AA-061411
General Comments:					

Summa Canister Sampling Field Data Sheet

Site: Klink/Cosmo

Samplers: C. Friedman / D. Swain

Date: 6/15/2011

Sample #	SG-84	SG-58	SG-85	SG-86	DUP-061511
Location	Richardson	Richardson	Richardson	Richardson	SG-58
Summa Canister ID	1280	421	1519	67	1490
Flow Controller ID	FC387	FC390	FC064	FC191	FC390
Additional Tubing Added	NO/ YES - How much 1ft	NO/ YES - How much 1ft	NO/ YES - How much 1ft	NO/ YES - How much 1ft	NO/ YES - How much 1ft
Purge Time (Start)	758	754	741	735	754
Purge Time (Stop)	800	756	743	737	756
Total Purge Time (min)	2 min	2 min	2 min	2 min	2 min
Purge Volume					
PID Test of Purge Air	1.6	2	5.5	1.4	2
Initial Tracer Gas Results	0 ppm	0 ppm	300 ppm	0 ppm	0 ppm
Pressure Gauge - before sampling	-28	-27.5	-30	-28	-27.5
Sample Time (Start)	804	756	749	738	756
Sample Time (Stop)	901	853	847	835	853
Total Sample Time (min)	57 min	57 min	58 min	57 min	57 min
Pressure Gauge - after sampling	-2	-2	-2	-2	-2
Sample Volume					
Canister Pressure Went To Ambient Pressure?	YES / NO	YES / NO	YES / NO	YES / NO	YES / NO
Final Tracer Gas Results	0 ppm	0 ppm	175 ppm	0 ppm	0 ppm
Associated Ambient Air Sample Number	AA-061511	AA-061511	AA-061511	AA-061511	AA-061511
General Comments:					

Summa Canister Sampling Field Data Sheet

Site: Klink/Cosmo

Samplers: C. Friedman / D. Swain

Date: 6/15/2011

Sample #	SG-57	SG-87	SG-59	SG-61	AA-061511
Location	Morgan	Morgan	Morgan	Morgan	On Morgan across street from fire hydrant (btw Division and Richardson)
Summa Canister ID	965	1505	1744	1591	35
Flow Controller ID	FC059	FC326	FC108	FC403	FC420
Additional Tubing Added	NO/ YES - How much 1ft	NO/ YES - How much 1ft	NO/ YES - How much 1ft	NO/ YES - How much 1ft	NO / YES - How much
Purge Time (Start)	918	926	934	944	
Purge Time (Stop)	920	928	936	946	
Total Purge Time (min)	2 min	2 min	2 min	2 min	
Purge Volume					
PID Test of Purge Air	2	4.5	0.6	10.1	
Initial Tracer Gas Results	100 ppm	50 ppm	200 ppm	0 ppm	
Pressure Gauge - before sampling	-29	-29	-30	-25	-30
Sample Time (Start)	922	931	937	946	951
Sample Time (Stop)	1022	1031	1037	1043	1051
Total Sample Time (min)	60 min	60 min	60 min	57 min	60 min
Pressure Gauge - after sampling	-17	-2.5	-4	-5	-11
Sample Volume					
Canister Pressure Went To Ambient Pressure?	YES / NO	YES / NO	YES / NO	YES / NO	YES / NO
Final Tracer Gas Results	100 ppm	50 ppm	50 ppm	0 ppm	
Associated Ambient Air Sample Number	AA-061511	AA-061511	AA-061511	AA-061511	
General Comments:					

Summa Canister Sampling Field Data Sheet

Site: Klink/Cosmo

Samplers: C. Friedman / D. Swain

Date: 6/15/2011

Sample #	SG-43	SG-18	SG-47	SG-56	SG-63
Location	Vandervoort	Vandervoort	Division	Division	Withers
Summa Canister ID	1283	1607	1640	1228	139
Flow Controller ID	FC194	FC159	FC186	FC065	FC0382
Additional Tubing Added	NO/ YES - How much 1ft	NO/ YES - How much 1ft	NO/ YES - How much 1ft	NO/ YES - How much 1ft	NO/ YES - How much 1ft
Purge Time (Start)	1140	1217	1223	1231	1355
Purge Time (Stop)	1142	1219	1225	1233	1357
Total Purge Time (min)	2 min	2 min	2 min	2 min	2 min
Purge Volume					
PID Test of Purge Air	VOC = 1.2, LEL = 60	2.1	0	0	0
Initial Tracer Gas Results	150 ppm	0 ppm	25 ppm	250 ppm	6000 ppm
Pressure Gauge - before sampling	-29	-29	-28	-25.5	-29
Sample Time (Start)	1147	1219	1226	1234	1413
Sample Time (Stop)	1247	1319	1326	1334	1508
Total Sample Time (min)	60 min	60 min	60 min	60 min	55 min
Pressure Gauge - after sampling	-3	-3	-14.5	-13	-2
Sample Volume					
Canister Pressure Went To Ambient Pressure?	YES / NO	YES / NO	YES / NO	YES / NO	YES / NO
Final Tracer Gas Results	150 ppm	0 ppm	25 ppm	250 ppm	5600 ppm
Associated Ambient Air Sample Number	AA-061511	AA-061511	AA-061511	AA-061511	AA-061511
General Comments:					

Summa Canister Sampling Field Data Sheet

Site: Klink/Cosmo

Samplers: C. Friedman / D. Swain

Date: 6/15/2011

Sample #	DUP2-061511				
Location	SG-63				
Summa Canister ID	1291				
Flow Controller ID	FC0382				
Additional Tubing Added	NO/ YES - How much 1ft	NO/ YES - How much 1ft	NO/ YES - How much 1ft	NO/ YES - How much 1ft	NO/ YES - How much 1ft
Purge Time (Start)	1355				
Purge Time (Stop)	1357				
Total Purge Time (min)	2 min				
Purge Volume					
PID Test of Purge Air	0				
Initial Tracer Gas Results	6000 ppm				
Pressure Gauge - before sampling	-29				
Sample Time (Start)	1413				
Sample Time (Stop)	1508				
Total Sample Time (min)	55 min				
Pressure Gauge - after sampling	-2				
Sample Volume					
Canister Pressure Went To Ambient Pressure?	YES / NO	YES / NO	YES / NO	YES / NO	YES / NO
Final Tracer Gas Results	5600 ppm				
Associated Ambient Air Sample Number	AA-061511				
General Comments:					

RI PHASE II

Summa Canister Sampling Field Data Sheet

Site: Klink Cosmo
 Samplers: Mira Abdelaziz and Tim Ifkovich
 Date: 3/5/2012

Sample #	SG-048	SG-114	SG-116	SG-117	SG-060
Location	Vandervoort & Division	Vandervoort	Vandervoort	Vandervoort	Vandervoort
Summa Canister ID	946	1662	0852	735	1280
Flow Controller ID	0424	0166	0330	0177	0183
Additional Tubing Added	No/ YES - How much 1ft	No/ YES - How much 1ft	No/ YES - How much 1ft	No/ YES - How much 1ft	No/ YES - How much 1ft
Purge Time (Start)	820	850	902	910	1007
Purge Time (Stop)	825	855	907	915	1012
Total Purge Time (min)	5	5	5	5	5
Purge Volume (L)	2	2	2	2	2
PID Test of Purge Air (ppm)	0.0	0.0	91.3	78.0	16.1
Initial Tracer Gas Results	0.0	0.0	0.0	0.0	0.0
Pressure Gauge - before sampling	-30	-30	-28	-30	-29
Sample Time (Start)	827	857	909	922	1012
Sample Time (Stop)	924	945	950	1003	1104
Total Sample Time (min)	57	48	41	41	52
Pressure Gauge - after sampling	-4	-5	-5	-5	-4
Sample Volume (L)	6	6	6	6	6
Canister Pressure Went To Ambient Pressure?	YES / NO	YES / NO	YES / NO	YES / NO	YES / NO
Final Tracer Gas Results	NA	NA	NA	NA	NA
Associated Ambient Air Sample Number	AA-03052012-1	AA-03052012-1	AA-03052012-1	AA-03052012-1	AA-03052012-1
General Comments:					

Summa Canister Sampling Field Data Sheet

Site:	Klink Cosmo
Samplers:	Mira Abdelaziz and Tim Ifkovich
Date:	3/5/2012

Sample #	SG-119	SG-121	SG-062	SG-118	SG-115
Location	Vandervoort	Vandervoort	Vandervoort	Vandervoort	Vandervoort
Summa Canister ID	1572	1207	1049	1260	840
Flow Controller ID	0186	0061	0200	0073	0421
Additional Tubing Added	No/ YES - How much 1ft	No/ YES - How much 1ft	No/ YES - How much 1ft	No/ YES - How much 1ft	No/ YES - How much 1ft
Purge Time (Start)	1020	1042	1058	1117	1142
Purge Time (Stop)	1025	1047	1103	1122	1147
Total Purge Time (min)	5	5	5	5	5
Purge Volume (L)	2	2	2	2	2
PID Test of Purge Air (ppm)	28.4	10.8	6.5	9.8	17.5
Initial Tracer Gas Results	0.0	0.0	0.0	0.0	0.0
Pressure Gauge - before sampling	-28	-28	-28	-30	-28
Sample Time (Start)	1030	1046	1104	1123	1148
Sample Time (Stop)	1130	1150	1201	1207	1230
Total Sample Time (min)	60	64	57	44	42
Pressure Gauge - after sampling	-5	-5	-4	-4	-4
Sample Volume (L)	6	6	6	6	6
Canister Pressure Went To Ambient Pressure?	YES / NO	YES / NO	YES / NO	YES / NO	YES / NO
Final Tracer Gas Results	NA	NA	NA	NA	NA
Associated Ambient Air Sample Number	AA-03052012-1	AA-03052012-1	AA-03052012-1	AA-03052012-1	AA-03052012-1
General Comments:					

Summa Canister Sampling Field Data Sheet

Site: Klink Cosmo
 Samplers: Mira Abdelaziz and Tim Ifkovich
 Date: 3/5/2012

Sample #	SG-083	SG-082	FD-03052012-1	AA-03052012-1	SG-081
Location	Vandervoort	Vandervoort	SG-082	Vandervoort	Vandervoort
Summa Canister ID	2016	0819	1258	956	964
Flow Controller ID	0162	0072	0072	0065	0212
Additional Tubing Added	No/ YES - How much 1ft	No/ YES - How much 1ft	No/ YES - How much 1ft	NO YES - How much	No/ YES - How much 1ft
Purge Time (Start)	1158	1329	1329	--	1348
Purge Time (Stop)	1203	1334	1334	--	1353
Total Purge Time (min)	5	5	5	--	5
Purge Volume (L)	2	2	2	--	2
PID Test of Purge Air (ppm)	13.9	8.6	8.6	--	3.8
Initial Tracer Gas Results	0.0	0.0	0.0	--	0.0
Pressure Gauge - before sampling	-29	-29	-29	-25	-30
Sample Time (Start)	1209	1338	1338	1335	1354
Sample Time (Stop)	1306	1418	1418	1422	1454
Total Sample Time (min)	57	40	40	47	60
Pressure Gauge - after sampling	-5	-4	-4	-5	-5
Sample Volume (L)	6	6	6	6	6
Canister Pressure Went To Ambient Pressure?	YES / NO	YES / NO	YES / NO	YES / NO	YES / NO
Final Tracer Gas Results	NA	NA	NA	NA	NA
Associated Ambient Air Sample Number	AA-03052012-1	AA-03052012-1	AA-03052012-1	NA	AA-03052012-1
General Comments:	SG-082 - A "T" was used to collect field duplicate.				

Summa Canister Sampling Field Data Sheet

Site:	Klink Cosmo
Samplers:	Mira Abdelaziz and Tim Ifkovich
Date:	3/5/2012

Sample #	SG-080				
Location	Vandervoort				
Summa Canister ID	1271				
Flow Controller ID	0331				
Additional Tubing Added	No/ YES - How much 1ft				
Purge Time (Start)	1400				
Purge Time (Stop)	1405				
Total Purge Time (min)	5				
Purge Volume (L)	2				
PID Test of Purge Air (ppm)	7.5				
Initial Tracer Gas Results	0.0				
Pressure Gauge - before sampling	-30				
Sample Time (Start)	1409				
Sample Time (Stop)	1509				
Total Sample Time (min)	60				
Pressure Gauge - after sampling	-4				
Sample Volume (L)	6				
Canister Pressure Went To Ambient Pressure?	YES / NO				
Final Tracer Gas Results	NA				
Associated Ambient Air Sample Number	AA-03052012-1				
General Comments:					

Summa Canister Sampling Field Data Sheet

Site:	Klink Cosmo
Samplers:	Mira Abdelaziz and Tim Ifkovich
Date:	3/6/2012

Sample #	SG-055	SG-079	SG-047	SG-113	SG-078
Location	Division	Division	Division	Division	Porter
Summa Canister ID	445	730	839	1516	--
Flow Controller ID	0283	0167	0087	0193	--
Additional Tubing Added	No/ YES - How much 1ft	No/ YES - How much 1ft	No/ YES - How much 1ft	No/ YES - How much 1ft	No/ YES - How much
Purge Time (Start)	749	800	817	832	935
Purge Time (Stop)	754	805	822	837	948
Total Purge Time (min)	5	5	5	5	13
Purge Volume (L)	2	2	2	2	3
PID Test of Purge Air (ppm)	0.0	0.0	0.0	0.6	1.4
Initial Tracer Gas Results	0.0	0.0	0.0	0.0	3.2 %
Pressure Gauge - before sampling	-29	-28	-29	-30	--
Sample Time (Start)	755	810	827	839	--
Sample Time (Stop)	845	858	915	923	--
Total Sample Time (min)	50	48	48	44	--
Pressure Gauge - after sampling	-4	-4	-3	-4	--
Sample Volume (L)	6 L	6 L	6 L	6 L	--
Canister Pressure Went To Ambient Pressure?	YES / NO	YES / NO	YES / NO	YES / NO	YES / NO
Final Tracer Gas Results	NA	NA	NA	NA	NA
Associated Ambient Air Sample Number	AA-03062012-1	AA-03062012-1	AA-03062012-1	AA-03062012-1	AA-03062012-1
General Comments:	SG-078 - Not sampled due to high tracer gas concentrations found in purge air.				

Summa Canister Sampling Field Data Sheet

Site: Klink Cosmo
 Samplers: Mira Abdelaziz and Tim Ifkovich
 Date: 3/6/2012

Sample #	SG-019	FD-03062012-1	SG-020	SG-021	SG-044
Location	Beadle	SG-019	Beadle	Beadle	Vandervoort
Summa Canister ID	1583	1561	872	521	123
Flow Controller ID	0420	0420	0180	0198	0422
Additional Tubing Added	No/ YES - How much 1ft	No/ YES - How much 1ft	No/ YES - How much 1ft	No/ YES - How much 1ft	No/ YES - How much 1ft
Purge Time (Start)	950	950	1010	1029	1052
Purge Time (Stop)	955	955	1015	1036	1057
Total Purge Time (min)	5	5	5	7	5
Purge Volume (L)	2	2	2	2	2
PID Test of Purge Air (ppm)	0.6	0.6	0.1	89.7	2.8
Initial Tracer Gas Results	0.0	0.0	0.0	0.0	0.0
Pressure Gauge - before sampling	-28	-28	-30	-26	-29
Sample Time (Start)	957	957	1015	1033	1058
Sample Time (Stop)	1039	1039	1104	1133	1147
Total Sample Time (min)	42	42	49	60	49
Pressure Gauge - after sampling	-4	-4	-5	-7	-4
Sample Volume (L)	6 L	6 L	6 L	6 L	6 L
Canister Pressure Went To Ambient Pressure?	YES / NO	YES / NO	YES / NO	YES / NO	YES / NO
Final Tracer Gas Results	NA	NA	NA	NA	NA
Associated Ambient Air Sample Number	AA-03062012-1	AA-03062012-1	AA-03062012-1	AA-03062012-1	AA-03062012-1
General Comments:	SG-019 - A "T" was used to collect field duplicate. SG-021 - Petroleum odor present upon opening the vapor point.				

Summa Canister Sampling Field Data Sheet

Site: Klink Cosmo
 Samplers: Mira Abdelaziz and Tim Ifkovich
 Date: 3/6/2012

Sample #	SG-045	SG-046	SG-042	AA-03062012-1	SG-043
Location	Vandervoort	Division & Vandervoort	Vandervoort	Vandervoort	Vandervoort
Summa Canister ID	1625	2057	1090	1584	--
Flow Controller ID	0184	0386	0188	0176	--
Additional Tubing Added	No/ YES - How much 1ft	No/ YES - How much 1ft	No/ YES - How much 1ft	No / YES - How much	No / YES - How much
Purge Time (Start)	1119	1130	1300	--	1322
Purge Time (Stop)	1124	1135	1305	--	1330
Total Purge Time (min)	5	5	5	--	8
Purge Volume (L)	2	2	2	--	3
PID Test of Purge Air (ppm)	0.5	1.1	0.9	--	0.0
Initial Tracer Gas Results	350 ppm	0.0	0.0	--	6.7 %
Pressure Gauge - before sampling	-30	-25	-30	-28	--
Sample Time (Start)	1126	1145	1305	1303	--
Sample Time (Stop)	1226	1247	1405	1350	--
Total Sample Time (min)	0	62	60	47	--
Pressure Gauge - after sampling	-30	-4	-7	-4	--
Sample Volume (L)	0	6	6	6	--
Canister Pressure Went To Ambient Pressure?	YES / NO	YES / NO	YES / NO	YES / NO	YES / NO
Final Tracer Gas Results	NA	NA	NA	NA	--
Associated Ambient Air Sample Number	AA-03062012-1	AA-03062012-1	AA-03062012-1	NA	AA-03062012-1
General Comments:	SG-045 - No sample collected. SKC pump turned off several times during purge, maybe bad seal. SG-043 - Not sampled due to high tracer gas concentrations found in purge air.				

Summa Canister Sampling Field Data Sheet

Site: Klink Cosmo
 Samplers: Mira Abdelaziz and Tim Ifkovich
 Date: 3/6/2012

Sample #	SG-018	SG-056	SG-112	SG-057	
Location	Vandervoort	Division	Division	Morgan	
Summa Canister ID	947	1270	1054	--	
Flow Controller ID	0187	0191	0245	--	
Additional Tubing Added	No/ YES - How much 1ft	No/ YES - How much 1ft	No/ YES - How much 1ft	No/ YES - How much	
Purge Time (Start)	1340	1411	1437	--	
Purge Time (Stop)	1345	1416	1442	--	
Total Purge Time (min)	5	5	5	--	
Purge Volume (L)	2	2	2	--	
PID Test of Purge Air (ppm)	0.5	4.8	5.6	--	
Initial Tracer Gas Results	325 ppm	0.0	175 ppm	--	
Pressure Gauge - before sampling	-30	-30	-28	--	
Sample Time (Start)	1348	1419	1443	--	
Sample Time (Stop)	1449	1514	1533	--	
Total Sample Time (min)	61	55	50	--	
Pressure Gauge - after sampling	-11	-5	-5	--	
Sample Volume (L)	6	6	6	--	
Canister Pressure Went To Ambient Pressure?	YES / NO	YES / NO	YES / NO	YES / NO	
Final Tracer Gas Results	NA	NA	NA	--	
Associated Ambient Air Sample Number	AA-03062012-1	AA-03062012-1	AA-03062012-1	AA-03062012-1	
General Comments:	SG-057 - Not sampled, water in well.				

Summa Canister Sampling Field Data Sheet

Site: Klink Cosmo
 Samplers: Mira Abdelaziz and Tim Ifkovich
 Date: 3/7/2012

Sample #	SG-049	FD-03072012-1	SG-084	SG-058	SG-085
Location	Vandervoort & Richardson	SG-049	Vandervoort & Richardson	Vandervoort & Richardson	Vandervoort & Richardson
Summa Canister ID	2051	2025	1515	0511	352
Flow Controller ID	0173	0173	0239	0282	0192
Additional Tubing Added	No/ YES - How much 1ft	No/ YES - How much 1ft	No/ YES - How much 1ft	No/ YES - How much 1ft	No/ YES - How much 1ft
Purge Time (Start)	730	730	746	807	836
Purge Time (Stop)	736	736	751	820	841
Total Purge Time (min)	6	6	5	13	5
Purge Volume (L)	2	2	2	3	2
PID Test of Purge Air (ppm)	31.6	31.6	21.7	12.1	9.1
Initial Tracer Gas Results	0.0	0.0	0.0	1900 ppm	0.0
Pressure Gauge - before sampling	-30	-30	-30	-27	-29
Sample Time (Start)	738	738	757	824	842
Sample Time (Stop)	829	829	851	916	937
Total Sample Time (min)	51	51	54	52	55
Pressure Gauge - after sampling	-5	-5	-4	-4	-4
Sample Volume (L)	6	6	6	6	6
Canister Pressure Went To Ambient Pressure?	YES / NO	YES / NO	YES / NO	YES / NO	YES / NO
Final Tracer Gas Results	NA	NA	NA	NA	NA
Associated Ambient Air Sample Number	AA-03072012-1	AA-03072012-1	AA-03072012-1	AA-03072012-1	AA-03072012-1
General Comments:	SG-049 - A "T" was used to collect field duplicate.				

Summa Canister Sampling Field Data Sheet

Site:	Klink Cosmo
Samplers:	Mira Abdelaziz and Tim Ifkovich
Date:	3/7/2012

Sample #	SG-086	AA-03072012-1	SG-087	SG-059	SG-120
Location	Richardson	Richardson	Morgan	Morgan	Morgan
Summa Canister ID	1265	1232	859	1212	0858
Flow Controller ID	0182	0195	0393	0199	0244
Additional Tubing Added	No/ YES - How much 1ft	No / YES - How much 1ft	No/ YES - How much 1ft	No/ YES - How much 1ft	No/ YES - How much 1ft
Purge Time (Start)	851	--	1001	1013	1058
Purge Time (Stop)	856	--	1006	1018	1103
Total Purge Time (min)	5	--	5	5	5
Purge Volume (L)	2	--	2	2	2
PID Test of Purge Air (ppm)	7.3	--	20.6	1.7	84.8
Initial Tracer Gas Results	0.0	--	0.0	0.0	0.0
Pressure Gauge - before sampling	-28	-28	-27	-30	-30
Sample Time (Start)	857	905	958	1019	1116
Sample Time (Stop)	942	956	1057	1120	1216
Total Sample Time (min)	45	51	59	61	60
Pressure Gauge - after sampling	-3	-4	-4	-2	-6
Sample Volume (L)	6	6	6	6	6
Canister Pressure Went To Ambient Pressure?	YES / NO	YES / NO	YES / NO	YES / NO	YES / NO
Final Tracer Gas Results	NA	NA	NA	NA	NA
Associated Ambient Air Sample Number	AA-03072012-1	NA	AA-03072012-1	AA-03072012-1	AA-03072012-1
General Comments:					

Summa Canister Sampling Field Data Sheet

Site: Klink Cosmo
 Samplers: Mira Abdelaziz and Tim Ifkovich
 Date: 3/7/2012

Sample #	FD-03072012-2	SG-061R	SG-122	SG-063	
Location	SG-120	Morgan	Morgan	Withers	
Summa Canister ID	504	595	1502	1235	
Flow Controller ID	0071	0060	0059	0243	
Additional Tubing Added	No/ YES - How much 1ft	No/ YES - How much 1ft	No/ YES - How much 1ft	No/ YES - How much 1ft	
Purge Time (Start)	1058	1133	1154	1241	
Purge Time (Stop)	1103	1138	1159	1246	
Total Purge Time (min)	5	5	5	5	
Purge Volume (L)	2	2	2	2	
PID Test of Purge Air (ppm)	84.8	435.0	475.0	6.5	
Initial Tracer Gas Results	0.0	0.0	19500 ppm	7800 ppm	
Pressure Gauge - before sampling	-28	-30	-30	-28	
Sample Time (Start)	1116	1139	1203	1247	
Sample Time (Stop)	1216	1231	1303	1324	
Total Sample Time (min)	60	52	60	40	
Pressure Gauge - after sampling	-6	-2	-5	-4	
Sample Volume (L)	6	6	6	6	
Canister Pressure Went To Ambient Pressure?	YES / NO	YES / NO	YES / NO	YES / NO	
Final Tracer Gas Results	NA	NA	NA	NA	
Associated Ambient Air Sample Number	AA-03072012-1	AA-03072012-1	AA-03072012-1	AA-03072012-1	
General Comments:	SG-120 - A "T" was used to collect field duplicate.				

APPENDIX G

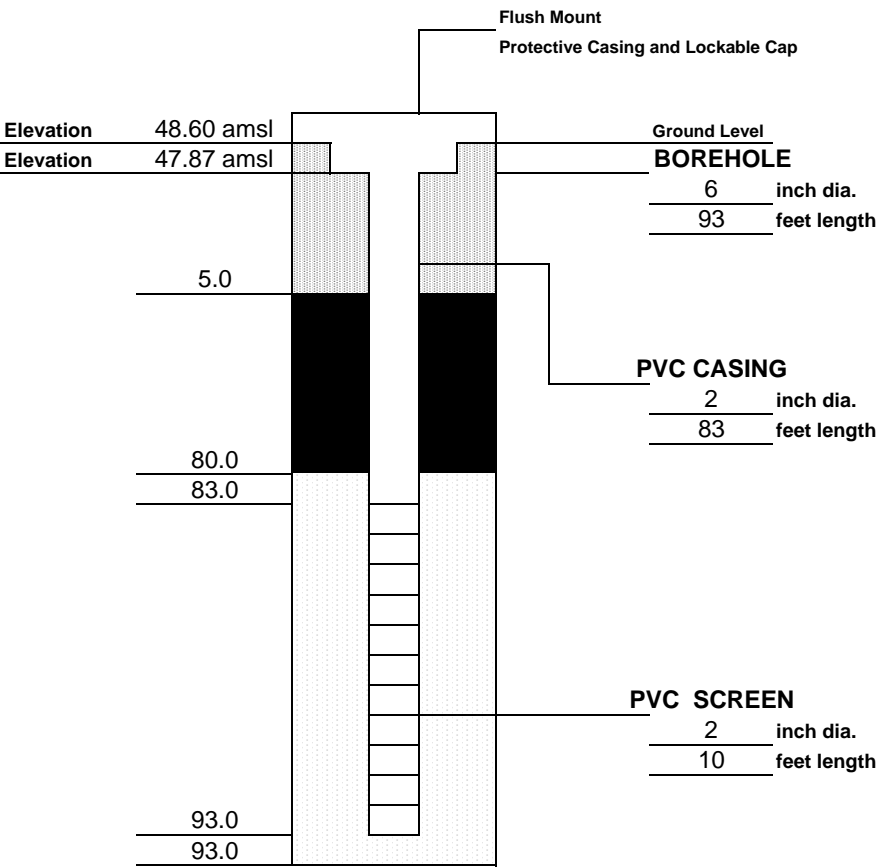
MONITORING WELL CONSTRUCTION LOGS

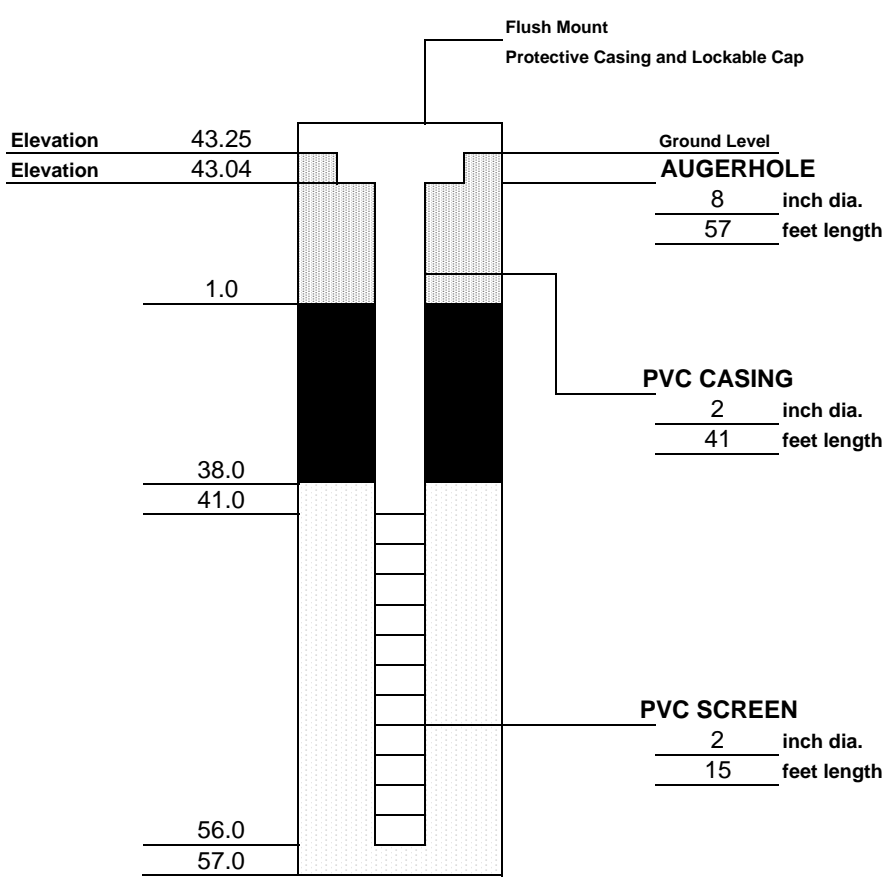
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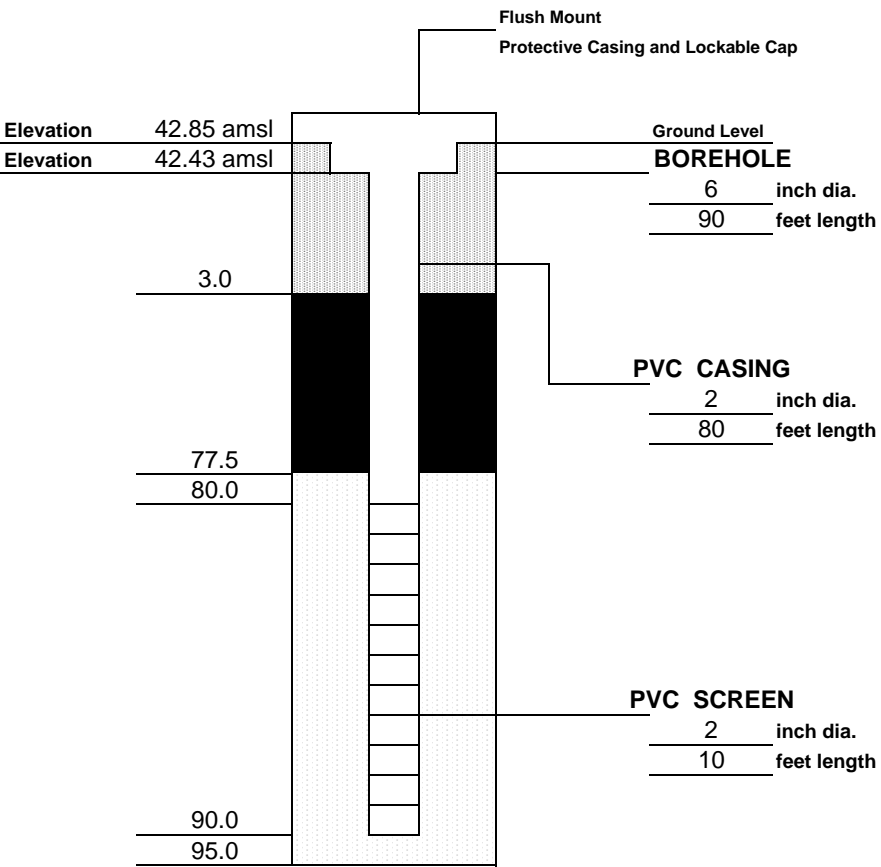
DRILLING SUMMARY		<div style="display: flex; align-items: center; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">DEPTH</div> </div>	
Geologist: CR			
Drilling Company: ADT			
Driller: Jeremy			
Rig Make/Model: CME 55LC			
Date: 6/13-14/2007			
GEOLOGIC LOG		Flush Mount Protective Casing and Lockable Cap	
Depth(ft.)	Description	Elevation 39.26	Ground Level AUGERHOLE <div style="border: 1px solid black; padding: 2px; display: inline-block;">8 inch dia.</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">52 feet length</div>
	See Boring Log.	0.5'	PVC CASING <div style="border: 1px solid black; padding: 2px; display: inline-block;">2 inch dia.</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">36 feet length</div>
		35'	
		36'	
			PVC SCREEN <div style="border: 1px solid black; padding: 2px; display: inline-block;">2 inch dia.</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">15 feet length</div>
		51'	
		52'	
WELL DESIGN			
CASING MATERIAL		SCREEN MATERIAL	
Surface: Steel grade box		Type: 2" PVC	
Monitor: 2" PVC		Slot Size: .020"	
COMMENTS:		FILTER MATERIAL	
		Type: #2 Sand Setting:	
		SEAL MATERIAL	
		Type: Bentonite Setting:	
Elevation NAVD88		LEGEND	
		<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 10px; background-color: #cccccc; border: 1px solid black;"></div> Cement/Bentonite Grout </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 10px; background-color: #000000; border: 1px solid black;"></div> Bentonite Seal </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 10px; background-color: #ffffff; border: 1px solid black;"></div> Silica Sandpack </div>	
Client: NYSDEC		Location: Meeker Avenue	
Project No.: 11174989.00002			
URS Corporation		MONITORING WELL CONSTRUCTION DETAILS	
Well Number: DEC-04			

DRILLING SUMMARY		<div style="display: flex; align-items: center; justify-content: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-weight: bold; margin-right: 10px;">DEPTH</div> </div>	
Geologist: S.M.			
Drilling Company: ADT			
Driller: Tony			
Rig Make/Model: CME 55LC			
Date: 5/21/2007			
GEOLOGIC LOG			
Depth(ft.)	Description		
	See Boring Log.		
WELL DESIGN			
CASING MATERIAL		SCREEN MATERIAL	
Surface: Steel grade box		Type: 2" PVC	
Monitor: 2" PVC		Slot Size: .020"	
FILTER MATERIAL		SEAL MATERIAL	
Type: #2 Sand Setting:		Type: Bentonite Setting:	
COMMENTS:		LEGEND	
Elevation NAVD88		<div style="display: flex; align-items: center;"> <div style="width: 30px; height: 15px; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); border: 1px solid black; margin-right: 5px;"></div> Cement/Bentonite Grout </div>	
		<div style="display: flex; align-items: center;"> <div style="width: 30px; height: 15px; background-color: black; border: 1px solid black; margin-right: 5px;"></div> Bentonite Seal </div>	
		<div style="display: flex; align-items: center;"> <div style="width: 30px; height: 15px; background: radial-gradient(circle, black 1px, transparent 1px); background-size: 4px 4px; border: 1px solid black; margin-right: 5px;"></div> Silica Sandpack </div>	
Client: NYSDEC		Location: Meeker Ave.	
Project No.: 11174989.00002		Well Number:	
URS Corporation		MONITORING WELL CONSTRUCTION DETAILS	
		DEC-06	

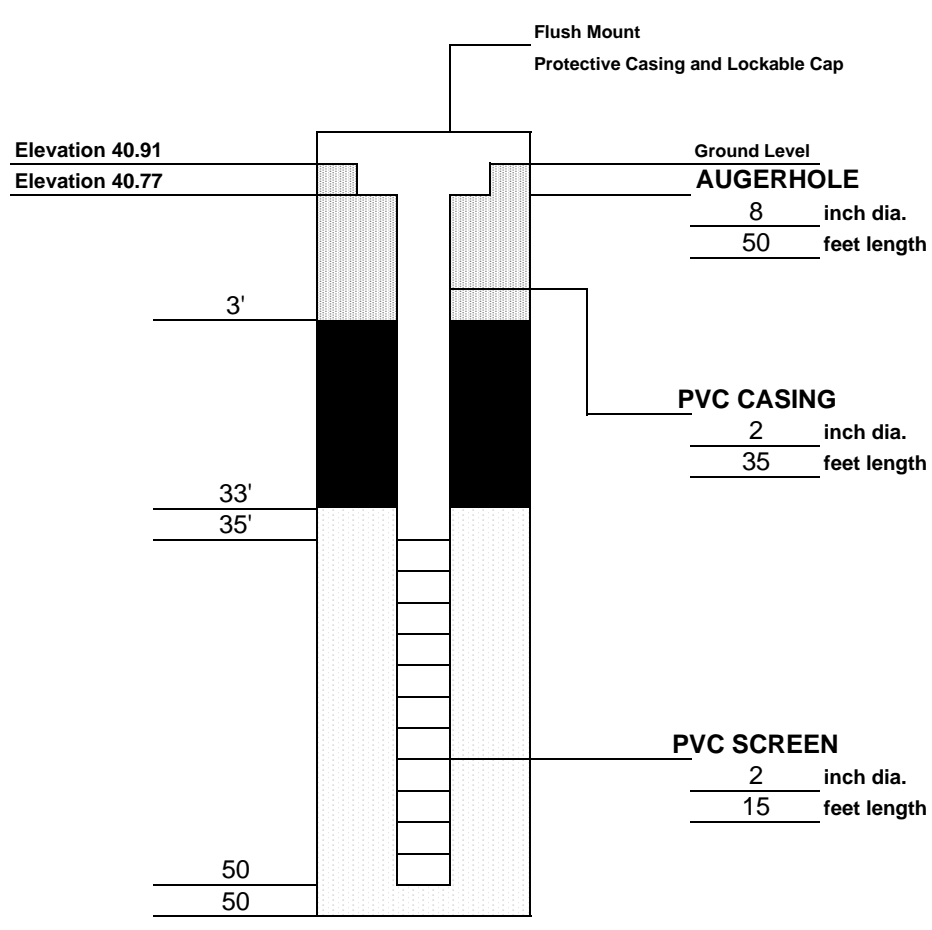
DRILLING SUMMARY																
Geologist: C. Friedman																
Drilling Company: Aquifer Drilling and Testing, Inc.																
Driller: Jeremy Meyers																
Rig Make/Model: CME-55 LC																
Date: 6/2/2008																
GEOLOGIC LOG																
Depth(ft.)	Description															
	See Boring Log for Lithologic Description.															
WELL DESIGN																
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>DEPTH (FT)</p> <p>48.81</p> <p>48.49</p> <p>2.0</p> <p>46.0</p> <p>48.0</p> <p>58.0</p> <p>58.0</p> </div> <div style="width: 35%; text-align: center;"> <p>Flush Mount</p> <p>Protective Casing and Lockable Cap</p> <p>AUGERHOLE</p> <p>8 inch dia.</p> <p>58 feet length</p> <p>PVC CASING</p> <p>2 inch dia.</p> <p>48 feet length</p> <p>PVC SCREEN</p> <p>2 inch dia.</p> <p>10 feet length</p> </div> <div style="width: 30%; text-align: right;"> <p>Ground Level</p> </div> </div>																
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">CASING MATERIAL</th> <th style="width: 33%;">SCREEN MATERIAL</th> <th style="width: 33%;">FILTER MATERIAL</th> </tr> </thead> <tbody> <tr> <td> Surface: Steel grade box Monitor: 2" PVC </td> <td> Type: 2" PVC Slot Size: .020" </td> <td> Type: #2 Sand Setting: 46.0-58.0' <hr/> SEAL MATERIAL Type: Bentonite Setting: 2.0-46.0' </td> </tr> <tr> <td colspan="2"> COMMENTS: </td> <td> LEGEND <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 20px; height: 10px; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); border: 1px solid black; margin-right: 5px;"></div> Cement/Bentonite Grout </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 20px; height: 10px; background-color: black; border: 1px solid black; margin-right: 5px;"></div> Bentonite Seal </div> <div style="display: flex; align-items: center;"> <div style="width: 20px; height: 10px; background: radial-gradient(circle, black 1px, transparent 1px); background-size: 4px 4px; border: 1px solid black; margin-right: 5px;"></div> Silica Sandpack </div> </td> </tr> <tr> <td> Client: NYSDEC </td> <td> Location : Meeker Avenue Site </td> <td> Project No.: 11174989.00002 </td> </tr> <tr> <td> URS Corporation </td> <td> MONITORING WELL CONSTRUCTION DETAILS </td> <td> Well Number: DEC-006D </td> </tr> </tbody> </table>		CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL	Surface: Steel grade box Monitor: 2" PVC	Type: 2" PVC Slot Size: .020"	Type: #2 Sand Setting: 46.0-58.0' <hr/> SEAL MATERIAL Type: Bentonite Setting: 2.0-46.0'	COMMENTS:		LEGEND <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 20px; height: 10px; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); border: 1px solid black; margin-right: 5px;"></div> Cement/Bentonite Grout </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 20px; height: 10px; background-color: black; border: 1px solid black; margin-right: 5px;"></div> Bentonite Seal </div> <div style="display: flex; align-items: center;"> <div style="width: 20px; height: 10px; background: radial-gradient(circle, black 1px, transparent 1px); background-size: 4px 4px; border: 1px solid black; margin-right: 5px;"></div> Silica Sandpack </div>	Client: NYSDEC	Location : Meeker Avenue Site	Project No.: 11174989.00002	URS Corporation	MONITORING WELL CONSTRUCTION DETAILS	Well Number: DEC-006D
CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL														
Surface: Steel grade box Monitor: 2" PVC	Type: 2" PVC Slot Size: .020"	Type: #2 Sand Setting: 46.0-58.0' <hr/> SEAL MATERIAL Type: Bentonite Setting: 2.0-46.0'														
COMMENTS:		LEGEND <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 20px; height: 10px; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); border: 1px solid black; margin-right: 5px;"></div> Cement/Bentonite Grout </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 20px; height: 10px; background-color: black; border: 1px solid black; margin-right: 5px;"></div> Bentonite Seal </div> <div style="display: flex; align-items: center;"> <div style="width: 20px; height: 10px; background: radial-gradient(circle, black 1px, transparent 1px); background-size: 4px 4px; border: 1px solid black; margin-right: 5px;"></div> Silica Sandpack </div>														
Client: NYSDEC	Location : Meeker Avenue Site	Project No.: 11174989.00002														
URS Corporation	MONITORING WELL CONSTRUCTION DETAILS	Well Number: DEC-006D														

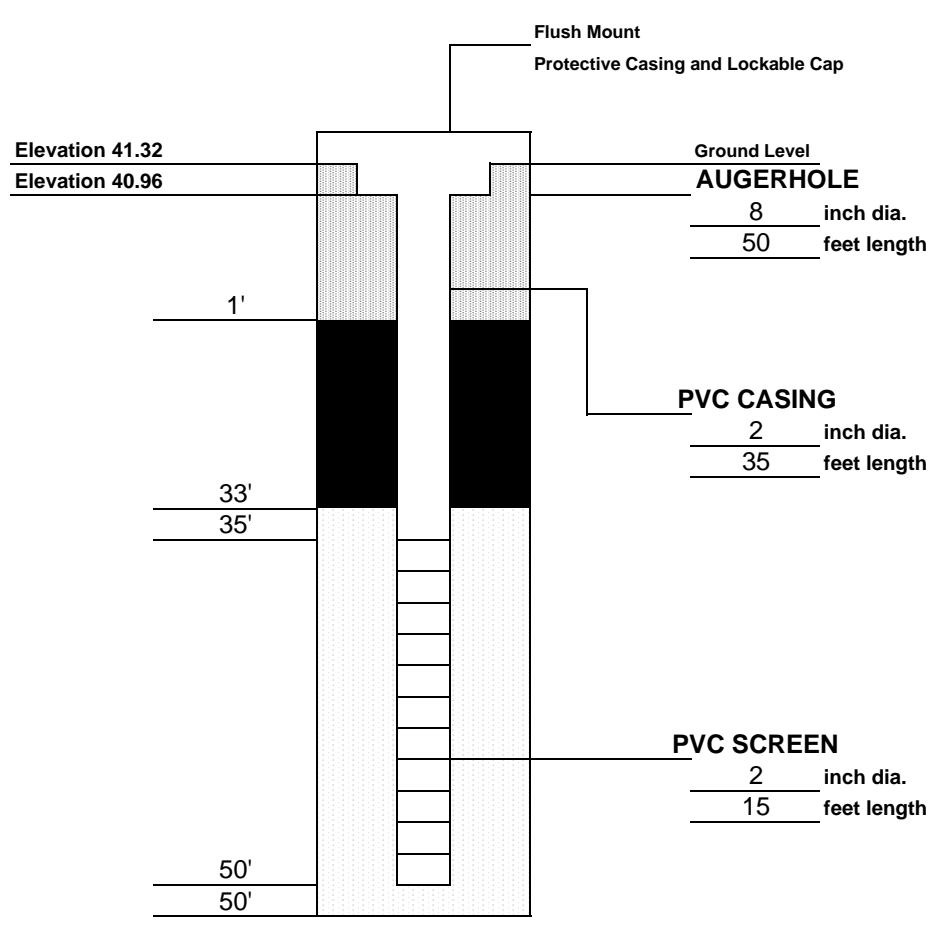
DRILLING SUMMARY		 <p style="text-align: center;">D E P T H (FT)</p>	
Geologist: C. Friedman			
Drilling Company: Aquifer Drilling and Testing, Inc.			
Driller: J. Meyers			
Rig Make/Model: AMSI 17-C Sonic			
Date: 5/20/2011			
GEOLOGIC LOG			
Depth(ft.)	Description		
	See Boring Log for Lithologic Description.		
WELL DESIGN			
CASING MATERIAL		SCREEN MATERIAL	
Surface: 8" Flush mount steel grade box	Type: 2" Schedule 40 PVC	FILTER MATERIAL	
Monitor: 2" Schedule 40 PVC	Slot Size: 0.010"	SEAL MATERIAL	
		Type: #1 Sand Setting: 80.0-93.0' Type: Benseal Setting: 5.0-80.0'	
COMMENTS:		LEGEND	
		<div style="display: flex; align-items: center;"> <div style="width: 30px; height: 15px; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); border: 1px solid black; margin-right: 5px;"></div> Cement/Bentonite Grout </div>	
		<div style="display: flex; align-items: center;"> <div style="width: 30px; height: 15px; background-color: black; border: 1px solid black; margin-right: 5px;"></div> Bentonite Seal </div>	
		<div style="display: flex; align-items: center;"> <div style="width: 30px; height: 15px; background: radial-gradient(circle, black 1px, transparent 1px); background-size: 4px 4px; border: 1px solid black; margin-right: 5px;"></div> Silica Sandpack </div>	
Client: NYSDEC		Former Klink Cosmo Cleaners	
URS Corporation		MONITORING WELL CONSTRUCTION DETAILS	
		Project No.: 11176390.00002	
		Well Number: DEC-006DD	

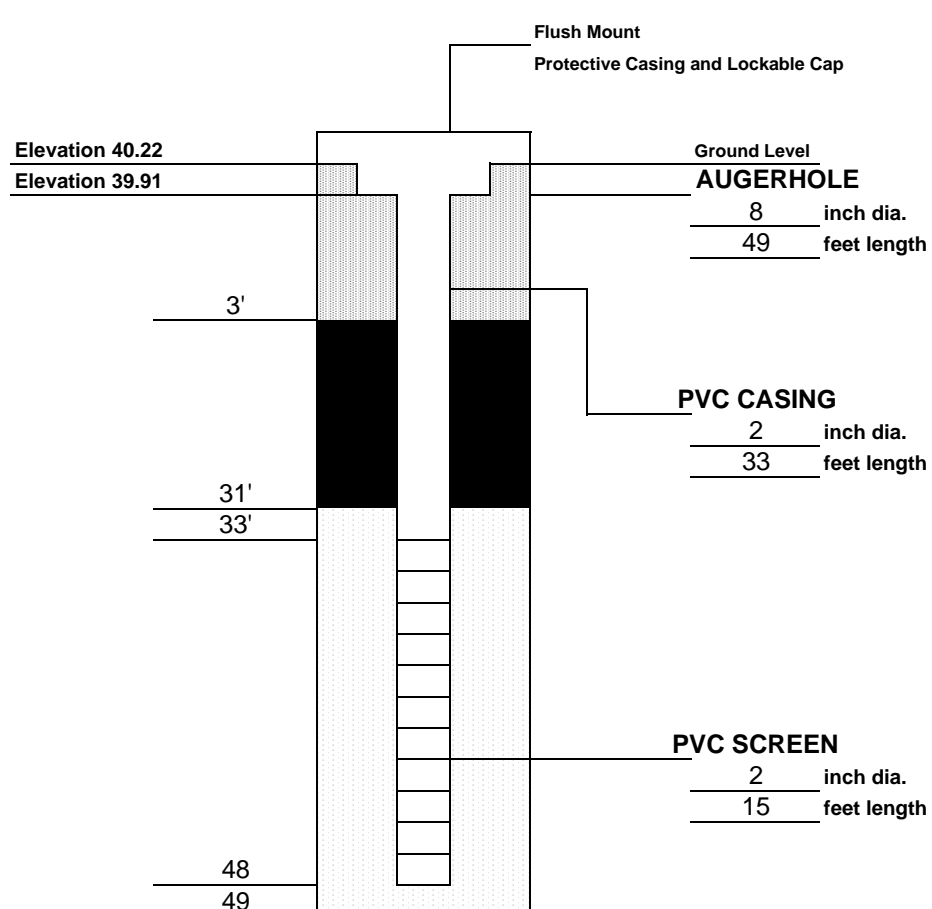
DRILLING SUMMARY		 <p style="text-align: center;">Flush Mount Protective Casing and Lockable Cap</p> <p style="text-align: center;">Ground Level</p> <p style="text-align: center;">AUGERHOLE 8 inch dia. 57 feet length</p> <p style="text-align: center;">PVC CASING 2 inch dia. 41 feet length</p> <p style="text-align: center;">PVC SCREEN 2 inch dia. 15 feet length</p>			
Geologist: S. McCabe					
Drilling Company: Aquifer Drilling and Testing, Inc.					
Driller: Jeremy Meyers					
Rig Make/Model: CME 55LC					
Date: 11/15/2007					
GEOLOGIC LOG		D E P T H (FT)			
Depth(ft.)	Description				
	See Boring Log for Lithologic Description.				
WELL DESIGN					
CASING MATERIAL		SCREEN MATERIAL		FILTER MATERIAL	
Surface: Steel grade box Monitor: 2" PVC		Type: 2" PVC Slot Size: .020"		Type: #2 Sand Setting: 38.0-57.0'	
				SEAL MATERIAL	
				Type: Bentonite Setting: 1.0-38.0'	
COMMENTS:				LEGEND	
				<div style="display: flex; align-items: center;"> <div style="width: 30px; height: 15px; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); border: 1px solid black; margin-right: 5px;"></div> Cement/Bentonite Grout </div>	
				<div style="display: flex; align-items: center;"> <div style="width: 30px; height: 15px; background-color: black; border: 1px solid black; margin-right: 5px;"></div> Bentonite Seal </div>	
				<div style="display: flex; align-items: center;"> <div style="width: 30px; height: 15px; background: radial-gradient(circle, black 1px, transparent 1px); background-size: 4px 4px; border: 1px solid black; margin-right: 5px;"></div> Silica Sandpack </div>	
Client: NYSDEC		Location : Meeker Avenue Site		Project No.: 11174989.00002	
URS Corporation		MONITORING WELL CONSTRUCTION DETAILS		Well Number: DEC-007	

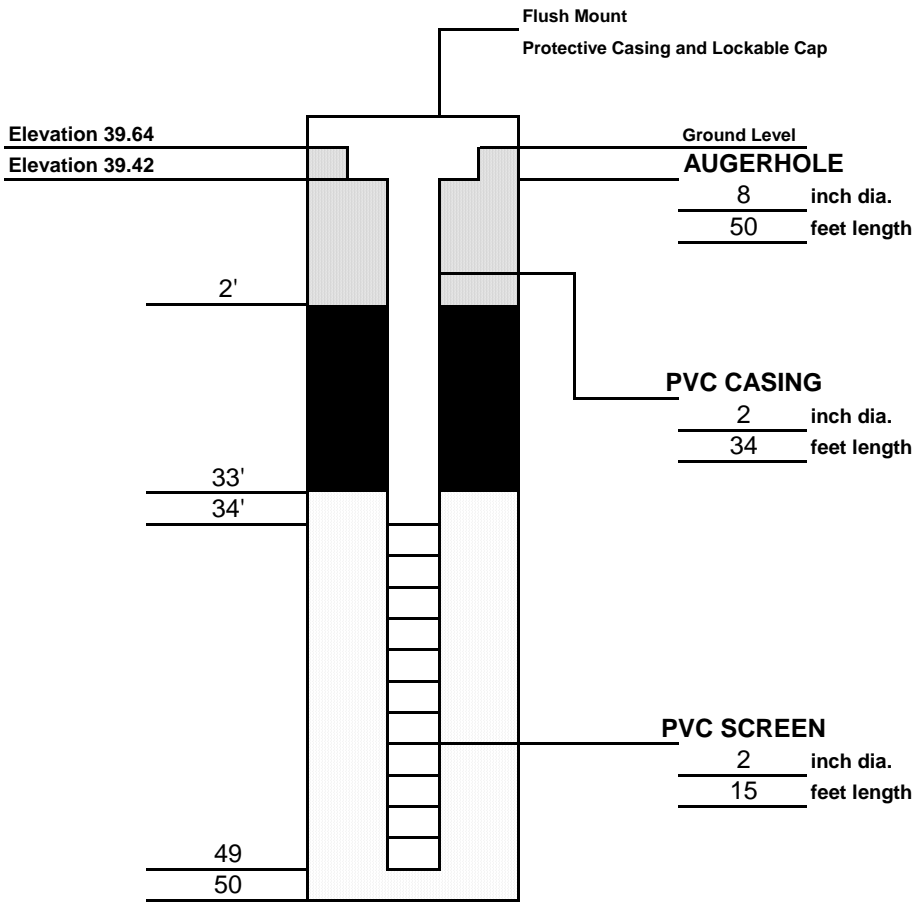
DRILLING SUMMARY		 <p style="text-align: center;">D E P T H (FT)</p>	
Geologist: C. Friedman			
Drilling Company: Aquifer Drilling and Testing, Inc.			
Driller: J. Meyers			
Rig Make/Model: AMSI 17-C Sonic			
Date: 5/18/2011			
GEOLOGIC LOG			
Depth(ft.)	Description		
	See Boring Log for Lithologic Description.		
WELL DESIGN			
CASING MATERIAL		SCREEN MATERIAL	
Surface: 8" Flush mount steel grade box	Type: 2" Schedule 40 PVC	FILTER MATERIAL	
Monitor: 2" Schedule 40 PVC	Slot Size: 0.010"	SEAL MATERIAL	
COMMENTS:		LEGEND	
		<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> Cement/Bentonite Grout </div> <div style="text-align: center;"> Bentonite Seal </div> <div style="text-align: center;"> Silica Sandpack </div> </div>	
Client: NYSDEC		Former Klink Cosmo Cleaners	
URS Corporation		MONITORING WELL CONSTRUCTION DETAILS	
		Project No.: 11176390.00002	
		Well Number: DEC-007D	

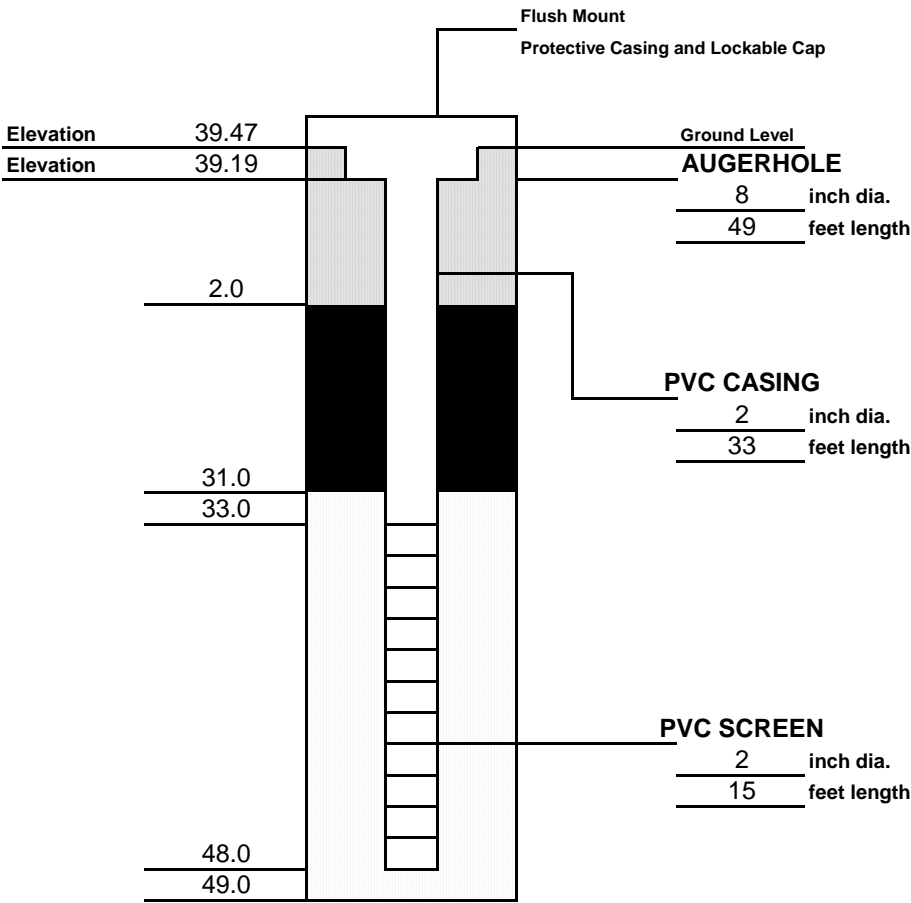
DRILLING SUMMARY		<div style="display: flex; align-items: center; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">DEPTH</div> </div>			
Geologist: C.R.					
Drilling Company: ADT					
Driller: Jeremy					
Rig Make/Model: CME 55LC					
Date: 5/30/2007					
GEOLOGIC LOG					
Depth(ft.)	Description				
	See Boring Log.				
WELL DESIGN					
CASING MATERIAL		SCREEN MATERIAL		FILTER MATERIAL	
Surface: Steel grade box Monitor: 2" PVC		Type: 2" PVC Slot Size: .020"		Type: #2 Sand Setting:	
				SEAL MATERIAL Type: Bentonite Setting:	
COMMENTS: Elevation NAVD88				LEGEND	
				<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; width: 50px; height: 15px; background-color: #cccccc;"></div> Cement/Bentonite Grout </div> <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; width: 50px; height: 15px; background-color: #000000;"></div> Bentonite Seal </div> <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; width: 50px; height: 15px; background-color: #ffffff;"></div> Silica Sandpack </div>	
Client: NYSDEC		Location: Meeker Ave.		Project No.: 11174989.00002	
URS Corporation		MONITORING WELL CONSTRUCTION DETAILS		Well Number: DEC-08	

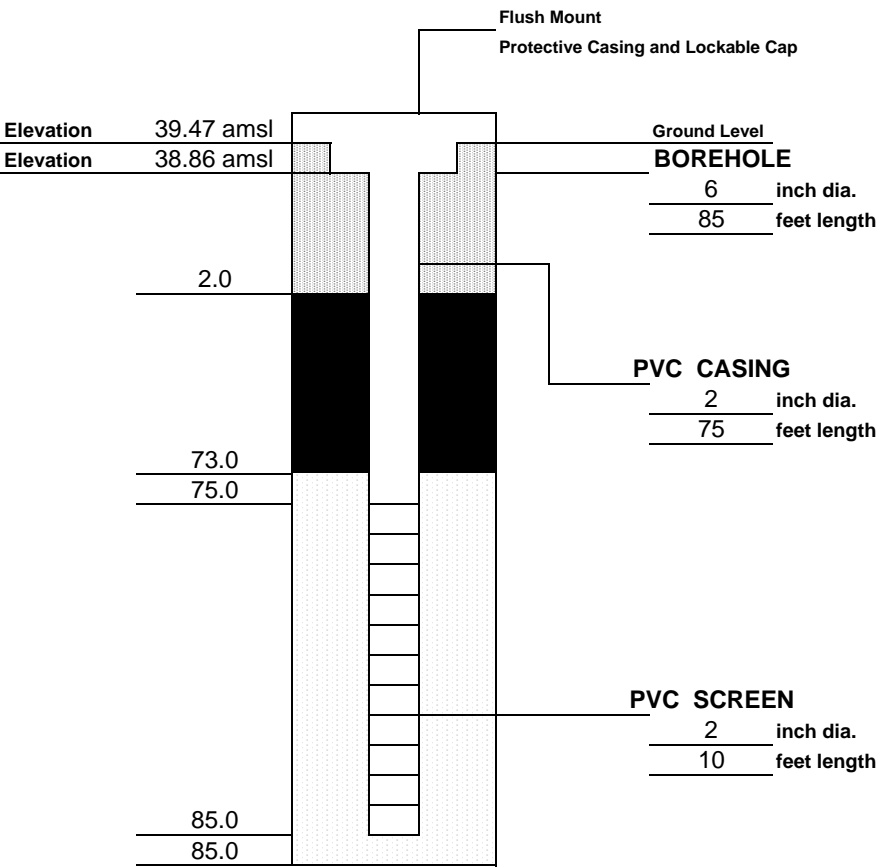
DRILLING SUMMARY		<div style="display: flex; align-items: center; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">DEPTH</div>  </div>	
Geologist: A.L.			
Drilling Company: ADT			
Driller: Jeremy			
Rig Make/Model: CME 55LC			
Date: 5/30/2007			
GEOLOGIC LOG			
Depth(ft.)	Description		
	See Boring Log.		
WELL DESIGN			
CASING MATERIAL		SCREEN MATERIAL	
Surface: Steel grade box		Type: 2" PVC	
Monitor: 2" PVC		Slot Size: .020"	
COMMENTS: Groundwater encountered @ 40' bgs. Elevation NAVD88		LEGEND	
		<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 30px; height: 10px; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); border: 1px solid black;"></div> Cement/Bentonite Grout </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 30px; height: 10px; background-color: black; border: 1px solid black;"></div> Bentonite Seal </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 30px; height: 10px; background: radial-gradient(circle, black 1px, transparent 1px); background-size: 4px 4px; border: 1px solid black;"></div> Silica Sandpack </div>	
Client: NYSDEC		Loc: Beadel b/t Morgan & Vandervoort	
Project No.: 11174989.00002		Well Number: DEC-09	
URS Corporation		MONITORING WELL CONSTRUCTION DETAILS	

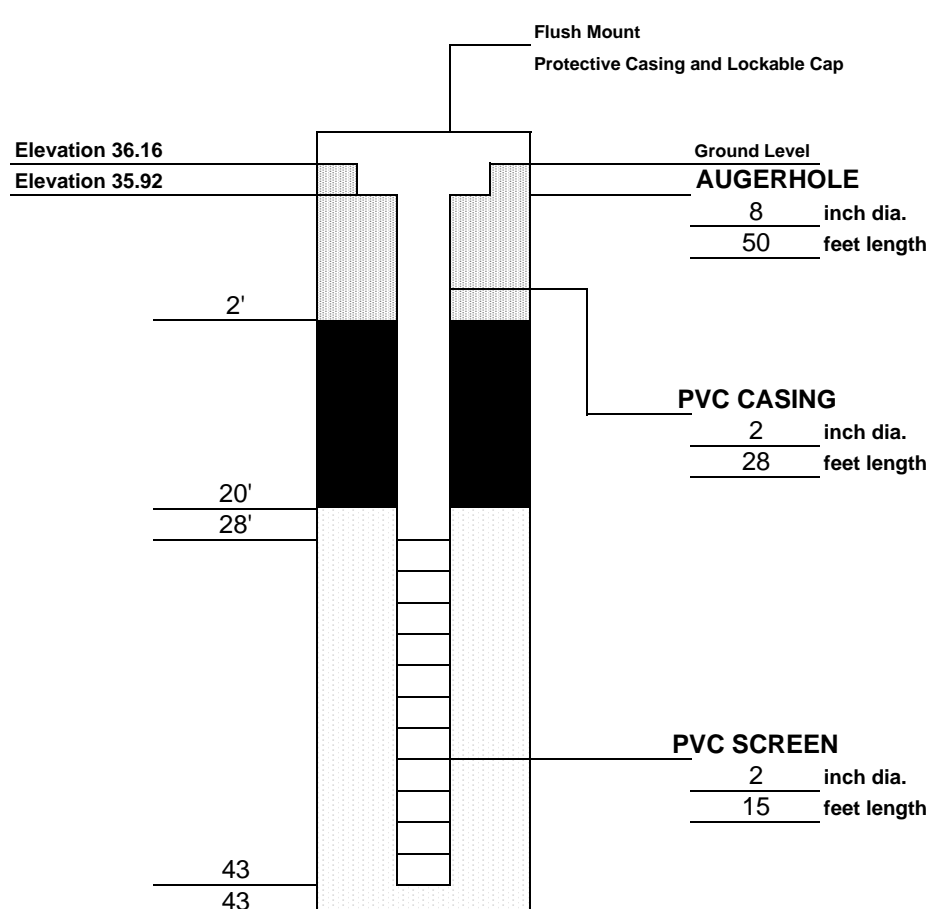
DRILLING SUMMARY		<div style="display: flex; align-items: center; justify-content: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-weight: bold; margin-right: 10px;">DEPTH</div>  </div> <p>The diagram shows a cross-section of a well. At the top, a 'Flush Mount Protective Casing and Lockable Cap' is shown. Below it, the 'AUGERHOLE' is 8 inches in diameter and 50 feet long. This is followed by 'PVC CASING' which is 2 inches in diameter and 35 feet long. Below the casing is a 'PVC SCREEN' which is 2 inches in diameter and 15 feet long. The well is filled with 'Silica Sandpack' (stippled pattern). A 'Bentonite Seal' (solid black) is located between the casing and the screen. The well is capped with 'Cement/Bentonite Grout' (hatched pattern). Elevation markers on the left indicate 41.32, 40.96, 1', 33', 35', 50', and 50'.</p>	
Geologist: A.L.			
Drilling Company: ADT			
Driller: Jeremy			
Rig Make/Model: CME 55LC			
Date: 5/25/2007			
GEOLOGIC LOG			
Depth(ft.)	Description		
	See Boring Log.		
WELL DESIGN			
CASING MATERIAL		SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel grade box		Type: 2" PVC	Type: #2 Sand Setting:
Monitor: 2" PVC		Slot Size: .020"	SEAL MATERIAL
			Type: Bentonite Setting:
COMMENTS:			LEGEND
			<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); border: 1px solid black;"></div> Cement/Bentonite Grout </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background-color: black; border: 1px solid black;"></div> Bentonite Seal </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background: radial-gradient(circle, black 1px, transparent 1px); background-size: 4px 4px; border: 1px solid black;"></div> Silica Sandpack </div>
Elevation NAVD88			
Client: NYSDEC		Location: Morgan Avenue	Project No.: 11174989.00002
URS Corporation		MONITORING WELL CONSTRUCTION DETAILS	Well Number: DEC-10

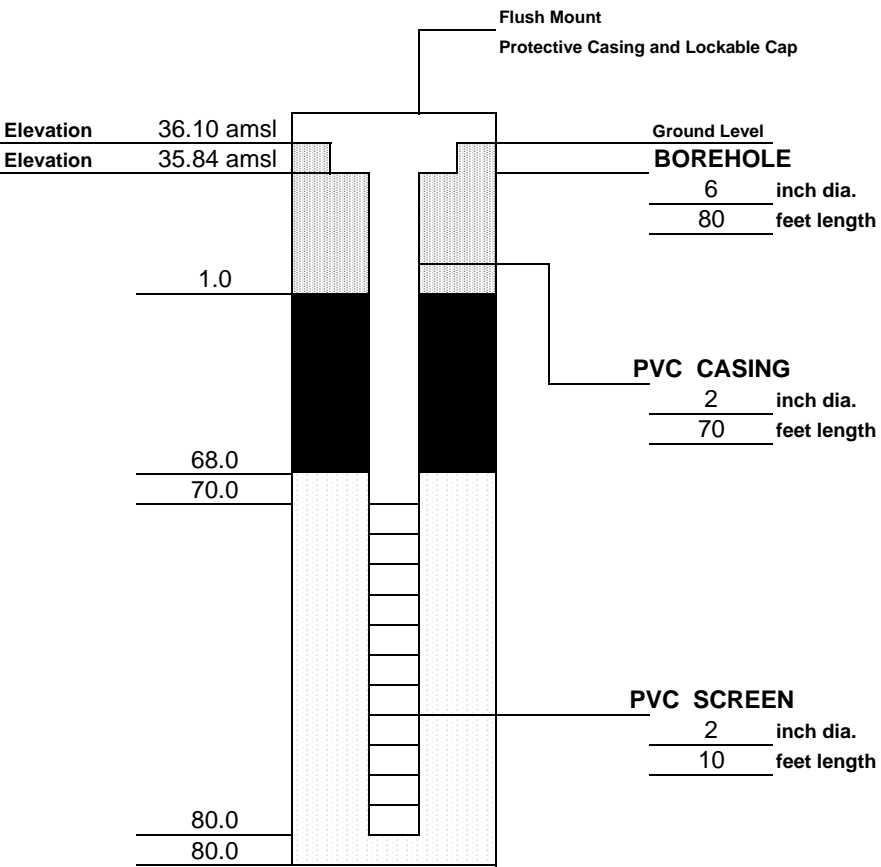
DRILLING SUMMARY		<div style="display: flex; align-items: center; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">DEPTH</div>  </div>	
Geologist: A.L.			
Drilling Company: ADT			
Driller: Jeremy			
Rig Make/Model: CME 55LC			
Date: 5/30/2007			
GEOLOGIC LOG			
Depth(ft.)	Description		
	See Boring Log.		
WELL DESIGN			
CASING MATERIAL		SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel grade box		Type: 2" PVC	Type: #2 Sand Setting:
Monitor: 2" PVC		Slot Size: .020"	SEAL MATERIAL
			Type: Bentonite Setting:
COMMENTS: Groundwater encountered @ 38' bgs. Elevation NAVD88			LEGEND <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 30px; height: 10px; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); border: 1px solid black; margin-right: 5px;"></div> Cement/Bentonite Grout </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 30px; height: 10px; background-color: black; border: 1px solid black; margin-right: 5px;"></div> Bentonite Seal </div> <div style="display: flex; align-items: center;"> <div style="width: 30px; height: 10px; background: radial-gradient(circle, black 1px, transparent 1px); background-size: 4px 4px; border: 1px solid black; margin-right: 5px;"></div> Silica Sandpack </div>
Client: NYSDEC		Loc: Morgan / Richardson	Project No.: 11174989.00002
URS Corporation		MONITORING WELL CONSTRUCTION DETAILS	Well Number: DEC-11

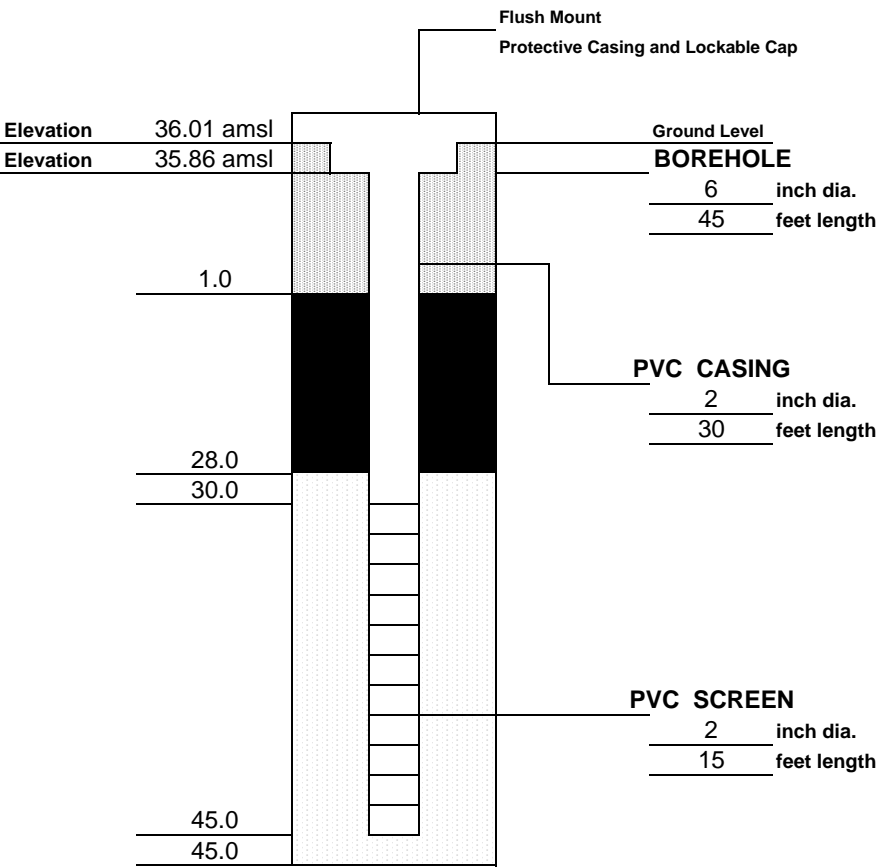
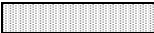


DRILLING SUMMARY		 <p style="text-align: center;">D E P T H</p>	
Geologist: C.R.			
Drilling Company: ADT			
Driller: Jeremy			
Rig Make/Model: CME 55LC			
Date: 6/4/2007			
GEOLOGIC LOG			
Depth(ft.)	Description		
	See Boring Log.		
WELL DESIGN			
CASING MATERIAL		SCREEN MATERIAL	
Surface: Steel grade box		Type: 2" PVC	
Monitor: 2" PVC		Slot Size: .020"	
COMMENTS:		SEAL MATERIAL	
		Type: Bentonite Setting:	
Elevation NAVD88		LEGEND	
		<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background-color: #cccccc; border: 1px solid black;"></div> Cement/Bentonite Grout </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background-color: #000000; border: 1px solid black;"></div> Bentonite Seal </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background-color: #ffffff; border: 1px solid black;"></div> Silica Sandpack </div>	
Client: NYSDEC		Loc: Meeker Avenue	
Project No.: 11174989.00002		Well Number:	
URS Corporation		MONITORING WELL CONSTRUCTION DETAILS	
		DEC-12	

DRILLING SUMMARY		 <p style="text-align: right; margin-right: 50px;">Flush Mount Protective Casing and Lockable Cap</p> <p style="text-align: right;">Ground Level</p> <p>AUGERHOLE 8 inch dia. 49 feet length</p> <p>PVC CASING 2 inch dia. 33 feet length</p> <p>PVC SCREEN 2 inch dia. 15 feet length</p>	
Geologist: A. Ledgerwood			
Drilling Company: Aquifer Drilling and Testing, Inc.			
Driller: Jeremy Meyers			
Rig Make/Model: CME 55LC			
Date: 11/23/2007			
GEOLOGIC LOG		D E P T H (FT)	
Depth(ft.)	Description		
	See Boring Log for Lithologic Description.		
WELL DESIGN			
CASING MATERIAL		SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel grade box		Type: 2" PVC	Type: #2 Sand Setting: 31.0-49.0'
Monitor: 2" PVC		Slot Size: .020"	SEAL MATERIAL Type: Bentonite Setting: 2.0-31.0'
COMMENTS:			LEGEND
			<div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 30px; height: 15px; background-color: #cccccc; border: 1px solid black; margin-right: 5px;"></div> Cement/Bentonite Grout </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 30px; height: 15px; background-color: #000000; border: 1px solid black; margin-right: 5px;"></div> Bentonite Seal </div> <div style="display: flex; align-items: center;"> <div style="width: 30px; height: 15px; background-color: #ffffff; border: 1px solid black; margin-right: 5px;"></div> Silica Sandpack </div>
Client: NYSDEC		Location : Meeker Avenue Site	Project No.: 11174989.00002
URS Corporation		MONITORING WELL CONSTRUCTION DETAILS	Well Number: DEC-013

DRILLING SUMMARY		 <p style="text-align: center;">D E P T H (FT)</p>	
Geologist: T. Ifkovich/C. Friedman			
Drilling Company: Aquifer Drilling and Testing, Inc.			
Driller: G. Rivera/J. Meyers			
Rig Make/Model: AMSI 17-C Sonic			
Date: 5/27/2011			
GEOLOGIC LOG			
Depth(ft.)	Description		
	See Boring Log for Lithologic Description.		
WELL DESIGN			
CASING MATERIAL		SCREEN MATERIAL	
Surface: 8" Flush mount steel grade box	Type: 2" Schedule 40 PVC	FILTER MATERIAL	
Monitor: 2" Schedule 40 PVC	Slot Size: 0.010"	SEAL MATERIAL	
		Type: #1 Sand Setting: 73.0-85.0' Type: Benseal Setting: 2.0-73.0'	
COMMENTS:		LEGEND	
		<div style="display: flex; align-items: center;"> <div style="width: 30px; height: 15px; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); border: 1px solid black; margin-right: 5px;"></div> Cement/Bentonite Grout </div>	
		<div style="display: flex; align-items: center;"> <div style="width: 30px; height: 15px; background-color: black; border: 1px solid black; margin-right: 5px;"></div> Bentonite Seal </div>	
		<div style="display: flex; align-items: center;"> <div style="width: 30px; height: 15px; background: radial-gradient(circle, black 1px, transparent 1px); background-size: 4px 4px; border: 1px solid black; margin-right: 5px;"></div> Silica Sandpack </div>	
Client: NYSDEC		Former Klink Cosmo Cleaners	
URS Corporation		MONITORING WELL CONSTRUCTION DETAILS	
		Project No.: 11176390.00002	
		Well Number: DEC-013D	

DRILLING SUMMARY		<div style="display: flex; align-items: center; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">DEPTH</div>  </div> <p>The diagram shows a cross-section of a well. At the top, a 'Flush Mount Protective Casing and Lockable Cap' is shown. Below it, the 'AUGERHOLE' is 8 inches in diameter and 50 feet long. This is followed by 'PVC CASING' which is 2 inches in diameter and 28 feet long. Below the casing is a 'PVC SCREEN' which is 2 inches in diameter and 15 feet long. The well is filled with 'Silica Sandpack' (indicated by a dotted pattern). A 'Bentonite Seal' (indicated by a solid black area) is located between the casing and the screen. The well is capped with 'Cement/Bentonite Grout' (indicated by a cross-hatched pattern). Elevation markers on the left indicate 'Elevation 36.16' at the top of the casing and 'Elevation 35.92' at the top of the screen. Depth markers on the left indicate '2'', '20'', '28'', '43'', and '43''.</p>			
Geologist: A.L. & C.R.					
Drilling Company: ADT					
Driller: Jeremy					
Rig Make/Model: CME 55LC					
Date: 5/30/2007					
GEOLOGIC LOG					
Depth(ft.)	Description				
	See Boring Log.				
WELL DESIGN					
CASING MATERIAL		SCREEN MATERIAL		FILTER MATERIAL	
Surface: Steel grade box Monitor: 2" PVC		Type: 2" PVC Slot Size: .020"		Type: #2 Sand Setting:	
				SEAL MATERIAL Type: Bentonite Setting:	
COMMENTS: Sand was brought up to 20' due to prior well setting and the presence of bentonite already in the hole. Elevation NAVD88				LEGEND	
				<div style="display: flex; justify-content: space-around;"> <div style="width: 30px; height: 15px; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); border: 1px solid black;"></div> Cement/Bentonite Grout </div> <div style="display: flex; justify-content: space-around;"> <div style="width: 30px; height: 15px; background-color: black; border: 1px solid black;"></div> Bentonite Seal </div> <div style="display: flex; justify-content: space-around;"> <div style="width: 30px; height: 15px; background: radial-gradient(circle, black 1px, transparent 1px); background-size: 4px 4px; border: 1px solid black;"></div> Silica Sandpack </div>	
Client: NYSDEC		Loc: Vandervoort b/t Division & Richardson		Project No.: 11174989.00002	
URS Corporation		MONITORING WELL CONSTRUCTION DETAILS		Well Number: DEC-14	

DRILLING SUMMARY		 <p style="text-align: center;">D E P T H (FT)</p>	
Geologist: S. McCabe			
Drilling Company: Aquifer Drilling and Testing, Inc.			
Driller: G. Rivera			
Rig Make/Model: AMSI 17-C Sonic			
Date: 5/18/2011			
GEOLOGIC LOG			
Depth(ft.)	Description		
	See Boring Log for Lithologic Description.		
WELL DESIGN			
CASING MATERIAL		SCREEN MATERIAL	
Surface: 8" Flush mount steel grade box	Type: 2" Schedule 40 PVC	FILTER MATERIAL	
Monitor: 2" Schedule 40 PVC	Slot Size: 0.010"	SEAL MATERIAL	
COMMENTS:		LEGEND	
		<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); border: 1px solid black;"></div> Cement/Bentonite Grout </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background-color: black; border: 1px solid black;"></div> Bentonite Seal </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background: radial-gradient(circle, black 1px, transparent 1px); background-size: 4px 4px; border: 1px solid black;"></div> Silica Sandpack </div>	
Client: NYSDEC		Former Klink Cosmo Cleaners	
URS Corporation		MONITORING WELL CONSTRUCTION DETAILS	
		Project No.: 11176390.00002	
		Well Number: DEC-014D	

DRILLING SUMMARY			
Geologist: S. McCabe		 <p>The diagram shows a cross-section of a well. At the top is a 'Flush Mount Protective Casing and Lockable Cap'. Below this is the 'BOREHOLE' with a diameter of 6 inches and a length of 45 feet. The borehole is filled with 'Cement/Bentonite Grout' (hatched pattern) from the surface down to 1.0 foot. From 1.0 foot to 28.0 feet, it is filled with 'Bentonite Seal' (solid black). From 28.0 feet to 30.0 feet, it is filled with 'Silica Sandpack' (dotted pattern). From 30.0 feet to 45.0 feet, it is filled with 'PVC CASING' (2 inch dia., 30 feet length). From 45.0 feet to 45.0 feet, it is filled with 'PVC SCREEN' (2 inch dia., 15 feet length). The well is labeled 'DEPTH (FT)' on the left.</p>	
Drilling Company: Aquifer Drilling and Testing, Inc.			
Driller: G. Rivera			
Rig Make/Model: AMSI 17-C Sonic			
Date: 5/18/2011			
GEOLOGIC LOG			
Depth(ft.)	Description		
	See Boring Log for Lithologic Description.		
WELL DESIGN			
CASING MATERIAL		SCREEN MATERIAL	FILTER MATERIAL
Surface: 8" Flush mount steel grade box	Type: 2" Schedule 40 PVC	Type: #1 Sand	Setting: 28.0-45.0'
Monitor: 2" Schedule 40 PVC	Slot Size: 0.010"	SEAL MATERIAL	
		Type: Benseal	Setting: 1.0-28.0'
COMMENTS:		LEGEND	
		<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  Cement/Bentonite Grout </div> <div style="text-align: center;">  Bentonite Seal </div> <div style="text-align: center;">  Silica Sandpack </div> </div>	
Client: NYSDEC	Former Klink Cosmo Cleaners	Project No.: 11176390.00002	
URS Corporation	MONITORING WELL CONSTRUCTION DETAILS	Well Number: DEC-014R	

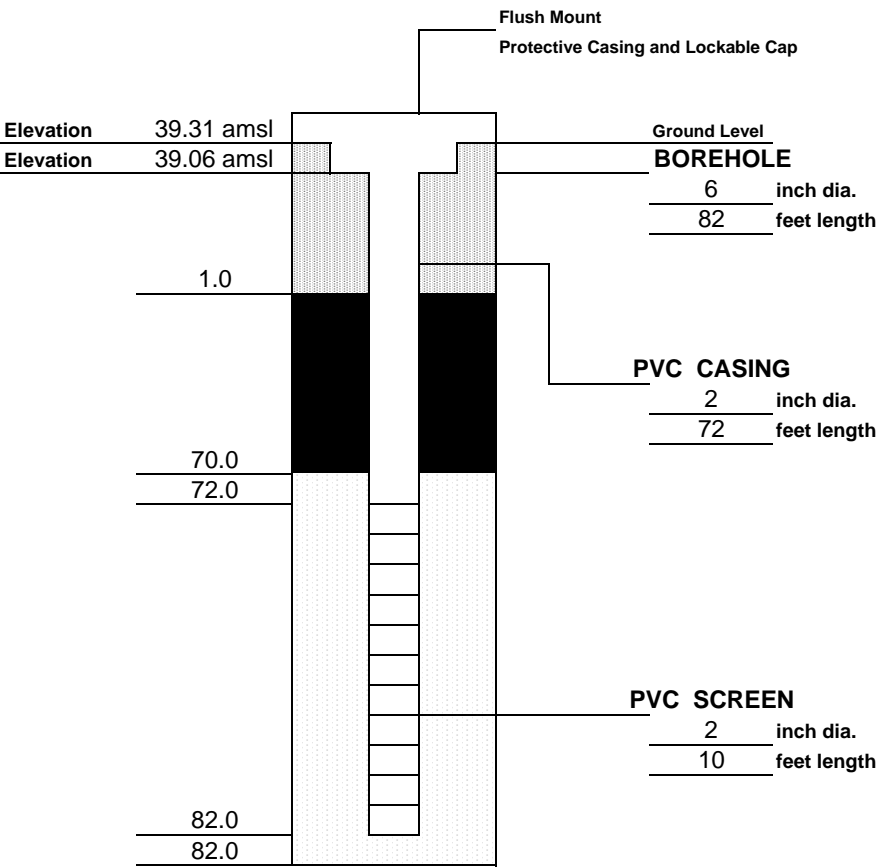
DRILLING SUMMARY	
Geologist: C.R. & A.L.	
Drilling Company: ADT	
Driller: Jeremy	
Rig Make/Model: CME 55LC	
Date: 5/29/2007	
GEOLOGIC LOG	
Depth(ft.)	Description
	See Boring Log.
WELL DESIGN	

DEPTH

The diagram illustrates a well construction with the following details:

- Ground Level:** Elevation 39.21
- Flush Mount Protective Casing and Lockable Cap:** Located at the top of the well.
- AUGERHOLE:** 8 inch dia., 47 feet length.
- PVC CASING:** 2 inch dia., 31 feet length.
- PVC SCREEN:** 2 inch dia., 15 feet length.
- Elevations:** 39.21, 38.80, 30', 31', 46', 47'.
- Materials:** Cement/Bentonite Grout (hatched), Bentonite Seal (solid black), Silica Sandpack (dotted).

CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel grade box	Type: 2" PVC	Type: #2 Sand Setting:
Monitor: 2" PVC	Slot Size: .020"	SEAL MATERIAL
		Type: Bentonite Setting:
COMMENTS:		LEGEND
		<div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 30px; height: 15px; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); border: 1px solid black; margin-right: 5px;"></div> Cement/Bentonite Grout </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 30px; height: 15px; background-color: black; border: 1px solid black; margin-right: 5px;"></div> Bentonite Seal </div> <div style="display: flex; align-items: center;"> <div style="width: 30px; height: 15px; background: radial-gradient(circle, black 1px, transparent 1px); background-size: 4px 4px; border: 1px solid black; margin-right: 5px;"></div> Silica Sandpack </div>
Elevation NAVD88		
Client: NYSDEC	Loc: Meeker Avenue	Project No.: 11174989.00002
URS Corporation	MONITORING WELL CONSTRUCTION DETAILS	Well Number: DEC-15

DRILLING SUMMARY		 <p style="text-align: center;">D E P T H (FT)</p>	
Geologist: C. Friedman			
Drilling Company: Aquifer Drilling and Testing, Inc.			
Driller: J. Meyers			
Rig Make/Model: AMSI 17-C Sonic			
Date: 5/17/2011			
GEOLOGIC LOG			
Depth(ft.)	Description		
	See Boring Log for Lithologic Description.		
WELL DESIGN			
CASING MATERIAL		SCREEN MATERIAL	
Surface: 8" Flush mount steel grade box	Type: 2" Schedule 40 PVC	FILTER MATERIAL	
Monitor: 2" Schedule 40 PVC	Slot Size: 0.010"	SEAL MATERIAL	
COMMENTS:		LEGEND	
		<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); border: 1px solid black;"></div> Cement/Bentonite Grout </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background-color: black; border: 1px solid black;"></div> Bentonite Seal </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background: radial-gradient(circle, black 1px, transparent 1px); background-size: 4px 4px; border: 1px solid black;"></div> Silica Sandpack </div>	
Client: NYSDEC		Former Klink Cosmo Cleaners	
URS Corporation		MONITORING WELL CONSTRUCTION DETAILS	
		Project No.: 11176390.00002	
		Well Number: DEC-015D	

DRILLING SUMMARY		<div style="display: flex; align-items: center; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">DEPTH</div> </div>	
Geologist: A.L.			
Drilling Company: ADT			
Driller: Tony			
Rig Make/Model: CME 55LC			
Date: 5/23/2007			
GEOLOGIC LOG			
Depth(ft.)	Description		
	See Boring Log.		
WELL DESIGN			
CASING MATERIAL		SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel grade box		Type: 2" PVC	Type: #2 Sand Setting:
Monitor: 2" PVC		Slot Size: .020"	SEAL MATERIAL
			Type: Bentonite Setting:
COMMENTS:			LEGEND
			<div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> <div style="width: 30px; height: 10px; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); border: 1px solid black;"></div> Cement/Bentonite Grout </div> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> <div style="width: 30px; height: 10px; background-color: black; border: 1px solid black;"></div> Bentonite Seal </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 30px; height: 10px; background: radial-gradient(circle, black 1px, transparent 1px); background-size: 4px 4px; border: 1px solid black;"></div> Silica Sandpack </div>
Client: NYSDEC		Loc: On Lombardy near Porter Ave.	Project No.: 11174989.00002
URS Corporation		MONITORING WELL CONSTRUCTION DETAILS	Well Number: DEC-22

DRILLING SUMMARY	
Geologist: S. McCabe	
Drilling Company:	
Aquifer Drilling and Testing, Inc.	
Driller: Jeremy Meyers	
Rig Make/Model:	
CME 55LC	
Date:	
11/12/2007	
GEOLOGIC LOG	
Depth(ft.)	Description
	See Boring Log for Lithologic Description.
WELL DESIGN	

DEPTH (FT)

Flush Mount Protective Casing and Lockable Cap

Ground Level

AUGERHOLE
8 inch dia.
61 feet length

PVC CASING
2 inch dia.
51 feet length

PVC SCREEN
2 inch dia.
10 feet length

CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel grade box	Type: 2" PVC	Type: #2 Sand Setting: 48.0-61.0'
Monitor: 2" PVC	Slot Size: .020"	SEAL MATERIAL Type: Bentonite Setting: 1.0-48.0'
COMMENTS:		LEGEND
		<div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 20px; height: 10px; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); border: 1px solid black; margin-right: 5px;"></div> Cement/Bentonite Grout </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 20px; height: 10px; background-color: black; border: 1px solid black; margin-right: 5px;"></div> Bentonite Seal </div> <div style="display: flex; align-items: center;"> <div style="width: 20px; height: 10px; background: radial-gradient(circle, black 1px, transparent 1px); background-size: 4px 4px; border: 1px solid black; margin-right: 5px;"></div> Silica Sandpack </div>
Client: NYSDEC	Location : Meeker Avenue Site	Project No.: 11174989.00002
URS Corporation	MONITORING WELL CONSTRUCTION DETAILS	Well Number: DEC-022D

DRILLING SUMMARY	
Geologist: S. McCabe	
Drilling Company:	
Aquifer Drilling and Testing, Inc.	
Driller: Jeremy Meyers	
Rig Make/Model:	
CME 55LC	
Date:	
11/20/2007	
GEOLOGIC LOG	
Depth(ft.)	Description
	See Boring Log for Lithologic Description.
WELL DESIGN	

DEPTH (FT)

Flush Mount Protective Casing and Lockable Cap

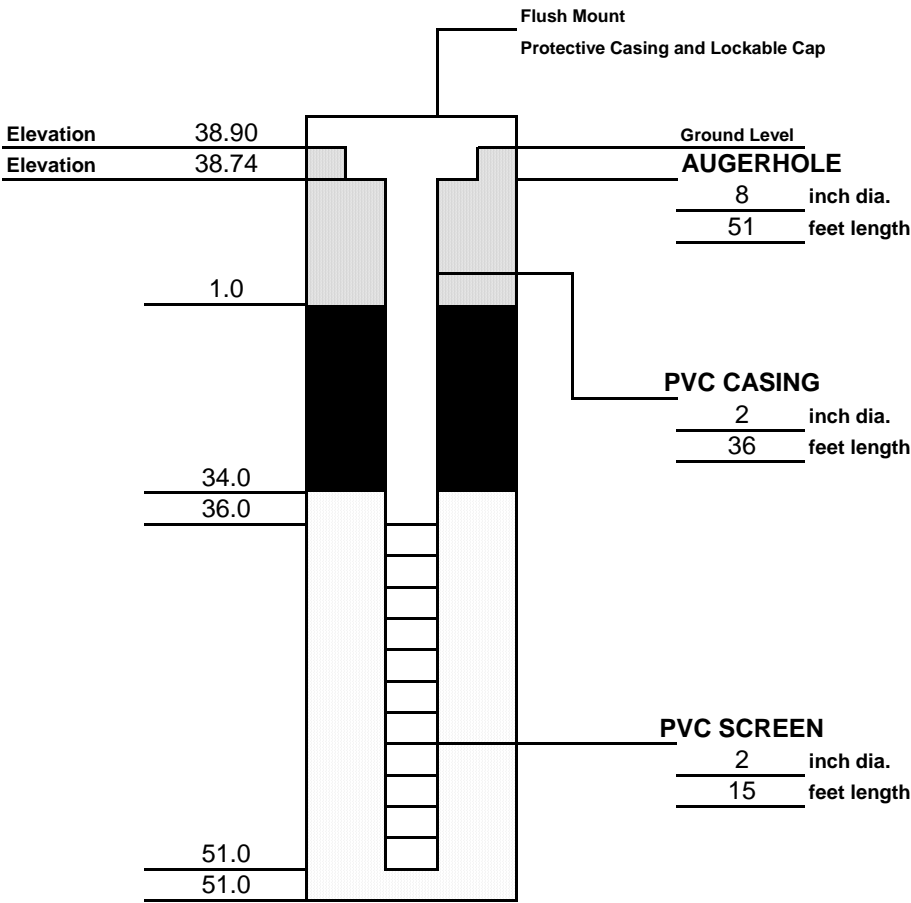
Ground Level

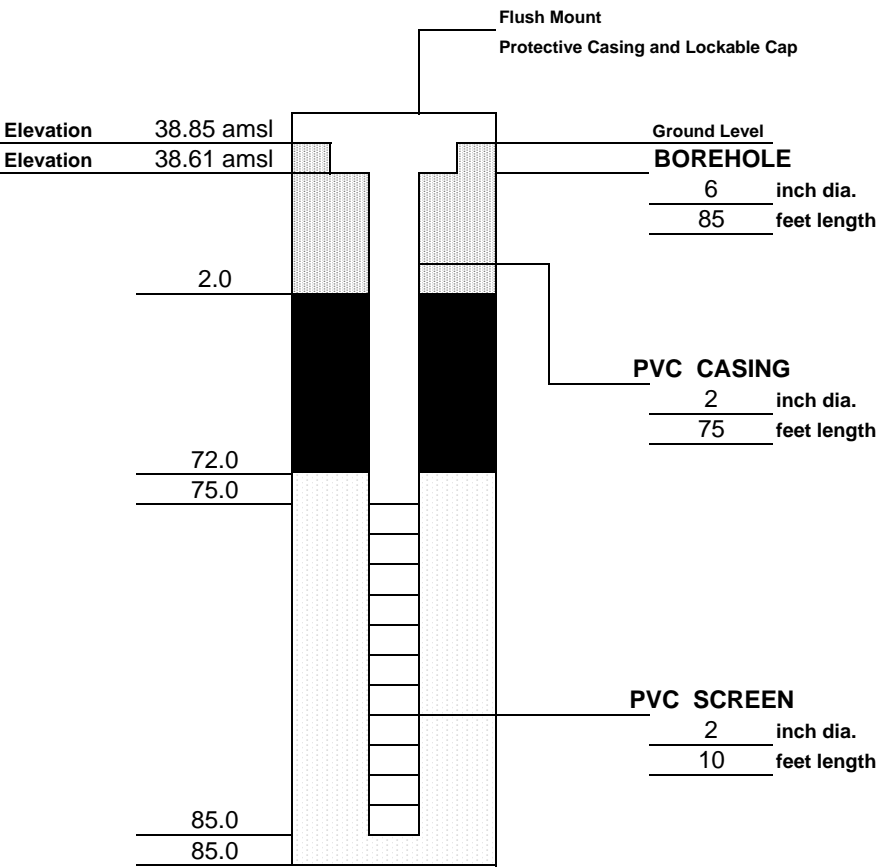
AUGERHOLE
8 inch dia.
50 feet length

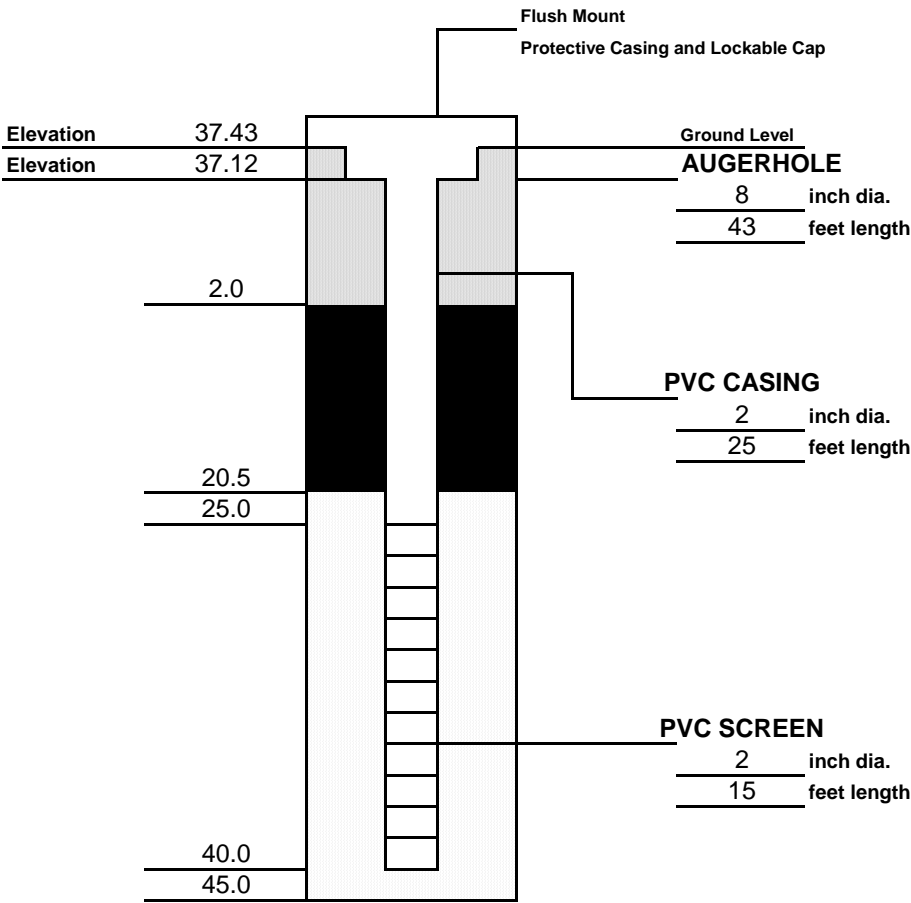

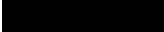

PVC CASING
2 inch dia.
35 feet length

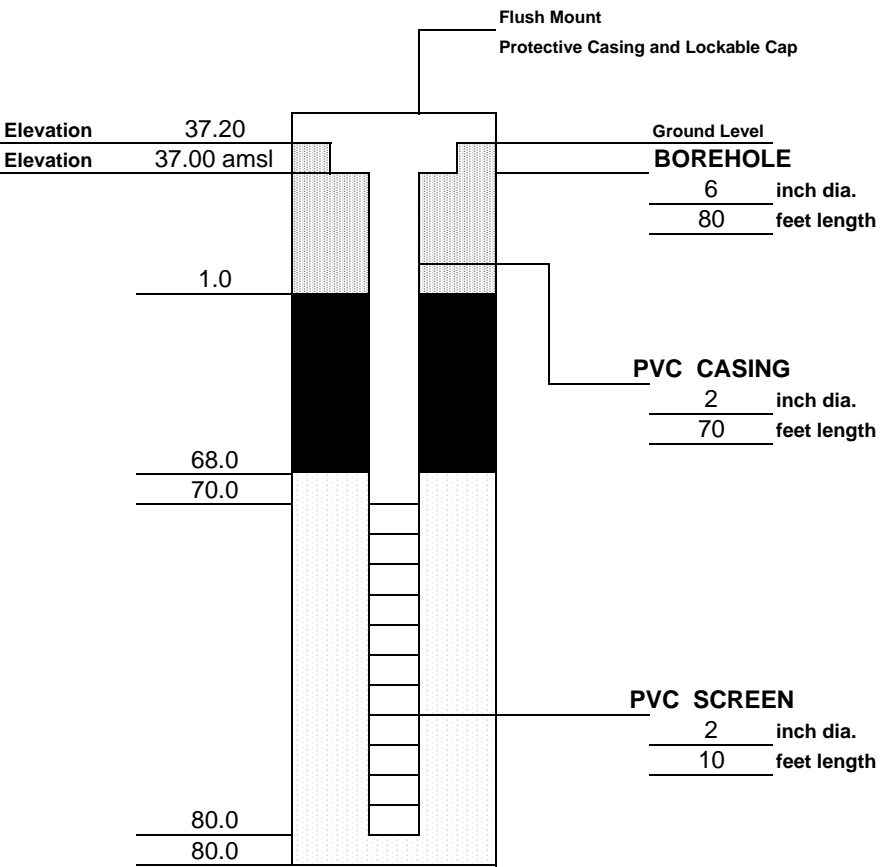
PVC SCREEN
2 inch dia.
15 feet length

CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel grade box	Type: 2" PVC	Type: #2 Sand Setting: 33.0-50.0'
Monitor: 2" PVC	Slot Size: .020"	SEAL MATERIAL Type: Bentonite Setting: 1.0-32.0'
COMMENTS:		LEGEND
		<div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 20px; height: 10px; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); border: 1px solid black; margin-right: 5px;"></div> Cement/Bentonite Grout </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 20px; height: 10px; background-color: black; border: 1px solid black; margin-right: 5px;"></div> Bentonite Seal </div> <div style="display: flex; align-items: center;"> <div style="width: 20px; height: 10px; background: radial-gradient(circle, black 1px, transparent 1px); background-size: 4px 4px; border: 1px solid black; margin-right: 5px;"></div> Silica Sandpack </div>
Client: NYSDEC	Location : Meeker Avenue Site	Project No.: 11174989.00002
URS Corporation	MONITORING WELL CONSTRUCTION DETAILS	Well Number: DEC-028

DRILLING SUMMARY		 <p style="font-size: small; margin-top: 10px;"> Flush Mount Protective Casing and Lockable Cap </p> <p style="margin-top: 10px;"> Elevation 38.90 Elevation 38.74 </p> <p style="margin-top: 10px;"> Ground Level AUGERHOLE 8 inch dia. 51 feet length </p> <p style="margin-top: 10px;"> 1.0 PVC CASING 2 inch dia. 36 feet length </p> <p style="margin-top: 10px;"> 34.0 36.0 PVC SCREEN 2 inch dia. 15 feet length </p> <p style="margin-top: 10px;"> 51.0 51.0 </p>			
Geologist: S. McCabe					
Drilling Company:					
Aquifer Drilling and Testing, Inc.					
Driller: Jeremy Meyers					
Rig Make/Model: CME 55LC					
Date: 11/27/2007					
GEOLOGIC LOG		D E P T H (FT)			
Depth(ft.)	Description				
	See Boring Log for Lithologic Description.				
WELL DESIGN					
CASING MATERIAL		SCREEN MATERIAL		FILTER MATERIAL	
Surface: Steel grade box Monitor: 2" PVC		Type: 2" PVC Slot Size: .020"		Type: #2 Sand Setting: 34.0-51.0' SEAL MATERIAL Type: Bentonite Setting: 1.0-34.0'	
COMMENTS:				LEGEND <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 30px; height: 15px; background-color: #cccccc; border: 1px solid black; margin-right: 5px;"></div> Cement/Bentonite Grout </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 30px; height: 15px; background-color: #000000; border: 1px solid black; margin-right: 5px;"></div> Bentonite Seal </div> <div style="display: flex; align-items: center;"> <div style="width: 30px; height: 15px; background-color: #ffffff; border: 1px solid black; margin-right: 5px;"></div> Silica Sandpack </div>	
Client: NYSDEC		Location : Meeker Avenue Site		Project No.: 11174989.00002	
URS Corporation		MONITORING WELL CONSTRUCTION DETAILS		Well Number: DEC-029	

DRILLING SUMMARY		 <p style="text-align: center;">D E P T H (FT)</p>	
Geologist: C. Friedman			
Drilling Company: Aquifer Drilling and Testing, Inc.			
Driller: J. Meyers			
Rig Make/Model: AMSI 17-C Sonic			
Date: 5/11/2011			
GEOLOGIC LOG			
Depth(ft.)	Description		
	See Boring Log for Lithologic Description.		
WELL DESIGN			
CASING MATERIAL		SCREEN MATERIAL	
Surface: 8" Flush mount steel grade box	Type: 2" Schedule 40 PVC	FILTER MATERIAL	
Monitor: 2" Schedule 40 PVC	Slot Size: 0.010"	SEAL MATERIAL	
COMMENTS:		LEGEND	
		<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); border: 1px solid black;"></div> Cement/Bentonite Grout </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background-color: black; border: 1px solid black;"></div> Bentonite Seal </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background: radial-gradient(circle, black 1px, transparent 1px); background-size: 4px 4px; border: 1px solid black;"></div> Silica Sandpack </div>	
Client: NYSDEC		Former Klink Cosmo Cleaners	
URS Corporation		MONITORING WELL CONSTRUCTION DETAILS	
		Project No.: 11176390.00002	
		Well Number: DEC-029D	

DRILLING SUMMARY		 <p>The diagram shows a cross-section of a well. At the top is a 'Flush Mount Protective Casing and Lockable Cap'. Below it is the 'AUGERHOLE' with an 8 inch diameter and 43 feet length. This is followed by 'PVC CASING' with a 2 inch diameter and 25 feet length. Below the casing is a 'PVC SCREEN' with a 2 inch diameter and 15 feet length. The well is filled with 'Silica Sandpack' (hatched pattern). A 'Bentonite Seal' (solid black) is located between the casing and screen. 'Cement/Bentonite Grout' (hatched pattern) is at the top of the well. Elevation markers on the left indicate depths of 37.43, 37.12, 2.0, 20.5, 25.0, 40.0, and 45.0 feet. The word 'DEPTH' is written vertically next to the diagram.</p>	
Geologist: A. Ledgerwood			
Drilling Company:			
Aquifer Drilling and Testing, Inc.			
Driller: Jeremy Meyers			
Rig Make/Model:			
CME 55LC			
Date:			
11/19/2007			
GEOLOGIC LOG		D E P T H (FT)	
Depth(ft.)	Description		
	See Boring Log for Lithologic Description.		
WELL DESIGN			
CASING MATERIAL		SCREEN MATERIAL	
Surface: Steel grade box		Type: 2" PVC	
Monitor: 2" PVC		Slot Size: .020"	
COMMENTS:		FILTER MATERIAL	
		Type: #2 Sand Setting: 20.5-43.0'	
		SEAL MATERIAL	
		Type: Bentonite Setting: 2.0-20.5'	
		LEGEND	
		 Cement/Bentonite Grout	
		 Bentonite Seal	
		 Silica Sandpack	
Client: NYSDEC		Location : Meeker Avenue Site	
Project No.: 11174989.00002			
Well Number: DEC-030			
URS Corporation		MONITORING WELL CONSTRUCTION DETAILS	

DRILLING SUMMARY		 <p style="text-align: center;">D E P T H (FT)</p>	
Geologist: S. McCabe /M. Dascoli			
Drilling Company: Aquifer Drilling and Testing, Inc.			
Driller: G. Rivera			
Rig Make/Model: AMSI 17-C Sonic			
Date: 5/16/2011			
GEOLOGIC LOG			
Depth(ft.)	Description		
	See Boring Log for Lithologic Description.		
WELL DESIGN			
CASING MATERIAL		SCREEN MATERIAL	
Surface: 8" Flush mount steel grade box	Type: 2" Schedule 40 PVC	FILTER MATERIAL	
Monitor: 2" Schedule 40 PVC	Slot Size: 0.010"	SEAL MATERIAL	
COMMENTS:		LEGEND	
		<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); border: 1px solid black; margin-bottom: 5px;"></div> Cement/Bentonite Grout </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background-color: black; border: 1px solid black; margin-bottom: 5px;"></div> Bentonite Seal </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background: radial-gradient(circle, black 1px, transparent 1px); background-size: 4px 4px; border: 1px solid black; margin-bottom: 5px;"></div> Silica Sandpack </div>	
Client: NYSDEC		Former Klink Cosmo Cleaners	
URS Corporation		MONITORING WELL CONSTRUCTION DETAILS	
		Project No.: 11176390.00002 Well Number: DEC-030D	

DRILLING SUMMARY	
Geologist: A. Ledgerwood	
Drilling Company:	
Aquifer Drilling and Testing, Inc.	
Driller: Jeremy Meyers	
Rig Make/Model:	
CME 55LC	
Date:	
11/21/2007	
GEOLOGIC LOG	
Depth(ft.)	Description
	See Boring Log for Lithologic Description.
WELL DESIGN	

DEPTH (FT)

Diagram Details:

- Ground Level:** 34.94
- Flush Mount Protective Casing and Lockable Cap:** Elevation 34.52
- AUGERHOLE:** 8 inch dia., 45 feet length
- PVC CASING:** 2 inch dia., 30 feet length
- PVC SCREEN:** 2 inch dia., 15 feet length
- Section 1 (Grout):** 2.0 feet
- Section 2 (Seal):** 27.0 to 30.0 feet
- Section 3 (Sandpack):** 45.0 to 45.0 feet

CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel grade box	Type: 2" PVC	Type: #2 Sand Setting: 27.0-45.0'
Monitor: 2" PVC	Slot Size: .020"	SEAL MATERIAL
		Type: Bentonite Setting: 2.0-27.0'

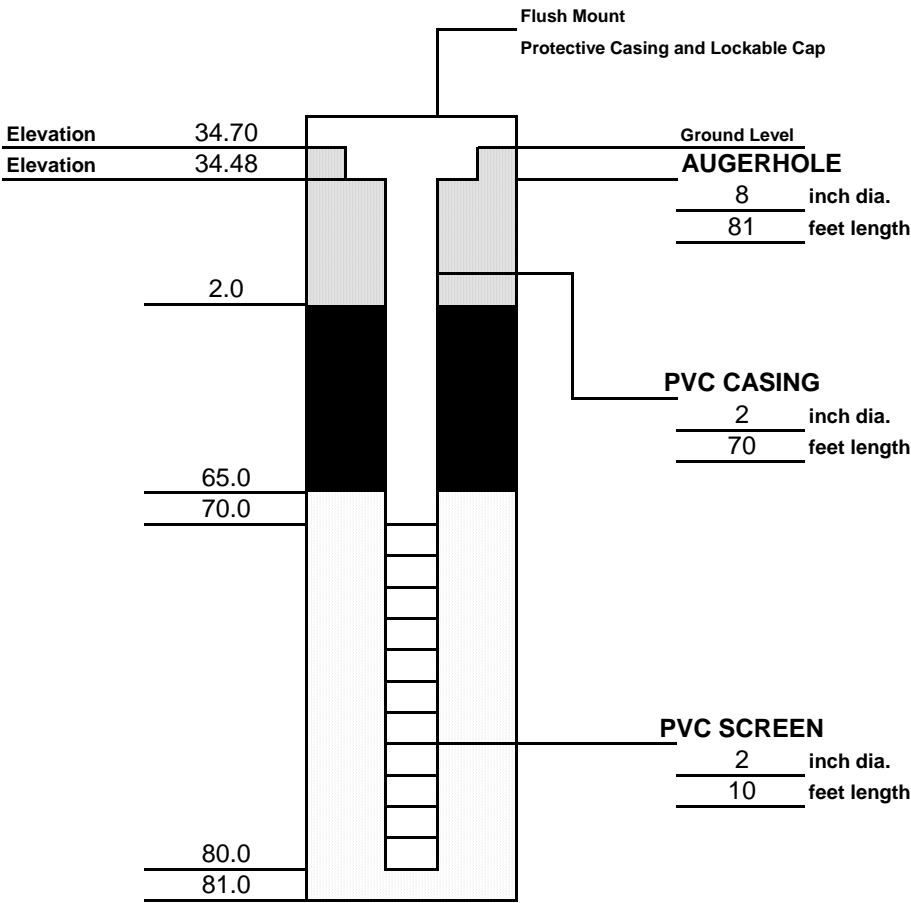
COMMENTS:

LEGEND

Cement/Bentonite Grout

Bentonite Seal

Silica Sandpack

DRILLING SUMMARY		 <p style="text-align: center;">D E P T H (FT)</p>	
Geologist: S. McCabe			
Drilling Company: Aquifer Drilling and Testing, Inc.			
Driller: Shawn Miller			
Rig Make/Model: CME-85			
Date: 6/17/2008			
GEOLOGIC LOG			
Depth(ft.)	Description		
	See Boring Log for Lithologic Description.		
WELL DESIGN			
CASING MATERIAL		SCREEN MATERIAL	
Surface: Steel grade box Monitor: 2" PVC		Type: 2" PVC Slot Size: .020"	
		FILTER MATERIAL	
		Type: #2 Sand Setting: 65.0-81.0'	
		SEAL MATERIAL	
		Type: Bentonite Setting: 2.0-65.0'	
COMMENTS:		LEGEND	
		<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background-color: #cccccc; border: 1px solid black;"></div> Cement/Bentonite Grout </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background-color: #000000; border: 1px solid black;"></div> Bentonite Seal </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background-color: #ffffff; border: 1px solid black;"></div> Silica Sandpack </div>	
Client: NYSDEC		Location : Meeker Avenue Site	
URS Corporation		MONITORING WELL CONSTRUCTION DETAILS	
		Project No.: 11174989.00002	
		Well Number: DEC-031D	

DRILLING SUMMARY	
Geologist: A. Ledgerwood	
Drilling Company:	
Aquifer Drilling and Testing, Inc.	
Driller: Jeremy Meyers	
Rig Make/Model:	
CME 55LC	
Date:	
11/29/2007	
GEOLOGIC LOG	
Depth(ft.)	Description
	See Boring Log for Lithologic Description.
WELL DESIGN	

DEPTH (FT)

Flush Mount Protective Casing and Lockable Cap

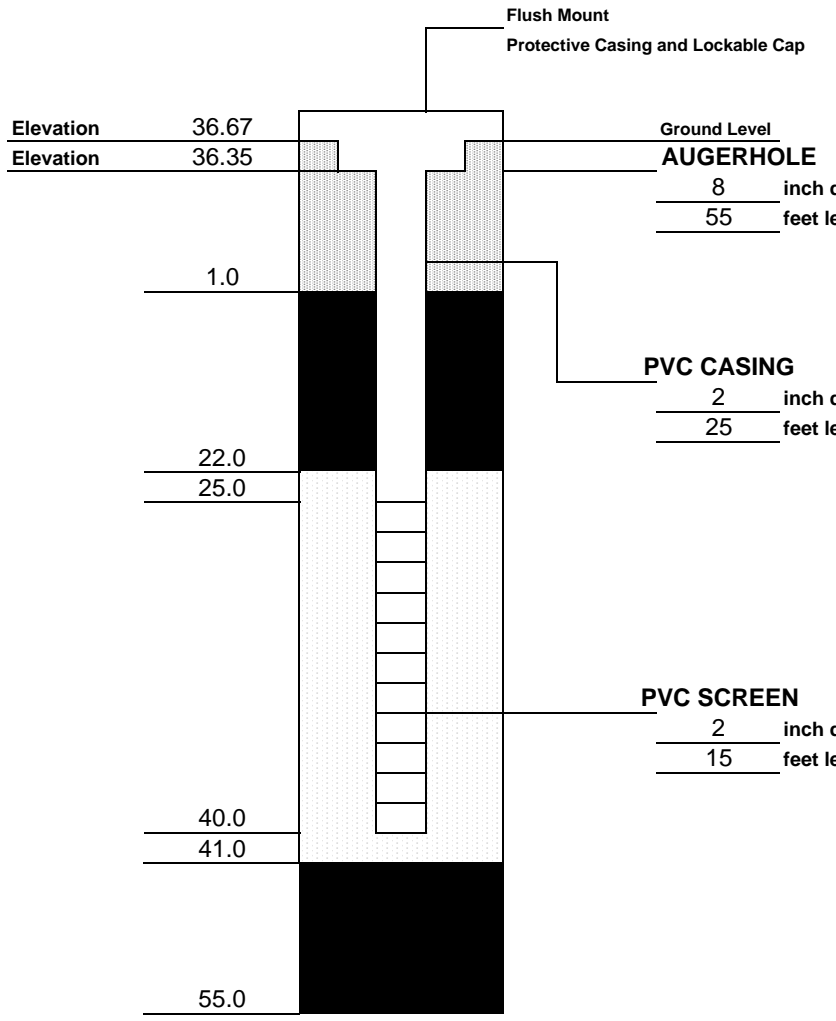


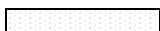
Ground Level

AUGERHOLE
8 inch dia.
45 feet length

PVC CASING
2 inch dia.
30 feet length

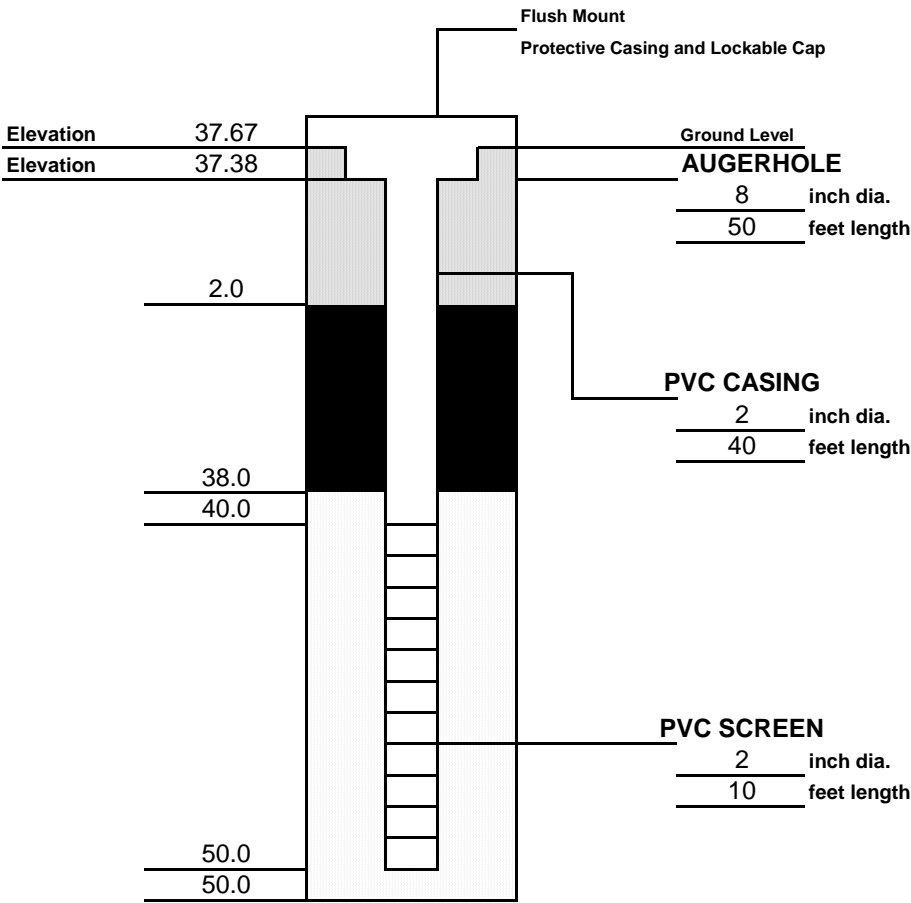
PVC SCREEN
2 inch dia.
15 feet length

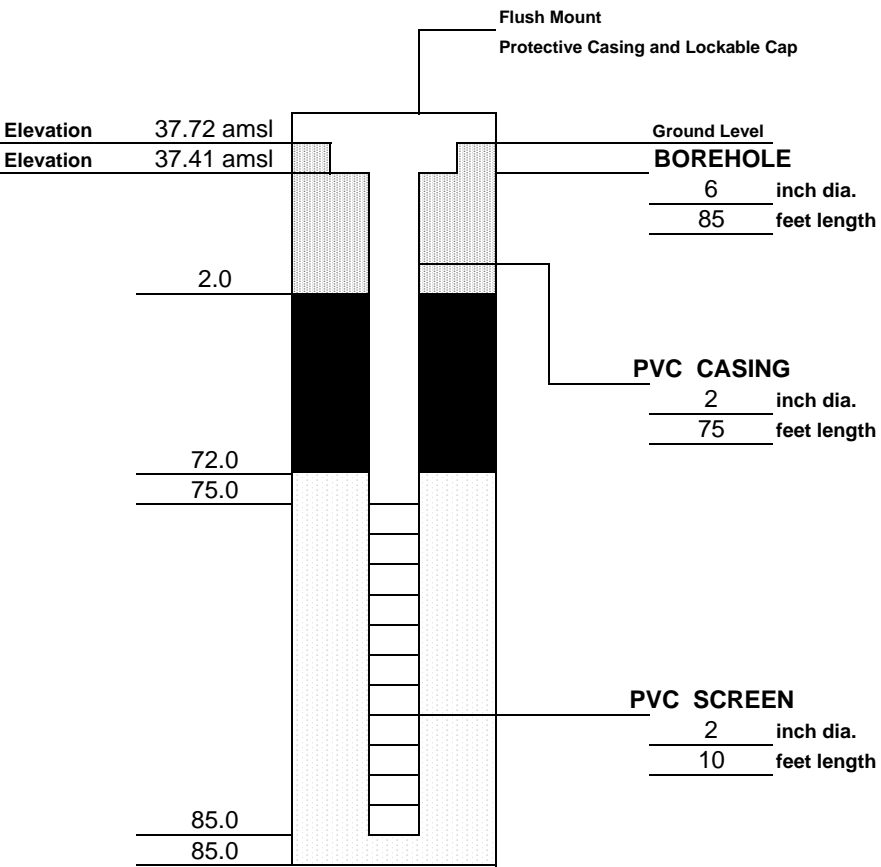
CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel grade box	Type: 2" PVC	Type: #2 Sand Setting: 28.0-45.0'
Monitor: 2" PVC	Slot Size: .020"	SEAL MATERIAL Type: Bentonite Setting: 1.0-28.0'
COMMENTS:		LEGEND
		<div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 20px; height: 10px; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); border: 1px solid black; margin-right: 5px;"></div> Cement/Bentonite Grout </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 20px; height: 10px; background-color: black; border: 1px solid black; margin-right: 5px;"></div> Bentonite Seal </div> <div style="display: flex; align-items: center;"> <div style="width: 20px; height: 10px; background: radial-gradient(circle, black 1px, transparent 1px); background-size: 4px 4px; border: 1px solid black; margin-right: 5px;"></div> Silica Sandpack </div>
Client: NYSDEC		Location : Meeker Avenue Site
Project No.: 11174989.00002		Well Number: DEC-032
MONITORING WELL CONSTRUCTION DETAILS		

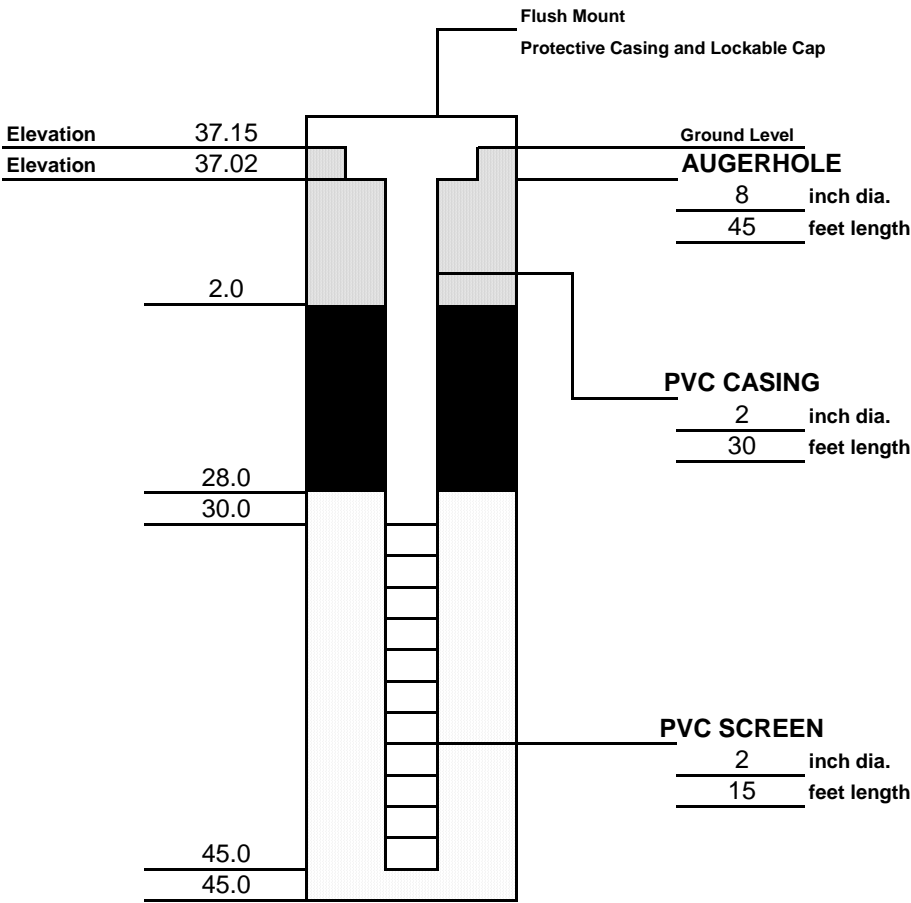
DRILLING SUMMARY		 <p>The diagram illustrates the well construction details. It shows a vertical cross-section of the well. At the top, there is a 'Flush Mount' and a 'Protective Casing and Lockable Cap'. The 'Ground Level' is indicated. The 'AUGERHOLE' is shown with an 8-inch diameter and 55 feet length. The 'PVC CASING' is 2 inches in diameter and 25 feet long. The 'PVC SCREEN' is 2 inches in diameter and 15 feet long. The well is filled with 'Silica Sandpack' and has a 'Bentonite Seal' at the bottom. The 'Casing Material' is 'Steel grade box' and the 'Screen Material' is '2" PVC'. The 'Filter Material' is '#2 Sand' and the 'Seal Material' is 'Bentonite'. The 'Comments' section is empty. The 'Legend' identifies the materials: 'Cement/Bentonite Grout' (hatched), 'Bentonite Seal' (solid black), and 'Silica Sandpack' (dotted).</p>	
Geologist: A. Ledgerwood			
Drilling Company:			
Aquifer Drilling and Testing, Inc.			
Driller: Jeremy Meyers			
Rig Make/Model:		DEPTH (FT) 1.0 22.0 25.0 40.0 41.0 55.0	
CME 55LC			
Date:			
12/3/2007			
GEOLOGIC LOG			
Depth(ft.)	Description		
	See Boring Log for Lithologic Description.		
WELL DESIGN			
CASING MATERIAL		SCREEN MATERIAL	
Surface: Steel grade box		Type: 2" PVC	
Monitor: 2" PVC		Slot Size: .020"	
COMMENTS:		FILTER MATERIAL	
		Type: #2 Sand Setting: 22.0-41.0'	
		SEAL MATERIAL	
		Type: Bentonite Setting: 1.0-22.0' 41.0-55.0'	
		LEGEND	
		 Cement/Bentonite Grout	
		 Bentonite Seal	
		 Silica Sandpack	
Client: NYSDEC		Location : Meeker Avenue Site	
Project No.: 11174989.00002		Well Number: DEC-033	
URS Corporation		MONITORING WELL CONSTRUCTION DETAILS	

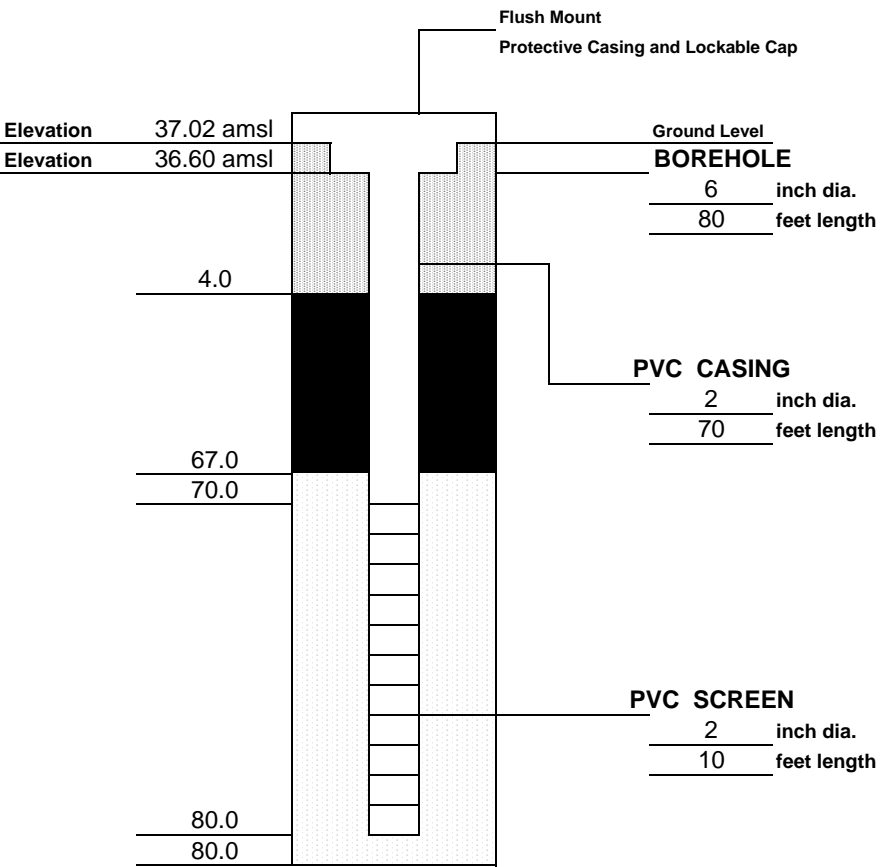
DRILLING SUMMARY		
Geologist: S. McCabe		
Drilling Company: Aquifer Drilling and Testing, Inc.		
Driller: Jeremy Meyers		
Rig Make/Model: CME-55 LC		
Date: 5/20/2008		
GEOLOGIC LOG		
Depth(ft.)	Description	
	See Boring Log for Lithologic Description.	
WELL DESIGN		
<p>The diagram illustrates the well construction details. It shows a central well shaft with various materials indicated by patterns: hatched for Cement/Bentonite Grout, solid black for Bentonite Seal, and stippled for Silica Sandpack. Key components include a Flush Mount Protective Casing and Lockable Cap at the top, an AUGERHOLE (8 inch dia., 54 feet length), PVC CASING (2 inch dia., 38 feet length), and a PVC SCREEN (2 inch dia., 15 feet length). Elevation markers on the left indicate depths from 45.02 to 54.0 feet. A depth scale on the right ranges from 0 to 60 feet.</p>		
CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel grade box Monitor: 2" PVC	Type: 2" PVC Slot Size: .020"	Type: #2 Sand Setting: 35.0-54.0' SEAL MATERIAL Type: Bentonite Setting: 2.0-35.0'
COMMENTS:		LEGEND
		Cement/Bentonite Grout Bentonite Seal Silica Sandpack
Client: NYSDEC	Location : Meeker Avenue Site	Project No.: 11174989.00002
URS Corporation	MONITORING WELL CONSTRUCTION DETAILS	Well Number: DEC-039

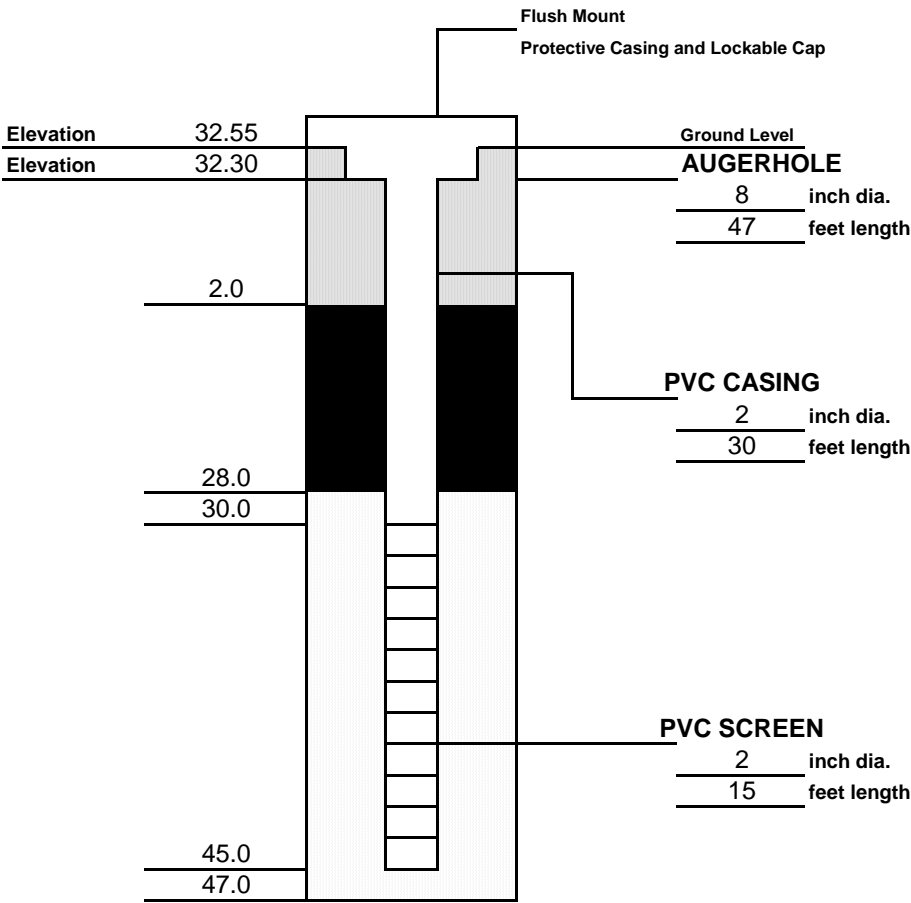
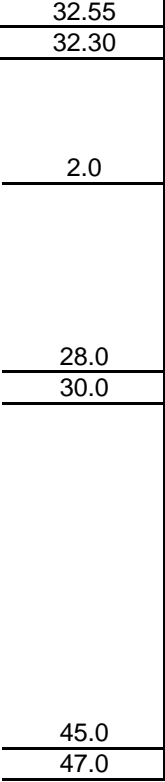
DRILLING SUMMARY																
Geologist: S. McCabe																
Drilling Company: Aquifer Drilling and Testing, Inc.																
Driller: Jeremy Meyers																
Rig Make/Model: CME-55 LC																
Date: 5/19/2008																
GEOLOGIC LOG																
Depth(ft.)	Description															
	See Boring Log for Lithologic Description.															
WELL DESIGN																
<table border="1"> <thead> <tr> <th>CASING MATERIAL</th> <th>SCREEN MATERIAL</th> <th>FILTER MATERIAL</th> </tr> </thead> <tbody> <tr> <td> Surface: Steel grade box Monitor: 2" PVC </td> <td> Type: 2" PVC Slot Size: .020" </td> <td> Type: #2 Sand Setting: 33.0-50.0' SEAL MATERIAL Type: Bentonite Setting: 2.0-33.0' </td> </tr> <tr> <td colspan="2"> COMMENTS: </td> <td> LEGEND <div style="display: flex; align-items: center;"> <div style="width: 20px; height: 10px; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); border: 1px solid black; margin-right: 5px;"></div> Cement/Bentonite Grout </div> <div style="display: flex; align-items: center;"> <div style="width: 20px; height: 10px; background-color: black; border: 1px solid black; margin-right: 5px;"></div> Bentonite Seal </div> <div style="display: flex; align-items: center;"> <div style="width: 20px; height: 10px; background: radial-gradient(circle, black 1px, transparent 1px); background-size: 4px 4px; border: 1px solid black; margin-right: 5px;"></div> Silica Sandpack </div> </td> </tr> <tr> <td> Client: NYSDEC </td> <td> Location : Meeker Avenue Site </td> <td> Project No.: 11174989.00002 </td> </tr> <tr> <td> URS Corporation </td> <td> MONITORING WELL CONSTRUCTION DETAILS </td> <td> Well Number: DEC-042 </td> </tr> </tbody> </table>		CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL	Surface: Steel grade box Monitor: 2" PVC	Type: 2" PVC Slot Size: .020"	Type: #2 Sand Setting: 33.0-50.0' SEAL MATERIAL Type: Bentonite Setting: 2.0-33.0'	COMMENTS:		LEGEND <div style="display: flex; align-items: center;"> <div style="width: 20px; height: 10px; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); border: 1px solid black; margin-right: 5px;"></div> Cement/Bentonite Grout </div> <div style="display: flex; align-items: center;"> <div style="width: 20px; height: 10px; background-color: black; border: 1px solid black; margin-right: 5px;"></div> Bentonite Seal </div> <div style="display: flex; align-items: center;"> <div style="width: 20px; height: 10px; background: radial-gradient(circle, black 1px, transparent 1px); background-size: 4px 4px; border: 1px solid black; margin-right: 5px;"></div> Silica Sandpack </div>	Client: NYSDEC	Location : Meeker Avenue Site	Project No.: 11174989.00002	URS Corporation	MONITORING WELL CONSTRUCTION DETAILS	Well Number: DEC-042
CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL														
Surface: Steel grade box Monitor: 2" PVC	Type: 2" PVC Slot Size: .020"	Type: #2 Sand Setting: 33.0-50.0' SEAL MATERIAL Type: Bentonite Setting: 2.0-33.0'														
COMMENTS:		LEGEND <div style="display: flex; align-items: center;"> <div style="width: 20px; height: 10px; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); border: 1px solid black; margin-right: 5px;"></div> Cement/Bentonite Grout </div> <div style="display: flex; align-items: center;"> <div style="width: 20px; height: 10px; background-color: black; border: 1px solid black; margin-right: 5px;"></div> Bentonite Seal </div> <div style="display: flex; align-items: center;"> <div style="width: 20px; height: 10px; background: radial-gradient(circle, black 1px, transparent 1px); background-size: 4px 4px; border: 1px solid black; margin-right: 5px;"></div> Silica Sandpack </div>														
Client: NYSDEC	Location : Meeker Avenue Site	Project No.: 11174989.00002														
URS Corporation	MONITORING WELL CONSTRUCTION DETAILS	Well Number: DEC-042														

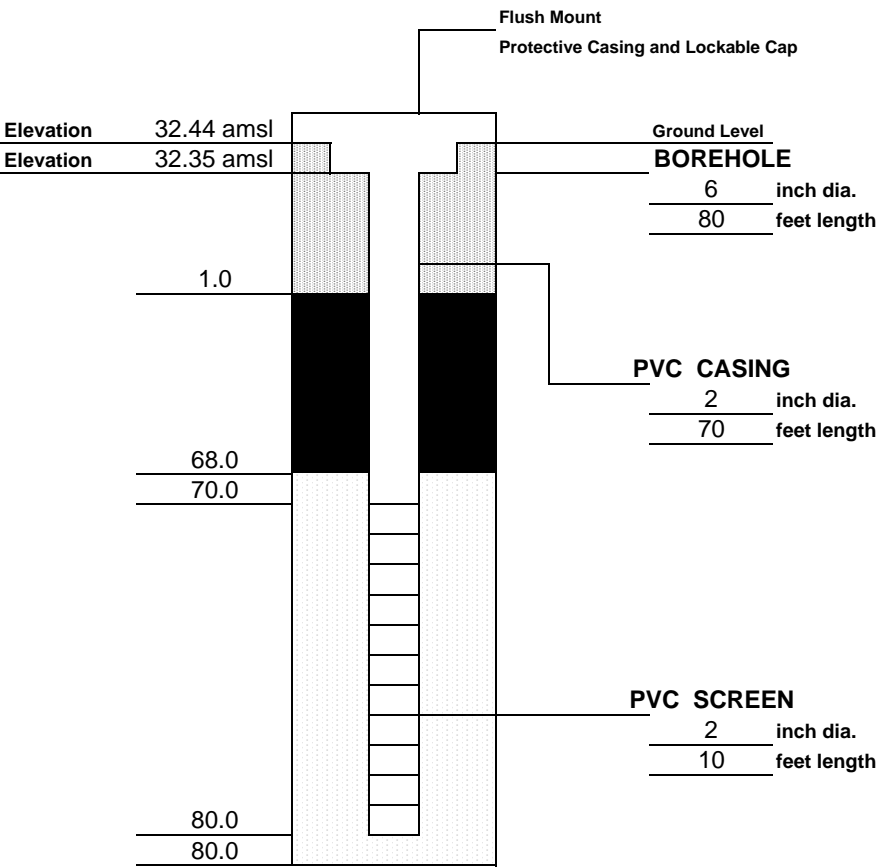
DRILLING SUMMARY		 <p style="text-align: center;">D E P T H (FT)</p>	
Geologist: C. Friedman			
Drilling Company: Aquifer Drilling and Testing, Inc.			
Driller: Jeremy Meyers			
Rig Make/Model: CME-55 LC			
Date: 6/4/2008			
GEOLOGIC LOG			
Depth(ft.)	Description		
	See Boring Log for Lithologic Description.		
WELL DESIGN			
CASING MATERIAL		SCREEN MATERIAL	
Surface: Steel grade box	Type: 2" PVC	FILTER MATERIAL	
Monitor: 2" PVC	Slot Size: .020"	SEAL MATERIAL	
		Type: #2 Sand Setting: 38.0-50.0' Type: Bentonite Setting: 2.0-38.0'	
COMMENTS:		LEGEND	
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Client: NYSDEC		Location : Meeker Avenue Site	
URS Corporation		MONITORING WELL CONSTRUCTION DETAILS	
		Project No.: 11174989.00002 Well Number: DEC-043	

DRILLING SUMMARY		 <p style="text-align: right; margin-right: 50px;">Flush Mount Protective Casing and Lockable Cap</p> <p style="text-align: right; margin-right: 50px;">Ground Level BOREHOLE 6 inch dia. 85 feet length</p> <p style="text-align: right; margin-right: 50px;">PVC CASING 2 inch dia. 75 feet length</p> <p style="text-align: right; margin-right: 50px;">PVC SCREEN 2 inch dia. 10 feet length</p>			
Geologist: C. Friedman					
Drilling Company: Aquifer Drilling and Testing, Inc.					
Driller: J. Meyers					
Rig Make/Model: AMSI 17-C Sonic					
Date: 5/11/2011					
GEOLOGIC LOG		D E P T H (FT)			
Depth(ft.)	Description				
	See Boring Log for Lithologic Description.				
WELL DESIGN					
CASING MATERIAL		SCREEN MATERIAL		FILTER MATERIAL	
Surface: 8" Flush mount steel grade box Monitor: 2" Schedule 40 PVC		Type: 2" Schedule 40 PVC Slot Size: 0.010"		Type: #1 Sand Setting: 72.0-85.0'	
				SEAL MATERIAL	
				Type: Benseal Setting: 2.0-72.0'	
COMMENTS:				LEGEND	
				<div style="display: flex; align-items: center;"> <div style="width: 30px; height: 15px; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); border: 1px solid black; margin-right: 5px;"></div> Cement/Bentonite Grout </div>	
				<div style="display: flex; align-items: center;"> <div style="width: 30px; height: 15px; background-color: black; border: 1px solid black; margin-right: 5px;"></div> Bentonite Seal </div>	
		<div style="display: flex; align-items: center;"> <div style="width: 30px; height: 15px; background: radial-gradient(circle, black 1px, transparent 1px); background-size: 4px 4px; border: 1px solid black; margin-right: 5px;"></div> Silica Sandpack </div>			
Client: NYSDEC		Former Klink Cosmo Cleaners		Project No.: 11176390.00002	
URS Corporation		MONITORING WELL CONSTRUCTION DETAILS		Well Number: DEC-043D	

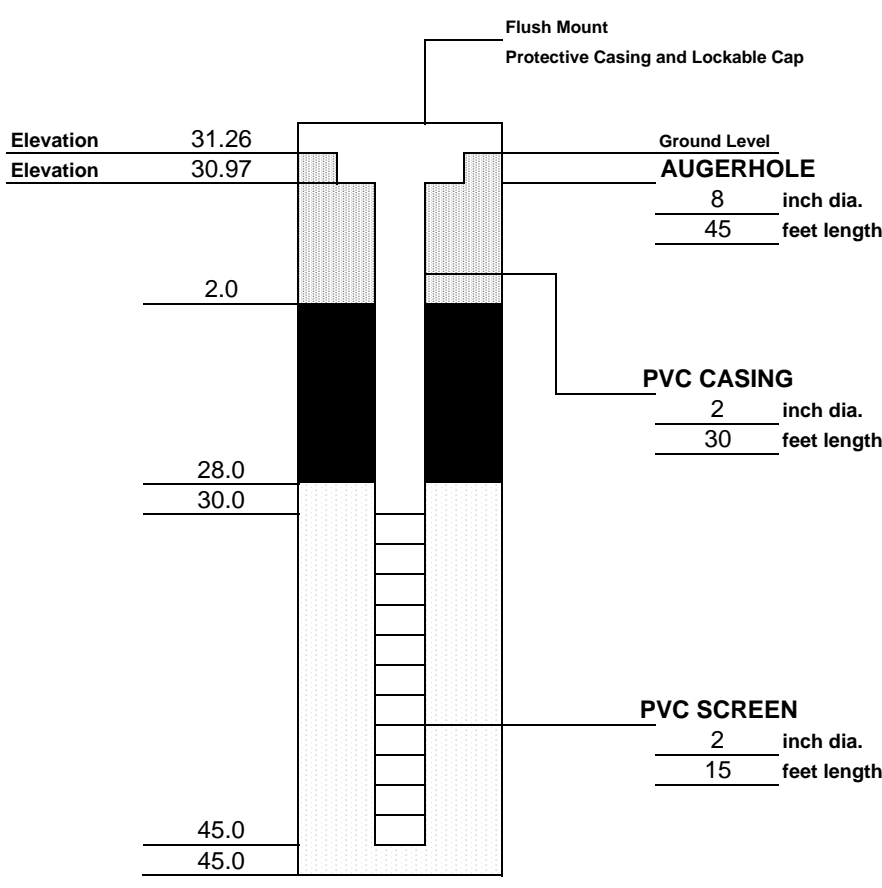
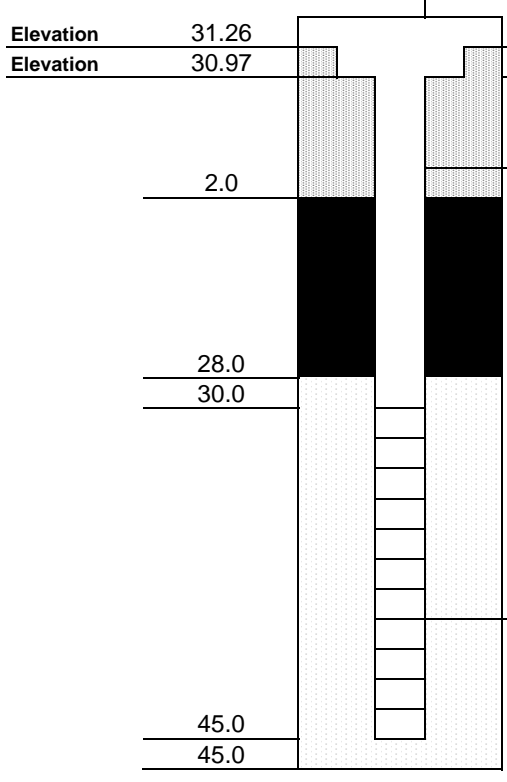
DRILLING SUMMARY		 <p style="text-align: center;">D E P T H (FT)</p>	
Geologist: C. Friedman			
Drilling Company: Aquifer Drilling and Testing, Inc.			
Driller: Jeremy Meyers			
Rig Make/Model: CME-55 LC			
Date: 6/20/2008			
GEOLOGIC LOG			
Depth(ft.)	Description		
	See Boring Log for Lithologic Description.		
WELL DESIGN			
CASING MATERIAL		SCREEN MATERIAL	
Surface: Steel grade box Monitor: 2" PVC		Type: 2" PVC Slot Size: .020"	
		FILTER MATERIAL	
		Type: #2 Sand Setting: 28.0-45.0'	
		SEAL MATERIAL	
		Type: Bentonite Setting: 2.0-28.0'	
COMMENTS:		LEGEND	
		Cement/Bentonite Grout	
		Bentonite Seal	
		Silica Sandpack	
Client: NYSDEC		Location : Meeker Avenue Site	
Project No.: 11174989.00002		Well Number: DEC-044	
URS Corporation		MONITORING WELL CONSTRUCTION DETAILS	

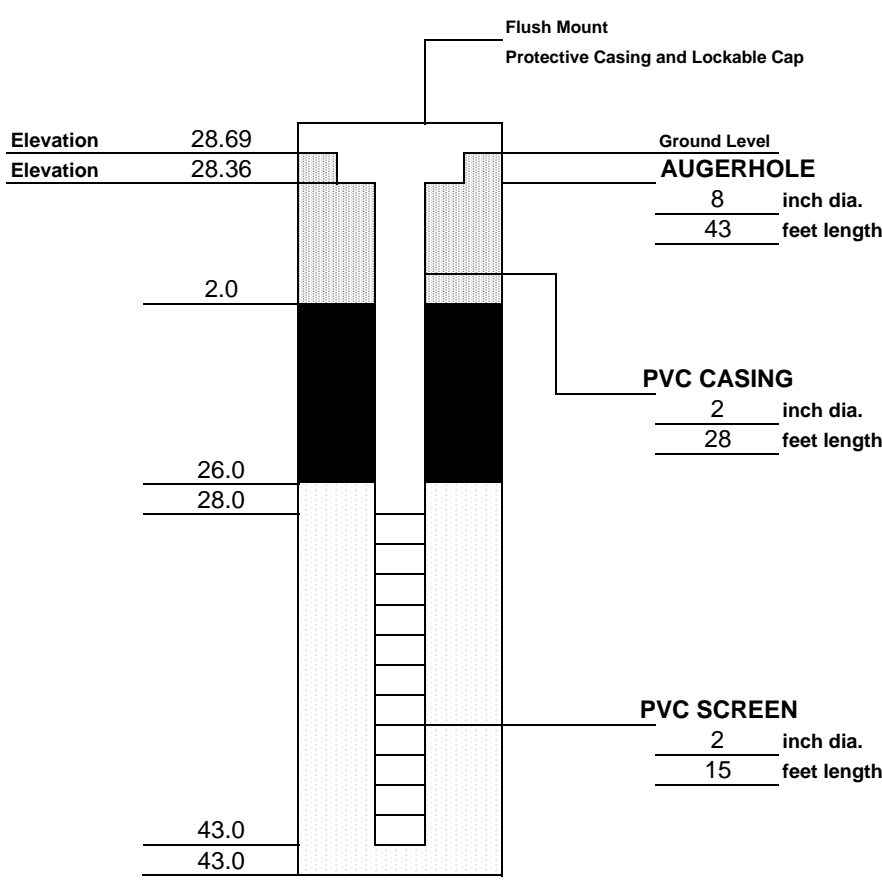
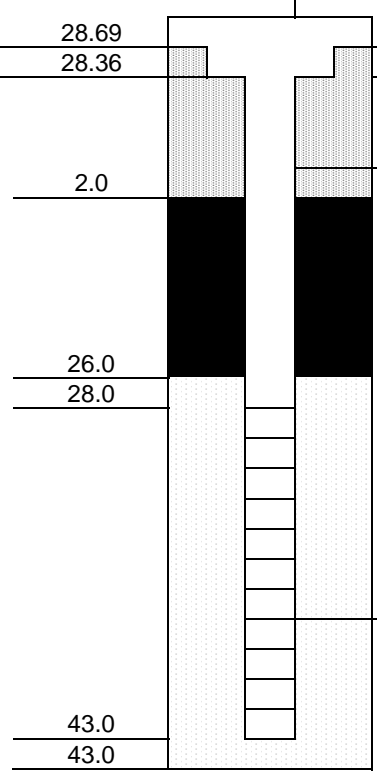


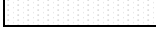
DRILLING SUMMARY		 <p style="text-align: center;">D E P T H (FT)</p>	
Geologist: C. Friedman			
Drilling Company: Aquifer Drilling and Testing, Inc.			
Driller: J. Meyers			
Rig Make/Model: AMSI 17-C Sonic			
Date: 6/2/2011			
GEOLOGIC LOG			
Depth(ft.)	Description		
	See Boring Log for Lithologic Description.		
WELL DESIGN			
CASING MATERIAL		SCREEN MATERIAL	
Surface: 8" Flush mount steel grade box	Type: 2" Schedule 40 PVC	FILTER MATERIAL	
Monitor: 2" Schedule 40 PVC	Slot Size: 0.010"	SEAL MATERIAL	
		Type: #1 Sand Setting: 67.0-80.0' Type: Benseal Setting: 4.0-67.0'	
COMMENTS:		LEGEND	
		<div style="display: flex; align-items: center;"> <div style="width: 30px; height: 15px; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); border: 1px solid black; margin-right: 5px;"></div> Cement/Bentonite Grout </div>	
		<div style="display: flex; align-items: center;"> <div style="width: 30px; height: 15px; background-color: black; border: 1px solid black; margin-right: 5px;"></div> Bentonite Seal </div>	
		<div style="display: flex; align-items: center;"> <div style="width: 30px; height: 15px; background: radial-gradient(circle, black 1px, transparent 1px); background-size: 4px 4px; border: 1px solid black; margin-right: 5px;"></div> Silica Sandpack </div>	
Client: NYSDEC		Former Klink Cosmo Cleaners	
URS Corporation		MONITORING WELL CONSTRUCTION DETAILS	
		Project No.: 11176390.00002	
		Well Number: DEC-044D	

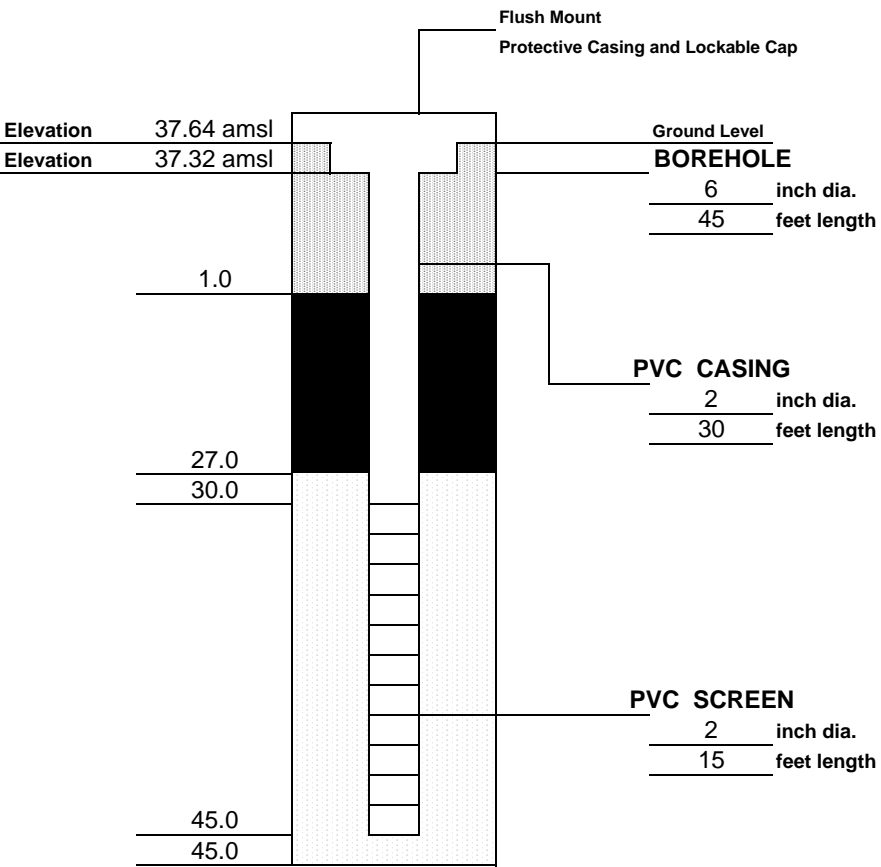
DRILLING SUMMARY		 <p style="font-size: small;"> Flush Mount Protective Casing and Lockable Cap Ground Level AUGERHOLE 8 inch dia. 47 feet length PVC CASING 2 inch dia. 30 feet length PVC SCREEN 2 inch dia. 15 feet length </p>	
Geologist: S. McCabe			
Drilling Company: Aquifer Drilling and Testing, Inc.			
Driller: Shawn Miller			
Rig Make/Model: CME-85			
Date: 6/16/2008			
GEOLOGIC LOG		D E P T H (FT)	 <p style="font-size: small;"> Elevation 32.55 Elevation 32.30 2.0 28.0 30.0 45.0 47.0 </p>
Depth(ft.)	Description		
	See Boring Log for Lithologic Description.		
WELL DESIGN			
CASING MATERIAL		SCREEN MATERIAL	
Surface: Steel grade box Monitor: 2" PVC		Type: 2" PVC Slot Size: .020"	
		FILTER MATERIAL	
		Type: #2 Sand Setting: 28.0-47.0'	
		SEAL MATERIAL	
		Type: Bentonite Setting: 2.0-28.0'	
COMMENTS:		LEGEND	
		<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background-color: #cccccc; border: 1px solid black;"></div> Cement/Bentonite Grout </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background-color: #000000; border: 1px solid black;"></div> Bentonite Seal </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background-color: #ffffff; border: 1px solid black;"></div> Silica Sandpack </div>	
Client: NYSDEC		Location : Meeker Avenue Site	
Project No.: 11174989.00002			
URS Corporation		MONITORING WELL CONSTRUCTION DETAILS	
Well Number: DEC-045			

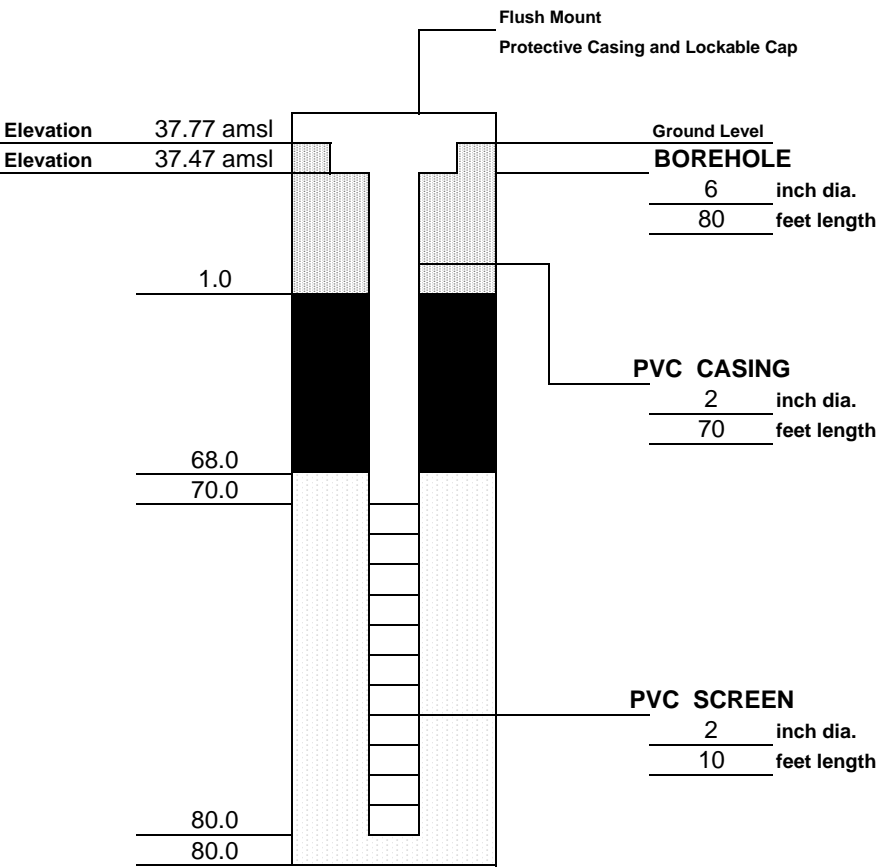
DRILLING SUMMARY		 <p style="text-align: center;">D E P T H (FT)</p>	
Geologist: S. McCabe			
Drilling Company: Aquifer Drilling and Testing, Inc.			
Driller: G. Rivera			
Rig Make/Model: AMSI 17-C Sonic			
Date: 5/19/2011			
GEOLOGIC LOG			
Depth(ft.)	Description		
	See Boring Log for Lithologic Description.		
WELL DESIGN			
CASING MATERIAL		SCREEN MATERIAL	
Surface: 8" Flush mount steel grade box	Type: 2" Schedule 40 PVC	FILTER MATERIAL	
Monitor: 2" Schedule 40 PVC	Slot Size: 0.010"	SEAL MATERIAL	
COMMENTS:		LEGEND	
		<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); border: 1px solid black;"></div> Cement/Bentonite Grout </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background-color: black; border: 1px solid black;"></div> Bentonite Seal </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background: radial-gradient(circle, black 1px, transparent 1px); background-size: 4px 4px; border: 1px solid black;"></div> Silica Sandpack </div>	
Client: NYSDEC		Former Klink Cosmo Cleaners	
URS Corporation		MONITORING WELL CONSTRUCTION DETAILS	
		Project No.: 11176390.00002	
		Well Number: DEC-045D	

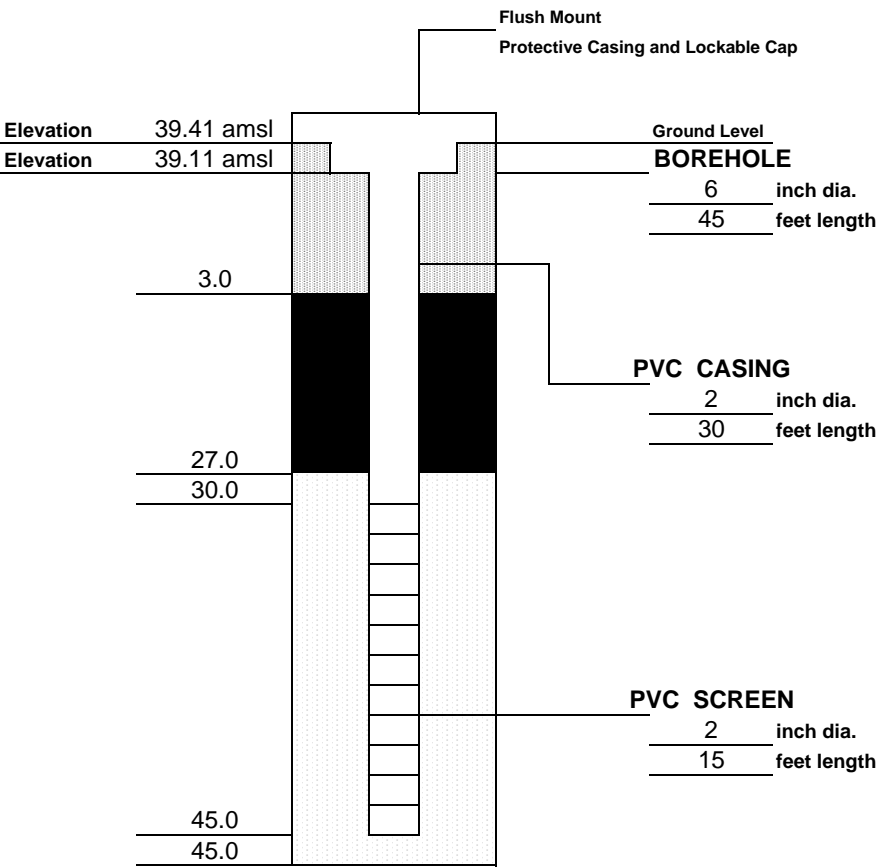
DRILLING SUMMARY					
Geologist: S. McCabe					
Drilling Company: Aquifer Drilling and Testing, Inc.					
Driller: Shawn Miller					
Rig Make/Model: CME-85					
Date: 6/23/2008					
GEOLOGIC LOG					
Depth(ft.)	Description				
	See Boring Log for Lithologic Description.				
WELL DESIGN					
CASING MATERIAL		SCREEN MATERIAL		FILTER MATERIAL	
Surface: Steel grade box Monitor: 2" PVC		Type: 2" PVC Slot Size: .020"		Type: #2 Sand Setting: 28.0-46.0' SEAL MATERIAL Type: Bentonite Setting: 2.0-28.0'	
COMMENTS:				LEGEND 	
Client: NYSDEC		Location : Meeker Avenue Site		Project No.: 11174989.00002	
URS Corporation		MONITORING WELL CONSTRUCTION DETAILS		Well Number: DEC-046	

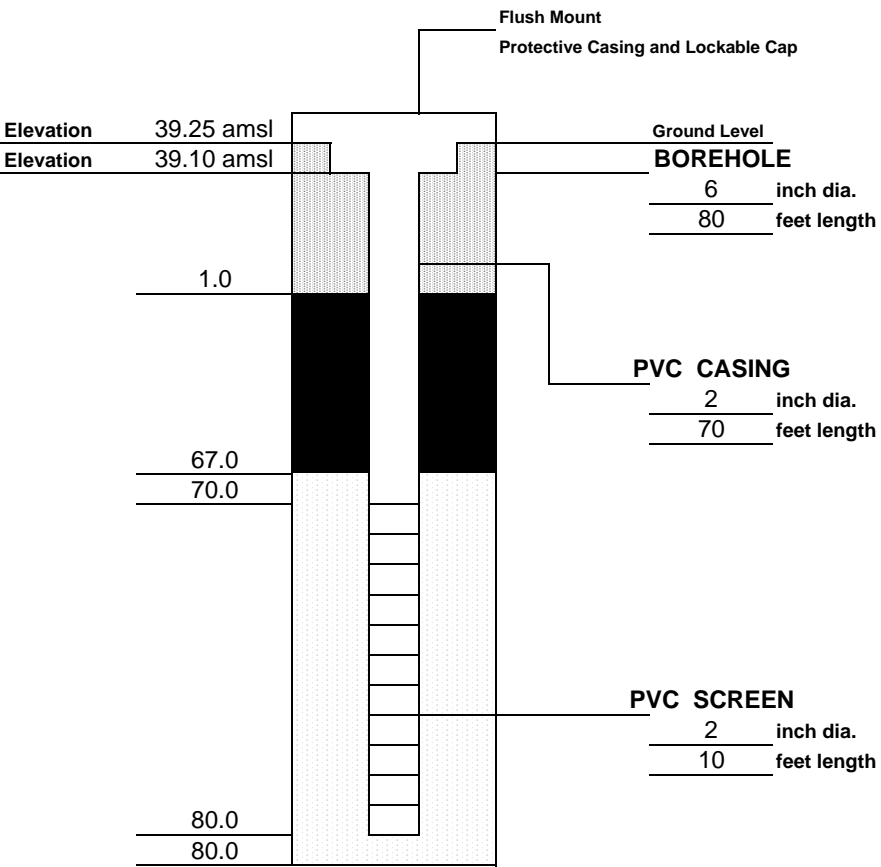
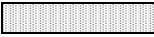


DRILLING SUMMARY		 <p style="text-align: right;">Flush Mount Protective Casing and Lockable Cap</p> <p style="text-align: right;">Ground Level</p> <p>AUGERHOLE 8 inch dia. 45 feet length</p> <p>PVC CASING 2 inch dia. 30 feet length</p> <p>PVC SCREEN 2 inch dia. 15 feet length</p>		
Geologist: C. Friedman				
Drilling Company: Aquifer Drilling and Testing, Inc.				
Driller: Jeremy Meyers				
Rig Make/Model: CME-55 LC				
Date: 6/30/2008				
GEOLOGIC LOG		D E P T H (FT)	 <p>Elevation 31.26 Elevation 30.97</p> <p>2.0</p> <p>28.0 30.0</p> <p>45.0 45.0</p>	
Depth(ft.)	Description			
	See Boring Log for Lithologic Description.			
WELL DESIGN				
CASING MATERIAL		SCREEN MATERIAL	FILTER MATERIAL	
Surface: Steel grade box Monitor: 2" PVC		Type: 2" PVC Slot Size: .020"	Type: #2 Sand Setting: 28.0-45.0'	
			SEAL MATERIAL Type: Bentonite Setting: 2.0-28.0'	
COMMENTS:			LEGEND <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); border: 1px solid black;"></div> Cement/Bentonite Grout </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background-color: black; border: 1px solid black;"></div> Bentonite Seal </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background: radial-gradient(circle, black 1px, transparent 1px); background-size: 4px 4px; border: 1px solid black;"></div> Silica Sandpack </div>	
Client: NYSDEC		Location : Meeker Avenue Site		
Project No.: 11174989.00002				
URS Corporation		MONITORING WELL CONSTRUCTION DETAILS		
Well Number: DEC-047				

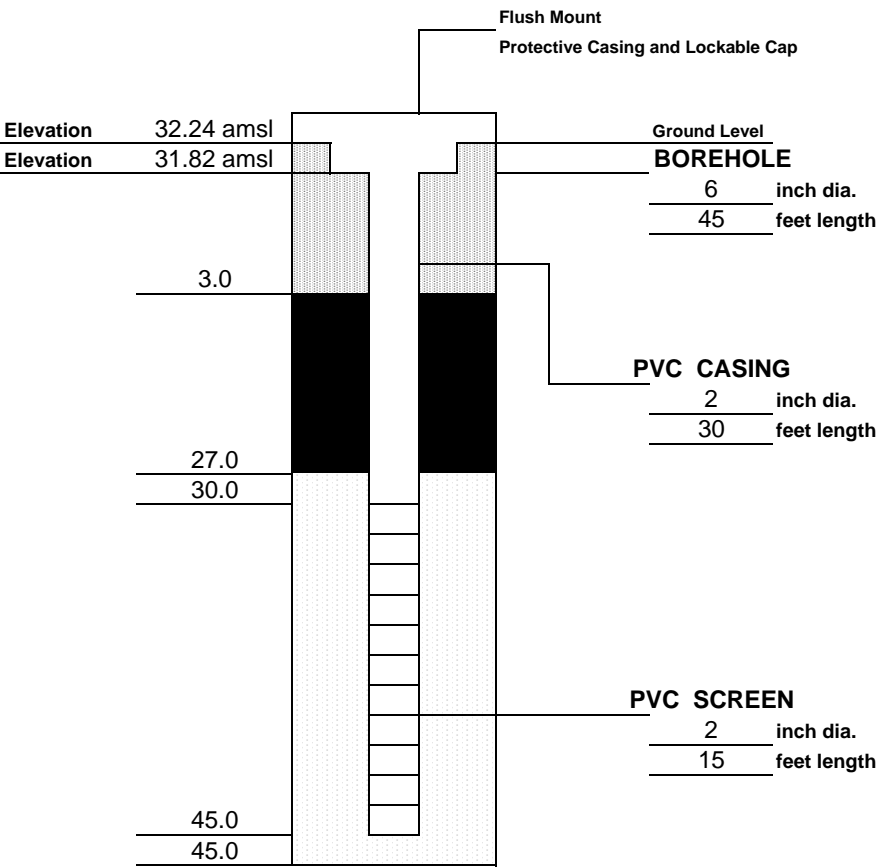
DRILLING SUMMARY		 <p style="text-align: center;">Flush Mount Protective Casing and Lockable Cap</p> <p style="text-align: center;">Ground Level</p> <p>AUGERHOLE 8 inch dia. 43 feet length</p> <p>PVC CASING 2 inch dia. 28 feet length</p> <p>PVC SCREEN 2 inch dia. 15 feet length</p>		
Geologist: C. Friedman				
Drilling Company: Aquifer Drilling and Testing, Inc.				
Driller: Jeremy Meyers				
Rig Make/Model: CME-55 LC				
Date: 6/25/2008				
GEOLOGIC LOG		D E P T H (FT)	 <p>Elevation 28.69 Elevation 28.36</p> <p>2.0</p> <p>26.0 28.0</p> <p>43.0 43.0</p>	
Depth(ft.)	Description			
	See Boring Log for Lithologic Description.			
WELL DESIGN				
CASING MATERIAL		SCREEN MATERIAL		FILTER MATERIAL
Surface: Steel grade box Monitor: 2" PVC		Type: 2" PVC Slot Size: .020"		Type: #2 Sand Setting: 26.0-43.0'
				SEAL MATERIAL
				Type: Bentonite Setting: 2.0-26.0'
COMMENTS:			LEGEND	
			 Cement/Bentonite Grout	
			 Bentonite Seal	
			 Silica Sandpack	
Client: NYSDEC		Location : Meeker Avenue Site		Project No.: 11174989.00002
URS Corporation		MONITORING WELL CONSTRUCTION DETAILS		Well Number: DEC-048

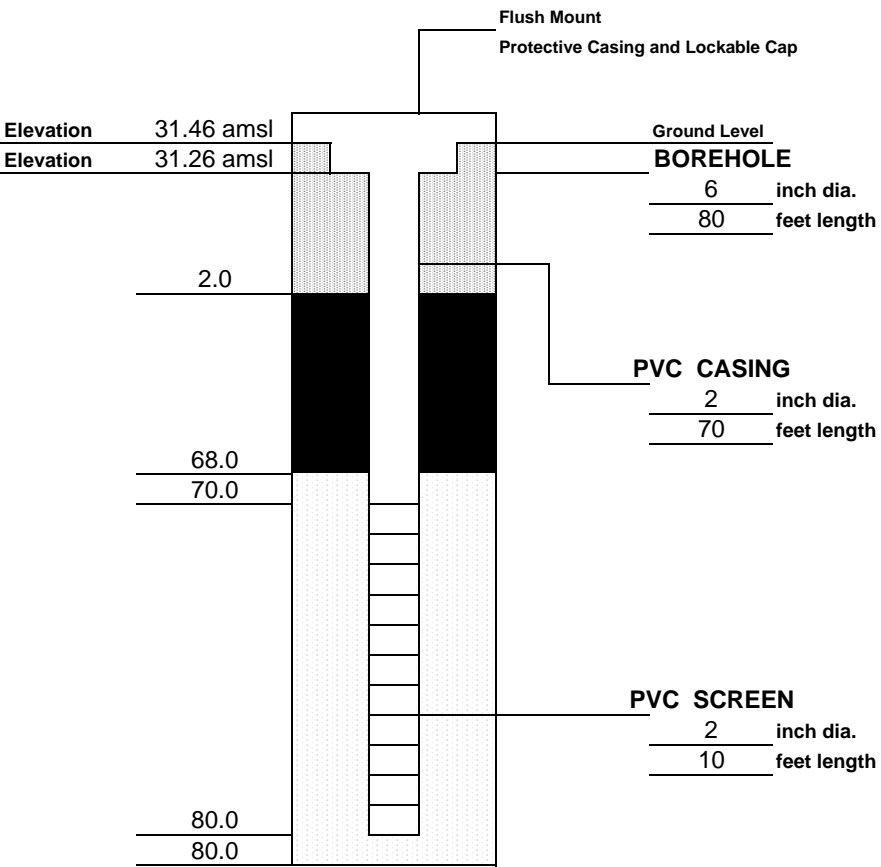
DRILLING SUMMARY		 <p style="text-align: right; margin-right: 50px;">Flush Mount Protective Casing and Lockable Cap</p> <p style="text-align: right;">Ground Level</p> <p>BOREHOLE 6 inch dia. 45 feet length</p> <p>PVC CASING 2 inch dia. 30 feet length</p> <p>PVC SCREEN 2 inch dia. 15 feet length</p>			
Geologist: S. McCabe					
Drilling Company: Aquifer Drilling and Testing, Inc.					
Driller: G. Rivera					
Rig Make/Model: AMSI 17-C Sonic					
Date: 5/20/2011					
GEOLOGIC LOG		D E P T H (FT)			
Depth(ft.)	Description				
	See Boring Log for Lithologic Description.				
WELL DESIGN					
CASING MATERIAL		SCREEN MATERIAL		FILTER MATERIAL	
Surface: 8" Flush mount steel grade box Monitor: 2" Schedule 40 PVC		Type: 2" Schedule 40 PVC Slot Size: 0.010"		Type: #1 Sand Setting: 27.0-45.0'	
				SEAL MATERIAL	
				Type: Benseal Setting: 1.0-27.0'	
COMMENTS:				LEGEND	
				<div style="display: flex; align-items: center;"> <div style="width: 30px; height: 15px; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); border: 1px solid black; margin-right: 5px;"></div> Cement/Bentonite Grout </div>	
				<div style="display: flex; align-items: center;"> <div style="width: 30px; height: 15px; background-color: black; border: 1px solid black; margin-right: 5px;"></div> Bentonite Seal </div>	
				<div style="display: flex; align-items: center;"> <div style="width: 30px; height: 15px; background: radial-gradient(circle, black 1px, transparent 1px); background-size: 4px 4px; border: 1px solid black; margin-right: 5px;"></div> Silica Sandpack </div>	
Client: NYSDEC		Former Klink Cosmo Cleaners		Project No.: 11176390.00002	
URS Corporation		MONITORING WELL CONSTRUCTION DETAILS		Well Number: DEC-064	

DRILLING SUMMARY		 <p style="text-align: center;">D E P T H (FT)</p>	
Geologist: C. Friedman			
Drilling Company: Aquifer Drilling and Testing, Inc.			
Driller: J. Meyers			
Rig Make/Model: AMSI 17-C Sonic			
Date: 5/13/2011			
GEOLOGIC LOG			
Depth(ft.)	Description		
	See Boring Log for Lithologic Description.		
WELL DESIGN			
CASING MATERIAL		SCREEN MATERIAL	
Surface: 8" Flush mount steel grade box	Type: 2" Schedule 40 PVC	FILTER MATERIAL	
Monitor: 2" Schedule 40 PVC	Slot Size: 0.010"	SEAL MATERIAL	
		Type: #1 Sand Setting: 68.0-80.0' Type: Benseal Setting: 1.0-68.0'	
COMMENTS:		LEGEND	
		<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); border: 1px solid black;"></div> Cement/Bentonite Grout </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background-color: black; border: 1px solid black;"></div> Bentonite Seal </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background: radial-gradient(circle, black 1px, transparent 1px); background-size: 4px 4px; border: 1px solid black;"></div> Silica Sandpack </div>	
Client: NYSDEC	Former Klink Cosmo Cleaners	Project No.: 11176390.00002	
URS Corporation	MONITORING WELL CONSTRUCTION DETAILS	Well Number: DEC-064D	

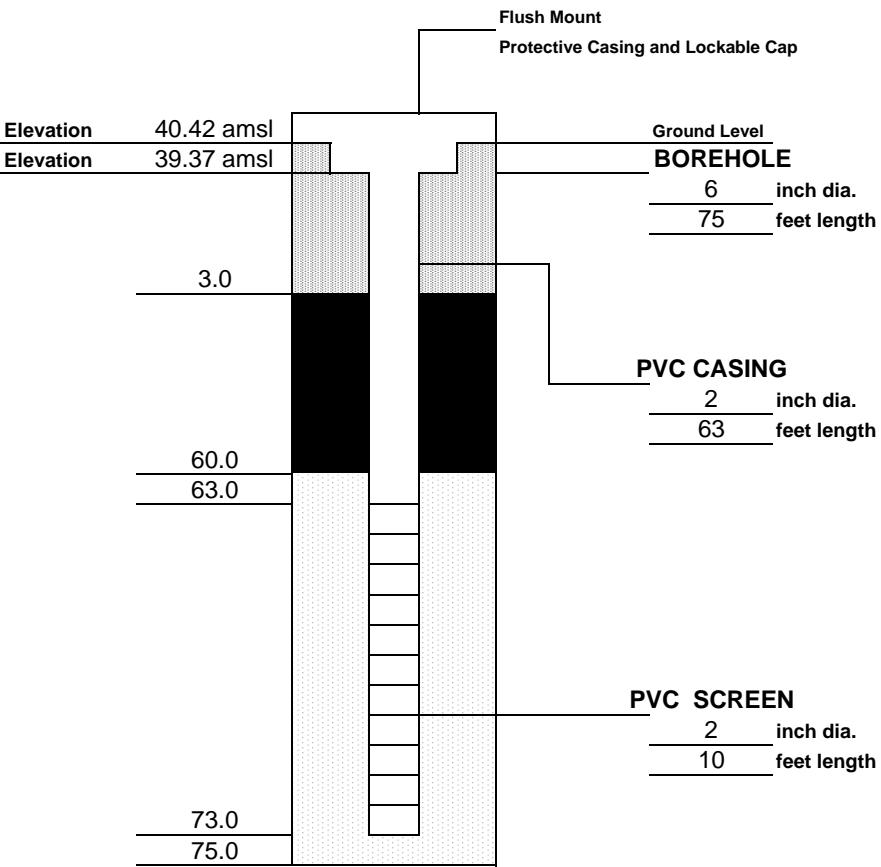
DRILLING SUMMARY		 <p style="text-align: center;">D E P T H (FT)</p>	
Geologist: C. Friedman			
Drilling Company: Aquifer Drilling and Testing, Inc.			
Driller: J. Meyers			
Rig Make/Model: AMSI 17-C Sonic			
Date: 5/25/2011			
GEOLOGIC LOG			
Depth(ft.)	Description		
	See Boring Log for Lithologic Description.		
WELL DESIGN			
CASING MATERIAL		SCREEN MATERIAL	
Surface: 8" Flush mount steel grade box	Type: 2" Schedule 40 PVC	FILTER MATERIAL	
Monitor: 2" Schedule 40 PVC	Slot Size: 0.010"	SEAL MATERIAL	
		Type: #1 Sand Setting: 27.0-45.0' Type: Benseal Setting: 3.0-27.0'	
COMMENTS:		LEGEND	
		<div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 30px; height: 15px; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); border: 1px solid black; margin-right: 5px;"></div> Cement/Bentonite Grout </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 30px; height: 15px; background-color: black; border: 1px solid black; margin-right: 5px;"></div> Bentonite Seal </div> <div style="display: flex; align-items: center;"> <div style="width: 30px; height: 15px; background: radial-gradient(circle, black 1px, transparent 1px); background-size: 4px 4px; border: 1px solid black; margin-right: 5px;"></div> Silica Sandpack </div>	
Client: NYSDEC		Former Klink Cosmo Cleaners	
URS Corporation		MONITORING WELL CONSTRUCTION DETAILS	
		Project No.: 11176390.00002	
		Well Number: DEC-065	

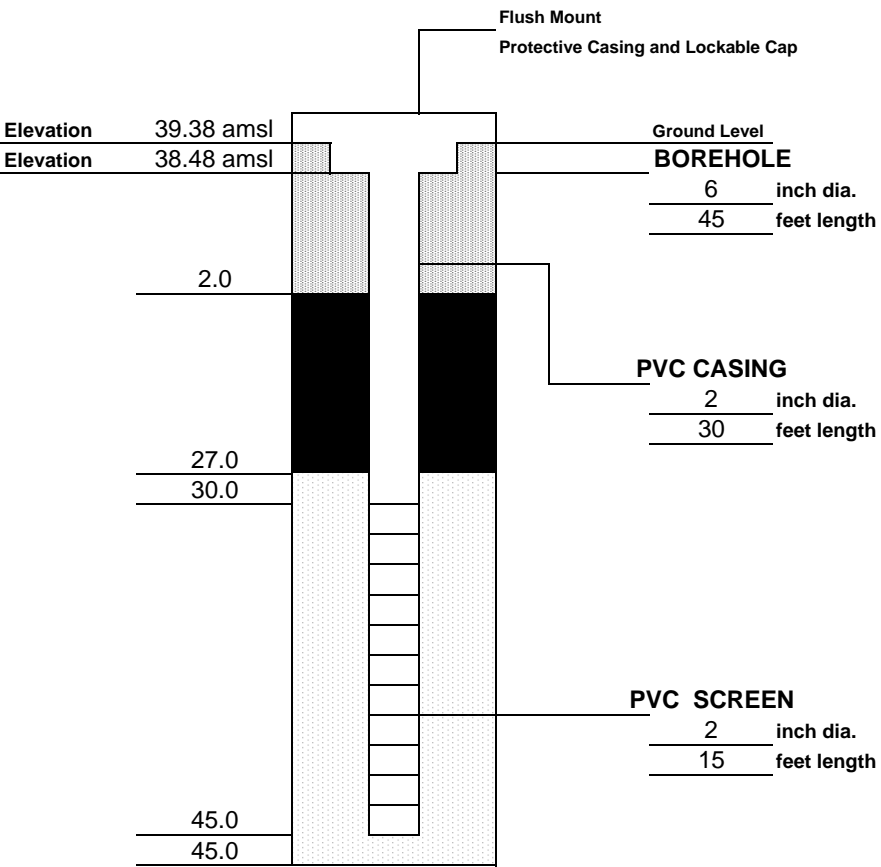
DRILLING SUMMARY		 <p style="text-align: center;">D E P T H (FT)</p>	
Geologist: C. Friedman			
Drilling Company: Aquifer Drilling and Testing, Inc.			
Driller: J. Meyers			
Rig Make/Model: AMSI 17-C Sonic			
Date: 5/25/2011			
GEOLOGIC LOG			
Depth(ft.)	Description		
	See Boring Log for Lithologic Description.		
WELL DESIGN			
CASING MATERIAL		SCREEN MATERIAL	
Surface: 8" Flush mount steel grade box	Type: 2" Schedule 40 PVC	FILTER MATERIAL	
Monitor: 2" Schedule 40 PVC	Slot Size: 0.010"	SEAL MATERIAL	
COMMENTS:		LEGEND	
		<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>Cement/Bentonite Grout</p> </div> <div style="text-align: center;">  <p>Bentonite Seal</p> </div> <div style="text-align: center;">  <p>Silica Sandpack</p> </div> </div>	
Client: NYSDEC		Former Klink Cosmo Cleaners	
URS Corporation		MONITORING WELL CONSTRUCTION DETAILS	
		Project No.: 11176390.00002 Well Number: DEC-065D	

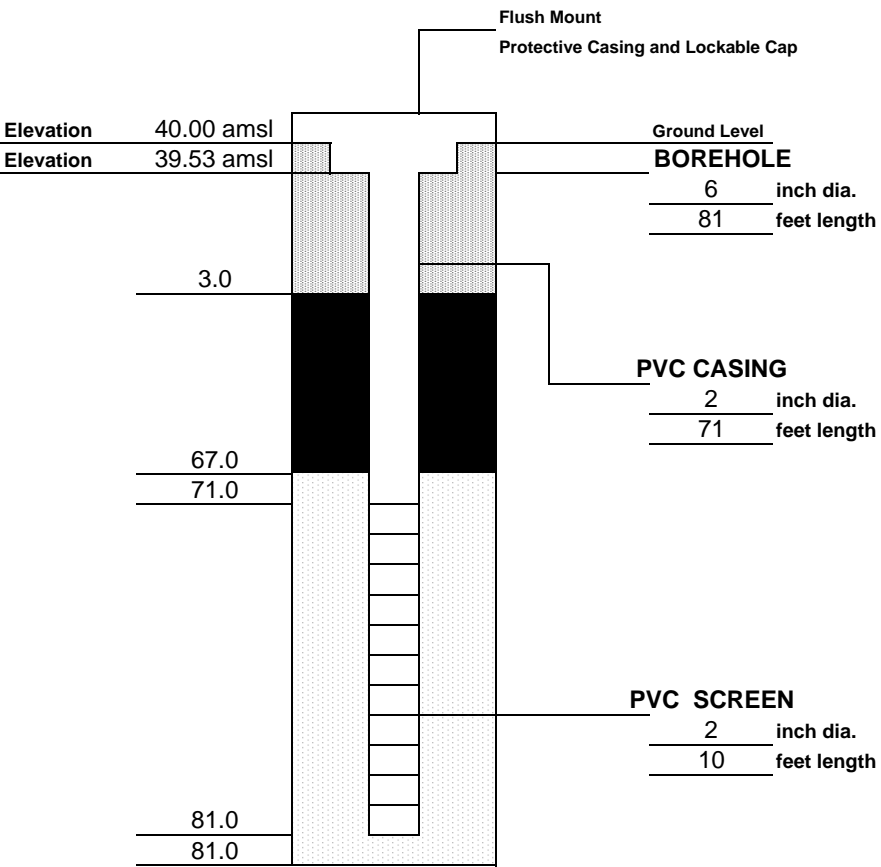
DRILLING SUMMARY		 <p style="text-align: center;">D E P T H (FT)</p>	
Geologist: C. Friedman			
Drilling Company: Aquifer Drilling and Testing, Inc.			
Driller: J. Meyers			
Rig Make/Model: AMSI 17-C Sonic			
Date: 5/23/2011			
GEOLOGIC LOG			
Depth(ft.)	Description		
	See Boring Log for Lithologic Description.		
WELL DESIGN			
CASING MATERIAL		SCREEN MATERIAL	
Surface: 8" Flush mount steel grade box	Type: 2" Schedule 40 PVC	FILTER MATERIAL	
Monitor: 2" Schedule 40 PVC	Slot Size: 0.010"	SEAL MATERIAL	
		Type: #1 Sand Setting: 27.0-45.0' Type: Benseal Setting: 3.0-27.0'	
COMMENTS:		LEGEND	
		<div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 30px; height: 15px; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); border: 1px solid black; margin-right: 5px;"></div> Cement/Bentonite Grout </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 30px; height: 15px; background-color: black; border: 1px solid black; margin-right: 5px;"></div> Bentonite Seal </div> <div style="display: flex; align-items: center;"> <div style="width: 30px; height: 15px; background: radial-gradient(circle, black 1px, transparent 1px); background-size: 4px 4px; border: 1px solid black; margin-right: 5px;"></div> Silica Sandpack </div>	
Client: NYSDEC		Former Klink Cosmo Cleaners	
URS Corporation		MONITORING WELL CONSTRUCTION DETAILS	
		Project No.: 11176390.00002	
		Well Number: DEC-066	

DRILLING SUMMARY		 <p style="text-align: center;">D E P T H (FT)</p>	
Geologist: C. Friedman			
Drilling Company: Aquifer Drilling and Testing, Inc.			
Driller: J. Meyers			
Rig Make/Model: AMSI 17-C Sonic			
Date: 5/23/2011			
GEOLOGIC LOG			
Depth(ft.)	Description		
	See Boring Log for Lithologic Description.		
WELL DESIGN			
CASING MATERIAL		SCREEN MATERIAL	
Surface: 8" Flush mount steel grade box	Type: 2" Schedule 40 PVC	FILTER MATERIAL	
Monitor: 2" Schedule 40 PVC	Slot Size: 0.010"	SEAL MATERIAL	
		Type: #1 Sand Setting: 68.0-80.0' Type: Benseal Setting: 2.0-68.0'	
COMMENTS:		LEGEND	
		<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); border: 1px solid black;"></div> Cement/Bentonite Grout </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background-color: black; border: 1px solid black;"></div> Bentonite Seal </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background: radial-gradient(circle, black 1px, transparent 1px); background-size: 4px 4px; border: 1px solid black;"></div> Silica Sandpack </div>	
Client: NYSDEC		Former Klink Cosmo Cleaners	
URS Corporation		MONITORING WELL CONSTRUCTION DETAILS	
		Project No.: 11176390.00002 Well Number: DEC-066D	

RI PHASE II

DRILLING SUMMARY		 <p style="text-align: center;">D E P T H (FT)</p>	
Geologist: S. McCabe			
Drilling Company: Aquifer Drilling and Testing, Inc.			
Driller: J. McGill			
Rig Make/Model: AMS 17-C Sonic			
Date: 3/14/2012			
GEOLOGIC LOG			
Depth(ft.)	Description		
	See Boring Log for Lithologic Description.		
WELL DESIGN			
CASING MATERIAL		SCREEN MATERIAL	
Surface: 8" Flush mount steel grade box	Type: 2" Schedule 40 PVC	FILTER MATERIAL	
Monitor: 2" Schedule 40 PVC	Slot Size: 0.010"	SEAL MATERIAL	
		Type: #1 Sand Setting: 60.0-75.0' Type: Bentonite Setting: 3.0-60.0'	
COMMENTS:		LEGEND	
		<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); border: 1px solid black;"></div> Cement/Bentonite Grout </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background-color: black; border: 1px solid black;"></div> Bentonite Seal </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background: radial-gradient(circle, black 1px, transparent 1px); background-size: 4px 4px; border: 1px solid black;"></div> Silica Sandpack </div>	
Client: NYSDEC	Former Klink Cosmo Cleaners	Project No.: 11176390.00002	
URS Corporation	MONITORING WELL CONSTRUCTION DETAILS	Well Number: DEC-011D	

DRILLING SUMMARY		 <p style="text-align: center;">D E P T H (FT)</p>	
Geologist: S. McCabe			
Drilling Company: Aquifer Drilling and Testing, Inc.			
Driller: J. McGill			
Rig Make/Model: AMS 17-C Sonic			
Date: 3/12/2012			
GEOLOGIC LOG			
Depth(ft.)	Description		
	See Boring Log for Lithologic Description.		
WELL DESIGN			
CASING MATERIAL		SCREEN MATERIAL	
Surface: 8" Flush mount steel grade box	Type: 2" Schedule 40 PVC	FILTER MATERIAL	
Monitor: 2" Schedule 40 PVC	Slot Size: 0.010"	SEAL MATERIAL	
		Type: #1 Sand Setting: 27.0-45.0' Type: Bentonite Setting: 2.0-27.0'	
COMMENTS:		LEGEND	
		<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background-color: #cccccc; border: 1px solid black;"></div> Cement/Bentonite Grout </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background-color: #000000; border: 1px solid black;"></div> Bentonite Seal </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background-color: #e0e0e0; border: 1px solid black;"></div> Silica Sandpack </div>	
Client: NYSDEC	Former Klink Cosmo Cleaners	Project No.: 11176390.00002	
URS Corporation	MONITORING WELL CONSTRUCTION DETAILS	Well Number: DEC-015R	

DRILLING SUMMARY		 <p style="text-align: center;">D E P T H (FT)</p>	
Geologist: S. McCabe			
Drilling Company: Aquifer Drilling and Testing, Inc.			
Driller: J. McGill			
Rig Make/Model: AMS 17-C Sonic			
Date: 3/13/2012			
GEOLOGIC LOG			
Depth(ft.)	Description		
	See Boring Log for Lithologic Description.		
WELL DESIGN			
CASING MATERIAL		SCREEN MATERIAL	
Surface: 8" Flush mount steel grade box	Type: 2" Schedule 40 PVC	FILTER MATERIAL	
Monitor: 2" Schedule 40 PVC	Slot Size: 0.010"	SEAL MATERIAL	
COMMENTS:		LEGEND	
		<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background-color: #cccccc; border: 1px solid black;"></div> Cement/Bentonite Grout </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background-color: #000000; border: 1px solid black;"></div> Bentonite Seal </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background-color: #e0e0e0; border: 1px solid black;"></div> Silica Sandpack </div>	
Client: NYSDEC		Former Klink Cosmo Cleaners	
URS Corporation		MONITORING WELL CONSTRUCTION DETAILS	
		Project No.: 11176390.00002	
		Well Number: DEC-028D	

DRILLING SUMMARY	
Geologist: S. McCabe	
Drilling Company: Aquifer Drilling and Testing, Inc.	
Driller: J. McGill	
Rig Make/Model: AMS 17-C Sonic	
Date: 3/15/2012	
GEOLOGIC LOG	
Depth(ft.)	Description
	See Boring Log for Lithologic Description.
WELL DESIGN	

DEPTH (FT)

Flush Mount
Protective Casing and Lockable Cap

Elevation 36.66 amsl
Elevation 36.01 amsl

Ground Level

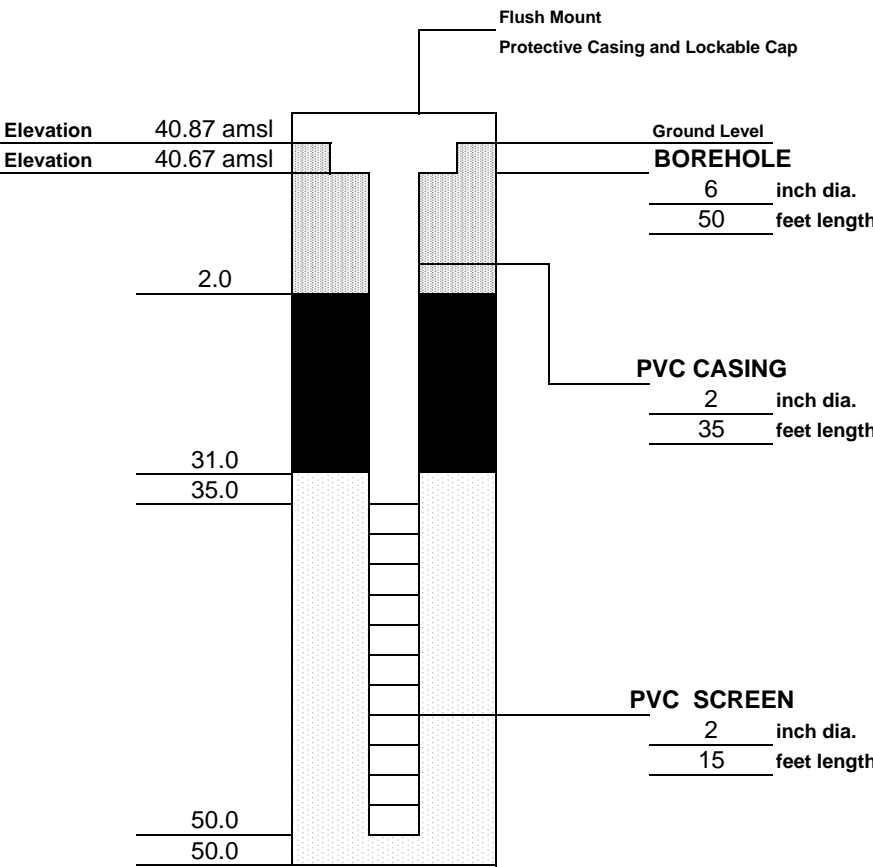
BOREHOLE
6 inch dia.
75 feet length

PVC CASING
2 inch dia.
63.5 feet length

PVC SCREEN
2 inch dia.
10 feet length

2.0
61.0
63.5
73.5
75.0

CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: 8" Flush mount steel grade box Monitor: 2" Schedule 40 PVC	Type: 2" Schedule 40 PVC Slot Size: 0.010"	Type: #1 Sand Setting: 61.0-75.0' SEAL MATERIAL Type: Bentonite Setting: 2.0-61.0'
COMMENTS:		LEGEND <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 20px; height: 10px; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); border: 1px solid black; margin-right: 5px;"></div> Cement/Bentonite Grout </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 20px; height: 10px; background-color: black; border: 1px solid black; margin-right: 5px;"></div> Bentonite Seal </div> <div style="display: flex; align-items: center;"> <div style="width: 20px; height: 10px; background: radial-gradient(circle, black 1px, transparent 1px); background-size: 4px 4px; border: 1px solid black; margin-right: 5px;"></div> Silica Sandpack </div>
Client: NYSDEC	Former Klink Cosmo Cleaners	Project No.: 11176390.00002
URS Corporation	MONITORING WELL CONSTRUCTION DETAILS	Well Number: DEC-046D

DRILLING SUMMARY		 <p style="text-align: center;">D E P T H (FT)</p>	
Geologist: S. McCabe			
Drilling Company: Aquifer Drilling and Testing, Inc.			
Driller: J. McGill			
Rig Make/Model: AMS 17-C Sonic			
Date: 3/1/2012			
GEOLOGIC LOG			
Depth(ft.)	Description		
	See Boring Log for Lithologic Description.		
WELL DESIGN			
CASING MATERIAL		SCREEN MATERIAL	
Surface: 8" Flush mount steel grade box	Type: 2" Schedule 40 PVC	FILTER MATERIAL	
Monitor: 2" Schedule 40 PVC	Slot Size: 0.010"	SEAL MATERIAL	
		Type: #1 Sand Setting: 31.0-50.0' Type: Bentonite Setting: 2.0-31.0'	
COMMENTS:		LEGEND	
		<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); border: 1px solid black;"></div> Cement/Bentonite Grout </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background-color: black; border: 1px solid black;"></div> Bentonite Seal </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background: radial-gradient(circle, black 1px, transparent 1px); background-size: 4px 4px; border: 1px solid black;"></div> Silica Sandpack </div>	
Client: NYSDEC	Former Klink Cosmo Cleaners	Project No.: 11176390.00002	
URS Corporation	MONITORING WELL CONSTRUCTION DETAILS	Well Number: DEC-088	

DRILLING SUMMARY	
Geologist: S. McCabe	
Drilling Company: Aquifer Drilling and Testing, Inc.	
Driller: J. McGill	
Rig Make/Model: AMS 17-C Sonic	
Date: 3/1/2012	
GEOLOGIC LOG	
Depth(ft.)	Description
	See Boring Log for Lithologic Description.
WELL DESIGN	

DEPTH (FT)

Flush Mount
Protective Casing and Lockable Cap

Elevation 40.42 amsl
Elevation 39.69 amsl

Ground Level

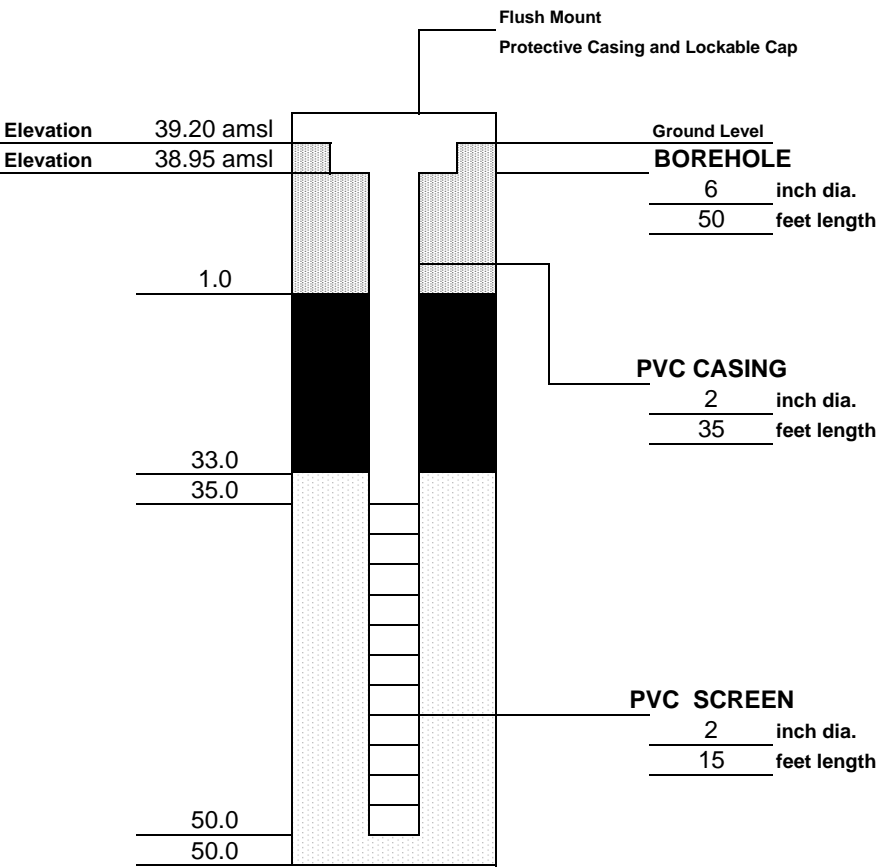
BOREHOLE
6 inch dia.
90 feet length

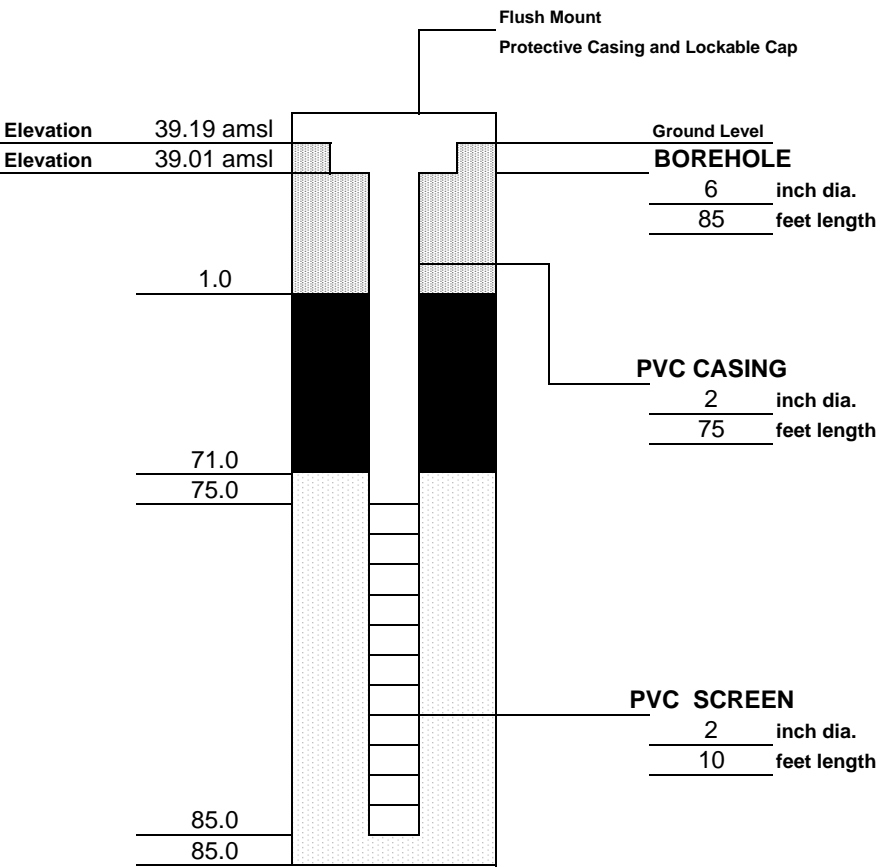



PVC CASING
2 inch dia.
75 feet length

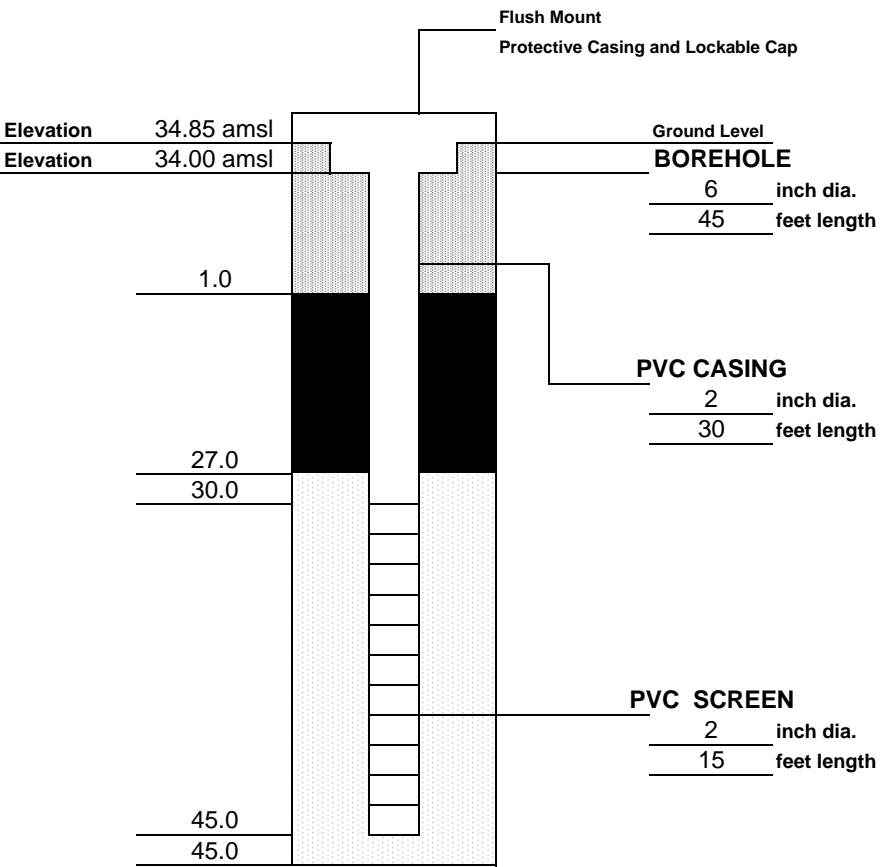
PVC SCREEN
2 inch dia.
10 feet length

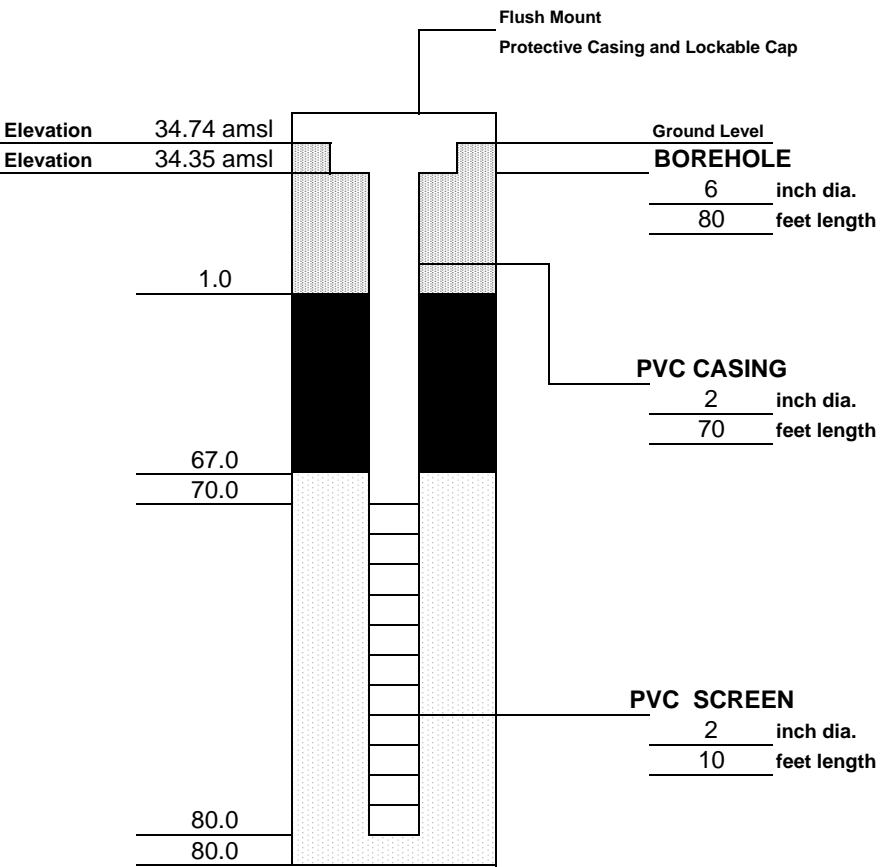



2.0
72.0
75.0
85.0
90.0

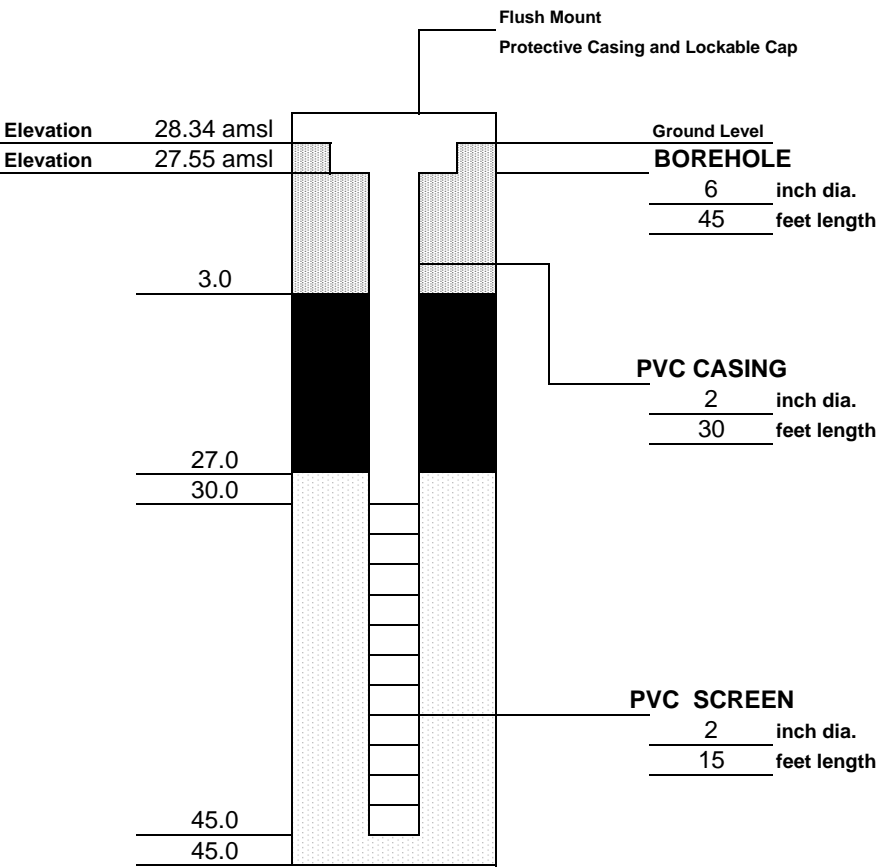
CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: 8" Flush mount steel grade box Monitor: 2" Schedule 40 PVC	Type: 2" Schedule 40 PVC Slot Size: 0.010"	Type: #1 Sand Setting: 72.0-90.0' SEAL MATERIAL Type: Bentonite Setting: 2.0-72.0'
COMMENTS:		LEGEND <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 20px; height: 10px; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); border: 1px solid black; margin-right: 5px;"></div> Cement/Bentonite Grout </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 20px; height: 10px; background-color: black; border: 1px solid black; margin-right: 5px;"></div> Bentonite Seal </div> <div style="display: flex; align-items: center;"> <div style="width: 20px; height: 10px; background: radial-gradient(circle, black 1px, transparent 1px); background-size: 4px 4px; border: 1px solid black; margin-right: 5px;"></div> Silica Sandpack </div>
Client: NYSDEC	Former Klink Cosmo Cleaners	Project No.: 11176390.00002
URS Corporation	MONITORING WELL CONSTRUCTION DETAILS	Well Number: DEC-088D

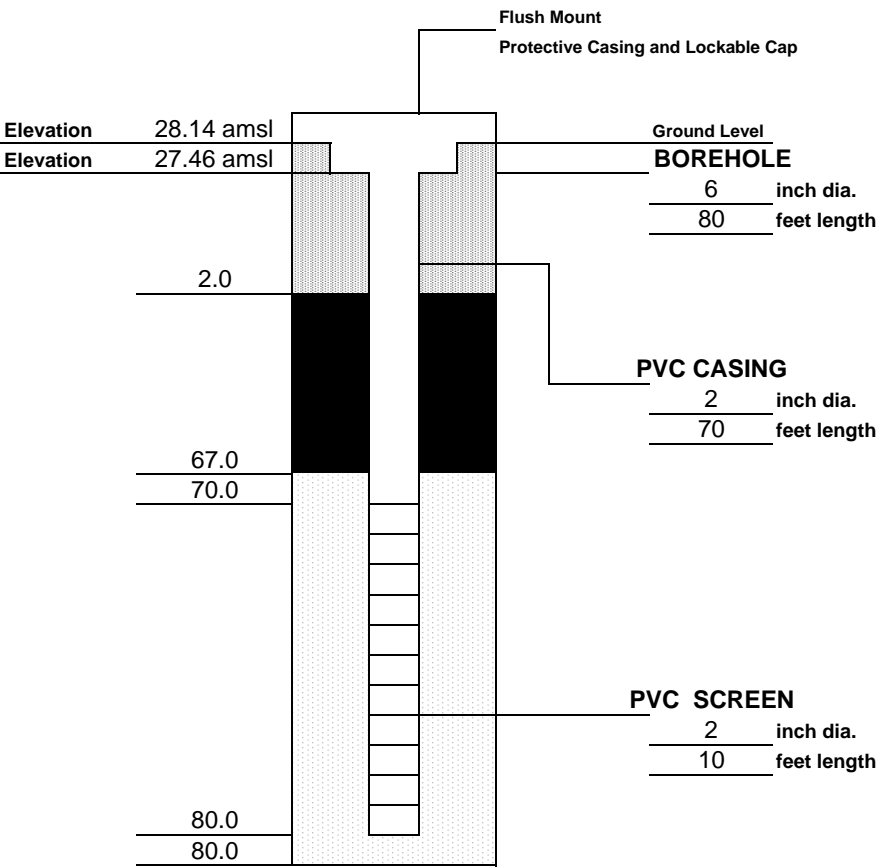
DRILLING SUMMARY		 <p style="font-size: small; margin-top: 10px;"> Flush Mount Protective Casing and Lockable Cap </p> <p style="margin-top: 10px;"> Elevation 39.20 amsl Elevation 38.95 amsl </p> <p style="margin-top: 10px;"> Ground Level BOREHOLE 6 inch dia. 50 feet length </p> <p style="margin-top: 10px;"> PVC CASING 2 inch dia. 35 feet length </p> <p style="margin-top: 10px;"> PVC SCREEN 2 inch dia. 15 feet length </p>		
Geologist: S. McCabe				
Drilling Company: Aquifer Drilling and Testing, Inc.				
Driller: J. McGill				
Rig Make/Model: AMS 17-C Sonic				
Date: 3/5/2012				
GEOLOGIC LOG		D E P T H (FT)		
Depth(ft.)	Description			
	See Boring Log for Lithologic Description.			
WELL DESIGN				
CASING MATERIAL			SCREEN MATERIAL	FILTER MATERIAL
Surface: 8" Flush mount steel grade box Monitor: 2" Schedule 40 PVC			Type: 2" Schedule 40 PVC Slot Size: 0.010"	Type: #1 Sand Setting: 33.0-50.0' SEAL MATERIAL Type: Bentonite Setting: 1.0-33.0'
COMMENTS:			LEGEND <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 20px; height: 10px; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); border: 1px solid black; margin-right: 5px;"></div> Cement/Bentonite Grout </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 20px; height: 10px; background-color: black; border: 1px solid black; margin-right: 5px;"></div> Bentonite Seal </div> <div style="display: flex; align-items: center;"> <div style="width: 20px; height: 10px; background: radial-gradient(circle, black 1px, transparent 1px); background-size: 4px 4px; border: 1px solid black; margin-right: 5px;"></div> Silica Sandpack </div>	
Client: NYSDEC			Former Klink Cosmo Cleaners	Project No.: 11176390.00002
URS Corporation			MONITORING WELL CONSTRUCTION DETAILS	Well Number: DEC-089

DRILLING SUMMARY		<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> DEPTH (FT) </div>  <div style="text-align: center;"> BOREHOLE 6 inch dia. 85 feet length PVC CASING 2 inch dia. 75 feet length PVC SCREEN 2 inch dia. 10 feet length </div> </div>	
Geologist: S. McCabe			
Drilling Company: Aquifer Drilling and Testing, Inc.			
Driller: J. McGill			
Rig Make/Model: AMS 17-C Sonic			
Date: 3/5/2012			
GEOLOGIC LOG			
Depth(ft.)	Description		
	See Boring Log for Lithologic Description.		
WELL DESIGN			
CASING MATERIAL		SCREEN MATERIAL	
Surface: 8" Flush mount steel grade box Monitor: 2" Schedule 40 PVC	Type: 2" Schedule 40 PVC Slot Size: 0.010"	<div style="display: flex; justify-content: space-between;"> <div> Type: #1 Sand SEAL MATERIAL Type: Bentonite </div> <div> Setting: 71.0-85.0' Setting: 1.0-71.0' </div> </div>	
COMMENTS:		LEGEND	
		<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  Cement/Bentonite Grout </div> <div style="text-align: center;">  Bentonite Seal </div> <div style="text-align: center;">  Silica Sandpack </div> </div>	
Client: NYSDEC		Former Klink Cosmo Cleaners	
URS Corporation		MONITORING WELL CONSTRUCTION DETAILS	
		Project No.: 11176390.00002 Well Number: DEC-089D	

DRILLING SUMMARY		 <p style="text-align: center;">D E P T H (FT)</p>	
Geologist: S. McCabe			
Drilling Company: Aquifer Drilling and Testing, Inc.			
Driller: J. McGill			
Rig Make/Model: AMS 17-C Sonic			
Date: 3/7/2012			
GEOLOGIC LOG			
Depth(ft.)	Description		
	See Boring Log for Lithologic Description.		
WELL DESIGN			
CASING MATERIAL		SCREEN MATERIAL	
Surface: 8" Flush mount steel grade box	Type: 2" Schedule 40 PVC	FILTER MATERIAL	
Monitor: 2" Schedule 40 PVC	Slot Size: 0.010"	SEAL MATERIAL	
		Type: #1 Sand Setting: 27.0-45.0' Type: Bentonite Setting: 1.0-27.0'	
COMMENTS:		LEGEND	
		<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); border: 1px solid black;"></div> Cement/Bentonite Grout </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background-color: black; border: 1px solid black;"></div> Bentonite Seal </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background: radial-gradient(circle, black 1px, transparent 1px); background-size: 4px 4px; border: 1px solid black;"></div> Silica Sandpack </div>	
Client: NYSDEC	Former Klink Cosmo Cleaners	Project No.: 11176390.00002	
URS Corporation	MONITORING WELL CONSTRUCTION DETAILS	Well Number: DEC-090	

DRILLING SUMMARY		 <p style="text-align: center;">D E P T H (FT)</p>	
Geologist: S. McCabe			
Drilling Company: Aquifer Drilling and Testing, Inc.			
Driller: J. McGill			
Rig Make/Model: AMS 17-C Sonic			
Date: 3/7/2012			
GEOLOGIC LOG			
Depth(ft.)	Description		
	See Boring Log for Lithologic Description.		
WELL DESIGN			
CASING MATERIAL		SCREEN MATERIAL	
Surface: 8" Flush mount steel grade box	Type: 2" Schedule 40 PVC	FILTER MATERIAL	
Monitor: 2" Schedule 40 PVC	Slot Size: 0.010"	SEAL MATERIAL	
		Type: #1 Sand Setting: 67.0-80.0' Type: Bentonite Setting: 1.0-67.0'	
COMMENTS:		LEGEND	
		<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  Cement/Bentonite Grout </div> <div style="text-align: center;">  Bentonite Seal </div> <div style="text-align: center;">  Silica Sandpack </div> </div>	
Client: NYSDEC	Former Klink Cosmo Cleaners	Project No.: 11176390.00002	
URS Corporation	MONITORING WELL CONSTRUCTION DETAILS	Well Number: DEC-090D	

DRILLING SUMMARY		 <p style="text-align: center;">D E P T H (FT)</p>	
Geologist: S. McCabe			
Drilling Company: Aquifer Drilling and Testing, Inc.			
Driller: J. McGill			
Rig Make/Model: AMS 17-C Sonic			
Date: 3/9/2012			
GEOLOGIC LOG			
Depth(ft.)	Description		
	See Boring Log for Lithologic Description.		
WELL DESIGN			
CASING MATERIAL		SCREEN MATERIAL	
Surface: 8" Flush mount steel grade box	Type: 2" Schedule 40 PVC	FILTER MATERIAL	
Monitor: 2" Schedule 40 PVC	Slot Size: 0.010"	SEAL MATERIAL	
		Type: #1 Sand Setting: 27.0-45.0' Type: Bentonite Setting: 3.0-27.0'	
COMMENTS:		LEGEND	
		<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); border: 1px solid black;"></div> Cement/Bentonite Grout </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background-color: black; border: 1px solid black;"></div> Bentonite Seal </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background: radial-gradient(circle, black 1px, transparent 1px); background-size: 4px 4px; border: 1px solid black;"></div> Silica Sandpack </div>	
Client: NYSDEC	Former Klink Cosmo Cleaners	Project No.: 11176390.00002	
URS Corporation	MONITORING WELL CONSTRUCTION DETAILS	Well Number: DEC-091	

DRILLING SUMMARY		 <p style="text-align: center;">D E P T H (FT)</p>	
Geologist: S. McCabe			
Drilling Company: Aquifer Drilling and Testing, Inc.			
Driller: J. McGill			
Rig Make/Model: AMS 17-C Sonic			
Date: 3/9/2012			
GEOLOGIC LOG			
Depth(ft.)	Description		
	See Boring Log for Lithologic Description.		
WELL DESIGN			
CASING MATERIAL		SCREEN MATERIAL	
Surface: 8" Flush mount steel grade box	Type: 2" Schedule 40 PVC	FILTER MATERIAL	
Monitor: 2" Schedule 40 PVC	Slot Size: 0.010"	SEAL MATERIAL	
		Type: #1 Sand Setting: 67.0-80.0' Type: Bentonite Setting: 2.0-67.0'	
COMMENTS:		LEGEND	
		<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); border: 1px solid black;"></div> Cement/Bentonite Grout </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background-color: black; border: 1px solid black;"></div> Bentonite Seal </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 15px; background: radial-gradient(circle, black 1px, transparent 1px); background-size: 4px 4px; border: 1px solid black;"></div> Silica Sandpack </div>	
Client: NYSDEC	Former Klink Cosmo Cleaners	Project No.: 11176390.00002	
URS Corporation	MONITORING WELL CONSTRUCTION DETAILS	Well Number: DEC-091D	

APPENDIX H

MONITORING WELL DEVELOPMENT LOGS

RI PHASE I

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Avenue Plume Track-Down WELL NO.: DEC-04

PROJECT NO.: 11174989.00002

STAFF: S.M.

DATE(S): 6/20/2007

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>51.00</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>34.25</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>16.8</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>2.8</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u>8.54</u>	6"	1.50
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	<u>50</u>	8"	2.60
OR V=0.0408 x (CASING DIAMETER) ²				

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)									
	1	20	25	30	35	45	50			
pH	6.32	6.38	7.06	7.06	7.06	7.06	7.06			
SPEC. COND. (mS)	2350	2440	2330	2300	2270	2240	2210			
TURBIDITY (NTU)	>1000	>1000	522	390	214	56	27			
TEMPERATURE (°C)	18.9	18.1	18	18.1	18	17.9	17.9			

COMMENTS:

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Avenue Plume Track-Down WELL NO.: DEC-06

PROJECT NO.: 11174989.00002 Pg 1 of 2

STAFF: S.M.

DATE(S): 5/29/07, 6/6/07, and 6/20/07

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>32.35</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>24.26</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>8.1</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>1.4</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u>4.13</u>	6"	1.50
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	<u>52</u>	8"	2.60
OR $V=0.0408 \times (\text{CASING DIAMETER})^2$				

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)										
	0	5	10	15	20	25	30	32	34	36	38
pH	6.86	6.36	6.57	6.80	6.74	6.71	6.61	6.67	6.59	6.58	6.56
SPEC. COND. (umhos)	880	830	920	960	970	950	920	930	950	950	960
TURBIDITY (NTU)	>1000	>1000	>1000	>1000	>1000	>1000	>1000	377	180	300	270
TEMPERATURE (°C)	24.9	19.3	18.4	20.0	19.4	20.0	19.1	18.5	18.7	18.6	18.5

COMMENTS:

Well purged to dryness, recharge 1' every 2-minutes, let sit 5-minutes and again purged to dryness.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Avenue Plume Track-Down WELL NO.: DEC-06

PROJECT NO.: 11174989.00002 Pg 2 of 2

STAFF: S.M.

DATE(S): 5/29/07, 6/6/07, and 6/20/07

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>32.35</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>24.26</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>8.1</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>1.4</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u>4.13</u>	6"	1.50
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	<u>52</u>	8"	2.60
OR $V=0.0408 \times (\text{CASING DIAMETER})^2$				

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)										
	40	45	48	50	52						
pH	6.79	6.76	6.79	6.81	6.83						
SPEC. COND. (umhos)	940	910	900	920	910						
TURBIDITY (NTU)	157	93	68	72	41						
TEMPERATURE (°C)	16.9	16.9	16.8	16.8	16.7						

COMMENTS:

Well purged to dryness, recharge 1' every 2-minutes, let sit 5-minutes and again purged to dryness.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Avenue Plume Trackdown Site WELL NO.: DEC-006D

PROJECT NO.: 11174989.00002 Page: 1 of 2

STAFF: Scott McCabe

DATE(S): 6/3/08

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>57.30</u>	WELL ID. 1"	VOL. (GAL/FT) 0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>43.98</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>13.32</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>2.26</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u> </u>	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	<u>110</u>	8"	2.60

OR
V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	5	10	15	20	25	30	35	40	45	50	55
pH	6.27	5.96	6.00	6.07	6.11	6.13	6.11	6.18	---	6.21	6.16
SPEC. COND. (mS/cm)	1.030	1.040	1.070	1.100	1.120	1.130	1.130	1.140	---	1.150	1.150
TURBIDITY (NTU)	>1000	>1000	>1000	732	134	102	84	141	---	>1000	102
TEMPERATURE (°C)	20.4	18.0	17.2	17.3	17.1	17.1	17.0	17.0	---	17.2	16.9

COMMENTS:

Well developed with Wattera Hyrolift pump using dedicated/disposable HDPE foot valve and tubing.

All development water containerized in 55-gallon drum for off-site disposal.

Pump stopped around 45 gallons, had to restart.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Avenue Plume Trackdown Site WELL NO.: DEC-006D

PROJECT NO.: 11174989.00002 Page: 2 of 2

STAFF: Scott McCabe

DATE(S): 6/3/08

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>57.30</u>	WELL ID. 1"	VOL. (GAL/FT) 0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>43.98</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>13.32</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>2.26</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u> </u>	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	<u>110</u>	8"	2.60

OR
V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	60	65	70	75	80	85	90	95	100	105	110
pH	6.17	6.18	6.16	6.16	6.15	6.15	6.17	6.17	6.18	6.17	6.17
SPEC. COND. (mS/cm)	1.160	1.150	1.170	1.170	1.170	1.160	1.170	1.170	1.180	1.170	1.180
TURBIDITY (NTU)	63	41	31	24	23	30	21	19	18	16	11
TEMPERATURE (°C)	17.0	16.9	16.9	16.9	16.9	16.9	16.9	17.0	17.0	17.0	16.9

COMMENTS:

Well developed with Wattera Hyrolift pump using dedicated/disposable HDPE foot valve and tubing.
All development water containerized in 55-gallon drum for off-site disposal.
Pump stopped around 45 gallons, had to restart.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Ave. - Klink Cosmo Phase 1 WELL NO.: DEC-006DD

PROJECT NO.: 11176390.00002 Page: 1 of 1

STAFF: T. Ifkovich

DATE(S): 5/23/2011

		WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	= <u>93.32</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	= <u>45.34</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	= <u>47.98</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	= <u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	= <u>8.16</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	= _____	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	= <u>100</u>	8"	2.60

OR
V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	Initial	10	20	30	40	50	60	70	80	90	100
pH	6.56	6.48	6.45	6.41	6.40	6.39	6.35	6.35	6.35	6.35	6.33
SPEC. COND. (mS)	1.07	1.12	1.12	1.12	1.11	1.11	1.11	1.11	1.11	1.12	1.12
TEMPERATURE (°C)	16.6	16.0	16.1	16.0	16.0	15.9	15.9	15.9	15.9	15.8	15.8
TURBIDITY (NTU)	>1000	84.8	72.3	63.5	57.5	45.8	60.5	47.6	45.7	43.9	42.7

COMMENTS: Well developed using Waterra inertial pump with dedicated/disposable HDPE tubing and foot valve.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Avenue Plume Trackdown Site WELL NO.: DEC-007

PROJECT NO.: 11174989.00002 Page: 1 of 2

STAFF: Scott McCabe

DATE(S): 11/29/2008

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>56.01</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>39.65</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>16.36</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>2.78</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u> </u>	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	<u>85</u>	8"	2.60

OR
 $V = 0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	5	10	15	20	25	30	35	40	45	50	55
pH	6.62	6.53	6.54	6.56	6.56	6.57	6.58	6.57	6.59	6.60	6.60
SPEC. COND. (mS/cm)	1.410	1.350	1.370	1.350	1.360	1.340	1.350	1.360	1.350	1.350	1.340
TURBIDITY (NTU)	>1000	>1000	>1000	>1000	210	136	118	114	105	97	83
TEMPERATURE (°C)	14.5	15.8	16.2	16.2	16.3	16.0	16.2	16.3	16.2	16.2	16.3

COMMENTS:

Well developed with Wattera Hyrolift pump using dedicated/disposable HDPE foot valve and tubing.
 All development water containerized in 55-gallon drum for off-site disposal.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Avenue Plume Trackdown Site WELL NO.: DEC-007

PROJECT NO.: 11174989.00002 Page: 2 of 2

STAFF: Scott McCabe

DATE(S): 11/29/2008

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>56.01</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>39.65</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>16.36</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>2.78</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u> </u>	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	<u>85</u>	8"	2.60

OR
V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	60	65	70	75	80	85					
pH	6.61	6.61	6.62	6.61	6.62	6.61					
SPEC. COND. (mS/cm)	1.340	1.340	1.340	1.330	1.340	1.340					
TURBIDITY (NTU)	108	115	87	80	61	47					
TEMPERATURE (°C)	15.8	16.0	16.0	16.1	16.0	16.2					

COMMENTS:

Well developed with Wattera Hyrolift pump using dedicated/disposable HDPE foot valve and tubing.
All development water containerized in 55-gallon drum for off-site disposal.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Ave. - Klink Cosmo Phase 1 WELL NO.: DEC-007D

PROJECT NO.: 11176390.00002 Page: 1 of 1

STAFF: T. Ifkovich

DATE(S): 5/20/2011

		WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	= <u>90.43</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	= <u>39.87</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	= <u>50.56</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	= <u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	= <u>8.60</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	= _____	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	= <u>100</u>	8"	2.60

OR
 $V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	Initial	10	20	30	40	50	60	70	80	90	100
pH	8.15	6.40	6.37	6.35	6.38	6.39	6.39	6.42	6.42	6.42	6.38
SPEC. COND. (mS)	0.11	1.32	1.32	1.32	1.34	1.31	1.35	1.31	1.33	1.33	1.31
TEMPERATURE (°C)	19.2	17.2	16.8	16.3	16.2	16.4	16.5	17.1	17.0	16.8	16.6
TURBIDITY (NTU)	37.4	56.6	57.6	37.8	36.6	32.7	26.5	22.1	19.2	17.7	18.5

COMMENTS: Well developed using Waterra inertial pump with dedicated/disposable HDPE tubing and foot valve.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Avenue Plume Track-Down WELL NO.: DEC-08

PROJECT NO.: 11174989.00002

STAFF: A.L.

DATE(S): 6/14/2007

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>47.20</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>36.58</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>10.6</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>1.8</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u>5.42</u>	6"	1.50
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	<u>55</u>	8"	2.60
				OR
				$V=0.0408 \times (\text{CASING DIAMETER})^2$

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)									
	15	30	35	40	45	50	55			
pH	5.87	5.97	5.96	5.96	5.97	6.97	5.96			
SPEC. COND. (mS)	1610	1590	1580	1580	1560	1560	1550			
TURBIDITY (NTU)	300	290	120	120	160	60	43			
TEMPERATURE (°C)	18.2	17.8	18.1	18.1	17.6	17.7	17.9			

COMMENTS:

Note: Slight petroleum odor and sheen on water surface.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Avenue Plume Track-Down WELL NO.: DEC-09

PROJECT NO.: 11174989.00002

STAFF: S.M.

DATE(S): 6/7/2007

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>48.85</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>36.54</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>12.3</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>2.1</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u>6.28</u>	6"	1.50
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	<u>40</u>	8"	2.60
OR $V=0.0408 \times (\text{CASING DIAMETER})^2$				

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)									
	0	5	10	15	20	25	30	35	40	
pH	7.21	6.73	6.74	6.72	6.57	6.58	6.59	6.56	6.55	
SPEC. COND. (umhos)	1530	1510	1500	1500	1500	1500	1500	1500	1500	
TURBIDITY (NTU)	>1000	>1000	>1000	2260	95	50	50	38	35	
TEMPERATURE (°C)	19.8	18.7	18.3	18.5	18.5	18.4	18.3	18.6	18.4	

COMMENTS:

Slight petroleum odor and sheen on water surface.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Avenue Plume Track-Down WELL NO.: DEC-10

PROJECT NO.: 11174989.00002

STAFF: S.M.

DATE(S): 5/30/2007

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>47.70</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>36.42</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>11.3</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>1.9</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u>5.75</u>	6"	1.50
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	<u>50</u>	8"	2.60
OR $V=0.0408 \times (\text{CASING DIAMETER})^2$				

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)										
	0	5	10	15	20	25	30	35	40	45	50
pH	5.70	5.90	5.91	5.96	6.00	6.05	6.06	6.08	6.08	6.11	6.13
SPEC. COND. (umhos)	990	1280	1460	1550	1600	1630	1640	1660	1680	1690	1700
TURBIDITY (NTU)	>1000	>1000	>1000	450	300	160	100	80	55	50	47
TEMPERATURE (°C)	19.5	18.5	18.3	18.1	18.1	18.0	18.0	18.0	18.0	17.8	17.7

COMMENTS:

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Avenue Plume Track-Down WELL NO.: DEC-11

PROJECT NO.: 11174989.00002 Pg 1 of 2

STAFF: S.M.

DATE(S): 5/31/2007

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>47.60</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>35.27</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>12.3</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>2.1</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u>6.29</u>	6"	1.50
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	<u>85</u>	8"	2.60
OR $V=0.0408 \times (\text{CASING DIAMETER})^2$				

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)										
	0	5	10	15	20	25	30	35	40	45	50
pH	7.59	6.43	6.40	6.24	6.27	6.25	6.16	6.21	6.16	6.26	6.12
SPEC. COND. (umhos)	1470	1940	1840	2020	2030	1890	1910	1880	1880	2090	2010
TURBIDITY (NTU)	>1000	>1000	>1000	>1000	>1000	750	541	368	255	221	137
TEMPERATURE (°C)	19.8	18.2	18.1	17.9	18	18.1	18.3	17.9	17.9	17.7	17.8
DATE											

COMMENTS:

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Avenue Plume Track-Down WELL NO.: DEC-11

PROJECT NO.: 11174989.00002 Pg 2 of 2

STAFF: S.M.

DATE(S): 6/5/2007

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>47.60</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>35.27</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>12.3</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>2.1</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u>6.29</u>	6"	1.50
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	<u>85</u>	8"	2.60
OR V=0.0408 x (CASING DIAMETER) ²				

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)									
	55	60	65	70	75	80	85			
pH	6.21	6.17	6.18	6.17	6.16	6.18	6.17			
SPEC. COND. (umhos)	1760	1760	1770	1770	1760	1760	1770			
TURBIDITY (NTU)	100	44	41	21	14	11	9			
TEMPERATURE (°C)	18.9	18	17.9	18.0	17.7	17.8	17.9			

COMMENTS:

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Avenue Plume Track-Down WELL NO.: DEC-12

PROJECT NO.: 11174989.00002

STAFF: S.M.

DATE(S): 6/4/2007

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>49.50</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>35.10</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>14.4</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>2.4</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u>7.34</u>	6"	1.50
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	<u>45</u>	8"	2.60
OR $V=0.0408 \times (\text{CASING DIAMETER})^2$				

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)										
	0	5	10	15	20	25	30	35	40	45	
pH	6.85	6.34	6.40	6.39	6.39	6.38	6.40	6.39	6.38	6.40	
SPEC. COND. (umhos)	720	910	940	950	970	970	960	960	960	970	
TURBIDITY (NTU)	>1000	>1000	250	160	100	55	50	40	33	27	
TEMPERATURE (°C)	18.1	17.1	16.9	16.8	16.8	16.8	16.8	16.8	16.8	16.8	

COMMENTS:

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Avenue Plume Trackdown Site WELL NO.: DEC-013

PROJECT NO.: 11174989.00002 Page: 1 of 1

STAFF: Ryan Wilson

DATE(S): 11/26/2008

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>47.20</u>	WELL ID. 1"	VOL. (GAL/FT) 0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>35.50</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>11.70</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>1.99</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u> </u>	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	<u>55</u>	8"	2.60

OR
V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	10	15	20	25	30	35	40	45	50	55	
pH	7.10	6.99	6.97	6.94	6.96	6.96	6.96	6.96	6.94	6.91	
SPEC. COND. (mS/cm)	0.781	0.610	0.600	0.610	0.600	0.610	0.620	0.610	0.640	0.650	
TURBIDITY (NTU)	>1000	>1000	179	44.3	34.7	29.7	13.2	91.4	23.6	21.5	
TEMPERATURE (°C)	14.3	15.1	15.2	15.3	15.1	15.2	14.9	15.0	15.1	15.1	

COMMENTS:

Well developed with Wattera Hyrolift pump using dedicated/disposable HDPE foot valve and tubing.

All development water containerized in 55-gallon drum for off-site disposal.

Initial 10 gallons removed without taking water quality readings due to high amounts of sand in development water.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Ave. - Klink Cosmo Phase 1 WELL NO.: DEC-013D

PROJECT NO.: 11176390.00002 Page: 1 of 3

STAFF: C. Friedman

DATE(S): 6/9/2011

		WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	= <u>85.64</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	= <u>36.19</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	= <u>49.45</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	= <u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	= <u>8.41</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	= _____	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	= <u>110</u>	8"	2.60

OR
 $V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	Initial	5	10	15	20	25	30	35	40	45	50
pH	6.51	6.46	6.40	6.40	6.38	6.39	6.37	6.37	6.45	6.37	6.43
SPEC. COND. (mS)	0.82	0.71	0.68	0.71	0.72	0.72	0.77	0.80	0.82	0.85	0.88
TEMPERATURE (°C)	19.6	17.6	17.5	17.2	17.3	17.5	17.0	17.1	17.2	17.2	17.2
TURBIDITY (NTU)	290	37.0	22.0	15.0	15.0	17.0	16.0	16.0	22.0	32.0	17.0

COMMENTS: Well developed using Waterra inertial pump with dedicated/disposable HDPE tubing and foot valve.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Ave. - Klink Cosmo Phase 1 WELL NO.: DEC-013D

PROJECT NO.: 11176390.00002 Page: 2 of 3

STAFF: C. Friedman

DATE(S): 6/9/2011

		WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	= <u>85.64</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	= <u>36.19</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	= <u>49.45</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	= <u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	= <u>8.41</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	= _____	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	= <u>110</u>	8"	2.60

OR
V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	55	60	65	70	75	80	85	90	95	100	105
pH	6.39	6.45	6.41	6.44	6.40	6.40	6.39	6.43	6.37	6.30	6.31
SPEC. COND. (mS)	0.87	0.89	0.90	0.92	0.94	0.95	0.95	0.95	0.97	0.98	0.98
TEMPERATURE (°C)	17.1	17.2	17.2	17.3	17.3	17.2	17.1	17.2	17.4	17.5	17.4
TURBIDITY (NTU)	17.0	13.0	15.0	12	20	10	13	13	10	11.0	9.9

COMMENTS: Well developed using Waterra inertial pump with dedicated/disposable HDPE tubing and foot valve.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Ave. - Klink Cosmo Phase 1 WELL NO.: DEC-013D

PROJECT NO.: 11176390.00002 Page: 3 of 3

STAFF: C. Friedman

DATE(S): 6/9/2011

		WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	= <u>85.64</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	= <u>36.19</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	= <u>49.45</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	= <u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	= <u>8.41</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	= _____	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	= <u>110</u>	8"	2.60

OR
 $V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	110										
pH	6.33										
SPEC. COND. (mS)	0.98										
TEMPERATURE (°C)	17.5										
TURBIDITY (NTU)	9.8										

COMMENTS: Well developed using Waterra inertial pump with dedicated/disposable HDPE tubing and foot valve.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Avenue Plume Track-Down WELL NO.: DEC-14

PROJECT NO.: 11174989.00002

STAFF: S.M.

DATE(S): 6/8/2007

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>40.55</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>30.10</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>10.5</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>1.8</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u>5.33</u>	6"	1.50
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	<u>22</u>	8"	2.60
OR $V=0.0408 \times (\text{CASING DIAMETER})^2$				

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)										
	0	5	7	10	13	15	16	17	18	20	22
pH	7.32	6.94	7.11	7.08	7.08	7.09	6.91	6.62	6.65	6.73	6.82
SPEC. COND. (umhos)	960	1330	770	760	810	790	880	850	850	890	890
TURBIDITY (NTU)	>1000	>1000	95	>1000	>1000	>1000	>1000	>1000	>1000	>1000	>1000
TEMPERATURE (°C)	18.7	18.1	18.1	17.9	18.7	17.9	18.2	17.6	17.4	17.5	17.3

COMMENTS:

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Ave. - Klink Cosmo Phase 1 WELL NO.: DEC-014D

PROJECT NO.: 11176390.00002 Page: 1 of 1

STAFF: T. Ifkovich

DATE(S): 5/19/2011

		WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	= <u>79.73</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	= <u>33.18</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	= <u>46.55</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	= <u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	= <u>7.91</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	= _____	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	= <u>100</u>	8"	2.60

OR
V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	Initial	10	20	30	40	50	60	70	80	90	100
pH	7.26	7.01	6.90	6.91	6.90	6.88	6.62	6.69	6.95	6.84	6.72
SPEC. COND. (mS)	0.35	0.34	0.41	0.48	0.52	0.61	0.68	0.72	0.75	0.79	0.80
TEMPERATURE (°C)	19.7	17.9	17.9	17.5	18.1	17.5	19.6	17.8	18.0	18.0	18.0
TURBIDITY (NTU)	>1000	440	149	91.8	56.2	38.4	29.7	80.5	49.9	29.5	21.5

COMMENTS: Well developed using Waterra inertial pump with dedicated/disposable HDPE tubing and foot valve.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Ave. - Klink Cosmo Phase 1 WELL NO.: DEC-014R

PROJECT NO.: 11176390.00002 Page: 1 of 1

STAFF: T. Ifkovich

DATE(S): 5/19/2011

		WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	= <u>44.25</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	= <u>33.14</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	= <u>11.11</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	= <u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	= <u>1.89</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	= _____	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	= <u>100</u>	8"	2.60

OR
 $V = 0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	Initial	10	20	30	40	50	60	70	80	90	100
pH	7.50	6.46	6.31	6.29	6.31	6.33	6.42	6.44	6.44	6.45	6.45
SPEC. COND. (mS)	0.24	0.75	1.01	1.06	1.11	1.12	1.15	1.16	1.19	1.21	1.23
TEMPERATURE (°C)	18.8	18.8	19.3	19.3	19.2	18.8	18.8	18.9	18.5	18.5	18.3
TURBIDITY (NTU)	>1000	>1000	977	>1000	580	356	254	145	101	75.1	67.8

COMMENTS: Well developed using Waterra inertial pump with dedicated/disposable HDPE tubing and foot valve.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Avenue Plume Track-Down WELL NO.: DEC-15

PROJECT NO.: 11174989.00002 Pg 1 of 2

STAFF: S.M.

DATE(S): 5/30/2007

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>43.65</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>34.60</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>9.1</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>1.5</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u>4.62</u>	6"	1.50
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	<u>105</u>	8"	2.60
OR $V=0.0408 \times (\text{CASING DIAMETER})^2$				

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)										
	0	5	10	15	20	25	30	35	40	45	50
pH	6.96	6.94	6.86	6.85	6.83	6.88	6.90	6.83	6.77	6.77	6.78
SPEC. COND. (umhos)	1220	1380	1820	1880	1860	1860	1940	1930	1950	1970	2020
TURBIDITY (NTU)	>1000	>1000	>1000	>1000	>1000	>1000	>1000	>1000	>1000	>1000	871
TEMPERATURE (°C)	19.8	17.4	17.2	17.5	17.3	17.1	17.3	17.4	17.2	17.3	17.3

COMMENTS:

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Avenue Plume Track-Down WELL NO.: DEC-15

PROJECT NO.: 11174989.00002 Pg 2 of 2

STAFF: S.M.

DATE(S): 5/30/2007

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>43.65</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>34.60</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>9.1</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>1.5</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u>4.62</u>	6"	1.50
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	<u>105</u>	8"	2.60
OR $V=0.0408 \times (\text{CASING DIAMETER})^2$				

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)										
	55	60	65	70	75	80	85	90	95	100	105
pH	6.79	6.79	6.78	6.79	6.78	6.79	6.77	6.79	6.78	6.77	6.77
SPEC. COND. (umhos)	1970	1980	2010	1980	1990	1980	1970	1990	1970	1980	1980
TURBIDITY (NTU)	697	613	543	356	204	131	69	53	54	49	41
TEMPERATURE (°C)	17.3	17.3	17.2	17.1	17.0	17.0	17.3	17.1	17.0	17.2	17.1

COMMENTS:

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Ave. - Klink Cosmo Phase 1 WELL NO.: DEC-015D

PROJECT NO.: 11176390.00002 Page: 1 of 1

STAFF: T. Ifkovich

DATE(S): 5/18/2011

		WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	= <u>81.95</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	= <u>36.51</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	= <u>45.44</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	= <u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	= <u>7.72</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	= _____	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	= <u>100</u>	8"	2.60

OR
V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	Initial	10	20	30	40	50	60	70	80	90	100
pH	7.57	6.83	6.67	6.65	6.60	6.59	6.62	6.62	6.57	6.59	6.60
SPEC. COND. (mS)	0.53	0.63	0.68	0.70	0.73	0.74	0.76	0.78	0.80	0.82	0.85
TEMPERATURE (°C)	16.8	16.7	16.6	16.5	16.4	16.6	16.5	16.5	16.5	16.6	17.0
TURBIDITY (NTU)	>1000	65.0	45.0	29.7	22.6	15.5	28.2	40.3	16.8	14.4	13.2

COMMENTS: Well developed using Waterra inertial pump with dedicated/disposable HDPE tubing and foot valve.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Avenue Plume Track-Down WELL NO.: DEC-22

PROJECT NO.: 11174989.00002

STAFF: S.M.

DATE(S): 6/20/2007

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>38.85</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>29.38</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>9.5</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>1.6</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u>4.83</u>	6"	1.50
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	<u>40</u>	8"	2.60
OR V=0.0408 x (CASING DIAMETER) ²				

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)									
	0	5	7	10	20	25	30	35	40	
pH	6.36	6.35	6.34	6.49	6.39	6.38	6.39	6.45	6.47	
SPEC. COND. (umhos)	1550	1520	1500	1540	1410	1470	1430	1460	1450	
TURBIDITY (NTU)	>1000	>1000	>1000	>1000	450	91	43	19	15	
TEMPERATURE (°C)	21.8	20.1	18.9	19.6	18.6	19.5	19.3	19.7	18.8	

COMMENTS:

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Avenue Plume Trackdown Site WELL NO.: DEC-022D

PROJECT NO.: 11174989.00002 Page: 1 of 2

STAFF: Scott McCabe

DATE(S): 11/28/2008

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>60.40</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>48.02</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>12.38</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>2.10</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u> </u>	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	<u>85</u>	8"	2.60

OR
 $V = 0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	5	10	15	20	25	30	35	40	45	50	55
pH	6.23	6.54	6.62	6.69	6.75	6.78	6.82	6.82	6.84	6.85	6.85
SPEC. COND. (mS/cm)	1.480	1.400	1.400	1.390	1.360	1.360	1.340	1.350	1.350	1.340	1.340
TURBIDITY (NTU)	>1000	>1000	>1000	934	257	268	185	163	127	114	121
TEMPERATURE (°C)	16.4	14.7	15.5	15.8	15.9	15.9	15.7	15.7	15.8	15.3	15.4

COMMENTS:

Well developed with Wattera Hyrolift pump using dedicated/disposable HDPE foot valve and tubing.
 All development water containerized in 55-gallon drum for off-site disposal.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Avenue Plume Trackdown Site WELL NO.: DEC-022D

PROJECT NO.: 11174989.00002 Page: 2 of 2

STAFF: Scott McCabe

DATE(S): 11/28/2008

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>60.40</u>	WELL ID. 1"	VOL. (GAL/FT) 0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>48.02</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>12.38</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>2.10</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u> </u>	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	<u>85</u>	8"	2.60

OR
V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	60	65	70	75	80	85					
pH	6.90	6.93	6.90	6.91	6.92	6.91					
SPEC. COND. (mS/cm)	1.310	1.310	1.340	1.330	1.320	1.330					
TURBIDITY (NTU)	56	38	45	31	39	34					
TEMPERATURE (°C)	16.4	14.7	15.5	15.8	15.9	15.9					

COMMENTS:

Well developed with Wattera Hyrolift pump using dedicated/disposable HDPE foot valve and tubing.
All development water containerized in 55-gallon drum for off-site disposal.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Avenue Plume Trackdown Site WELL NO.: DEC-027

PROJECT NO.: 11174989.00002 Page: 1 of 1

STAFF: Pete Mulrean

DATE(S): 12/7/2008

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>49.88</u>	WELL ID. 1"	VOL. (GAL/FT) 0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>26.92</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>22.96</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>3.90</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u> </u>	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	<u>55</u>	8"	2.60

OR
V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	15	20	25	30	35	40	45	50	55		
pH	6.90	6.98	7.31	7.23	7.14	7.13	7.42	7.46	7.42		
SPEC. COND. (mS/cm)	1.444	1.360	1.400	1.431	1.427	1.414	1.448	1.450	1.462		
TURBIDITY (NTU)	631	344	93	78	93	121	68	52	41		
TEMPERATURE (°C)	8.7	10.8	7.3	9.9	10.5	10.1	10.5	9.5	11.6		

COMMENTS:

Well developed with Wattera Hyrolift pump using dedicated/disposable HDPE foot valve and tubing.
All development water containerized in 55-gallon drum for off-site disposal.
Initial 15 gallons removed without taking water quality readings due to high amounts of sand in development water.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Avenue Plume Trackdown Site WELL NO.: DEC-028

PROJECT NO.: 11174989.00002 Page: 1 of 1

STAFF: Ryan Wilson

DATE(S): 11/29/2008

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>50.30</u>	WELL ID. 1"	VOL. (GAL/FT) 0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>36.50</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>13.80</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>2.35</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u> </u>	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	<u>55</u>	8"	2.60

OR
V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	5	10	15	20	25	30	35	40	45	50	55
pH	6.84	6.80	6.81	6.81	6.79	6.80	6.80	6.79	6.80	6.79	6.81
SPEC. COND. (mS/cm)	1.380	1.390	1.360	1.380	1.380	1.380	1.370	1.360	1.360	1.360	1.360
TURBIDITY (NTU)	88	64	46	39	44	32	27	14	6	12	12
TEMPERATURE (°C)	15.2	16.0	16.0	16.4	16.5	16.5	16.5	16.7	16.6	16.7	16.5

COMMENTS:

Well developed with Wattera Hyrolift pump using dedicated/disposable HDPE foot valve and tubing.
All development water containerized in 55-gallon drum for off-site disposal.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Avenue Plume Trackdown Site WELL NO.: DEC-029

PROJECT NO.: 11174989.00002 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 11/28/2008

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>50.50</u>	WELL ID. 1"	VOL. (GAL/FT) 0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>22.95</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>27.55</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>4.68</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u> </u>	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	<u>55</u>	8"	2.60

OR
V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	5	10	15	20	25	30	35	40	45	50	55
pH	7.17	6.80	6.49	6.48	6.41	6.42	6.42	6.41	6.40	6.42	6.41
SPEC. COND. (mS/cm)	0.560	0.510	0.660	0.760	0.840	0.910	0.930	0.950	0.970	0.950	0.970
TURBIDITY (NTU)	>1000	>1000	>1000	732	262	187	166	83	61	37	26
TEMPERATURE (°C)	14.4	15.4	15.8	15.9	15.8	15.7	15.7	15.8	15.6	15.4	15.7

COMMENTS:

Well developed with Wattera Hyrolift pump using dedicated/disposable HDPE foot valve and tubing.
All development water containerized in 55-gallon drum for off-site disposal.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Ave. - Klink Cosmo Phase 1 WELL NO.: DEC-029D

PROJECT NO.: 11176390.00002 Page: 1 of 1

STAFF: T. Ifkovich

DATE(S): 5/17/2011

		WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	= <u>85.11</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	= <u>36.07</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	= <u>49.04</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	= <u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	= <u>8.34</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	= _____	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	= <u>100</u>	8"	2.60

OR
V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	Initial	10	20	30	40	50	60	70	80	90	100
pH	6.83	6.47	6.48	6.52	6.57	6.31	6.42	6.44	6.58	6.62	6.52
SPEC. COND. (mS)	0.75	1.25	1.37	1.40	1.42	1.41	1.43	1.43	1.42	1.46	1.44
TEMPERATURE (°C)	16.1	16.0	15.9	16.0	16.2	16.1	16.1	16.3	16.3	16.8	16.8
TURBIDITY (NTU)	50.0	18.0	7.4	8.8	5.2	5.6	3.4	1.7	2.1	3.4	2.5

COMMENTS: Well developed using Waterra inertial pump with dedicated/disposable HDPE tubing and foot valve.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Avenue Plume Trackdown Site WELL NO.: DEC-030

PROJECT NO.: 11174989.00002 Page: 1 of 1

STAFF: Ryan Wilson

DATE(S): 11/29/2008

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>39.90</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>32.11</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>7.79</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>1.32</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u> </u>	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	<u>49</u>	8"	2.60

OR
 $V = 0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	7	10	13	16	19	21	26	29	34	39	44
pH	7.00	7.00	6.90	6.90	6.77	6.76	6.87	6.61	6.53	6.53	6.66
SPEC. COND. (mS/cm)	1.400	1.000	0.980	0.980	0.980	1.050	1.250	1.170	1.320	1.270	1.270
TURBIDITY (NTU)	>1000	>1000	>1000	>1000	>1000	247	220	261	296	194	194
TEMPERATURE (°C)	14.4	15.3	15.2	14.5	15.0	15.0	14.5	15.1	15.0	14.9	15.0

COMMENTS:

Well developed with Wattera Hyrolift pump using dedicated/disposable HDPE foot valve and tubing.
 All development water containerized in 55-gallon drum for off-site disposal.
 Initial 7 gallons removed without taking water quality readings due to high amounts of sand in development water.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Avenue Plume Trackdown Site WELL NO.: DEC-030

PROJECT NO.: 11174989.00002 Page: 1 of 2

STAFF: Ryan Wilson

DATE(S): 11/29/2008

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>39.90</u>	WELL ID. 1"	VOL. (GAL/FT) 0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>32.11</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>7.79</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>1.32</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u></u>	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	<u>49</u>	8"	2.60

OR
V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	49										
pH	6.72										
SPEC. COND. (mS/cm)	1.250										
TURBIDITY (NTU)	292										
TEMPERATURE (°C)	14.2										

COMMENTS:

Well developed with Wattera Hyrolift pump using dedicated/disposable HDPE foot valve and tubing.
All development water containerized in 55-gallon drum for off-site disposal.
Initial 7 gallons removed without taking water quality readings due to high amounts of sand in development water.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Ave. - Klink Cosmo Phase 1 WELL NO.: DEC-030D

PROJECT NO.: 11176390.00002 Page: 1 of 1

STAFF: T. Ifkovich

DATE(S): 5/17/2011

		WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	= <u>79.85</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	= <u>34.37</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	= <u>45.48</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	= <u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	= <u>7.73</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	= _____	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	= <u>100</u>	8"	2.60

OR
V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	Initial	10	20	30	40	50	60	70	80	90	100
pH	6.33	6.50	6.58	6.50	6.44	6.47	6.40	6.34	6.35	6.43	6.35
SPEC. COND. (mS)	1.05	0.95	0.90	0.99	1.00	1.04	1.07	1.08	1.09	1.12	1.14
TEMPERATURE (°C)	15.9	15.7	15.6	15.6	15.6	15.6	15.6	15.5	15.5	15.5	15.5
TURBIDITY (NTU)	>1000	55.0	22.0	19.0	16.0	14.0	12.0	12.0	9.2	8.5	7.7

COMMENTS: Well developed using Waterra inertial pump with dedicated/disposable HDPE tubing and foot valve.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Avenue Plume Trackdown Site WELL NO.: DEC-031

PROJECT NO.: 11174989.00002 Page: 1 of 1

STAFF: Ryan Wilson

DATE(S): 11/26/2008

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>44.50</u>	WELL ID. 1"	VOL. (GAL/FT) 0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>30.87</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>13.63</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>2.32</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u> </u>	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	<u>55</u>	8"	2.60

OR
V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	10	15	20	25	30	35	40	45	50	55	
pH	6.65	6.57	6.45	6.46	6.46	6.46	6.45	6.47	6.45	6.47	
SPEC. COND. (mS/cm)	0.520	0.620	0.590	0.710	0.700	0.710	0.710	0.710	0.710	0.710	
TURBIDITY (NTU)	>1000	>1000	590	91	113	21	12	10	10	6	
TEMPERATURE (°C)	17.0	17.2	17.3	17.3	17.5	17.4	17.5	17.6	17.5	17.6	

COMMENTS:

Well developed with Wattera Hyrolift pump using dedicated/disposable HDPE foot valve and tubing.
All development water containerized in 55-gallon drum for off-site disposal.
Initial 10 gallons removed without taking water quality readings due to high amounts of sand in development water.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Avenue Plume Trackdown Site WELL NO.: DEC-031D

PROJECT NO.: 11174989.00002 Page: 1 of 2

STAFF: Scott McCabe

DATE(S): 6/23/2008

	=		WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>79.10</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>29.98</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>49.12</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>8.35</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u> </u>	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	<u>100</u>	8"	2.60

OR
 $V = 0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	5	10	15	20	25	30	35	40	45	50	55
pH	5.91	5.92	5.94	5.95	5.97	5.96	5.97	5.98	5.98	5.98	6.02
SPEC. COND. (mS/cm)	1.020	1.220	1.290	1.320	1.330	1.350	1.360	1.370	1.380	1.380	1.390
TURBIDITY (NTU)	>1000	>1000	183	165	137	115	113	109	102	107	94
TEMPERATURE (°C)	18.9	17.7	17.5	17.5	17.4	17.4	17.4	17.4	17.3	17.5	17.6

COMMENTS:

Well developed with Wattera Hyrolift pump using dedicated/disposable HDPE foot valve and tubing.
 All development water containerized in 55-gallon drum for off-site disposal.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Avenue Plume Trackdown Site WELL NO.: DEC-031D

PROJECT NO.: 11174989.00002 Page: 2 of 2

STAFF: Scott McCabe

DATE(S): 6/23/2008

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>79.10</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)		<u>29.98</u>	2"	0.17
	=			
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>49.12</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>8.35</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u></u>	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	<u>100</u>	8"	2.60

OR
 $V = 0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	60	65	70	75	80	85	90	95	100	105	110
pH	6.05	6.02	6.02	6.05	6.03	6.02	6.05	6.03	6.05		
SPEC. COND. (mS/cm)	1.400	1.370	1.400	1.390	1.400	1.420	1.410	1.420	1.420		
TURBIDITY (NTU)	87	71	76	61	57	53	44	39	31		
TEMPERATURE (°C)	17.9	17.4	17.6	17.4	17.5	17.4	17.6	17.6	17.5		

COMMENTS:

Well developed with Wattera Hyrolift pump using dedicated/disposable HDPE foot valve and tubing.
 All development water containerized in 55-gallon drum for off-site disposal.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Avenue Plume Trackdown Site WELL NO.: DEC-032

PROJECT NO.: 11174989.00002 Page: 1 of 2

STAFF: Ryan Wilson

DATE(S): 11/29/2008

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>45.50</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>23.20</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>22.30</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>3.79</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u> </u>	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	<u>95</u>	8"	2.60

OR
 $V = 0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	5	10	15	20	25	30	35	40	45	50	55
pH	7.20	6.95	6.95	6.88	6.88	6.88	6.88	7.02	6.88	6.88	6.88
SPEC. COND. (mS/cm)	0.600	0.530	0.520	0.530	0.540	0.540	0.540	0.540	0.530	0.530	0.540
TURBIDITY (NTU)	350	175	167	109	101	94	93	87	84	84	67
TEMPERATURE (°C)	15.5	15.5	15.9	15.5	15.8	15.3	16.0	15.0	15.9	15.2	16.0

COMMENTS:

Well developed with Wattera Hyrolift pump using dedicated/disposable HDPE foot valve and tubing.
 All development water containerized in 55-gallon drum for off-site disposal.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Avenue Plume Trackdown Site WELL NO.: DEC-032

PROJECT NO.: 11174989.00002 Page: 2 of 2

STAFF: Ryan Wilson

DATE(S): 11/29/2008

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>45.50</u>	WELL ID. 1"	VOL. (GAL/FT) 0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>23.20</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>22.30</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>3.79</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u> </u>	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	<u>95</u>	8"	2.60

OR
V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	60	65	70	75	80	85	90	95			
pH	6.88	6.85	6.90	6.90	6.89	6.88	6.88	6.88			
SPEC. COND. (mS/cm)	0.510	0.530	0.530	0.560	0.530	0.530	0.520	0.530			
TURBIDITY (NTU)	72	72	58	86	68	50	52	44			
TEMPERATURE (°C)	16.4	16.1	16.2	15.5	15.7	16.6	16.0	16.1			

COMMENTS:

Well developed with Wattera Hyrolift pump using dedicated/disposable HDPE foot valve and tubing.
All development water containerized in 55-gallon drum for off-site disposal.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Avenue Plume Trackdown Site WELL NO.: DEC-033

PROJECT NO.: 11174989.00002 Page: 1 of 1

STAFF: Pete Mulrean

DATE(S): 12/7/2008 and 12/11/07

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>40.59</u>	WELL ID. 1"	VOL. (GAL/FT) 0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>32.14</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>8.45</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>1.44</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u> </u>	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	<u>40</u>	8"	2.60

OR
V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	15	20	25	30	35	40					
pH	7.75	6.80	6.51	6.47	6.50	6.47					
SPEC. COND. (mS/cm)	1.049	1.070	1.030	1.030	1.020	1.020					
TURBIDITY (NTU)	261	>1000	144	61	43	36					
TEMPERATURE (°C)	10.9	16.5	18.8	18.7	18.5	18.8					

COMMENTS:

Well developed with Wattera Hyrolift pump using dedicated/disposable HDPE foot valve and tubing.
All development water containerized in 55-gallon drum for off-site disposal.
Initial 15 gallons removed without taking water quality readings due to high amounts of sand in development water.
Well has low yield and recharges slowly.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Avenue Plume Trackdown Site WELL NO.: DEC-039

PROJECT NO.: 11174989.00002 Page: 1 of 2

STAFF: Scott McCabe

DATE(S): 5/22/08

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>51.10</u>	WELL ID. 1"	VOL. (GAL/FT) 0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>41.41</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>9.69</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>1.65</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u></u>	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	<u>100</u>	8"	2.60

OR
 $V = 0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	5	10	15	20	25	30	35	40	45	50	55
pH	6.30	6.38	6.36	6.39	7.13	7.13	7.13	7.13	6.36	6.40	6.39
SPEC. COND. (mS/cm)	1.900	1.910	1.910	1.920	1.910	1.930	1.940	1.930	1.940	1.950	1.950
TURBIDITY (NTU)	>1000	>1000	89	63	67	49	37	41	40	29	27
TEMPERATURE (°C)	16.3	16.1	16.1	16.0	16.1	15.9	16.1	16.1	16.1	16.1	16.1

COMMENTS:

Well developed with Wattera Hyrolift pump using dedicated/disposable HDPE foot valve and tubing.
 All development water containerized in 55-gallon drum for off-site disposal.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Avenue Plume Trackdown Site WELL NO.: DEC-039

PROJECT NO.: 11174989.00002 Page: 2 of 2

STAFF: Scott McCabe

DATE(S): 5/22/08

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>51.10</u>	WELL ID. 1"	VOL. (GAL/FT) 0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)		<u>41.41</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>9.69</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>1.65</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u></u>	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	<u>100</u>	8"	2.60

OR
V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	60	65	70	75	80	85	90	95	100	105	110
pH	6.40	6.39	6.40	6.36	6.34	6.34	6.32	6.32	6.34		
SPEC. COND. (mS/cm)	1.960	1.960	1.980	1.990	1.970	1.980	1.990	1.990	1.990		
TURBIDITY (NTU)	60	36	35	45	24	21	29	22	19		
TEMPERATURE (°C)	16.1	16.0	16.0	16.1	16.0	16.0	16.0	16.0	16.1		

COMMENTS:

Well developed with Wattera Hyrolift pump using dedicated/disposable HDPE foot valve and tubing.
All development water containerized in 55-gallon drum for off-site disposal.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Avenue Plume Trackdown Site WELL NO.: DEC-042

PROJECT NO.: 11174989.00002 Page: 1 of 2

STAFF: Scott McCabe

DATE(S): 5/20/08

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>49.66</u>	WELL ID. 1"	VOL. (GAL/FT) 0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>38.45</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>11.21</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>1.91</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u> </u>	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	<u>110</u>	8"	2.60

OR
V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	5	10	15	20	25	30	35	40	45	50	55
pH	5.70	5.55	5.68	5.82	5.88	5.93	5.97	5.97	6.00	6.00	6.00
SPEC. COND. (mS/cm)	0.840	0.870	0.900	0.900	0.920	0.930	0.940	0.950	0.960	0.970	0.970
TURBIDITY (NTU)	>1000	>1000	288	195	121	66	78	62	74	75	46
TEMPERATURE (°C)	16.2	16.2	16.3	16.0	16.2	16.2	16.2	16.2	16.1	16.1	16.1

COMMENTS:

Well developed with Wattera Hyrolift pump using dedicated/disposable HDPE foot valve and tubing.

All development water containerized in 55-gallon drum for off-site disposal.

Development water has slight sheen.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Avenue Plume Trackdown Site WELL NO.: DEC-042

PROJECT NO.: 11174989.00002 Page: 2 of 2

STAFF: Scott McCabe

DATE(S): 5/20/08

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>49.66</u>	WELL ID. 1"	VOL. (GAL/FT) 0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)		<u>38.45</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>11.21</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>1.91</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u> </u>	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	<u>110</u>	8"	2.60

OR
V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	60	65	70	75	80	85	90	95	100	105	110
pH	6.00	6.03	6.02	6.02	6.02	6.02	6.03	6.03	6.04	6.04	6.03
SPEC. COND. (mS/cm)	0.980	0.980	0.980	0.980	0.990	0.990	0.990	0.990	0.990	0.990	0.990
TURBIDITY (NTU)	83	67	59	41	49	43	38	39	37	29	33
TEMPERATURE (°C)	16.2	16.1	16.2	16.2	16.2	16.2	16.1	16.1	16.1	16.1	16.1

COMMENTS:

Well developed with Wattera Hyrolift pump using dedicated/disposable HDPE foot valve and tubing.
All development water containerized in 55-gallon drum for off-site disposal.
Development water has slight sheen.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Avenue Plume Trackdown Site WELL NO.: DEC-043

PROJECT NO.: 11174989.00002 Page: 1 of 2

STAFF: Scott McCabe

DATE(S): 6/16/08

	=		WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>50.15</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>34.00</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>16.15</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>2.75</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u> </u>	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	<u>90</u>	8"	2.60

OR
 $V = 0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	5	10	15	20	25	30	35	40	45	50	55
pH	5.46	5.78	5.97	6.03	6.11	6.13	6.15	6.16	6.17	6.18	6.21
SPEC. COND. (mS/cm)	1.090	1.040	1.020	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
TURBIDITY (NTU)	674	159	141	154	93	97	114	97	91	84	74
TEMPERATURE (°C)	16.4	17.0	16.3	15.8	15.8	15.9	15.8	16.1	15.8	15.9	15.9

COMMENTS:

Well developed with Wattera Hyrolift pump using dedicated/disposable HDPE foot valve and tubing.
 All development water containerized in 55-gallon drum for off-site disposal.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Avenue Plume Trackdown Site WELL NO.: DEC-043

PROJECT NO.: 11174989.00002 Page: 2 of 2

STAFF: Scott McCabe

DATE(S): 6/16/08

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>50.15</u>	WELL ID. 1"	VOL. (GAL/FT) 0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>34.00</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>16.15</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>2.75</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u> </u>	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	<u>90</u>	8"	2.60

OR
V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	60	65	70	75	80	85	90	95	100	105	110
pH	6.21	6.21	0.62	6.23	6.23	6.24	6.24				
SPEC. COND. (mS/cm)	1.000	0.990	0.990	1.000	1.000	0.990	1.000				
TURBIDITY (NTU)	64	60	54	48	34	31	28				
TEMPERATURE (°C)	15.9	15.7	15.7	16.1	16.1	15.7	15.7				

COMMENTS:

Well developed with Wattera Hyrolift pump using dedicated/disposable HDPE foot valve and tubing.
All development water containerized in 55-gallon drum for off-site disposal.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Ave. - Klink Cosmo Phase 1 WELL NO.: DEC-043D

PROJECT NO.: 11176390.00002 Page: 1 of 1

STAFF: T. Ifkovich

DATE(S): 5/17/2011

		WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	= <u>85.39</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	= <u>35.45</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	= <u>49.94</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	= <u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	= <u>8.49</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	= _____	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	= <u>100</u>	8"	2.60

OR
V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	Initial	10	20	30	40	50	60	70	80	90	100
pH	6.98	6.63	6.66	6.60	6.52	6.54	6.51	6.51	6.56	6.60	6.54
SPEC. COND. (mS)	0.20	0.65	0.83	0.89	0.91	0.95	0.97	0.98	1.00	1.02	1.01
TEMPERATURE (°C)	14.6	14.6	14.8	14.7	14.7	14.6	14.7	14.7	14.8	14.8	14.8
TURBIDITY (NTU)	250	95.0	50.0	31.0	32.0	32.0	20.0	8.6	5.3	5.2	2.8

COMMENTS: Well developed using Waterra inertial pump with dedicated/disposable HDPE tubing and foot valve.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Avenue Plume Trackdown Site WELL NO.: DEC-044

PROJECT NO.: 11174989.00002 Page: 1 of 2

STAFF: Scott McCabe

DATE(S): 6/23/08

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>44.81</u>	WELL ID. 1"	VOL. (GAL/FT) 0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>33.30</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>11.51</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>1.96</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u> </u>	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	<u>100</u>	8"	2.60

OR
V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	5	10	15	20	25	30	35	40	45	50	55
pH	5.32	5.44	5.50	5.57	5.59	5.63	5.67	5.69	5.70	5.70	5.66
SPEC. COND. (mS/cm)	0.620	0.580	0.580	0.580	0.570	0.570	0.580	0.580	0.590	0.590	0.580
TURBIDITY (NTU)	>1000	>1000	246	179	49	48	49	51	48	46	33
TEMPERATURE (°C)	19.4	18.5	18.2	18.3	18.3	18.2	18.3	18.5	18.4	18.4	18.3

COMMENTS:

Well developed with Wattera Hyrolift pump using dedicated/disposable HDPE foot valve and tubing.
All development water containerized in 55-gallon drum for off-site disposal.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Avenue Plume Trackdown Site WELL NO.: DEC-044

PROJECT NO.: 11174989.00002 Page: 2 of 2

STAFF: Scott McCabe

DATE(S): 6/23/08

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>44.81</u>	WELL ID. 1"	VOL. (GAL/FT) 0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>33.30</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>11.51</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>1.96</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u> </u>	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	<u>100</u>	8"	2.60

OR
V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	60	65	70	75	80	85	90	95	100	105	110
pH	5.71	5.78	5.75	5.77	5.77	5.78	5.78	5.77	5.77		
SPEC. COND. (mS/cm)	0.580	0.580	0.580	0.590	0.590	0.590	0.590	0.600	0.590		
TURBIDITY (NTU)	25	27	21	26	29	25	23	21	17		
TEMPERATURE (°C)	18.3	18.3	18.5	18.3	18.3	18.2	18.1	18.3	18.2		

COMMENTS:

Well developed with Wattera Hyrolift pump using dedicated/disposable HDPE foot valve and tubing.
All development water containerized in 55-gallon drum for off-site disposal.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Ave. - Klink Cosmo Phase 1 WELL NO.: DEC-044D

PROJECT NO.: 11176390.00002 Page: 1 of 3

STAFF: C. Friedman

DATE(S): 6/8/2011

		WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	= <u>82.09</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	= <u>33.84</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	= <u>48.25</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	= <u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	= <u>8.20</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	= _____	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	= <u>110</u>	8"	2.60

OR
 $V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	Initial	5	10	15	20	25	30	35	40	45	50
pH	6.51	6.31	6.32	6.31	6.29	6.31	6.29	6.29	6.30	6.30	6.31
SPEC. COND. (mS)	0.99	1.00	0.95	0.91	0.90	0.92	0.96	0.99	1.03	1.07	1.10
TEMPERATURE (°C)	19.9	18.9	18.4	18.2	17.8	17.8	17.9	17.8	17.8	17.8	17.8
TURBIDITY (NTU)	1000	650	310	290	310	390	390	280	240	240	180

COMMENTS: Well developed using Waterra inertial pump with dedicated/disposable HDPE tubing and foot valve.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Ave. - Klink Cosmo Phase 1 WELL NO.: DEC-044D

PROJECT NO.: 11176390.00002 Page: 2 of 3

STAFF: C. Friedman

DATE(S): 6/8/2011

		WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	= <u>82.09</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	= <u>33.84</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	= <u>48.25</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	= <u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	= <u>8.20</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	= _____	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	= <u>110</u>	8"	2.60

OR
V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	55	60	65	70	75	80	85	90	95	100	105
pH	6.29	6.29	6.27	6.25	6.22	6.26	6.24	6.29	6.32	6.26	6.28
SPEC. COND. (mS)	1.12	1.16	1.13	1.19	1.21	1.24	1.26	1.28	1.31	1.33	1.33
TEMPERATURE (°C)	17.8	18.1	17.7	17.7	18.0	17.9	17.7	17.8	17.8	17.8	17.8
TURBIDITY (NTU)	150	120	290	130	90	110	70	50	40	40.0	35.0

COMMENTS: Well developed using Waterra inertial pump with dedicated/disposable HDPE tubing and foot valve.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Ave. - Klink Cosmo Phase 1 WELL NO.: DEC-044D

PROJECT NO.: 11176390.00002 Page: 3 of 3

STAFF: C. Friedman

DATE(S): 6/8/2011

		WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	= <u>82.09</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	= <u>33.84</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	= <u>48.25</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	= <u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	= <u>8.20</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	= _____	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	= <u>110</u>	8"	2.60

OR
 $V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	110										
pH	6.26										
SPEC. COND. (mS)	1.35										
TEMPERATURE (°C)	17.8										
TURBIDITY (NTU)	39.0										

COMMENTS: Well developed using Waterra inertial pump with dedicated/disposable HDPE tubing and foot valve.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Avenue Plume Trackdown Site WELL NO.: DEC-045

PROJECT NO.: 11174989.00002 Page: 1 of 2

STAFF: Scott McCabe

DATE(S): 6/24/08

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>44.05</u>	WELL ID. 1"	VOL. (GAL/FT) 0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)		<u>28.68</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>15.37</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>2.61</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u> </u>	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	<u>100</u>	8"	2.60

OR
V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	5	10	15	20	25	30	35	40	45	50	55
pH	6.12	6.07	6.16	6.22	6.32	6.34	6.35	6.33	6.36	6.36	6.36
SPEC. COND. (mS/cm)	0.830	0.800	0.810	0.820	0.830	0.820	0.820	0.820	0.830	0.830	0.830
TURBIDITY (NTU)	>1000	>1000	118	90	99	114	81	71	62	74	69
TEMPERATURE (°C)	19.5	18.1	18.1	18.3	18.3	18.5	18.3	18.1	18.3	18.4	18.4

COMMENTS:

Well developed with Wattera Hyrolift pump using dedicated/disposable HDPE foot valve and tubing.
All development water containerized in 55-gallon drum for off-site disposal.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Avenue Plume Trackdown Site WELL NO.: DEC-045

PROJECT NO.: 11174989.00002 Page: 2 of 2

STAFF: Scott McCabe

DATE(S): 6/24/08

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>44.05</u>	WELL ID. 1"	VOL. (GAL/FT) 0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)		<u>28.68</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>15.37</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>2.61</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u></u>	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	<u>100</u>	8"	2.60

OR
V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	60	65	70	75	80	85	90	95	100	105	110
pH	6.27	6.27	6.26	6.25	6.23	6.23	6.22	6.21	6.22		
SPEC. COND. (mS/cm)	0.850	0.830	0.830	0.840	0.850	0.840	0.840	0.850	0.850		
TURBIDITY (NTU)	47	39	31	27	21	19	15	13	17		
TEMPERATURE (°C)	18.5	18.5	18.5	18.1	18.3	18.4	18.5	18.5	18.3		

COMMENTS:

Well developed with Wattera Hyrolift pump using dedicated/disposable HDPE foot valve and tubing.
All development water containerized in 55-gallon drum for off-site disposal.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Ave. - Klink Cosmo Phase 1 WELL NO.: DEC-045D

PROJECT NO.: 11176390.00002 Page: 1 of 3

STAFF: C. Friedman

DATE(S): 6/7/2011

		WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	= <u>81.07</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	= <u>29.28</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	= <u>51.79</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	= <u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	= <u>8.80</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	= _____	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	= <u>110</u>	8"	2.60

OR
V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	Initial	5	10	15	20	25	30	35	40	45	50
pH	7.04	6.74	6.74	6.70	6.60	6.60	6.60	6.60	6.54	6.50	6.51
SPEC. COND. (mS)	1.06	1.02	1.00	0.99	0.99	1.00	1.02	1.04	1.05	1.07	1.08
TEMPERATURE (°C)	18.4	17.7	17.6	17.3	17.2	17.2	17.2	17.2	17.2	17.3	17.1
TURBIDITY (NTU)	>2000	>2000	>2000	793	795	495	358	265	196	NA*	NA*

COMMENTS: Well developed using Waterra inertial pump with dedicated/disposable HDPE tubing and foot valve.

*Turbidity meter not working properly.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Ave. - Klink Cosmo Phase 1 WELL NO.: DEC-045D

PROJECT NO.: 11176390.00002 Page: 2 of 3

STAFF: C. Friedman

DATE(S): 6/7/2011

		WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	= <u>81.07</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	= <u>29.28</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	= <u>51.79</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	= <u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	= <u>8.80</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	= _____	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	= <u>110</u>	8"	2.60

OR
V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	55	60	65	70	75	80	85	90	95	100	105
pH	6.50	6.55	6.55	6.74	6.67	6.66	6.58	6.58	6.71	6.75	6.71
SPEC. COND. (mS)	1.08	1.10	1.11	1.13	1.13	1.13	1.16	1.16	1.16	1.18	1.19
TEMPERATURE (°C)	17.0	17.2	17.2	17.2	17.3	17.4	17.3	17.3	17.2	17.3	17.2
TURBIDITY (NTU)	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*

COMMENTS: Well developed using Waterra inertial pump with dedicated/disposable HDPE tubing and foot valve.
*Turbidity meter not working properly.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Ave. - Klink Cosmo Phase 1 WELL NO.: DEC-045D

PROJECT NO.: 11176390.00002 Page: 3 of 3

STAFF: C. Friedman

DATE(S): 6/7/2011

		WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	= <u>81.07</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	= <u>29.28</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	= <u>51.79</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	= <u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	= <u>8.80</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	= _____	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	= <u>110</u>	8"	2.60

OR
 $V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	110										
pH	6.73										
SPEC. COND. (mS)	1.19										
TEMPERATURE (°C)	17.4										
TURBIDITY (NTU)	NA*										

COMMENTS: Well developed using Waterra inertial pump with dedicated/disposable HDPE tubing and foot valve.

*Turbidity meter not working properly.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Avenue Plume Trackdown Site WELL NO.: DEC-046

PROJECT NO.: 11174989.00002 Page: 1 of 2

STAFF: Scott McCabe

DATE(S): 6/25/08

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>44.40</u>	WELL ID. 1"	VOL. (GAL/FT) 0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>29.38</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>15.02</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>2.55</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u> </u>	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	<u>105</u>	8"	2.60

OR
V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	5	10	15	20	25	30	35	40	45	50	55
pH	6.14	5.98	6.20	6.23	6.22	6.21	6.22	6.22	6.17	6.18	6.19
SPEC. COND. (mS/cm)	0.570	0.690	0.770	0.930	0.860	0.910	0.930	0.980	0.980	1.000	1.030
TURBIDITY (NTU)	>1000	>1000	259	178	145	123	125	152	121	114	97
TEMPERATURE (°C)	20.1	18.2	18.0	17.7	17.7	17.7	17.6	17.6	17.6	17.6	17.6

COMMENTS:

Well developed with Wattera Hyrolift pump using dedicated/disposable HDPE foot valve and tubing.
All development water containerized in 55-gallon drum for off-site disposal.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Avenue Plume Trackdown Site WELL NO.: DEC-046

PROJECT NO.: 11174989.00002 Page: 2 of 2

STAFF: Scott McCabe

DATE(S): 6/25/08

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>44.40</u>	WELL ID. 1"	VOL. (GAL/FT) 0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>29.38</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>15.02</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>2.55</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u> </u>	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	<u>105</u>	8"	2.60

OR
V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	60	65	70	75	80	85	90	95	100	105	110
pH	6.20	6.20	6.20	6.20	6.20	6.21	6.22	6.22	6.22	6.22	
SPEC. COND. (mS/cm)	1.050	1.060	1.060	1.070	1.080	1.080	1.090	1.100	1.100	1.100	
TURBIDITY (NTU)	90	64	60	65	59	54	52	41	40	43	
TEMPERATURE (°C)	17.7	17.6	17.6	17.6	17.7	17.6	17.6	17.6	17.6	17.7	

COMMENTS:

Well developed with Wattera Hyrolift pump using dedicated/disposable HDPE foot valve and tubing.
All development water containerized in 55-gallon drum for off-site disposal.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Avenue Plume Trackdown Site WELL NO.: DEC-047

PROJECT NO.: 11174989.00002 Page: 1 of 2

STAFF: Ann Casey

DATE(S): 7/3/08

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>44.95</u>	WELL ID. 1"	VOL. (GAL/FT) 0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>27.19</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>17.76</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>3.02</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u> </u>	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	<u>105</u>	8"	2.60

OR
V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	5	10	15	20	25	30	35	40	45	50
pH	5.52	5.51	5.64	5.69	5.92	5.92	5.95	5.89	6.22	6.05	6.05
SPEC. COND. (mS/cm)	1.380	1.180	1.130	1.115	1.170	1.170	1.220	1.200	1.210	1.190	1.220
TURBIDITY (NTU)	>1000	>1000	>1000	>1000	>1000	>1000	>1000	>1000	>1000	841	841
TEMPERATURE (°C)	19.3	18.5	18.4	19.6	18.2	18.9	18.1	17.6	18.3	18.2	17.9

COMMENTS:

Well developed with Wattera Hyrolift pump using dedicated/disposable HDPE foot valve and tubing.
All development water containerized in 55-gallon drum for off-site disposal.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Avenue Plume Trackdown Site WELL NO.: DEC-047

PROJECT NO.: 11174989.00002 Page: 2 of 2

STAFF: Ann Casey

DATE(S): 7/3/08

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>44.95</u>	WELL ID. 1"	VOL. (GAL/FT) 0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)		<u>27.19</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>17.76</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>3.02</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u></u>	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	<u>105</u>	8"	2.60

OR
 $V = 0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	55	60	65	70	75	80	85	90	95	100	105
pH	5.89	6.00	6.06	5.96	5.90	5.90	6.92	6.92	6.92	6.92	6.92
SPEC. COND. (mS/cm)	1.240	1.240	1.250	1.270	1.280	1.270	1.280	1.290	1.290	1.260	1.260
TURBIDITY (NTU)	394	984	714	456	270	164	133	135	87	75	67
TEMPERATURE (°C)	18.1	18.0	17.9	18.3	18.3	18.1	18.4	18.3	18.3	18.4	17.8

COMMENTS:

Well developed with Wattera Hyrolift pump using dedicated/disposable HDPE foot valve and tubing.
 All development water containerized in 55-gallon drum for off-site disposal.
 pH sensor stuck on 6.92 and will not calibrate or move from 6.92.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Avenue Plume Trackdown Site WELL NO.: DEC-048

PROJECT NO.: 11174989.00002 Page: 1 of 2

STAFF: Scott McCabe

DATE(S): 6/27/08

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>39.60</u>	WELL ID. 1"	VOL. (GAL/FT) 0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>24.48</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>15.12</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>2.57</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u> </u>	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	<u>100</u>	8"	2.60

OR
V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	5	10	15	20	25	30	35	40	45	50	55
pH	5.43	5.53	5.72	5.77	5.71	5.71	5.71	5.72	5.75	5.77	5.81
SPEC. COND. (mS/cm)	0.730	0.730	0.740	0.750	0.760	0.760	0.770	0.770	0.770	0.780	0.780
TURBIDITY (NTU)	>1000	>1000	>1000	590	374	136	159	136	217	203	151
TEMPERATURE (°C)	19.7	19.0	18.8	18.7	18.7	18.7	18.7	18.6	18.6	18.6	18.7

COMMENTS:

Well developed with Wattera Hyrolift pump using dedicated/disposable HDPE foot valve and tubing.
All development water containerized in 55-gallon drum for off-site disposal.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Avenue Plume Trackdown Site WELL NO.: DEC-048

PROJECT NO.: 11174989.00002 Page: 2 of 2

STAFF: Scott McCabe

DATE(S): 6/27/08

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>39.60</u>	WELL ID. 1"	VOL. (GAL/FT) 0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)		<u>24.48</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>15.12</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>2.57</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u></u>	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	<u>100</u>	8"	2.60

OR
V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	60	65	70	75	80	85	90	95	100	105	110
pH	5.86	5.89	5.91	5.91	5.92	5.93	5.95	5.96	5.95		
SPEC. COND. (mS/cm)	0.790	0.800	0.800	0.810	0.810	0.810	0.820	0.820	0.820		
TURBIDITY (NTU)	172	126	150	131	97	83	77	64	51		
TEMPERATURE (°C)	18.8	18.8	18.7	18.6	18.6	18.7	18.8	18.9	19.1		

COMMENTS:

Well developed with Wattera Hyrolift pump using dedicated/disposable HDPE foot valve and tubing.
All development water containerized in 55-gallon drum for off-site disposal.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Ave. - Klink Cosmo Phase 1 WELL NO.: DEC-064

PROJECT NO.: 11176390.00002 Page: 1 of 1

STAFF: T. Ifkovich

DATE(S): 5/25/2011

		WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	= <u>44.82</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	= <u>32.58</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	= <u>12.24</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	= <u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	= <u>2.08</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	= _____	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	= <u>100</u>	8"	2.60

OR
 $V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	Initial	10	20	30	40	50	60	70	80	90	100
pH	7.44	6.32	6.23	6.16	6.19	6.20	6.20	6.28	6.28	6.35	6.24
SPEC. COND. (mS)	0.18	1.08	1.19	1.32	1.38	1.40	1.43	1.43	1.46	1.45	1.47
TEMPERATURE (°C)	19.4	18.5	18.1	17.8	17.8	17.9	18.0	19.2	18.5	18.3	18.9
TURBIDITY (NTU)	>1000	550	320	160	95.0	84.0	70.0	65.0	70.0	75.0	55.0

COMMENTS: Well developed using Waterra inertial pump with dedicated/disposable HDPE tubing and foot valve.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Ave. - Klink Cosmo Phase 1 WELL NO.: DEC-064D

PROJECT NO.: 11176390.00002 Page: 1 of 1

STAFF: T. Ifkovich

DATE(S): 5/19/2011

		WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	= <u>79.71</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	= <u>34.80</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	= <u>44.91</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	= <u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	= <u>7.63</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	= _____	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	= <u>100</u>	8"	2.60

OR
 $V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	Initial	10	20	30	40	50	60	70	80	90	100
pH	7.68	6.27	6.26	6.34	6.22	6.31	6.43	6.41	6.29	6.28	6.35
SPEC. COND. (mS)	0.16	1.32	1.27	1.31	1.30	1.33	1.36	1.37	1.37	1.36	1.37
TEMPERATURE (°C)	18.9	17.2	16.7	16.6	16.8	16.8	16.5	17.0	16.7	16.8	16.9
TURBIDITY (NTU)	105	119	69.0	48.2	36.8	38.9	35.5	34.6	31.9	28.8	24.5

COMMENTS: Well developed using Waterra inertial pump with dedicated/disposable HDPE tubing and foot valve.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Ave. - Klink Cosmo Phase 1 WELL NO.: DEC-065

PROJECT NO.: 11176390.00002 Page: 1 of 3

STAFF: C. Friedman

DATE(S): 6/9/2011

		WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	= <u>45.55</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	= <u>36.18</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	= <u>9.37</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	= <u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	= <u>1.59</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	= _____	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	= <u>110</u>	8"	2.60

OR
V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	Initial	5	10	15	20	25	30	35	40	45	50
pH	7.73	7.21	7.07	6.94	6.89	6.94	6.86	6.91	6.84	6.93	6.92
SPEC. COND. (mS)	0.18	0.21	0.21	0.23	0.23	0.24	0.25	0.25	0.24	0.24	0.25
TEMPERATURE (°C)	22.1	20.8	20.5	20.3	20.0	20.3	19.7	19.7	19.7	19.8	19.9
TURBIDITY (NTU)	>2000	>2000	1100	650	400	NA*	NA*	NA*	NA*	NA*	NA*

COMMENTS: Well developed using Waterra inertial pump with dedicated/disposable HDPE tubing and foot valve.

*Turbidity meter not working properly.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Ave. - Klink Cosmo Phase 1 WELL NO.: DEC-065

PROJECT NO.: 11176390.00002 Page: 2 of 3

STAFF: C. Friedman

DATE(S): 6/9/2011

		WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	= <u>45.55</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	= <u>36.18</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	= <u>9.37</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	= <u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	= <u>1.59</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	= _____	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	= <u>110</u>	8"	2.60

OR
 $V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	55	60	65**	70	75	80	85	90	95	100	105
pH	6.89	6.87	6.89	6.90	6.87	6.87	6.96	6.96	6.92	6.91	6.89
SPEC. COND. (mS)	0.25	0.27	0.27	0.28	0.28	0.29	0.29	0.30	0.30	0.30	0.31
TEMPERATURE (°C)	19.7	19.8	19.9	19.7	19.8	20.0	20.3	20.2	20.2	20.1	20.1
TURBIDITY (NTU)	NA*	100	75.0	200	130	80.0	70.0	50.0	50.0	60.0	60.0

COMMENTS: Well developed using Waterra inertial pump with dedicated/disposable HDPE tubing and foot valve.

*Turbidity meter not working properly.

**Lowered tubing after 65 gallons were purged.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Ave. - Klink Cosmo Phase 1 WELL NO.: DEC-065

PROJECT NO.: 11176390.00002 Page: 3 of 3

STAFF: C. Friedman

DATE(S): 6/9/2011

		WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	= <u>45.55</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	= <u>36.18</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	= <u>9.37</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	= <u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	= <u>1.59</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	= _____	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	= <u>110</u>	8"	2.60

OR
 $V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	110										
pH	6.93										
SPEC. COND. (mS)	0.32										
TEMPERATURE (°C)	20.1										
TURBIDITY (NTU)	55.0										

COMMENTS: Well developed using Waterra inertial pump with dedicated/disposable HDPE tubing and foot valve.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Ave. - Klink Cosmo Phase 1 WELL NO.: DEC-065D

PROJECT NO.: 11176390.00002 Page: 1 of 1

STAFF: T. Ifkovich

DATE(S): 5/26/2011

		WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	= <u>80.25</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	= <u>36.23</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	= <u>44.02</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	= <u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	= <u>7.48</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	= _____	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	= <u>100</u>	8"	2.60

OR
V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	Initial	10	20	30	40	50	60	70	80	90	100
pH	7.51	6.72	6.40	6.36	6.29	6.31	6.40	6.28	6.26	6.20	6.24
SPEC. COND. (mS)	0.16	0.26	0.52	0.60	0.74	0.80	0.90	0.93	1.00	1.05	1.09
TEMPERATURE (°C)	19.7	18.2	17.9	17.7	17.7	17.9	18.5	17.9	17.7	17.8	17.8
TURBIDITY (NTU)	>1000	100	40.0	38.0	39.0	140.0	85.0	80.0	65.0	55.0	45.0

COMMENTS: Well developed using Waterra inertial pump with dedicated/disposable HDPE tubing and foot valve.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Ave. - Klink Cosmo Phase 1 WELL NO.: DEC-066

PROJECT NO.: 11176390.00002 Page: 1 of 3

STAFF: C. Friedman

DATE(S): 6/9/2011

		WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	= <u>45.44</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	= <u>29.08</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	= <u>16.36</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	= <u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	= <u>2.78</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	= _____	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	= <u>110</u>	8"	2.60

OR
 $V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	Initial	5	10	15	20	25	30	35	40	45	50
pH	6.58	6.71	6.71	6.74	6.83	6.75	6.84	6.82	6.80	6.80	6.80
SPEC. COND. (mS)	0.35	0.31	0.31	0.32	0.32	0.32	0.33	0.34	0.33	0.35	0.36
TEMPERATURE (°C)	21.7	20.2	19.8	19.7	19.8	19.6	19.5	19.6	19.7	19.5	19.6
TURBIDITY (NTU)	>2000	950	400	240	160	120	110	75.0	50.0	50.0	50.0

COMMENTS: Well developed using Waterra inertial pump with dedicated/disposable HDPE tubing and foot valve.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Ave. - Klink Cosmo Phase 1 WELL NO.: DEC-066

PROJECT NO.: 11176390.00002 Page: 2 of 3

STAFF: C. Friedman

DATE(S): 6/9/2011

		WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	= <u>45.44</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	= <u>29.08</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	= <u>16.36</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	= <u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	= <u>2.78</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	= _____	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	= <u>110</u>	8"	2.60

OR
V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	55	60	65	70	75	80	85	90	95	100	105
pH	6.76	6.77	6.68	6.74	6.71	6.81	6.83	6.88	6.59	6.73	6.62
SPEC. COND. (mS)	0.36	0.36	0.37	0.37	0.38	0.38	0.39	0.39	0.40	0.40	0.40
TEMPERATURE (°C)	19.5	19.5	19.4	19.4	19.4	19.5	19.6	19.7	19.2	19.3	19.4
TURBIDITY (NTU)	40.0	38.0	35.0	32.0	31.0	29.0	32.0	24.0	24.0	21.0	21.0

COMMENTS: Well developed using Waterra inertial pump with dedicated/disposable HDPE tubing and foot valve.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Ave. - Klink Cosmo Phase 1 WELL NO.: DEC-066

PROJECT NO.: 11176390.00002 Page: 3 of 3

STAFF: C. Friedman

DATE(S): 6/9/2011

		WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	= <u>45.44</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	= <u>29.08</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	= <u>16.36</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	= <u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	= <u>2.78</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	= _____	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	= <u>110</u>	8"	2.60

OR
 $V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	110										
pH	6.63										
SPEC. COND. (mS)	0.40										
TEMPERATURE (°C)	19.3										
TURBIDITY (NTU)	21.0										

COMMENTS: Well developed using Waterra inertial pump with dedicated/disposable HDPE tubing and foot valve.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Ave. - Klink Cosmo Phase 1 WELL NO.: DEC-066D

PROJECT NO.: 11176390.00002 Page: 1 of 1

STAFF: T. Ifkovich

DATE(S): 5/24/2011

		WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	= <u>80.00</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	= <u>28.37</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	= <u>51.63</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	= <u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	= <u>8.78</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	= _____	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	= <u>100</u>	8"	2.60

OR
V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	Initial	10	20	30	40	50	60	70	80	90	100
pH	7.00	6.84	6.61	6.49	6.34	6.31	6.30	6.28	6.29	6.25	6.25
SPEC. COND. (mS)	0.13	0.39	0.45	0.55	0.63	0.69	0.74	0.78	0.84	0.88	0.93
TEMPERATURE (°C)	22.0	18.6	18.4	18.2	18.1	17.9	17.9	17.9	18.0	17.9	17.9
TURBIDITY (NTU)	>1000	52.4	39.9	32.7	26.5	20.0	21.0	26.0	20.0	20.0	19.0

COMMENTS: Well developed using Waterra inertial pump with dedicated/disposable HDPE tubing and foot valve.

RI PHASE II

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Ave. - Klink Cosmo Phase 2 WELL NO.: DEC-011D

PROJECT NO.: 11176390.00002 Page: 1 of 2

STAFF: Mira Abdelaziz

DATE(S): 3/15/2012

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>74.35</u>	WELL ID. 1"	VOL. (GAL/FT) 0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>34.84</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>39.51</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>6.72</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u> </u>	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	<u>110</u>	8"	2.60

OR
V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	10	15	20	25	30	35	40	45	50	55	60
pH	7.07	6.50	6.51	6.60	6.57	6.53	6.53	6.55	6.54	6.54	6.58
SPEC. COND. (mS)	0.41	0.27	0.22	0.27	0.26	0.29	0.26	0.28	0.27	0.29	0.29
TEMPERATURE (°C)	14.0	14.9	13.8	13.5	13.2	14.7	15.0	14.9	15.0	14.9	14.7
TURBIDITY (NTU)	130	128	85.9	55.9	45.8	31	22.9	19.2	18.4	14	13.8

COMMENTS:

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Ave. - Klink Cosmo Phase 2 WELL NO.: DEC-011D

PROJECT NO.: 11176390.00002 Page: 2 of 2

STAFF: Mira Abdelaziz

DATE(S): 3/15/2012

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>74.35</u>	WELL ID. 1"	VOL. (GAL/FT) 0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>34.84</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>39.51</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>6.72</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u> </u>	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	<u>110</u>	8"	2.60

OR
V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	65	70	75	80	85	90	95	100	105	110	
pH	6.58	6.57	6.57	6.56	6.55	6.55	6.55	6.54	6.58	6.58	
SPEC. COND. (mS)	0.30	0.32	0.31	0.33	0.33	0.34	0.35	0.36	0.38	0.37	
TEMPERATURE (°C)	14.7	15.0	14.8	15.1	15.2	15.0	15.2	15.2	14.9	15.1	
TURBIDITY (NTU)	14.3	11.1	11.9	8.87	9.82	12.7	8.05	12.5	7.92	12.8	

COMMENTS:

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Ave. - Klink Cosmo Phase 2 WELL NO.: DEC-015R

PROJECT NO.: 11176390.00002 Page: 1 of 2

STAFF: Scott McCabe

DATE(S): 3/14/2012

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>42.50</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>36.32</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>6.18</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>1.05</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u> </u>	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	<u>100</u>	8"	2.60

OR
 $V = 0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	5	10	15	20	25	30	35	40	45	50	55
pH	6.32	7.20	7.13	7.08	7.04	6.89	6.90	6.93	6.90	6.89	6.87
SPEC. COND. (mS)	1.16	1.40	1.46	1.48	1.81	1.93	1.95	1.98	1.96	1.98	2.00
TEMPERATURE (°C)	18.4	16.1	15.8	15.4	16.0	16.1	16.0	15.9	16.0	16.1	16.2
TURBIDITY (NTU)	2291	799	463	341	263	199	177	245	121	143	133

COMMENTS:

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Ave. - Klink Cosmo Phase 2 WELL NO.: DEC-015R

PROJECT NO.: 11176390.00002 Page: 2 of 2

STAFF: Scott McCabe

DATE(S): 3/14/2012

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>42.50</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>36.32</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>6.18</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>1.05</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u> </u>	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	<u>100</u>	8"	2.60

OR
 $V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	60	65	70	75	80	85	90	95	100		
pH	6.93	6.98	6.99	7.02	7.01	7.06	7.06	7.08	7.10		
SPEC. COND. (mS)	2.10	2.13	2.15	2.17	2.19	2.19	2.21	2.23	2.25		
TEMPERATURE (°C)	16.3	15.7	15.5	15.6	15.7	16.1	16.1	15.1	16.2		
TURBIDITY (NTU)	160	144	129	100.8	85.6	61.9	59.5	52.1	47.4		

COMMENTS:

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Ave. - Klink Cosmo Phase 2 WELL NO.: DEC-028D

PROJECT NO.: 11176390.00002 Page: 1 of 2

STAFF: Scott McCabe

DATE(S): 3/14/2012

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>80.80</u>	WELL ID. 1"	VOL. (GAL/FT) 0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>37.35</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>43.45</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>7.39</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u> </u>	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	<u>100</u>	8"	2.60

OR
V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	5	10	15	20	25	30	35	40	45	50	55
pH	7.65	7.66	7.67	7.51	7.50	7.44	7.34	7.31	7.29	7.26	7.23
SPEC. COND. (mS)	0.41	0.63	0.78	0.81	0.99	1.01	1.02	1.03	1.09	1.11	1.13
TEMPERATURE (°C)	17.6	16.0	15.5	15.9	16.0	16.1	16.2	16.0	15.9	15.7	15.6
TURBIDITY (NTU)	114	138	36.1	24.7	23.4	19.9	10.9	9.86	11.1	14.7	13.5

COMMENTS:

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Ave. - Klink Cosmo Phase 2 WELL NO.: DEC-028D

PROJECT NO.: 11176390.00002 Page: 2 of 2

STAFF: Scott McCabe

DATE(S): 3/14/2012

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>80.80</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>37.35</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>43.45</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>7.39</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u></u>	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	<u>100</u>	8"	2.60

OR
 $V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	60	65	70	75	80	85	90	95	100		
pH	7.23	7.21	7.20	7.18	7.16	7.14	7.14	7.13	7.11		
SPEC. COND. (mS)	1.11	1.12	1.16	1.18	1.22	1.23	1.24	1.23	1.22		
TEMPERATURE (°C)	15.9	15.8	15.8	15.8	15.5	15.8	15.7	15.6	15.8		
TURBIDITY (NTU)	19.3	16.4	15.7	13.0	12.9	12.4	11.9	16.7	21.4		

COMMENTS:

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Ave. - Klink Cosmo Phase 2 WELL NO.: DEC-046D

PROJECT NO.: 11176390.00002 Page: 1 of 2

STAFF: Mira Abdelaziz

DATE(S): 3/16/2012

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>73.30</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>33.60</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>39.70</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>6.75</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u> </u>	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	<u>110</u>	8"	2.60

OR
 $V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	5	10	15	20	25	30	35	40	45	50	55
pH	6.55	6.38	6.44	6.46	6.50	6.55	6.52	6.55	6.55	6.56	6.56
SPEC. COND. (mS)	0.38	0.37	0.45	0.53	0.61	0.71	0.69	0.74	0.77	0.79	0.83
TEMPERATURE (°C)	14.9	15.3	14.6	15.0	14.6	13.8	14.5	14.4	14.4	14.7	14.8
TURBIDITY (NTU)	734	202	134	119	95.8	88.1	76.7	73.6	71.6	61.0	52.1

COMMENTS:

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Ave. - Klink Cosmo Phase 2 WELL NO.: DEC-046D

PROJECT NO.: 11176390.00002 Page: 2 of 2

STAFF: Mira Abdelaziz

DATE(S): 3/16/2012

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>73.30</u>	WELL ID. 1"	VOL. (GAL/FT) 0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>33.60</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>39.70</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>6.75</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u> </u>	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	<u>110</u>	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	60	65	70	75	80	85	90	95	100	105	110
pH	6.55	6.55	6.51	6.54	6.54	6.55	6.55	6.55	6.53	6.54	6.54
SPEC. COND. (mS)	0.85	0.87	0.89	0.91	0.92	0.93	0.94	0.95	0.95	0.98	0.98
TEMPERATURE (°C)	14.4	15.0	15.3	15.4	15.3	15.2	15.2	15.3	15.4	15.3	15.3
TURBIDITY (NTU)	43.6	36.4	22.8	30.3	32.3	28.6	22.1	18.7	19.3	22.6	26.7

COMMENTS:

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Ave. - Klink Cosmo Phase 2 WELL NO.: DEC-088

PROJECT NO.: 11176390.00002 Page: 1 of 2

STAFF: Scott McCabe & Tim Ifkovich

DATE(S): 3/7/2012

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>49.20</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>38.57</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>10.63</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>1.81</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u> </u>	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	<u>90</u>	8"	2.60

OR
 $V = 0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	5	10	15	20	25	30	35	40	45	50	55
pH	7.50	6.76	6.77	6.65	6.58	6.45	6.46	6.32	6.38	6.35	6.43
SPEC. COND. (mS)	0.00	0.92	0.92	0.92	0.91	0.91	0.91	0.92	0.91	0.91	0.90
TEMPERATURE (°C)	16.2	15.5	15.3	15.3	15.3	15.2	14.5	14.8	14.9	15.2	15.2
TURBIDITY (NTU)	1021	141	105.7	190	65.4	49.5	237	70.0	70.0	760	79.6

COMMENTS:

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Ave. - Klink Cosmo Phase 2 WELL NO.: DEC-088

PROJECT NO.: 11176390.00002 Page: 2 of 2

STAFF: Scott McCabe & Tim Ifkovich

DATE(S): 3/7/2012

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>49.20</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>38.57</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>10.63</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>1.81</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u> </u>	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	<u>90</u>	8"	2.60

OR
V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	60	65	70	75	80	85	90				
pH	6.50	6.43	6.40	6.41	6.41	6.46	6.45				
SPEC. COND. (mS)	0.92	0.91	0.91	0.90	0.90	0.88	0.89				
TEMPERATURE (°C)	14.8	15.2	14.7	15.0	14.9	15.2	15.1				
TURBIDITY (NTU)	52.1	23.8	22.4	93.7	40.3	38.7	25.7				

COMMENTS:

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Ave. - Klink Cosmo Phase 2 WELL NO.: DEC-088D

PROJECT NO.: 11176390.00002 Page: 1 of 2

STAFF: Tim Ifkovich

DATE(S): 3/8/2012

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>84.68</u>	WELL ID. 1"	VOL. (GAL/FT) 0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>37.61</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>47.07</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>8.00</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u> </u>	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	<u>100</u>	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	5	10	15	20	25	30	35	40	45	50	55
pH	7.24	7.11	6.96	6.88	6.79	6.78	6.74	6.74	6.72	6.70	6.75
SPEC. COND. (mS)	0.92	0.94	0.93	0.96	1.01	1.04	1.06	1.07	1.08	1.07	1.09
TEMPERATURE (°C)	15.3	15.3	15.3	15.0	15.2	15.1	15.1	15.1	15.1	15.2	15.2
TURBIDITY (NTU)	>1000	757	215	191	151	113	234	208	90.8	202	87.6

COMMENTS:

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Ave. - Klink Cosmo Phase 2 WELL NO.: DEC-088D

PROJECT NO.: 11176390.00002 Page: 2 of 2

STAFF: Tim Ifkovich

DATE(S): 3/8/2012

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>84.68</u>	WELL ID. 1"	VOL. (GAL/FT) 0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>37.61</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>47.07</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>8.00</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u> </u>	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	<u>100</u>	8"	2.60

OR
V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	60	65	70	75	80	85	90	95	100		
pH	6.70	6.72	6.68	6.76	6.68	6.66	6.76	6.66	6.64		
SPEC. COND. (mS)	1.07	1.09	1.09	1.09	1.01	1.10	1.11	1.12	1.15		
TEMPERATURE (°C)	15.1	15.0	15.0	15.0	15.2	15.3	15.3	15.4	15.2		
TURBIDITY (NTU)	139	97.0	713	71.5	1031	227	93.0	238	66.0		

COMMENTS:

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Ave. - Klink Cosmo Phase 2 WELL NO.: DEC-089

PROJECT NO.: 11176390.00002 Page: 1 of 2

STAFF: Scott McCabe

DATE(S): 3/8/2012

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>50.05</u>	WELL ID. 1"	VOL. (GAL/FT) 0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>36.72</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>13.33</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>2.27</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u> </u>	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	<u>95</u>	8"	2.60

OR
V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	5	10	15	20	30	35	40	45	50	55	60
pH	6.80	6.82	6.26	6.74	6.72	6.75	6.75	6.72	6.77	6.71	6.71
SPEC. COND. (mS)	0.66	0.65	0.68	0.66	0.64	0.66	0.64	0.67	0.64	0.62	0.63
TEMPERATURE (°C)	15.7	15.6	15.7	15.7	15.7	15.7	15.6	15.7	15.6	15.6	15.7
TURBIDITY (NTU)	8.6	5.18	1.22	0.03	0.68	0.0	0.0	0.0	0.0	0.0	0.0

COMMENTS:

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Ave. - Klink Cosmo Phase 2 WELL NO.: DEC-089

PROJECT NO.: 11176390.00002 Page: 2 of 2

STAFF: Scott McCabe

DATE(S): 3/8/2012

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>50.05</u>	WELL ID. 1"	VOL. (GAL/FT) 0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>36.72</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>13.33</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>2.27</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u> </u>	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	<u>95</u>	8"	2.60

OR
V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	65	70	75	80	90	95					
pH	6.70	6.74	6.68	6.68	6.72	6.74					
SPEC. COND. (mS)	0.61	0.61	0.62	0.62	0.64	0.64					
TEMPERATURE (°C)	15.6	15.6	15.7	15.6	15.6	15.6					
TURBIDITY (NTU)	0.0	0.0	0.0	0.0	0.0	0.0					

COMMENTS:

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Ave. - Klink Cosmo Phase 2 WELL NO.: DEC-089D

PROJECT NO.: 11176390.00002 Page: 1 of 2

STAFF: Tim Ifkovich

DATE(S): 3/8/2012

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>84.80</u>	WELL ID. 1"	VOL. (GAL/FT) 0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>36.81</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>47.99</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>8.16</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u> </u>	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	<u>100</u>	8"	2.60

OR
V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	15	20	25	30	35	40	45	50	55	60	65
pH	6.88	6.87	6.73	6.67	6.61	6.57	6.56	6.54	6.51	6.55	6.51
SPEC. COND. (mS)	1.28	1.29	1.29	1.27	1.27	1.24	1.24	1.25	1.27	1.27	1.27
TEMPERATURE (°C)	16.4	15.8	15.8	15.7	15.7	15.7	15.7	15.7	15.7	15.6	15.7
TURBIDITY (NTU)	104.5	54.4	39.1	16.5	34.1	26.9	4.52	3.65	0.0	0.0	3.13

COMMENTS:

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Ave. - Klink Cosmo Phase 2 WELL NO.: DEC-089D

PROJECT NO.: 11176390.00002 Page: 2 of 2

STAFF: Tim Ifkovich

DATE(S): 3/8/2012

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>84.80</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>36.81</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>47.99</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>8.16</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u> </u>	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	<u>100</u>	8"	2.60

OR
V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	70	75	80	85	90	95	100				
pH	6.50	6.48	--	--	--	--	--				
SPEC. COND. (mS)	1.27	1.27	--	1.28	--	--	--				
TEMPERATURE (°C)	15.7	15.6	15.7	15.6	15.6	15.6	15.6				
TURBIDITY (NTU)	0.0	1.58	1.1	0.03	3.85	0.0	0.0				

COMMENTS:

-- pH and Specific Conductivity meter not working properly.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Ave. - Klink Cosmo Phase 2 WELL NO.: DEC-090

PROJECT NO.: 11176390.00002 Page: 1 of 2

STAFF: Tim Ifkovich

DATE(S): 3/8/2012

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>44.76</u>	WELL ID. 1"	VOL. (GAL/FT) 0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>31.69</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>13.07</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>2.22</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u> </u>	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	<u>100</u>	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	5	10	15	20	25	30	35	40	45	50	55
pH	7.34	7.27	7.17	7.15	7.20	7.09	7.18	7.20	7.07	7.08	6.98
SPEC. COND. (mS)	0.36	0.36	0.35	0.37	0.42	0.45	0.37	0.38	0.47	0.50	0.47
TEMPERATURE (°C)	19.1	19.0	17.1	17.0	16.7	17.4	17.5	17.3	17.3	17.2	17.8
TURBIDITY (NTU)	1800	1702	1236	747	217	179	173	5168	883	170	137

COMMENTS:

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Ave. - Klink Cosmo Phase 2 WELL NO.: DEC-090

PROJECT NO.: 11176390.00002 Page: 2 of 2

STAFF: Tim Ifkovich

DATE(S): 3/8/2012

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>44.76</u>	WELL ID. 1"	VOL. (GAL/FT) 0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>31.69</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>13.07</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>2.22</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u> </u>	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	<u>100</u>	8"	2.60

OR
V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	60	65	70	75	80	85	90	95	100		
pH	7.19	7.20	7.14	7.29	7.19	7.11	7.10	7.11	7.11		
SPEC. COND. (mS)	0.50	0.49	0.53	0.54	0.56	0.56	0.58	0.58	0.59		
TEMPERATURE (°C)	17.5	17.5	17.3	17.8	17.4	17.5	17.6	17.4	17.5		
TURBIDITY (NTU)	123	105.7	232	90.0	916	236	97.1	556	79.0		

COMMENTS:

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Ave. - Klink Cosmo Phase 2 WELL NO.: DEC-090D

PROJECT NO.: 11176390.00002 Page: 1 of 2

STAFF: Scott McCabe & Tim Ifkovich

DATE(S): 3/8/2012

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>79.02</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>32.00</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>47.02</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>7.99</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u> </u>	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	<u>100</u>	8"	2.60

OR
 $V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	5	10	15	20	25	30	35	40	45	50	55
pH	7.92	7.14	6.72	6.54	6.50	6.49	6.48	6.46	6.47	6.55	6.65
SPEC. COND. (mS)	0.01	0.05	0.00	0.00	0.00	0.94	0.97	1.03	1.06	1.07	1.08
TEMPERATURE (°C)	18.8	17.9	17.4	17.4	17.2	17.4	17.2	17.3	17.2	17.3	17.2
TURBIDITY (NTU)	73.6	9.18	2.65	2.36	3.64	2.22	1.49	1.84	1.62	1.62	1.56

COMMENTS:

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Ave. - Klink Cosmo Phase 2 WELL NO.: DEC-090D

PROJECT NO.: 11176390.00002 Page: 2 of 2

STAFF: Scott McCabe & Tim Ifkovich

DATE(S): 3/8/2012

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>79.02</u>	WELL ID. 1"	VOL. (GAL/FT) 0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>32.00</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>47.02</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>7.99</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u> </u>	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	<u>100</u>	8"	2.60

OR
V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	60	65	70	75	80	85	90	95	100		
pH	6.84	6.60	6.64	6.54	6.50	6.52	6.54	6.53	6.55		
SPEC. COND. (mS)	1.10	1.11	1.13	1.14	1.14	1.16	1.15	1.17	1.20		
TEMPERATURE (°C)	17.2	17.2	17.1	17.1	17.1	17.0	16.9	17.0	17.6		
TURBIDITY (NTU)	2.02	2.24	2.19	2.94	3.51	0.78	0.78	2.59	1.60		

COMMENTS:

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Ave. - Klink Cosmo Phase 2 WELL NO.: DEC-091

PROJECT NO.: 11176390.00002 Page: 1 of 2

STAFF: Scott McCabe

DATE(S): 3/13/2012

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>44.70</u>	WELL ID. 1"	VOL. (GAL/FT) 0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>25.25</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>19.45</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>3.31</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u> </u>	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	<u>100</u>	8"	2.60

OR
V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	5	10	15	20	25	30	35	40	45	50	55
pH	7.00	7.12	7.10	7.12	7.13	7.11	7.10	7.10	7.13	7.06	7.07
SPEC. COND. (mS)	0.78	0.76	0.73	0.70	0.68	0.65	0.66	0.66	0.67	0.66	0.65
TEMPERATURE (°C)	16.8	17.0	16.9	16.6	16.8	16.7	16.6	16.7	16.6	16.6	16.6
TURBIDITY (NTU)	3448	741	199	117.5	97.3	107.8	77.8	76.9	80.6	73.0	51.5

COMMENTS: Slight Sheen on water
Very slight petroleum like odor.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Ave. - Klink Cosmo Phase 2 WELL NO.: DEC-091

PROJECT NO.: 11176390.00002 Page: 2 of 2

STAFF: Scott McCabe

DATE(S): 3/13/2012

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>44.70</u>	WELL ID. 1"	VOL. (GAL/FT) 0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>25.25</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>19.45</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>3.31</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u> </u>	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	<u>100</u>	8"	2.60

OR
V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	60	65	70	75	80	85	90	95	100		
pH	7.08	7.11	7.13	7.23	7.21	7.25	7.26	7.25	7.27		
SPEC. COND. (mS)	0.67	0.66	0.66	0.67	0.66	0.67	0.67	0.66	0.66		
TEMPERATURE (°C)	16.5	16.6	16.5	16.6	16.5	16.5	16.5	16.6	16.6		
TURBIDITY (NTU)	74.9	66.8	73.6	92.4	68.3	46.3	36.6	35.3	39.2		

COMMENTS: Slight Sheen on water
Very slight petroleum like odor.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Ave. - Klink Cosmo Phase 2 WELL NO.: DEC-091D

PROJECT NO.: 11176390.00002 Page: 1 of 2

STAFF: Scott McCabe

DATE(S): 3/13/2012

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>80.13</u>	WELL ID. 1"	VOL. (GAL/FT) 0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>25.22</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>54.91</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>9.33</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u> </u>	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	<u>100</u>	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	5	10	15	20	25	30	35	40	45	50	55
pH	7.69	6.85	6.75	6.68	6.71	6.69	6.68	6.69	6.66	6.68	6.71
SPEC. COND. (mS)	0.67	0.74	0.77	0.80	0.84	0.85	0.84	0.85	0.87	0.88	0.89
TEMPERATURE (°C)	17.5	16.1	15.9	16.0	15.9	15.7	15.9	15.9	15.9	15.8	16.1
TURBIDITY (NTU)	234	117	69.1	34.5	30.4	26.2	29.8	24.7	27.2	21.9	32.7

COMMENTS:

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Meeker Ave. - Klink Cosmo Phase 2 WELL NO.: DEC-091D

PROJECT NO.: 11176390.00002 Page: 2 of 2

STAFF: Scott McCabe

DATE(S): 3/13/2012

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>80.13</u>	WELL ID. 1"	VOL. (GAL/FT) 0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>25.22</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>54.91</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>9.33</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u> </u>	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	<u>100</u>	8"	2.60

OR
V=0.0408 x (CASING DIAMETER)²

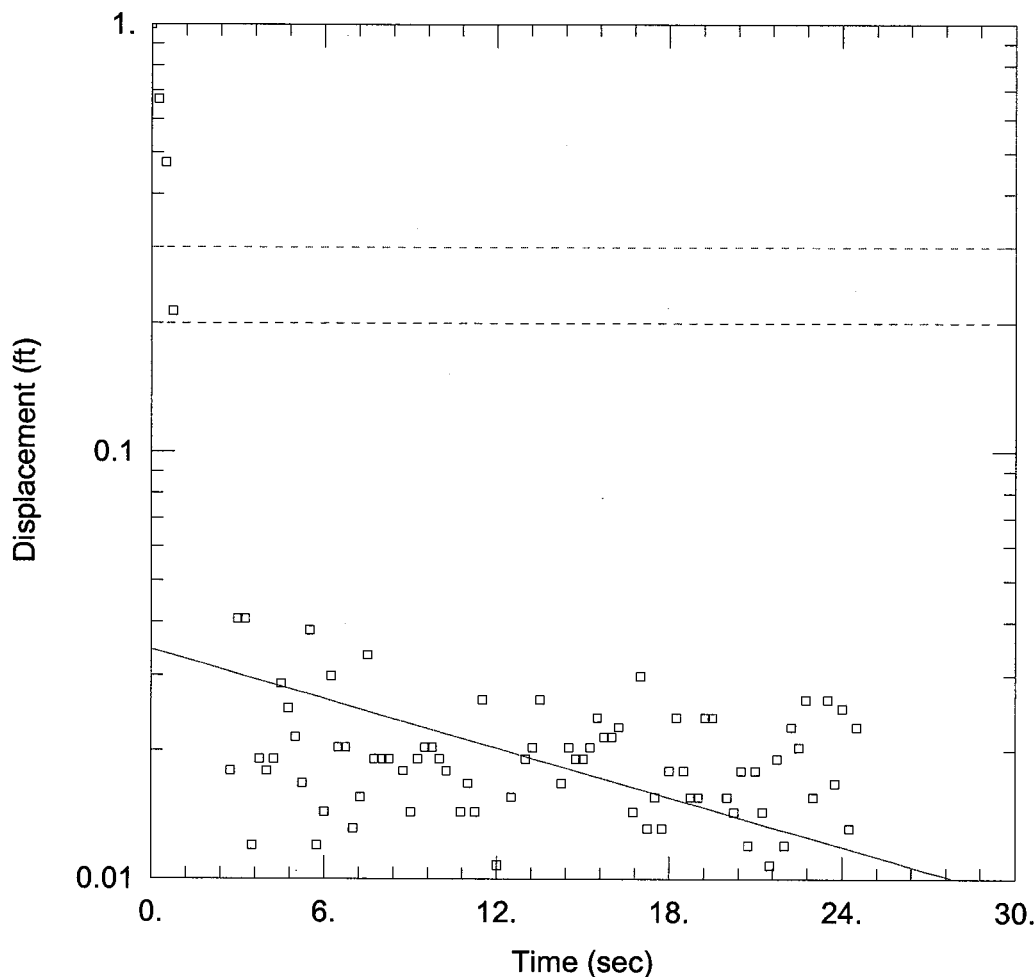
ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	60	65	70	75	80	85	90	95	100		
pH	6.74	6.71	6.71	6.70	6.72	6.73	6.72	6.70	6.71		
SPEC. COND. (mS)	0.88	0.88	0.89	0.89	0.88	0.90	0.90	0.90	0.90		
TEMPERATURE (°C)	15.8	15.8	15.6	15.8	15.8	15.9	15.6	15.6	15.7		
TURBIDITY (NTU)	27.4	33.2	23	23.3	19.6	24.5	23.7	17.1	27.3		

COMMENTS:

APPENDIX I

AQUIFER TESTING DATA AND RESULTS



DEC-031RH

Data Set: I:\...\DEC-031.aqt

Date: 09/08/11

Time: 12:38:09

PROJECT INFORMATION

Company: URS Corporation

Client: NYSDEC

Location: Klink Cosmo

Test Well: DEC-031

AQUIFER DATA

Saturated Thickness: 13.15 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (DEC-031)

Initial Displacement: 1. ft

Static Water Column Height: 113.2 ft

Total Well Penetration Depth: 13.15 ft

Screen Length: 15. ft

Casing Radius: 0.0833 ft

Wellbore Radius: 0.1533 ft

Gravel Pack Porosity: 0.3

SOLUTION

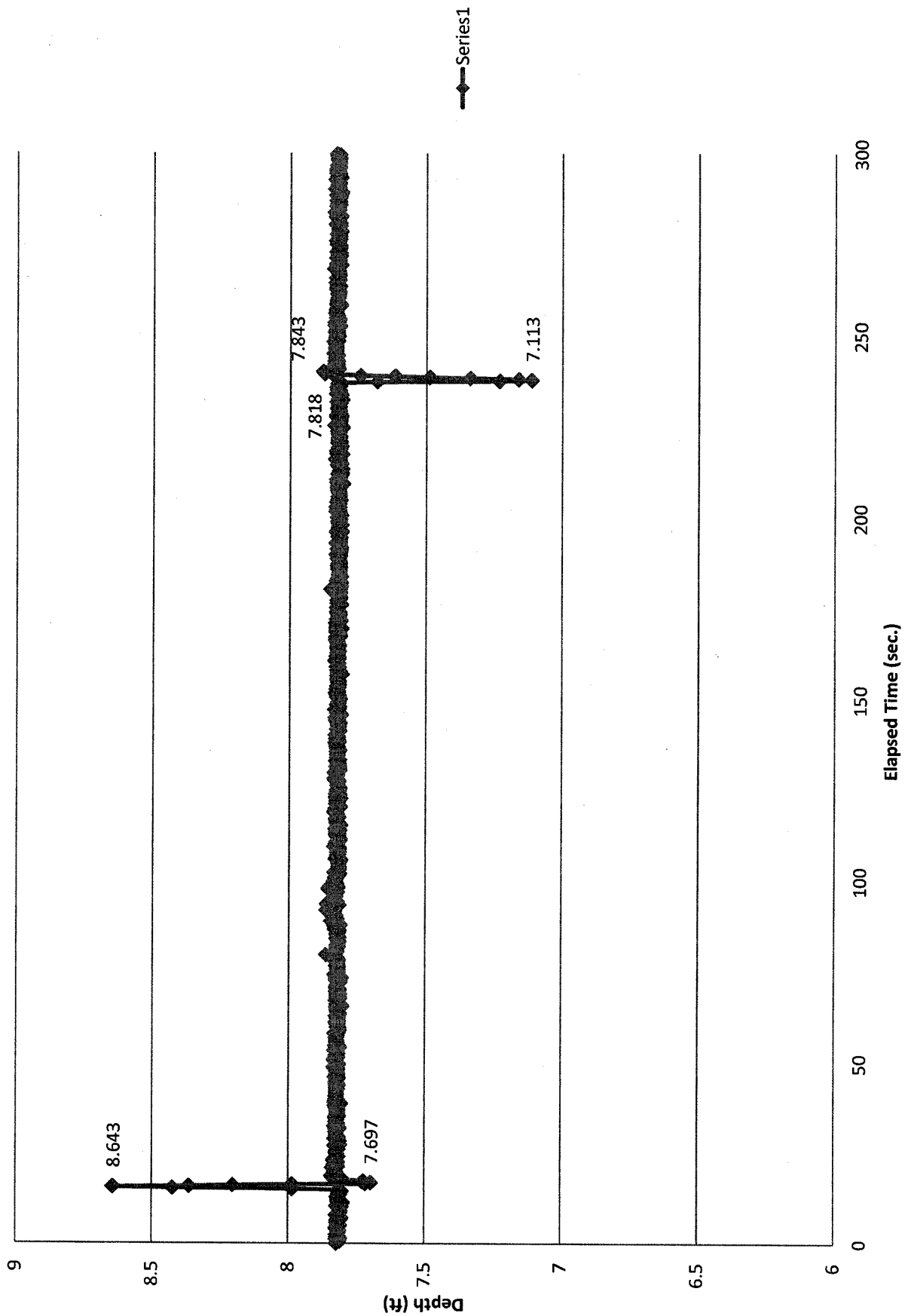
Aquifer Model: Unconfined

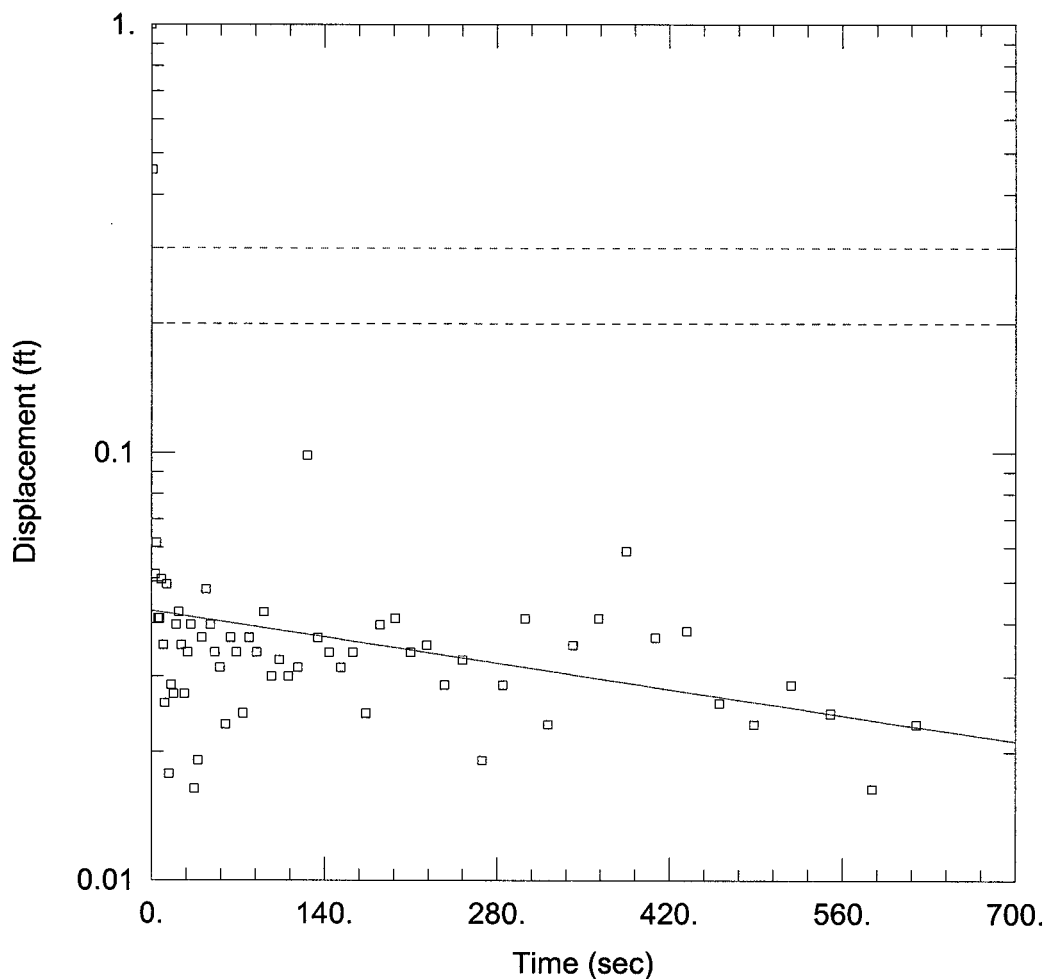
Solution Method: Bouwer-Rice

$K = 0.001852$ cm/sec

$y_0 = 0.03455$ ft

DEC 31S2 Falling and Rising Head Slug Tests.





DEC-044 FH

Data Set: I:\...\DEC-044FH.aqt

Date: 09/08/11

Time: 12:03:55

PROJECT INFORMATION

Company: URS Corporation

Client: NYSDEC

Project: 11176390

Location: Klink Cosmo

Test Well: DEC-044

Test Date: May 16 2011

AQUIFER DATA

Saturated Thickness: 10.72 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (DEC-044 FH)

Initial Displacement: 1. ft

Static Water Column Height: 10.72 ft

Total Well Penetration Depth: 10.72 ft

Screen Length: 15. ft

Casing Radius: 0.0833 ft

Wellbore Radius: 0.0833 ft

Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined

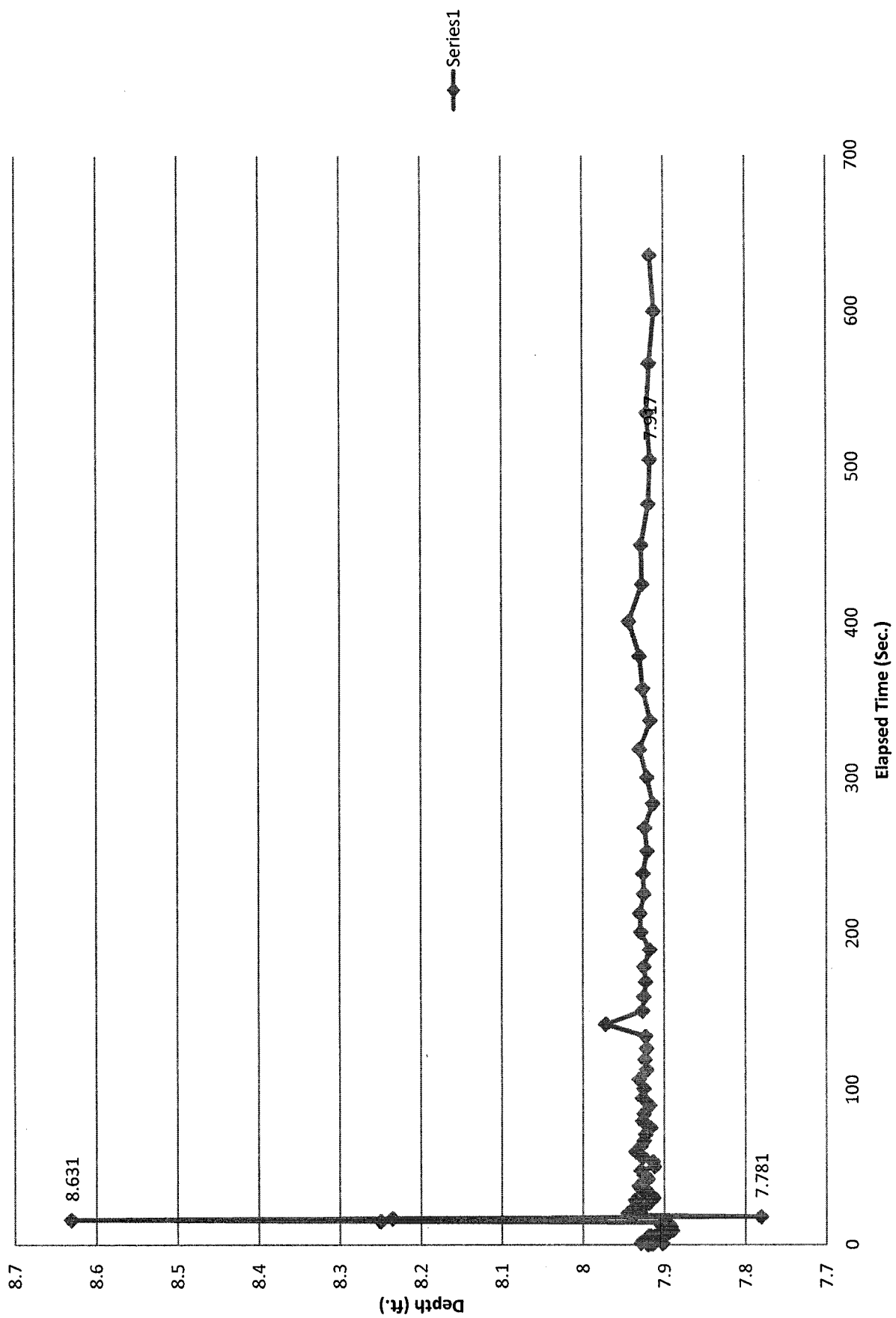
Solution Method: Bouwer-Rice

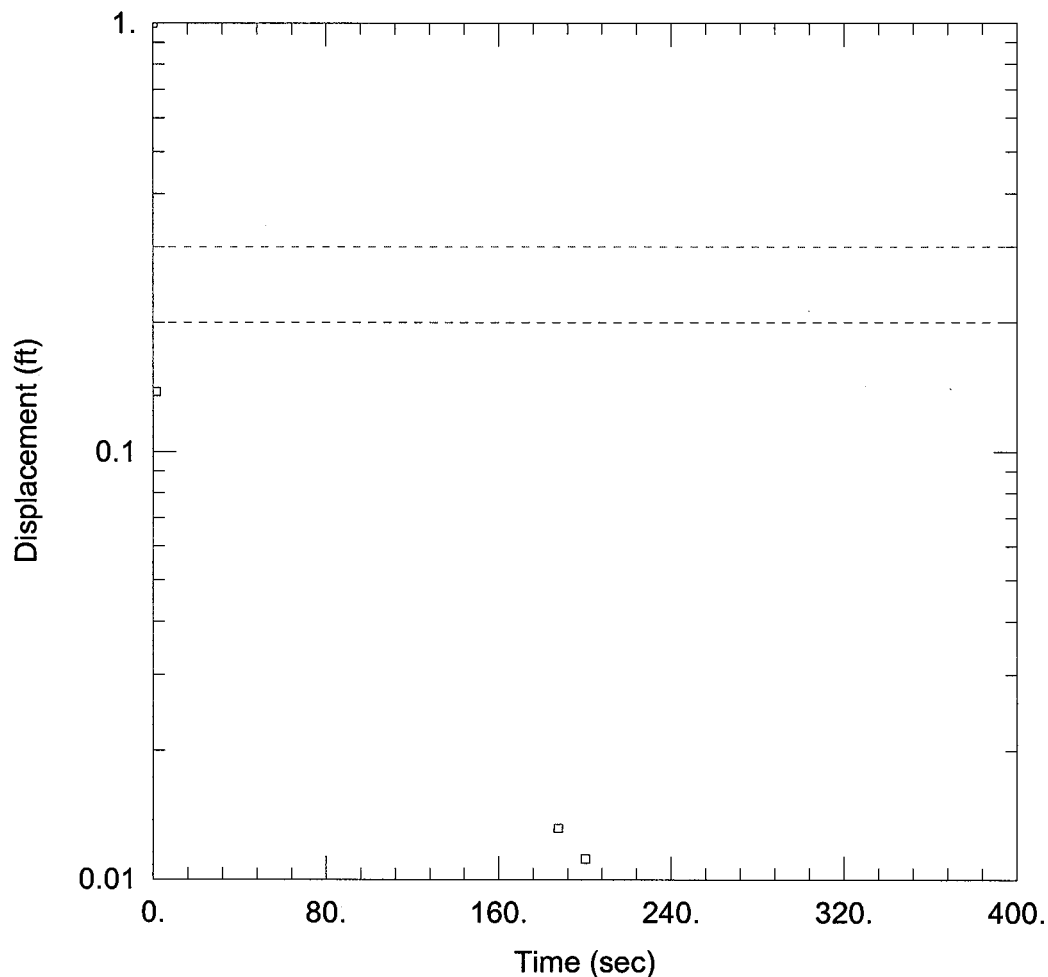
$K = 2.691E-5$ cm/sec

$y_0 = 0.04272$ ft

Done

DEC 44 Falling Head Slug Test





DEC-044 RH

Data Set: I:\...\DEC-044RH.aqt

Date: 09/08/11

Time: 12:00:09

PROJECT INFORMATION

Company: URS Corporation

Client: NYSDEC

Project: 11176390

Location: Klink Cosmo

Test Well: DEC-044

Test Date: May 16 2011

AQUIFER DATA

Saturated Thickness: 10.72 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (DEC-044)

Initial Displacement: 1. ft

Static Water Column Height: 10.72 ft

Total Well Penetration Depth: 10.72 ft

Screen Length: 15. ft

Casing Radius: 0.0833 ft

Wellbore Radius: 0.0833 ft

Gravel Pack Porosity: 0.3

SOLUTION

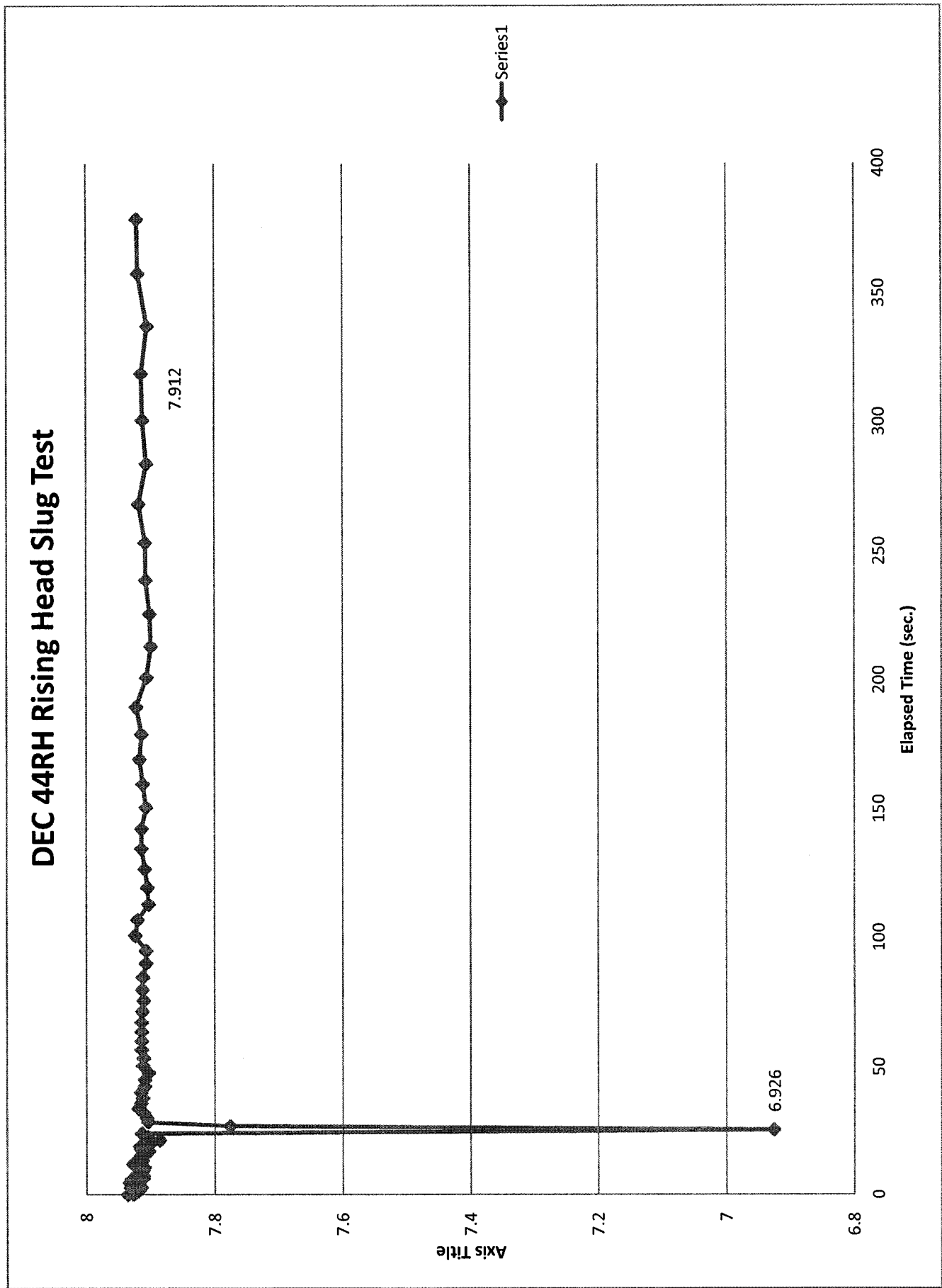
Aquifer Model: Unconfined

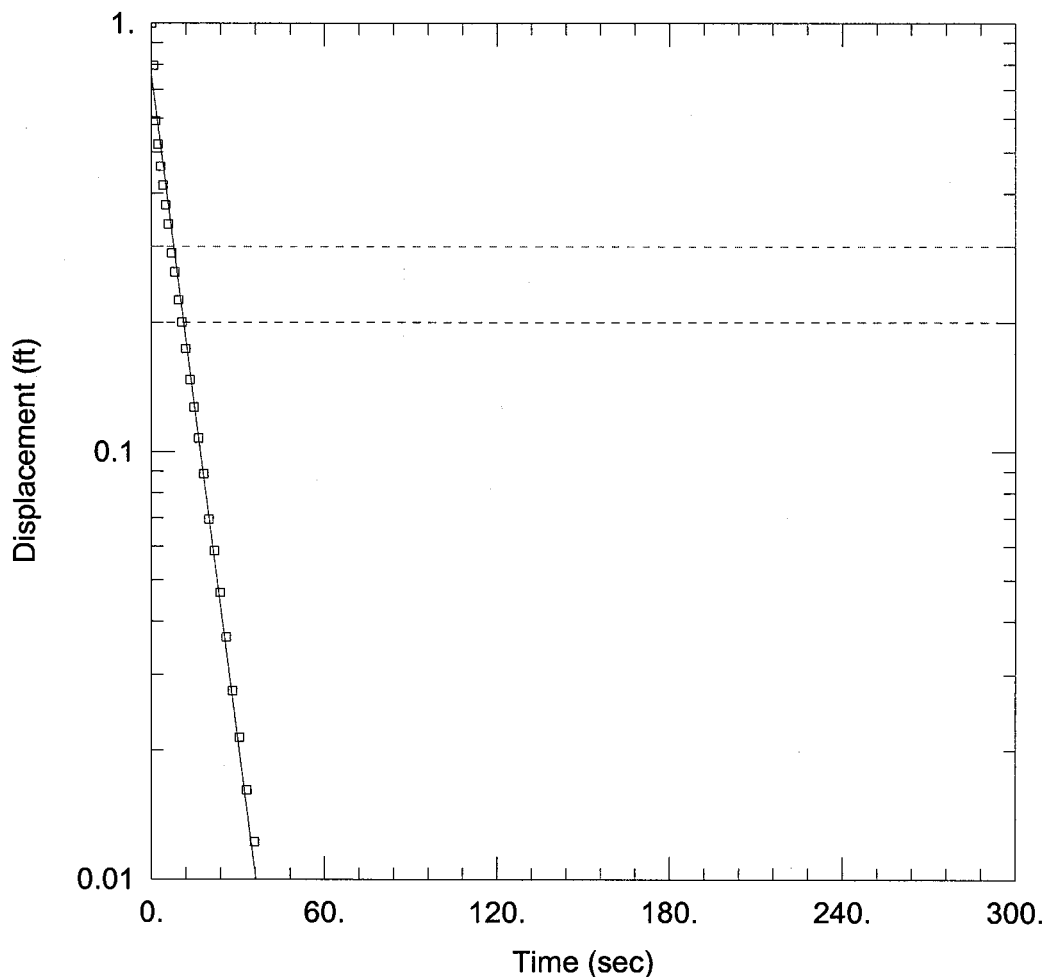
Solution Method: Bouwer-Rice

K = 3.854E-5 cm/sec

y0 = 0.007789 ft

Done





DEC-064RH

Data Set: I:\...\DEC-064RH.aqt

Date: 09/08/11

Time: 12:29:16

PROJECT INFORMATION

Company: URS Corporation

Client: NYSDEC

Test Well: DEC-064

AQUIFER DATA

Saturated Thickness: 10.55 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (DEC-064RH)

Initial Displacement: 1. ft

Total Well Penetration Depth: 10.55 ft

Casing Radius: 0.0833 ft

Static Water Column Height: 110.6 ft

Screen Length: 15. ft

Wellbore Radius: 0.1533 ft

Gravel Pack Porosity: 0.3

SOLUTION

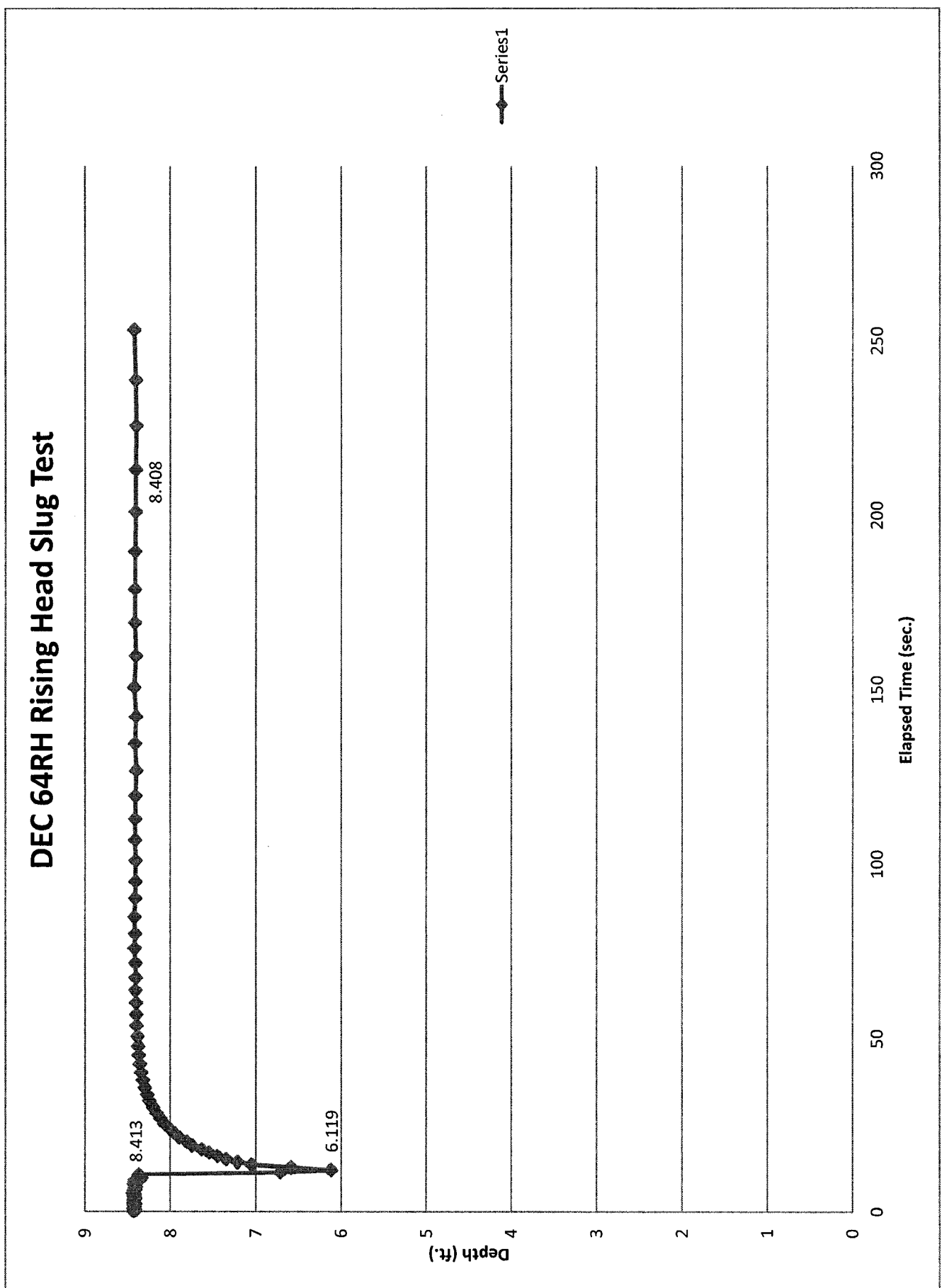
Aquifer Model: Unconfined

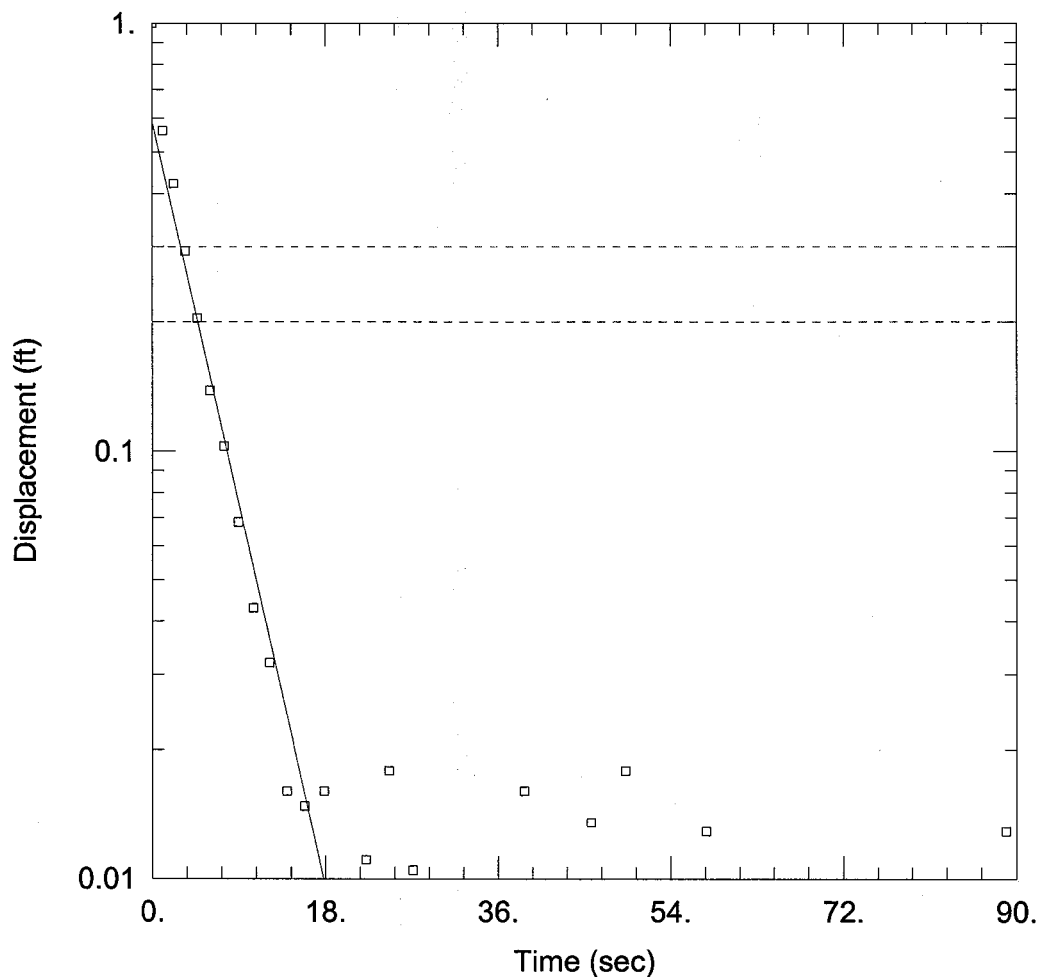
K = 0.004768 cm/sec

Solution Method: Bouwer-Rice

y0 = 0.7583 ft

Done





DEC-013D

Data Set: I:\...\DEC-013DRH.aqt

Date: 09/08/11

Time: 12:48:24

PROJECT INFORMATION

Company: URS Corporation

Client: NYSDEC

Location: Klink Cosmo

Test Well: DEC-13D

AQUIFER DATA

Saturated Thickness: 48.81 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (DEC-013D)

Initial Displacement: 1. ft

Static Water Column Height: 48.81 ft

Total Well Penetration Depth: 48.81 ft

Screen Length: 15. ft

Casing Radius: 0.0833 ft

Wellbore Radius: 0.0833 ft

SOLUTION

Aquifer Model: Unconfined

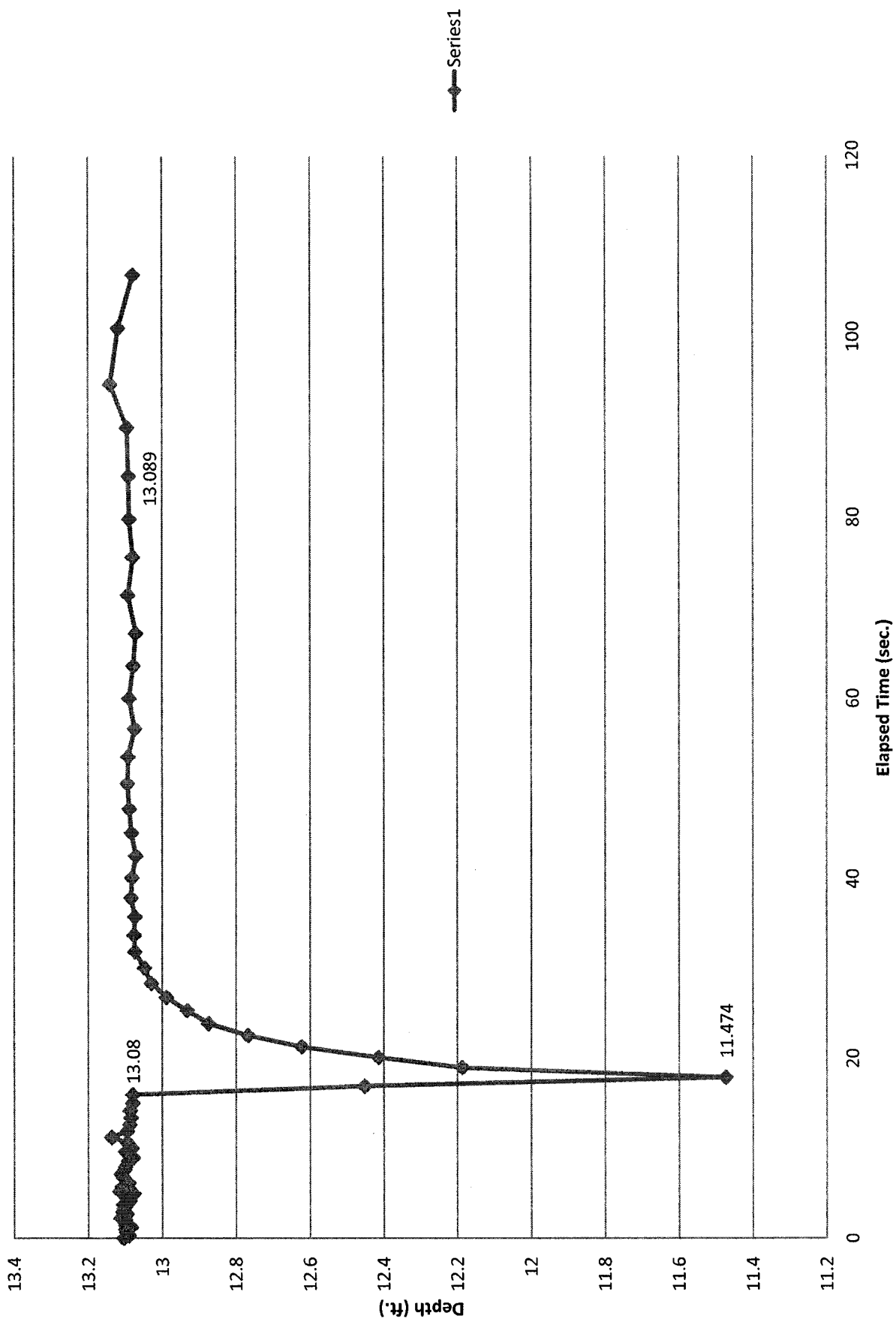
Solution Method: Bouwer-Rice

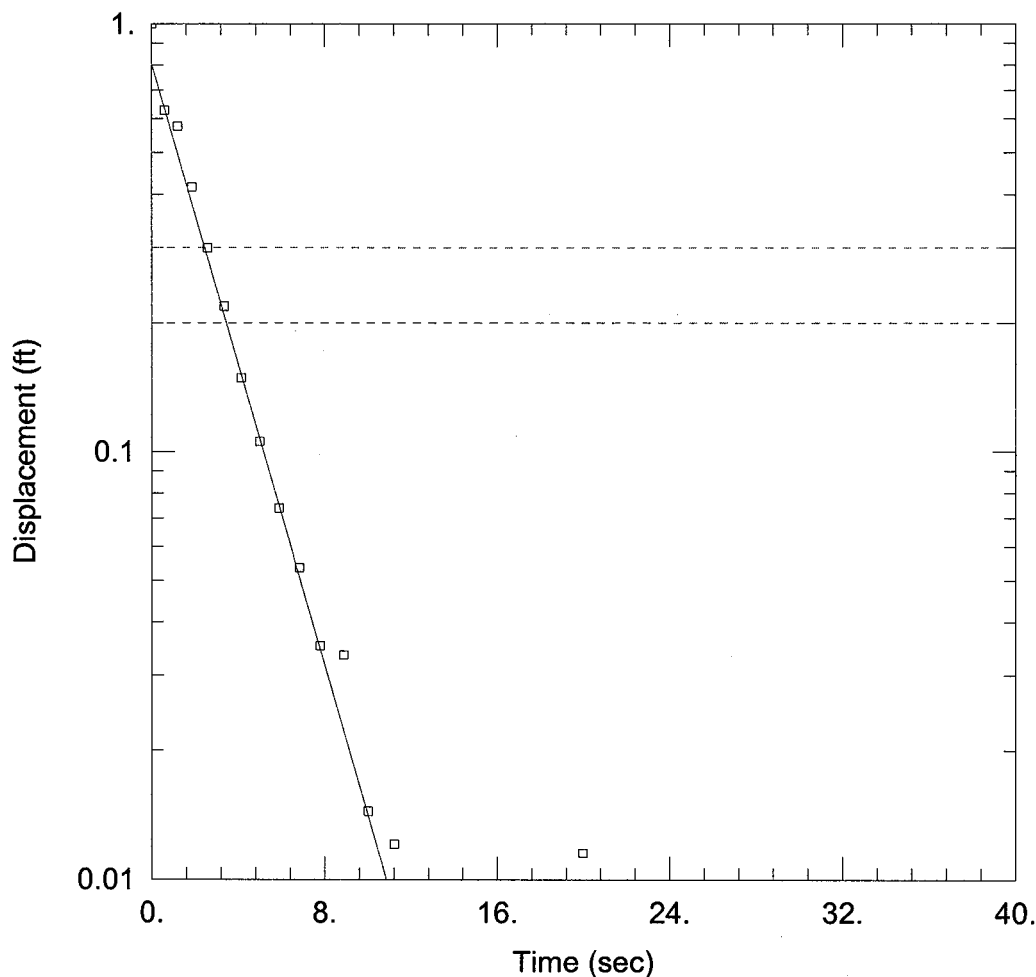
K = 0.009736 cm/sec

y0 = 0.5887 ft

Done

DEC 13DRH Rising Head Slug Test





DEC-044D FH

Data Set: I:\...\DEC-044DRH.aqt

Date: 09/08/11

Time: 12:09:33

PROJECT INFORMATION

Company: URS Corporation

Client: NYSDEC

Project: 11176390

Location: Klink Cosmo

Test Well: DEC-044D

Test Date: June 10 2011

AQUIFER DATA

Saturated Thickness: 46.16 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (DEC-044D)

Initial Displacement: 1. ft

Static Water Column Height: 46.16 ft

Total Well Penetration Depth: 46.16 ft

Screen Length: 10. ft

Casing Radius: 0.0833 ft

Wellbore Radius: 0.0833 ft

SOLUTION

Aquifer Model: Unconfined

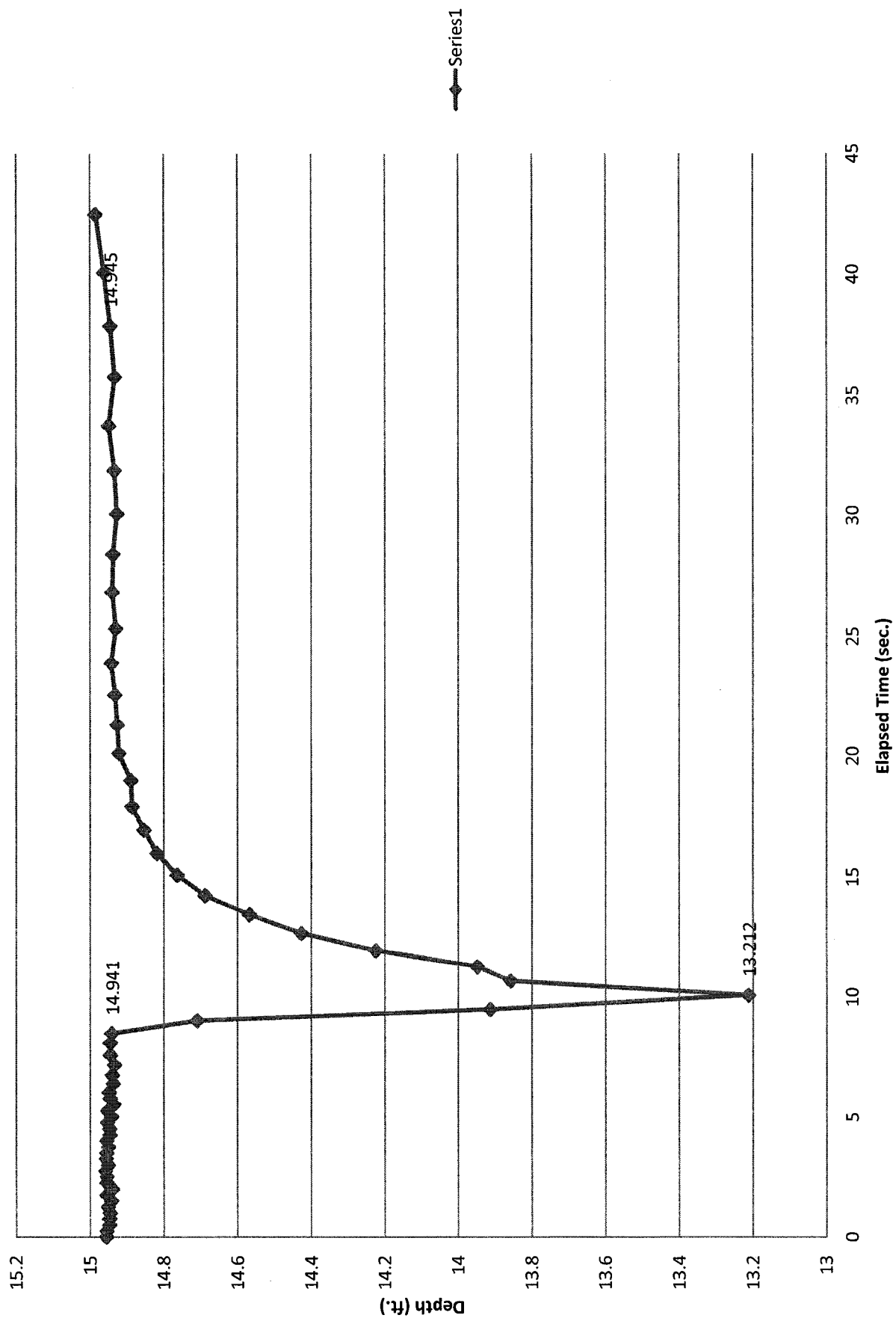
Solution Method: Bouwer-Rice

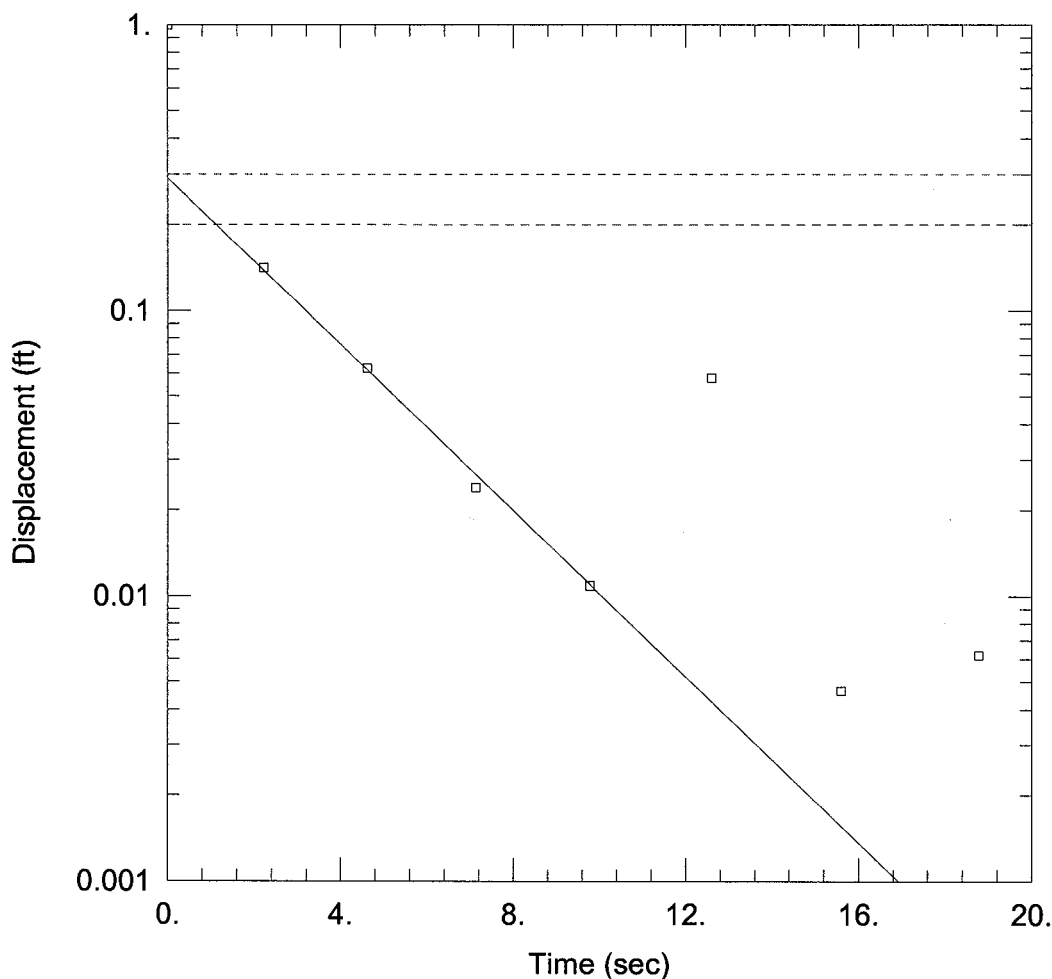
$K = 0.02479$ cm/sec

$y_0 = 0.8062$ ft

Done

DEC 44D Rising Head Slug Test





DEC-044D FALLING HEAD

Data Set: I:\...\DEC-044DFH.aqt

Date: 09/08/11

Time: 12:13:00

PROJECT INFORMATION

Company: URS Corporation

Client: NYSDEC

Project: 11176390

Location: Klink Cosmo

Test Well: DEC-044D

Test Date: June 10 2011

AQUIFER DATA

Saturated Thickness: 46.16 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (DEC-044D)

Initial Displacement: 1. ft

Static Water Column Height: 46.16 ft

Total Well Penetration Depth: 46.16 ft

Screen Length: 10. ft

Casing Radius: 0.0833 ft

Wellbore Radius: 0.0833 ft

SOLUTION

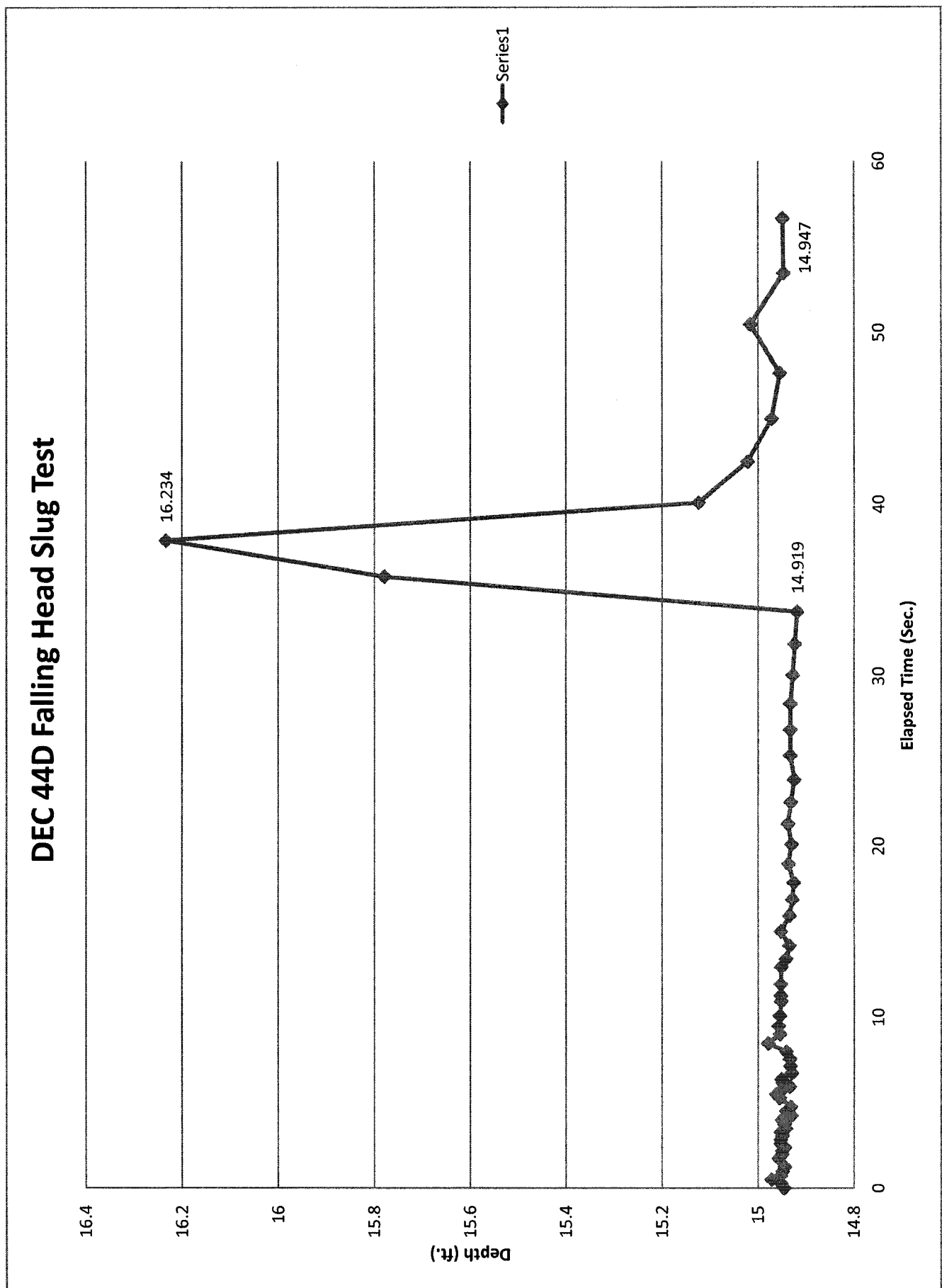
Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 0.02055$ cm/sec

$y_0 = 0.2908$ ft

Done



APPENDIX J

MONITORING WELL PURGE LOGS

RI PHASE I

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: NYSDEC - Meeker Ave Site: Klink/Cosmo Well I.D.: DEC-004

Date: 6/24/2011 Sampling Personnel: CF/SL Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Poly	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Below Top of Riser	Initial Depth to Water:	36.45	Depth to Well Bottom:	49.97	Well Diameter:	2"	Screen Length:	15'
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	8.3	Estimated Purge Volume (liters):	15
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Sample ID: DEC-004 Sample Time: 0725 QA/QC:

Sample Parameters: TCL VOCs + Tics

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0650	7.55	18.92	2.020	16.09	>800	-24	500	36.45
0655	7.51	17.70	2.020	15.20	366.0	-26	500	36.45
0700	7.48	17.55	2.020	15.37	200.0	-26	500	36.45
0705	7.47	17.51	2.020	14.57	113.0	-33	500	36.45
0710	7.45	17.44	2.010	14.61	66.3	-34	500	36.45
0715	7.44	17.42	2.010	14.31	59.7	-42	500	36.45
0720	7.41	17.40	2.010	14.25	60.1	-46	500	36.45
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Water color very rusty at initial purging.

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Meeker Ave. Site: Well I.D.: DEC-06 (URS)

Date: 6/22/2007 Sampling Personnel: C.R. Company: URS Corporation

Purging/ Sampling Device:	Tubing Type:	Pump/Tubing Inlet Location:	Screen midpoint

Measuring Point:	Below Top of Riser	Initial Depth to Water:	24.35	Depth to Well Bottom:	33.00	Well Diameter:	2"	Screen Length:	15'
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Casing Type:	Volume in 1 Well Casing (liters):	6.6	Estimated Purge Volume (liters):
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Sample ID: DEC-06 Sample Time: 1220 QA/QC:

Sample Parameters:

Note: _____

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($v_{ql} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: NYSDEC - Meeker Ave Site: Klink/Cosmo Well I.D.: DEC-006D

Date: 6/20/2011 Sampling Personnel: TI/KM Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Poly	Pump/Tubing Inlet Location:	screen midpoint
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Measuring Point:	Below Top of Riser	Initial Depth to Water:	46.15	Depth to Well Bottom:	58.14	Well Diameter:	2"	Screen Length:	15'
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	7.4	Estimated Purge Volume (liters):	24
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Sample ID: DEC-006D Sample Time: 1858 QA/QC:

Sample Parameters: TCL VOCs + Tics

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES—0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($\text{vol}_{\text{cyl}} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: NYSDEC - Meeker Ave Site: Klink/Cosmo Well I.D.: DEC-006DD

Date: 6/20/2011 Sampling Personnel: TI/KM Company: URS Corporation

Purging/ Sampling Device:	<u>Bladder Pump</u>		Tubing Type:	<u>Poly</u>		Pump/Tubing Inlet Location:	<u>screen midpoint</u>		
Measuring Point:	<u>Below Top of Riser</u>	Initial Depth to Water:	<u>45.50</u>	Depth to Well Bottom:	<u>93.25</u>	Well Diameter:	<u>2"</u>	Screen Length:	<u>10'</u>
Casing Type:	<u>PVC</u>		Volume in 1 Well Casing (liters):	<u>29.5</u>		Estimated Purge Volume (liters):	<u>29</u>		

Sample ID: DEC-006DD Sample Time: 1733 QA/QC: DUP-062011

Sample Parameters: TCL VOCs + Tics

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1628	7.26	20.95	1.050	3.37	494.0	29	450	45.50
1633	6.91	19.27	1.070	2.73	103.0	33	450	45.50
1638	6.63	18.98	1.100	1.29	59.1	40	450	45.50
1643	6.57	18.95	1.090	1.10	25.5	46	450	45.50
1648	6.52	18.76	1.090	1.05	12.8	53	450	45.50
1653	6.50	18.69	1.090	0.94	8.1	57	450	45.50
1658	6.49	18.85	1.100	0.89	2.7	60	450	45.50
1703	6.48	18.75	1.100	0.82	0.6	64	450	45.50
1708	6.48	18.80	1.100	0.80	0.0	65	450	45.50
1713	6.47	18.39	1.110	0.92	0.0	67	450	45.55
1718	6.46	18.29	1.110	0.87	0.0	68	450	45.55
1723	6.46	18.07	1.120	0.74	0.0	70	450	45.55
1728	6.46	17.83	1.120	0.69	0.0	71	450	45.55
1733	6.44	17.86	1.120	0.68	0.0	72	450	45.55
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: NYSDEC - Meeker Ave Site: Klink/Cosmo Well I.D.: DEC-007

Date: 6/21/2011 Sampling Personnel: TI/KM Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Poly	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Below Top of Riser	Initial Depth to Water:	40.60	Depth to Well Bottom:	55.90	Well Diameter:	2"	Screen Length:	15'
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	9.4	Estimated Purge Volume (liters):	21
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Sample ID:	DEC-007	Sample Time:	1403	QA/QC:
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Sample Parameters: TCL VOCs + Tics

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1318	8.31	19.93	0.972	5.23	>800	187	470	40.60
1323	7.10	18.17	0.931	3.39	>800	194	470	40.66
1328	6.93	17.89	0.999	3.03	>800	197	470	40.66
1333	6.86	17.86	1.020	2.65	471.0	198	470	40.66
1338	6.84	17.70	1.040	2.86	250.0	198	470	40.66
1343	6.84	17.85	1.070	6.01	150.0	197	470	40.66
1348	6.83	17.75	1.070	5.56	100.0	196	470	40.66
1353	6.83	17.76	1.070	5.54	69.0	194	470	40.66
1358	6.83	17.64	1.070	5.23	49.0	193	470	40.66
1403	6.82	17.70	1.070	5.13	45.0	192	470	40.66
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES—0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($\text{vol}_{\text{cyl}} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: NYSDEC - Meeker Ave Site: Klink/Cosmo Well I.D.: DEC-007D

Date: 6/21/2011 Sampling Personnel: TI/KM Company: URS Corporation

Purging/ Sampling Device:	<u>Bladder Pump</u>		Tubing Type:	<u>Poly</u>		Pump/Tubing Inlet Location:	<u>Screen midpoint</u>		
Measuring Point:	<u>Below Top of Riser</u>	Initial Depth to Water:	<u>39.94</u>	Depth to Well Bottom:	<u>90.66</u>	Well Diameter:	<u>2"</u>	Screen Length:	<u>10'</u>
Casing Type:	<u>PVC</u>		Volume in 1 Well Casing (liters):	<u>31.3</u>		Estimated Purge Volume (liters):	<u>39</u>		

Sample ID: DEC-007D Sample Time: 1550 QA/QC:

Sample Parameters: TCL VOCs + Tics

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1435	8.75	23.99	0.471	2.74	3.7	-11	520	39.94
1440	7.10	18.76	1.300	1.10	98.1	24	520	39.94
1445	6.90	18.12	1.340	0.98	56.3	35	520	39.94
1450	6.74	18.10	1.370	0.75	20.4	40	520	39.94
1455	6.69	17.94	1.380	0.68	6.0	51	520	39.94
1500	6.68	17.84	1.380	0.63	1.1	56	520	39.94
1505	6.68	17.70	1.380	0.59	0.2	58	520	39.94
1510	6.67	17.63	1.380	0.57	0.0	61	520	39.94
1515	6.67	17.78	1.380	0.56	0.0	63	520	39.94
1520	6.67	17.66	1.390	0.54	0.0	63	520	39.94
1525	6.67	17.70	1.390	0.52	0.0	64	520	39.94
1530	6.66	17.65	1.400	0.50	0.0	66	520	39.94
1535	6.67	17.65	1.400	0.49	0.0	66	520	39.94
1540	NR	NR	NR	NR	NR	NR	NR	NR
1545	6.67	17.67	1.400	0.48	0.0	67	520	39.94
1550	6.67	17.76	1.400	0.47	0.0	68	520	39.94
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: 1540 missed reading
NR - Not Recorded

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: NYSDEC - Meeker Ave Site: Klink/Cosmo Well I.D.: DEC-008

Date: 6/23/2011 Sampling Personnel: CF/SL Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Poly	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Below Top of Riser	Initial Depth to Water:	38.18	Depth to Well Bottom:	48.48	Well Diameter:	2"	Screen Length:	15'
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	6.4	Estimated Purge Volume (liters):	25
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Sample ID: DEC-008 Sample Time: 1440 QA/QC:

Sample Parameters: TCL VOCs + Tics

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES—0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($\text{vol}_{\text{cyl}} = \pi r^2 h$)

Remarks: NR - Not Recorded

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: NYSDEC - Meeker Ave Site: Klink/Cosmo Well I.D.: DEC-009

Date: 6/23/2011 Sampling Personnel: TI/KM Company: URS Corporation

Purging/ Sampling				Pump/Tubing Inlet	
Device:	Bladder Pump	Tubing Type:	Poly	Location:	Screen midpoint

Measuring Point:	Below Top of Riser	Initial Depth to Water:	38.09	Depth to Well Bottom:	48.80	Well Diameter:	2"	Screen Length:	15'
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	6.6	Estimated Purge Volume (liters):	20
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Sample ID: DEC-009 Sample Time: 1427 QA/QC: _____

Sample Parameters: _____ TCL VOCs + Tics

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1347	7.22	20.12	2.000	19.26	114.0	133	500	38.10
1352	6.82	18.24	1.430	9.27	125.0	-7	500	38.10
1357	6.83	18.20	1.430	8.73	118.0	-21	500	38.10
1402	6.84	18.12	1.420	8.44	117.0	-25	500	38.10
1407	6.84	18.05	1.400	3.00	92.4	-28	500	38.10
1412	6.84	18.05	1.410	8.44	62.9	-29	500	38.10
1417	6.84	18.03	1.430	8.16	43.9	-29	500	38.10
1422	6.84	17.99	1.420	7.91	30.7	-28	500	38.10
1427	6.84	17.95	1.420	7.60	18.1	-28	500	38.10
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($\text{vol}_{\text{cyl}} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: NYSDEC - Meeker Ave Site: Klink/Cosmo Well I.D.: DEC-010

Date: 6/21/2011 Sampling Personnel: CF/SL Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Poly	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Below Top of Riser	Initial Depth to Water:	38.08	Depth to Well Bottom:	48.20	Well Diameter:	2"	Screen Length:	15'
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	6.2	Estimated Purge Volume (liters):	14
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Sample ID: DEC-010 Sample Time: 1430 QA/QC: _____

Sample Parameters: TCL VOCs + Tics

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($\text{vol}_{\text{cyl}} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: NYSDEC - Meeker Ave Site: Klink/Cosmo Well I.D.: DEC-011

Date: 6/21/2011 Sampling Personnel: CF/SL Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Poly	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Below Top of Riser	Initial Depth to Water:	36.35	Depth to Well Bottom:	47.20	Well Diameter:	2"	Screen Length:	15'
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	6.7	Estimated Purge Volume (liters):	18
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Sample ID: DEC-011 Sample Time: 1530 QA/QC:

Sample Parameters: TCL VOCs + Tics

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES—0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($\text{vol}_{\text{cyl}} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: NYSDEC - Meeker Ave Site: Klink/Cosmo Well I.D.: DEC-012

Date: 6/22/2011 Sampling Personnel: CF/SL Company: URS Corporation

Purging/ Sampling				Pump/Tubing Inlet	
Device:	Bladder Pump	Tubing Type:	Poly	Location:	Screen midpoint

Measuring Point:	Below Top of Riser	Initial Depth to Water:	36.58	Depth to Well Bottom:	49.40	Well Diameter:	2"	Screen Length:	15'
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	7.9	Estimated Purge Volume (liters):	14
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Sample ID: DEC-012 Sample Time: 0945 QA/QC:

Sample Parameters: _____ TCL VOCs + Tics

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0910	6.73	19.41	0.660	17.88	>800	119	450	36.60
0915	6.75	18.29	0.696	17.27	290.0	131	450	36.60
0920	6.78	17.90	0.742	16.53	170.0	139	450	36.60
0925	6.78	17.72	0.769	16.33	91.0	144	450	36.60
0930	6.80	17.75	0.830	16.10	48.8	148	450	36.60
0935	6.78	17.67	0.830	16.23	46.4	150	450	36.60
0940	6.78	17.61	0.835	16.19	45.1	153	450	36.60
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($\text{vol}_{\text{cyl}} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: NYSDEC - Meeker Ave Site: Klink/Cosmo Well I.D.: DEC-013

Date: 6/23/2011 Sampling Personnel: CF/SL Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Poly	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Below Top of Riser	Initial Depth to Water:	36.51	Depth to Well Bottom:	46.50	Well Diameter:	2"	Screen Length:	15'
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	6.2	Estimated Purge Volume (liters):	18
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Sample ID: DEC-013 Sample Time: 1150 QA/QC:

Sample Parameters: TCL VOCs + Tics

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1105	7.20	17.55	0.877	17.12	>800	99	450	36.51
1110	7.19	16.70	0.777	13.02	>800	124	450	36.51
1115	7.13	16.61	0.730	12.81	>800	135	450	36.51
1120	7.09	16.61	0.730	12.65	>800	144	450	36.51
1125	7.10	16.65	0.744	12.67	510.0	150	450	36.51
1130	7.12	16.63	0.756	12.44	242.0	150	450	36.51
1135	7.12	16.55	0.761	12.34	71.0	151	450	36.51
1140	7.13	16.47	0.760	12.43	76.3	153	450	36.51
1145	7.09	16.53	0.759	12.44	72.7	155	450	36.51
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES—0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($\text{vol}_{\text{cyl}} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: NYSDEC - Meeker Ave Site: Klink/Cosmo Well I.D.: DEC-013D

Date: 6/23/2011 Sampling Personnel: CF/SL Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Poly	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Below Top of Riser	Initial Depth to Water:	36.11	Depth to Well Bottom:	80.54	Well Diameter:	2"	Screen Length:	10'
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	27.4	Estimated Purge Volume (liters):	28
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Sample ID: DEC-013D Sample Time: 1040 QA/QC: DUP-062311

Sample Parameters: _____ TCL VOCs + Tics

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($\text{vol}_{\text{cyl}} = \pi r^2 h$)

Remarks: Slight petroleum sheen, no odor

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Meeker Ave. Site: Well I.D.: DEC-14 (URS)

Date: 6/29/2007 Sampling Personnel: C.R. Company: URS Corporation

Purging/ Sampling Device:	Tubing Type:	Pump/Tubing Inlet Location:	Screen midpoint

Measuring Point:	Below Top of Riser	Initial Depth to Water:	31.83	Depth to Well Bottom:	42.72	Well Diameter:	2"	Screen Length:	15'
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Casing Type:	Volume in 1 Well Casing (liters):	8.3	Estimated Purge Volume (liters):	5.2
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Sample ID:	DEC-14	Sample Time:	1345	QA/QC:
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Sample Parameters:

Note: _____

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($v_{ql} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: NYSDEC - Meeker Ave Site: Klink/Cosmo Well I.D.: DEC-014D

Date: 6/23/2011 Sampling Personnel: TI/KM Company: URS Corporation

Purging/ Sampling Device:	<u>Bladder Pump</u>		Tubing Type:	<u>Poly</u>		Pump/Tubing Inlet Location:	<u>Screen midpoint</u>		
Measuring Point:	<u>Below Top of Riser</u>	Initial Depth to Water:	<u>33.20</u>	Depth to Well Bottom:	<u>80.43</u>	Well Diameter:	<u>2"</u>	Screen Length:	<u>10'</u>
Casing Type:	<u>PVC</u>		Volume in 1 Well Casing (liters):	<u>29.1</u>		Estimated Purge Volume (liters):	<u>31</u>		

Sample ID: DEC-014D Sample Time: 1145 QA/QC:

Sample Parameters: TCL VOCs + Tics

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1040	7.19	19.27	0.819	4.02	630.0	-32	480	33.20
1045	6.72	17.44	1.370	6.37	124.0	18	480	33.20
1050	6.67	17.29	1.380	5.40	24.3	22	480	33.20
1055	6.66	17.26	1.380	4.88	13.7	22	480	33.20
1100	6.66	17.20	1.380	4.24	6.4	23	480	33.20
1105	6.66	17.20	1.380	3.75	3.7	24	480	33.20
1110	6.65	17.13	1.390	3.23	3.4	24	480	33.20
1115	6.65	17.12	1.390	3.23	3.0	24	480	33.20
1120	6.65	17.10	1.400	2.53	0.6	24	480	33.20
1125	6.65	17.15	1.400	2.31	0.0	23	480	33.20
1130	6.65	17.14	1.400	2.12	0.0	24	480	33.20
1135	6.64	17.10	1.400	1.88	0.0	23	480	33.20
1140	6.65	17.10	1.400	1.71	0.0	23	480	33.20
1145	6.64	17.09	1.400	1.58	0.0	23	480	33.20
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: NYSDEC - Meeker Ave Site: Klink/Cosmo Well I.D.: DEC-014R

Date: 6/23/2011 Sampling Personnel: TI/KM Company: URS Corporation

Purging/
Sampling
Device: Bladder Pump Tubing Type: Poly Pump/Tubing
Inlet
Location: Screen midpoint

Measuring Point:	Below Top of Riser	Initial Depth to Water:	33.21	Depth to Well Bottom:	45.00	Well Diameter:	2"	Screen Length:	15'
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	7.3	Estimated Purge Volume (liters):	19
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Sample ID:	DEC-014R	Sample Time:	1243	QA/QC:
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Sample Parameters: TCL VOCs + Tics

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($\text{vol}_{\text{cyl}} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: NYSDEC - Meeker Ave Site: Klink/Cosmo Well I.D.: DEC-015

Date: 6/22/2011 Sampling Personnel: TI/KM Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Poly	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Below Top of Riser	Initial Depth to Water:	36.19	Depth to Well Bottom:	45.10	Well Diameter:	2"	Screen Length:	15'
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	5.5	Estimated Purge Volume (liters):	17
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Sample ID: DEC-015 Sample Time: 0836 QA/QC:

Sample Parameters: TCL VOCs + Tics

PURGE PARAMETERS

[illegible]

Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---
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Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($\text{vol}_{\text{cyl}} = \pi r^2 h$)

Remarks: NR - Not Recorded

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: NYSDEC - Meeker Ave Site: Klink/Cosmo Well I.D.: DEC-015D

Date: 6/22/2011 Sampling Personnel: TI/KM Company: URS Corporation

Purging/ Sampling Device:	<u>Bladder Pump</u>		Tubing Type:	<u>Poly</u>		Pump/Tubing Inlet Location:	<u>Screen midpoint</u>		
Measuring Point:	<u>Below Top of Riser</u>	Initial Depth to Water:	<u>36.49</u>	Depth to Well Bottom:	<u>82.42</u>	Well Diameter:	<u>2"</u>	Screen Length:	<u>10'</u>
Casing Type:	<u>PVC</u>		Volume in 1 Well Casing (liters):	<u>28.3</u>		Estimated Purge Volume (liters):	<u>29</u>		

Sample ID: DEC-015D Sample Time: 1003 QA/QC:

Sample Parameters: TCL VOCs + Tics

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0858	7.90	19.76	1.040	2.33	133.0	158	450	36.50
0903	6.97	17.99	1.220	1.04	80.5	69	450	36.50
0908	6.85	17.82	1.240	0.90	45.8	58	450	36.50
0913	6.79	17.76	1.250	0.78	20.8	48	450	36.50
0918	6.77	17.62	1.240	0.70	13.0	47	450	36.50
0923	NR	NR	NR	NR	NR	NR	NR	NR
0928	6.76	17.53	1.250	0.76	3.3	47	450	36.50
0933	6.76	17.54	1.250	0.63	1.7	45	450	36.50
0938	6.77	17.53	1.250	0.59	0.0	44	450	36.50
0943	6.77	17.35	1.250	0.57	0.0	43	450	36.50
0948	6.77	17.43	1.250	0.54	0.0	43	450	36.50
0953	6.77	17.45	1.250	0.52	0.0	42	450	36.50
0958	6.77	17.46	1.250	0.51	0.0	43	450	36.50
1003	6.78	17.44	1.250	0.51	0.0	42	450	36.50
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: 923: missed reading
NR - Not Recorded

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Meeker Ave. Site: Well I.D.: DEC-22 (URS)

Date: 6/27/2007 Sampling Personnel: C.R. Company: URS Corporation

Purging/ Sampling Device:	Tubing Type:	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Below Top of Riser	Initial Depth to Water:	29.37	Depth to Well Bottom:	40.80	Well Diameter:	2"	Screen Length:	15'
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Casing Type:	Volume in 1 Well Casing (liters):	Estimated Purge Volume (liters):
	8.7	13.2

Sample ID: DEC-22 Sample Time: 1245 QA/QC: _____

Sample Parameters: _____

Note: _____

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vol_d = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: NYSDEC - Meeker Ave Site: Klink/Cosmo Well I.D.: DEC-022D

Date: 6/22/2011 Sampling Personnel: TI/KM Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Poly	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Below Top of Riser	Initial Depth to Water:	49.10	Depth to Well Bottom:	60.41	Well Diameter:	2"	Screen Length:	15'
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	7.0	Estimated Purge Volume (liters):	19
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Sample ID: DEC-022D Sample Time: 1440 QA/QC:

Sample Parameters: TCL VOCs + Tics

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1400	8.56	23.05	1.370	7.18	>800	181	485	49.10
1405	7.21	18.50	1.340	1.86	212.0	186	485	49.10
1410	7.06	17.85	1.340	2.06	127.0	179	485	49.10
1415	7.03	17.65	1.350	7.12	97.7	174	485	49.10
1420	7.02	17.78	1.330	6.78	66.2	167	485	49.10
1425	7.02	17.86	1.340	6.32	39.9	158	485	49.10
1430	7.01	17.85	1.330	6.00	25.9	152	485	49.10
1435	7.01	17.71	1.330	6.09	16.0	148	485	49.10
1440	7.02	17.74	1.330	5.95	11.8	147	485	49.10
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES—0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($\text{vol}_{\text{cyl}} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: NYSDEC - Meeker Ave Site: Klink/Cosmo Well I.D.: DEC-027

Date: 6/24/2011 Sampling Personnel: TI/KM Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Poly	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Below Top of Riser	Initial Depth to Water:	39.79	Depth to Well Bottom:	49.58	Well Diameter:	2"	Screen Length:	15'
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	6.0	Estimated Purge Volume (liters):	17
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Sample ID: DEC-027 Sample Time: 0922 QA/QC: _____

Sample Parameters: _____ TCL VOCs + Tics

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($\text{vol}_{\text{cyl}} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: NYSDEC - Meeker Ave Site: Klink/Cosmo Well I.D.: DEC-028

Date: 6/21/2011 Sampling Personnel: TI/KM Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Poly	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Below Top of Riser	Initial Depth to Water:	37.47	Depth to Well Bottom:	49.86	Well Diameter:	2"	Screen Length:	15'
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	7.6	Estimated Purge Volume (liters):	29
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Sample ID: DEC-028 Sample Time: 1740 QA/QC:

Sample Parameters: TCL VOCs + Tics

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($\text{vol}_{\text{cyl}} = \pi r^2 h$)

Remarks: 1700 missed reading
NR - Not Recorded

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: NYSDEC - Meeker Ave Site: Klink/Cosmo Well I.D.: DEC-029

Date: 6/23/2011 Sampling Personnel: TI/KM Company: URS Corporation

Purging/ Sampling				Pump/Tubing Inlet	
Device:	Bladder Pump	Tubing Type:	Poly	Location:	Screen midpoint

Measuring Point:	Below Top of Riser	Initial Depth to Water:	36.18	Depth to Well Bottom:	50.67	Well Diameter:	2"	Screen Length:	15'
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	8.9	Estimated Purge Volume (liters):	23
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Sample ID: DEC-029 Sample Time: 1010 QA/QC: _____

Sample Parameters: _____ TCL VOCs + Tics

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($\text{vol}_{\text{cyl}} = \pi r^2 h$)

Remarks: 948 - cleaned out Horiba flow cell

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: NYSDEC - Meeker Ave Site: Klink/Cosmo Well I.D.: DEC-029D

Date: 6/23/2011 Sampling Personnel: TI/KM Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Poly	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Below Top of Riser	Initial Depth to Water:	36.05	Depth to Well Bottom:	85.48	Well Diameter:	2"	Screen Length:	10'
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	30.5	Estimated Purge Volume (liters):	31
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Sample ID: DEC-029D Sample Time: 0847 QA/QC:

Sample Parameters: TCL VOCs + Tics

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0742	7.70	19.08	1.200	13.97	41.1	34	480	34.90
0747	6.93	17.17	1.410	8.38	0.0	40	480	34.90
0752	6.83	16.94	1.430	7.67	0.0	43	480	34.90
0757	6.82	16.86	1.430	7.47	0.0	42	480	34.90
0802	6.82	16.79	1.430	7.34	0.0	40	480	34.90
0807	6.83	16.75	1.430	7.14	0.0	38	480	34.90
0812	6.83	16.69	1.440	7.08	0.0	38	480	34.90
0817	6.82	16.67	1.440	7.04	0.0	40	480	34.90
0822	6.82	16.68	1.440	7.06	0.0	43	480	34.90
0827	6.82	16.59	1.450	7.09	0.0	47	480	34.90
0832	6.81	16.58	1.440	7.10	0.0	49	480	34.90
0837	6.81	16.64	1.440	7.18	0.0	52	480	34.90
0842	6.80	16.63	1.450	7.19	0.0	54	480	34.90
0847	6.80	16.61	1.440	7.26	0.0	55	480	34.90
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($\text{vol}_{\text{cyl}} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: NYSDEC - Meeker Ave Site: Klink/Cosmo Well I.D.: DEC-030

Date: 6/20/2011 Sampling Personnel: CF/SL Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Poly	Pump/Tubing Inlet Location:	~38 '
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Measuring Point:	Below Top of Riser	Initial Depth to Water:	34.48	Depth to Well Bottom:	41.95	Well Diameter:	2"	Screen Length:	15'
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	4.6	Estimated Purge Volume (liters):	13
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Sample ID: DEC-030 Sample Time: 1520 QA/QC: _____

Sample Parameters: TCL VOCs + Tics

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($\text{vol}_{\text{cyl}} = \pi r^2 h$)

Remarks: NR - Not Recorded

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: NYSDEC - Meeker Ave Site: Klink/Cosmo Well I.D.: DEC-030D

Date: 6/20/2011 Sampling Personnel: CF/SL Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Poly	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Below Top of Riser	Initial Depth to Water:	34.05	Depth to Well Bottom:	80.40	Well Diameter:	2"	Screen Length:	10'
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	28.6	Estimated Purge Volume (liters):	31
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Sample ID: DEC-030D Sample Time: 1405 QA/QC:

Sample Parameters: TCL VOCs + Tics

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($\text{vol}_{\text{cyl}} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: NYSDEC - Meeker Ave Site: Klink/Cosmo Well I.D.: DEC-031

Date: 6/21/2011 Sampling Personnel: CF/SL Company: URS Corporation

Purging/ Sampling				Pump/Tubing Inlet	
Device:	Bladder Pump	Tubing Type:	Poly	Location:	Screen midpoint

Measuring Point:	Below Top of Riser	Initial Depth to Water:	31.80	Depth to Well Bottom:	43.95	Well Diameter:	2"	Screen Length:	15'
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	7.5	Estimated Purge Volume (liters):	20
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Sample ID: DEC-031 Sample Time: 0945 QA/QC: _____

Sample Parameters: _____

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($\text{vol}_{\text{cyl}} = \pi r^2 h$)

Remarks: NR - Not Recorded

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: NYSDEC - Meeker Ave Site: Klink/Cosmo Well I.D.: DEC-031D

Date: 6/21/2011 Sampling Personnel: CF/SL Company: URS Corporation

Purging/ Sampling Device:	<u>Bladder Pump</u>		Tubing Type:	<u>Poly</u>		Pump/Tubing Inlet Location:	<u>Screen midpoint</u>		
Measuring Point:	<u>Below Top of Riser</u>	Initial Depth to Water:	<u>31.75</u>	Depth to Well Bottom:	<u>79.65</u>	Well Diameter:	<u>2"</u>	Screen Length:	<u>10'</u>
Casing Type:	<u>PVC</u>		Volume in 1 Well Casing (liters):	<u>29.6</u>		Estimated Purge Volume (liters):	<u>38</u>		

Sample ID: DEC-031D Sample Time: 0830 QA/QC:

Sample Parameters: TCL VOCs + Tics, TCL SVOCs + Tics, TAL Metals, Cyanide, Pest/PCBs

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0640	6.97	21.01	1.040	12.05	>1000	-63	450	31.76
0645	6.51	19.15	1.450	9.35	>1000	-1	450	31.76
0650	6.47	18.34	1.520	4.92	>800	4	450	31.76
0655	6.45	18.31	1.560	4.92	792.0	4	450	31.76
0700	6.46	18.16	1.590	4.80	423.0	4	NR	NR
0705	6.44	18.20	1.610	4.91	247.0	2	NR	NR
0710	6.43	18.17	1.640	7.22	138.0	3	450	31.76
0715	6.43	18.19	1.640	7.97	68.9	4	NR	NR
0720	6.43	18.17	1.640	9.34	53.2	3	NR	NR
0725	6.43	18.18	1.630	9.28	42.3	4	450	31.76
0730	6.44	18.22	1.630	9.21	31.2	4	NR	NR
0735	6.44	18.29	1.630	9.26	23.8	5	NR	NR
0740	6.45	18.35	1.720	9.42	19.9	5	NR	NR
0745	6.45	18.33	1.730	9.62	18.1	6	450	31.76
0750	6.45	18.39	1.740	9.80	15.7	6	NR	NR
0755	6.45	18.45	1.760	9.99	11.2	7	NR	NR
0800	6.46	18.47	1.700	10.23	10.2	7	450	31.76
0805	6.46	18.44	1.700	10.33	9.6	7	NR	NR
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: NR - Not Recorded

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: NYSDEC - Meeker Ave Site: Klink/Cosmo Well I.D.: DEC-032

Date: 6/22/2011 Sampling Personnel: TI/KM Company: URS Corporation

Purging/
Sampling
Device: Bladder Pump Tubing Type: Poly Pump/Tubing
Inlet
Location: Screen midpoint

Measuring Point:	Below Top of Riser	Initial Depth to Water:	25.35	Depth to Well Bottom:	44.06	Well Diameter:	2"	Screen Length:	15'
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	11.5	Estimated Purge Volume (liters):	20
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Sample ID: DEC-032 Sample Time: 1614 QA/QC:

Sample Parameters: TCL VOCs + Tics

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($\text{vol}_{\text{cyl}} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: NYSDEC - Meeker Ave Site: Klink/Cosmo Well I.D.: DEC-033

Date: 6/21/2011 Sampling Personnel: TI/KM Company: URS Corporation

Purging/ Sampling Device:	<u>Bladder Pump</u>		Tubing Type:	<u>Poly</u>		Pump/Tubing Inlet Location:	<u>Screen midpoint</u>		
Measuring Point:	<u>Below Top of Riser</u>	Initial Depth to Water:	<u>33.00</u>	Depth to Well Bottom:	<u>39.20</u>	Well Diameter:	<u>2"</u>	Screen Length:	<u>15'</u>
Casing Type:	<u>PVC</u>		Volume in 1 Well Casing (liters):	<u>3.8</u>		Estimated Purge Volume (liters):	<u>7</u>		

Sample ID: DEC-033 Sample Time: 1034 QA/QC:

Sample Parameters: TCL VOCs + Tics

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0932	7.73	20.43	2.910	9.51	256.0	84	470	33.05
0939	6.61	18.57	2.780	9.15	282.0	80	450	36.30
0944	6.49	20.39	2.820	7.94	236.0	86	50	NR
0949	6.47	23.05	2.810	6.94	181.0	89	50	36.02
0954	NR	NR	NR	NR	NR	NR	50	36.02
0959	6.47	24.31	2.890	6.53	152.0	87	70	36.02
1004	6.52	20.82	2.700	6.90	247.0	66	70	36.90
1009	6.54	21.85	2.600	6.47	142.0	64	70	NR
1014	6.56	22.53	2.530	6.32	125.0	65	70	NR
1019	6.56	23.00	2.530	6.21	127.0	66	70	NR
1024	6.56	23.47	2.530	6.13	130.0	65	70	NR
1029	6.56	23.80	2.530	6.04	137.0	63	70	NR
1034	6.55	23.74	2.530	NR	NR	64	70	NR
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: 954 missed reading
NR - Not Recorded

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: NYSDEC - Meeker Ave Site: Klink/Cosmo Well I.D.: DEC-039

Date: 6/24/2011 Sampling Personnel: TI/KM Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Poly	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Below Top of Riser	Initial Depth to Water:	42.38	Depth to Well Bottom:	51.21	Well Diameter:	2"	Screen Length:	15'
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	5.4	Estimated Purge Volume (liters):	19
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Sample ID:	DEC-039	Sample Time:	0809	QA/QC:	DUP-062411
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Sample Parameters: TCL VOCs + Tics

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES—0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($\text{vol}_{\text{cyl}} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: NYSDEC - Meeker Ave Site: Klink/Cosmo Well I.D.: DEC-042

Date: 6/23/2011 Sampling Personnel: CF/SL Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Poly	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Below Top of Riser	Initial Depth to Water:	39.31	Depth to Well Bottom:	49.67	Well Diameter:	2"	Screen Length:	15'
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	6.4	Estimated Purge Volume (liters):	17
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Sample ID:	DEC-042	Sample Time:	1320	QA/QC:
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Sample Parameters: TCL VOCs + Tics

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($\text{vol}_{\text{cyl}} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: NYSDEC - Meeker Ave Site: Klink/Cosmo Well I.D.: DEC-043

Date: 6/22/2011 Sampling Personnel: TI/KM Company: URS Corporation

Purging/ Sampling				Pump/Tubing Inlet	
Device:	Bladder Pump	Tubing Type:	Poly	Location:	Screen midpoint

Measuring Point:	Below Top of Riser	Initial Depth to Water:	34.90	Depth to Well Bottom:	50.30	Well Diameter:	2"	Screen Length:	15'
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	9.5	Estimated Purge Volume (liters):	24
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Sample ID:	DEC-043	Sample Time:	1326	QA/QC:
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Sample Parameters: _____ TCL VOCs + Tics

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($\text{vol}_{\text{cyl}} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: NYSDEC - Meeker Ave Site: Klink/Cosmo Well I.D.: DEC-043D

Date: 6/22/2011 Sampling Personnel: CF/SL Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Poly	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Below Top of Riser	Initial Depth to Water:	35.38	Depth to Well Bottom:	85.45	Well Diameter:	2"	Screen Length:	10'
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	30.9	Estimated Purge Volume (liters):	33
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Sample ID: DEC-043D Sample Time: 1205 QA/QC:

Sample Parameters: TCL VOCs + Tics

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES—0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($\text{vol}_{\text{cyl}} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: NYSDEC - Meeker Ave Site: Klink/Cosmo Well I.D.: DEC-044

Date: 6/23/2011 Sampling Personnel: CF/SL Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Poly	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Below Top of Riser	Initial Depth to Water:	34.21	Depth to Well Bottom:	44.88	Well Diameter:	2"	Screen Length:	15'
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	6.4	Estimated Purge Volume (liters):	20
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Sample ID: DEC-044 Sample Time: 0905 QA/QC:

Sample Parameters: TCL VOCs + Tics

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($\text{vol}_{\text{cyl}} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: NYSDEC - Meeker Ave Site: Klink/Cosmo Well I.D.: DEC-044D

Date: 6/23/2011 Sampling Personnel: CF/SL Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Poly	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Below Top of Riser	Initial Depth to Water:	33.80	Depth to Well Bottom:	80.45	Well Diameter:	2"	Screen Length:	10'
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	28.8	Estimated Purge Volume (liters):	30
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Sample ID: DEC-044D Sample Time: 0755 QA/QC:

Sample Parameters: TCL VOCs + Tics

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0645	7.15	19.90	1.520	13.58	24.0	14	500	33.80
0650	6.74	17.96	2.030	7.96	2.8	29	500	33.80
0655	6.71	17.91	2.030	7.78	0.0	30	500	33.75
0700	6.72	17.62	2.020	7.79	0.0	30	500	33.70
0705	6.72	17.71	2.020	8.02	0.0	30	500	33.70
0710	6.72	17.72	2.020	8.05	0.0	30	500	33.70
0715	6.73	17.68	2.020	8.41	0.0	30	500	33.70
0720	6.73	17.70	2.020	8.99	0.0	30	500	33.70
0725	6.74	17.71	2.010	9.33	0.0	30	500	33.70
0730	6.75	17.65	2.020	10.30	0.0	30	500	33.70
0735	6.75	17.66	2.020	10.47	0.0	30	500	33.70
0740	6.76	17.65	2.000	10.68	0.0	30	500	33.70
0745	6.76	17.67	2.000	10.71	0.0	29	500	33.70
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES—0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($\text{vol}_{\text{cyl}} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: NYSDEC - Meeker Ave Site: Klink/Cosmo Well I.D.: DEC-045

Date: 6/21/2011 Sampling Personnel: CF/SL Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Poly	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Below Top of Riser	Initial Depth to Water:	29.60	Depth to Well Bottom:	44.40	Well Diameter:	2"	Screen Length:	15'
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	9.1	Estimated Purge Volume (liters):	28
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Sample ID:	DEC-045	Sample Time:	1310	QA/QC:
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Sample Parameters: TCL VOCs + Tics

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES—0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($\text{vol}_{\text{cyl}} = \pi r^2 h$)

Remarks: NR - Not Recorded

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: NYSDEC - Meeker Ave Site: Klink/Cosmo Well I.D.: DEC-045D

Date: 6/21/2011 Sampling Personnel: CF/SL Company: URS Corporation

Purging/ Sampling Device:	<u>Bladder Pump</u>		Tubing Type:	<u>Poly</u>		Pump/Tubing Inlet Location:	<u>Screen midpoint</u>		
Measuring Point:	<u>Below Top of Riser</u>	Initial Depth to Water:	<u>29.25</u>	Depth to Well Bottom:	<u>79.70</u>	Well Diameter:	<u>2"</u>	Screen Length:	<u>10'</u>
Casing Type:	<u>PVC</u>		Volume in 1 Well Casing (liters):	<u>32.5</u>		Estimated Purge Volume (liters):	<u>33</u>		

Sample ID: DEC-045D Sample Time: 1125 QA/QC: _____

Sample Parameters: TCL VOCs + Tics

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1010	7.19	20.75	0.839	12.06	57.2	-56	500	29.28
1015	6.74	18.56	1.370	9.85	38.6	3	500	29.30
1020	6.74	18.40	1.410	9.49	25.4	7	500	29.30
1025	6.74	18.25	1.470	9.51	13.3	6	500	29.30
1030	6.73	18.15	1.520	9.52	4.7	5	500	29.30
1035	6.74	18.08	1.540	9.60	2.1	5	500	29.30
1040	6.74	17.93	1.550	9.60	0.7	4	500	29.30
1045	6.74	17.96	1.560	9.70	0.0	4	500	29.30
1050	6.74	17.98	1.580	9.94	0.0	3	500	29.30
1055	6.75	18.00	1.580	10.09	0.0	3	500	29.30
1100	6.76	17.98	1.590	10.29	0.0	3	500	29.30
1105	6.76	17.98	1.590	10.51	0.0	3	500	29.30
1110	6.77	17.96	1.590	10.65	0.0	2	500	29.30
1115	6.76	17.96	1.600	10.87	0.0	2	500	29.30
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: NYSDEC - Meeker Ave Site: Klink/Cosmo Well I.D.: DEC-046

Date: 6/21/2011 Sampling Personnel: TI/KM Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Poly	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Below Top of Riser	Initial Depth to Water:	33.40	Depth to Well Bottom:	44.35	Well Diameter:	2"	Screen Length:	15'
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	6.8	Estimated Purge Volume (liters):	22
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Sample ID:	DEC-046	Sample Time:	0839	QA/QC:	MS/MSD
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Sample Parameters: TCL VOCs + Tics

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES—0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($\text{vol}_{\text{cyl}} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: NYSDEC - Meeker Ave Site: Klink/Cosmo Well I.D.: DEC-047

Date: 6/21/2011 Sampling Personnel: TI/KM Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Poly	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Below Top of Riser	Initial Depth to Water:	28.06	Depth to Well Bottom:	45.07	Well Diameter:	2"	Screen Length:	15'
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	10.5	Estimated Purge Volume (liters):	22
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Sample ID: DEC-047 Sample Time: 1155 QA/QC:

Sample Parameters: TCL VOCs + Tics

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES—0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($\text{vol}_{\text{cyl}} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: NYSDEC - Meeker Ave Site: Klink/Cosmo Well I.D.: DEC-048

Date: 6/24/2011 Sampling Personnel: CF/SL Company: URS Corporation

Purging/ Sampling				Pump/Tubing Inlet	
Device:	Peristaltic Pump	Tubing Type:	Poly	Location:	Screen midpoint

Measuring Point:	Below Top of Riser	Initial Depth to Water:	25.57	Depth to Well Bottom:	40.50	Well Diameter:	2"	Screen Length:	15'
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Casing Type:	<u>PVC</u>	Volume in 1 Well Casing (liters):	<u>9.2</u>	Estimated Purge Volume (liters):	<u>12</u>
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Sample ID: DEC-048 Sample Time: 1300 QA/QC: DEC-048 MS/MSD
DUP2-062411

Sample Parameters: TCL VOCs + Tics, TCL SVOCs + Tics, TAL Metals, Cyanide, Pest/PCBs

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1135	6.81	19.11	1.010	1.33	11.0	81	400	x
1140	6.74	18.86	1.010	1.28	9.2	66	400	x
1145	6.72	18.86	1.020	1.32	7.5	50	400	x
1150	6.69	18.76	1.020	1.43	5.1	44	400	x
1155	6.68	18.73	1.020	1.45	5.1	51	400	x
1200	6.66	18.72	1.020	1.45	4.8	53	400	x
1205	6.64	18.67	1.020	1.47	4.9	55	400	x
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($\text{vol}_{\text{cyl}} = \pi r^2 h$)

Remarks: DTP = 25.43 LNAPL sample collected @ 1100 with a peri-pump
DTW = 25.57 GW water sample was collected through 1" PVC lowered into the well with a cap on the bottom to ~29ft.

X: DTW could not be monitored during purging because IP could not be lowered to water through the 1" PVC pipe and around the tubing.

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: NYSDEC - Meeker Ave Site: Klink/Cosmo Well I.D.: DEC-064

Date: 6/20/2011 Sampling Personnel: TI/KM Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Poly	Pump/Tubing Inlet Location:	Screen Midpoint
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Measuring Point:	Below Top of Riser	Initial Depth to Water:	34.65	Depth to Well Bottom:	44.86	Well Diameter:	2"	Screen Length:	15'
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	6.3	Estimated Purge Volume (liters):	29
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Sample ID: DEC-064 Sample Time: 1544 QA/QC:

Sample Parameters: VOCs + Tics

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES—0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($\text{vol}_{\text{cyl}} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: NYSDEC - Meeker Ave Site: Klink/Cosmo Well I.D.: DEC-064D

Date: 6/20/2011 Sampling Personnel: TI/KM Company: URS Corporation

Purging/ Sampling Device:	<u>Bladder Pump</u>		Tubing Type:	<u>Poly</u>		Pump/Tubing Inlet Location:	<u>Screen midpoint</u>		
Measuring Point:	<u>Below Top of Riser</u>	Initial Depth to Water:	<u>34.81</u>	Depth to Well Bottom:	<u>80.91</u>	Well Diameter:	<u>2"</u>	Screen Length:	<u>10'</u>
Casing Type:	<u>PVC</u>		Volume in 1 Well Casing (liters):	<u>28.4</u>		Estimated Purge Volume (liters):	<u>35</u>		

Sample ID: DEC-064D Sample Time: 1414 QA/QC:

Sample Parameters: TCL VOCs + Tics

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1254	6.10	19.16	1.300	2.15	53.4	145	440	34.51
1259	6.22	18.53	1.320	1.51	29.8	147	440	34.59
1304	6.34	18.43	1.320	1.65	19.7	142	440	34.63
1309	6.34	18.20	1.320	1.42	12.3	141	440	34.65
1314	6.38	18.25	1.290	2.23	9.9	125	440	34.71
1319	6.39	18.22	1.280	2.73	5.6	118	440	34.74
1324	6.39	18.28	1.280	2.72	4.7	115	440	37.27
1329	6.38	18.35	1.260	2.70	3.1	111	440	34.78
1334	6.41	18.38	1.250	2.70	1.4	108	440	34.79
1339	6.39	18.64	1.250	2.67	0.3	107	440	34.79
1344	6.41	18.66	1.250	2.72	0.0	105	440	34.83
1349	6.39	18.78	1.240	2.67	0.0	104	440	34.83
1354	6.41	18.79	1.240	2.62	0.0	105	440	34.83
1359	6.40	19.05	1.240	2.61	0.0	105	440	34.84
1404	6.41	19.04	1.240	2.56	0.0	105	440	34.84
1409	6.41	19.05	1.240	2.54	0.0	105	440	34.84
1414	6.41	19.21	1.230	2.54	0.0	105	440	34.84
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft (vol_{cyl} = $\pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: NYSDEC - Meeker Ave Site: Klink/Cosmo Well I.D.: DEC-065

Date: 6/22/2011 Sampling Personnel: CF/SL Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Poly	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Below Top of Riser	Initial Depth to Water:	36.15	Depth to Well Bottom:	44.42	Well Diameter:	2"	Screen Length:	15'
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	5.1	Estimated Purge Volume (liters):	18
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Sample ID:	DEC-065	Sample Time:	0845	QA/QC:	DUP-062211
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Sample Parameters: TCL VOCs + Tics

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES—0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($\text{vol}_{\text{cyl}} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: NYSDEC - Meeker Ave Site: Klink/Cosmo Well I.D.: DEC-065D

Date: 6/22/2011 Sampling Personnel: CF/SL Company: URS Corporation

Purging/
Sampling
Device: Bladder Pump Tubing Type: Poly Pump/Tubing
Inlet
Location: Screen midpoint

Measuring Point:	Below Top of Riser	Initial Depth to Water:	36.45	Depth to Well Bottom:	80.30	Well Diameter:	2"	Screen Length:	10'
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	27.1	Estimated Purge Volume (liters):	30
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Sample ID: DEC-065D Sample Time: 0745 QA/QC: _____

Sample Parameters: _____ TCL VOCs + Tics

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($\text{vol}_{\text{cyl}} = \pi r^2 h$)

Remarks: NR - Not Recorded

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: NYSDEC - Meeker Ave Site: Klink/Cosmo Well I.D.: DEC-066

Date: 6/22/2011 Sampling Personnel: TI/KM Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Poly	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Below Top of Riser	Initial Depth to Water:	29.08	Depth to Well Bottom:	45.30	Well Diameter:	2"	Screen Length:	15'
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	10.0	Estimated Purge Volume (liters):	16
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Sample ID: DEC-066 Sample Time: 1837 QA/QC:

Sample Parameters: TCL VOCs + Tics

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES—0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($\text{vol}_{\text{cyl}} = \pi r^2 h$)

Remarks: DO sensor not working properly, readings jumping back and forth btw 9.58 to 2.22
NR - Not Recorded

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: NYSDEC - Meeker Ave Site: Klink/Cosmo Well I.D.: DEC-066D

Date: 6/22/2011 Sampling Personnel: TI/KM Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Poly	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Below Top of Riser	Initial Depth to Water:	28.52	Depth to Well Bottom:	80.61	Well Diameter:	2"	Screen Length:	10'
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	32.1	Estimated Purge Volume (liters):	33
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Sample ID: DEC-066D Sample Time: 1745 QA/QC:

Sample Parameters: TCL VOCs + Tics

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1640	7.99	23.06	0.575	5.53	18.1	-20	500	28.55
1645	6.64	20.10	1.370	1.07	21.2	26	500	28.55
1650	6.57	19.40	1.360	0.83	3.2	34	500	28.55
1655	6.56	19.16	1.320	0.72	0.0	34	500	28.55
1700	6.55	19.19	1.320	0.67	0.0	33	500	28.55
1705	6.55	19.03	1.330	0.62	0.0	34	500	28.55
1710	6.55	19.03	1.340	0.61	0.0	34	500	28.55
1715	6.55	17.87	1.380	0.89	0.0	35	500	28.55
1720	6.54	17.83	1.380	1.01	0.0	36	500	28.55
1725	6.54	17.79	1.390	1.19	0.0	37	500	28.55
1730	6.54	17.75	1.390	1.04	0.0	38	500	28.55
1735	6.54	17.72	1.390	1.08	0.0	38	500	28.55
1740	6.54	17.71	1.400	1.05	0.0	39	500	28.55
1745	6.54	17.74	1.400	0.99	0.0	39	500	28.55
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($\text{vol}_{\text{cyl}} = \pi r^2 h$)

Remarks:

RI PHASE II

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Klink Cosmo RI Site: Klink Cosmo Well I.D.: DEC-004

Date: 3/30/2012 Sampling Personnel: K. McGovern, M.Beuthe Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Poly	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	<u>Top of Riser</u>	Initial Depth to Water:	<u>37.07</u>	Depth to Well Bottom:	<u>49.89</u>	Well Diameter:	<u>2"</u>	Screen Length:	<u>15</u>
									<u>7.9 L</u>

Casing Type:	PVC	Volume in 1 Well Casing (liters):	7.9 L	Estimated Purge Volume (liters):	13.5 L
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Sample ID:	DEC-004	Sample Time:	1610	QA/QC:	None
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Sample Parameters: TCL VOCs, total Alkalinity, Chloride, Nitrate-Nitrite, total Phosphorus, Sulfate, Sulfide and TKN

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1540	6.66	17.04	1.65	1.78	392	-3	450	37.07
1545	6.74	17.11	1.66	1.15	193	-16	450	37.07
1550	6.77	17.10	1.66	0.95	87.2	9	450	37.07
1555	6.75	17.12	1.66	0.75	43.2	3	450	37.07
1600	6.75	17.13	1.66	0.73	25.1	5	450	37.07
1605	6.78	17.13	1.66	0.66	17.6	5	450	37.07
1610	6.79	17.12	1.66	0.65	11.7	8	450	37.07
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vol_t = \pi r^2 h$)

Remarks:

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Klink Cosmo RI Site: Klink Cosmo Well I.D.: DEC-006DD

Date: 3/26/2012 Sampling Personnel: M Abdelaziz, J Boyd Company: URS Corporation

Purging/
Sampling
Device: Bladder Pump Tubing Type: Dedicated/ Disposable Pump/Tubing
Inlet
Location: Screen midpoint

Measuring
Point: Top of Riser Initial Depth
to Water: 46.05 Depth to
Well Bottom: 93.25 Well
Diameter: 2" Screen
Length: 15

Casing
Type: PVC Volume in 1
Well Casing
(liters): 29.1 L Estimated
Purge
Volume
(liters): 32.3 L

Sample ID: DEC-006DD Sample
Time: 1805 QA/QC: None

Sample Parameters: TCL VOCs, total Alkalinity, Chloride, Nitrate-Nitrite, total Phosphorus, Sulfate, Sulfide and TKN

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1630	6.46	14.58	1.05	12.25	28	191	250	46.05
1635	6.14	14.72	1.25	12.01	371	190	250	46.05
1640	6.05	14.77	1.25	11.05	226	197	250	46.05
1645	6.04	14.73	1.27	9.57	104	202	400	46.05
1650	6.05	14.72	1.28	8.76	65	203	400	46.07
1655	6.07	14.61	1.29	7.80	23.5	205	400	46.07
1700	6.07	14.58	1.29	7.86	12.6	210	400	46.07
1705	6.07	14.55	1.28	5.95	9.13	209	400	46.07
1710	6.09	14.48	1.28	5.43	8.06	208	400	46.07
1715	6.09	14.38	1.28	4.80	4.72	208	400	46.07
1720	6.10	14.30	1.27	4.18	4.44	208	400	46.07
1725	6.10	14.31	1.28	3.94	4.54	208	400	46.07
1730	6.10	14.30	1.28	3.63	3.65	208	400	46.07
1735	6.10	14.28	1.29	3.61	2.78	212	400	46.07
1740	6.11	14.17	1.29	3.01	2.85	210	400	46.07
1745	6.11	14.10	1.29	2.66	2.37	210	400	46.07
1750	6.12	14.11	1.29	2.43	2.51	210	400	46.07
1755	6.14	14.11	1.30	2.41	2.13	209	400	46.07
1800	6.14	14.09	1.30	2.39	2.41	209	400	46.07
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vol_d = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Klink Cosmo RI Site: Klink Cosmo Well I.D.: DEC-007

Date: 3/28/2012 Sampling Personnel: K. McGovern, M.Beuthe Company: URS Corporation

Purging/
Sampling
Device: Bladder Pump Tubing Type: Dedicated/ Disposable Pump/Tubing
Inlet
Location: Screen midpoint

Measuring
Point: Top of Riser Initial Depth
to Water: 41.22 Depth to
Well Bottom: 56.30 Well
Diameter: 2" Screen
Length:

Casing
Type: PVC Volume in 1
Well Casing
(liters): Estimated
Purge
Volume
(liters):

Sample ID: DEC-007 Sample
Time: 1521 QA/QC: None

Sample Parameters: TCL VOCs, total Alkalinity, Chloride, Nitrate-Nitrite, total Phosphorus, Sulfate, Sulfide and TKN

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
13.41	6.44	15.54	0.979	4.60	>1,000	167	250	41.22
13.46	6.37	15.49	0.823	4.00	>1,000	175	250	41.22
13.51	6.36	15.47	0.847	3.76	>1,000	178	250	41.22
13.56	6.37	15.43	0.874	3.38	>1,000	179	250	41.22
14.01	6.37	15.47	0.896	3.12	784	181	250	41.22
14.06	6.36	15.48	0.969	2.97	606	181	250	41.22
14.11	6.36	15.53	0.941	2.71	430	181	250	41.22
14.16	6.38	15.57	1.010	2.28	298	179	250	41.22
14.21	6.40	15.58	1.040	2.10	221	179	250	41.22
14.26	6.41	15.59	1.050	2.01	192	178	250	41.22
14.31	6.41	15.61	1.050	2.00	158	177	250	41.22
14.36	6.41	15.62	1.050	2.03	134	178	250	41.22
14.41	6.41	15.74	1.050	1.97	127	177	250	41.22
14.46	6.42	15.72	1.050	1.99	116	177	250	41.22
14.51	6.41	15.74	1.040	1.96	91.3	178	250	41.22
15.07	6.41	15.94	1.040	1.85	74.7	173	250	41.22
15.11	6.41	15.91	1.040	1.86	61.9	173	250	41.22
15.16	6.41	15.87	1.040	1.83	49.6	171	250	41.22
15.21	6.42	15.88	1.040	1.83	46.0	171	250	41.22
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vol_d = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Klink Cosmo RI Site: Klink Cosmo Well I.D.: DEC-007D

Date: 3/28/2012 Sampling Personnel: K. McGovern, M.Beuthe Company: URS Corporation

Purging/
Sampling
Device: Bladder Pump Tubing Type: Dedicated/ Disposable Pump/Tubing
Inlet
Location: Screen midpoint

Measuring
Point: Top of Riser Initial Depth
to Water: 40.49 Depth to
Well Bottom: 92.09 Well
Diameter: 2" Screen
Length: 10

Casing
Type: PVC Volume in 1
Well Casing
(liters): 31.8 L Estimated
Purge
Volume
(liters): 32 L

Sample ID: DEC-007D Sample
Time: 1649 QA/QC: None

Sample Parameters: TCL VOCs, total Alkalinity, Chloride, Nitrate-Nitrite, total Phosphorus, Sulfate, Sulfide and TKN

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1544	6.33	16.00	1.34	2.50	89.1	-24	490	40.49
1549	6.30	15.74	1.48	1.18	35.0	32	490	40.49
1554	6.29	15.73	1.48	1.01	25.0	37	490	40.49
1559	6.29	15.67	1.48	0.79	16.8	45	490	40.49
1604	6.29	15.65	1.48	0.64	11.2	52	490	40.49
1609	6.28	15.65	1.48	0.52	7.52	58	490	40.49
1614	6.28	15.62	1.48	0.44	5.31	64	490	40.49
1619	6.28	15.24	1.48	0.41	4.90	67	490	40.49
1624	6.31	15.62	1.48	0.42	3.43	75	490	40.49
1629	6.28	15.63	1.48	0.36	2.82	74	490	40.49
1634	6.29	15.60	1.48	0.33	2.52	77	490	40.49
1639	6.28	15.63	1.48	0.31	2.31	80	490	40.49
1644	6.29	15.61	1.48	0.29	2.07	84	490	40.49
1649	6.29	15.59	1.49	0.28	1.76	85	490	40.49
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vol_d = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Klink Cosmo RI Site: Klink Cosmo Well I.D.: DEC-008

Date: 3/30/2012 Sampling Personnel: Mira Abdelaziz Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Dedicated/ Disposable	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Top of Riser	Initial Depth to Water:	38.65	Depth to Well Bottom:	48.42	Well Diameter:	2"	Screen Length:	15
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	6.03 L	Estimated Purge Volume (liters):	7.6 L
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Sample ID:	DEC-008	Sample Time:	1630	QA/QC:	None
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Sample Parameters: TCL VOCs, total Alkalinity, Chloride, Nitrate-Nitrite, total Phosphorus, Sulfate, Sulfide and TKN

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1550	6.95	16.07	1.56	9.89	>1,000	80	200	38.65
1555	6.80	16.23	1.57	8.12	811	52	200	38.77
1600	6.78	16.21	1.56	7.78	347	55	200	38.77
1605	6.77	16.22	1.57	7.47	223	61	200	38.77
1610	6.76	16.20	1.60	7.06	139	66	200	38.77
1615	6.75	16.18	1.61	6.65	45.6	72	200	38.77
1620	6.75	16.18	1.62	6.62	47.7	72	200	38.77
1625	6.75	16.22	1.62	6.52	43.8	73	200	38.77
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vol_t = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Klink Cosmo RI Site: Klink Cosmo Well I.D.: DEC-009

Date: 3/28/2012 Sampling Personnel: K. McGovern, M.Beuthe Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Dedicated/ Disposable	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Top of Riser	Initial Depth to Water:	38.61	Depth to Well Bottom:	48.79	Well Diameter:	2"	Screen Length:	15
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	6.3 L	Estimated Purge Volume (liters):	13 L
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Sample ID:	DEC-009	Sample Time:	1207	QA/QC:	None
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Sample Parameters: TCL VOCs, total Alkalinity, Chloride, Nitrate-Nitrite, total Phosphorus, Sulfate, Sulfide and TKN

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1112	6.48	16.87	1.46	1.57	187	92	475	38.61
1117	6.36	16.77	1.47	1.13	176	46	475	38.61
1122	6.33	16.96	1.47	0.96	179	37	475	38.61
1127	6.32	16.83	1.47	0.85	154	35	475	38.61
1132	6.33	16.60	1.47	0.79	137	36	475	38.61
1137	6.32	16.57	1.08	0.73	108	38	475	38.61
1142	6.31	16.52	1.47	0.70	87.1	39	475	38.61
1147	6.31	16.54	1.47	0.67	74.1	40	475	38.61
1152	6.31	16.55	1.47	0.65	68.4	41	475	38.61
1157	6.31	16.54	1.47	0.66	53.5	41	475	38.61
1202	6.32	16.44	1.47	0.71	42.9	39	475	38.61
1207	6.32	16.37	1.47	0.71	35.5	35	475	38.61
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vol_t = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Klink Cosmo RI Site: Klink Cosmo Well I.D.: DEC-010

Date: 3/30/2012 Sampling Personnel: K. McGovern, M.Beuthe Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Dedicated/ Disposable	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Top of Riser	Initial Depth to Water:	38.66	Depth to Well Bottom:	48.32	Well Diameter:	2"	Screen Length:	15
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	6 L	Estimated Purge Volume (liters):	10.8 L
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Sample ID:	DEC-010	Sample Time:	1452	QA/QC:	None
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Sample Parameters: TCL VOCs, total Alkalinity, Chloride, Nitrate-Nitrite, total Phosphorus, Sulfate, Sulfide and TKN

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($v_{ql} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Klink Cosmo RI Site: Klink Cosmo Well I.D.: DEC-011

Date: 3/30/2012 Sampling Personnel: John Boyd Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Dedicated/ Disposable	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Top of Riser	Initial Depth to Water:	36.83	Depth to Well Bottom:	47.00	Well Diameter:	2"	Screen Length:	15
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	6.6 L	Estimated Purge Volume (liters):	11.4 L
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Sample ID:	DEC-011	Sample Time:	1355	QA/QC:	None
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Sample Parameters: TCL VOCs, total Alkalinity, Chloride, Nitrate-Nitrite, total Phosphorus, Sulfate, Sulfide and TKN

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($v_{ql} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Klink Cosmo RI Site: Klink Cosmo Well I.D.: DEC-011D

Date: 3/30/2012 Sampling Personnel: Mira Abdelaziz Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Dedicated/ Disposable	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Top of Riser	Initial Depth to Water:	36.71	Depth to Well Bottom:	73.20	Well Diameter:	2"	Screen Length:	10
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	22.5 L	Estimated Purge Volume (liters):	24 L
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Sample ID:	DEC-011D	Sample Time:	1415	QA/QC:	None
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Sample Parameters: TCL VOCs, total Alkalinity, Chloride, Nitrate-Nitrite, total Phosphorus, Sulfate, Sulfide and TKN

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($v_{ql} = \pi r^2 h$)

Remarks:

Sulfur odor mixed with a metallic-type odor observed in purge water.

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Klink Cosmo RI Site: Klink Cosmo Well I.D.: DEC-012

Date: 3/29/2012 Sampling Personnel: K. McGovern, M.Beuthe Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Dedicated/ Disposable	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Top of Riser	Initial Depth to Water:	37.24	Depth to Well Bottom:	49.30	Well Diameter:	2"	Screen Length:	15
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	7.44 L	Estimated Purge Volume (liters):	17.6 L
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Sample ID:	DEC-012	Sample Time:	1634	QA/QC:	None
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Sample Parameters: TCL VOCs, total Alkalinity, Chloride, Nitrate-Nitrite, total Phosphorus, Sulfate, Sulfide and TKN

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vol_t = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Klink Cosmo RI Site: Klink Cosmo Well I.D.: DEC-013

Date: 3/30/2012 Sampling Personnel: John Boyd Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Dedicated/ Disposable	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Top of Riser	Initial Depth to Water:	37.12	Depth to Well Bottom:	46.43	Well Diameter:	2"	Screen Length:	15
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	5.7 L	Estimated Purge Volume (liters):	15.2 L
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Sample ID:	DEC-013	Sample Time:	0855	QA/QC:	None
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Sample Parameters: TCL VOCs, total Alkalinity, Chloride, Nitrate-Nitrite, total Phosphorus, Sulfate, Sulfide and TKN

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vol_t = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Klink Cosmo RI Site: Klink Cosmo Well I.D.: DEC-013D

Date: 3/30/2012 Sampling Personnel: Mira Abdelaziz Company: URS Corporation

Purging/
Sampling
Device: Bladder Pump Tubing Type: Dedicated/ Disposable Pump/Tubing
Inlet
Location: Screen midpoint

Measuring
Point: Top of Riser Initial Depth
to Water: 36.76 Depth to
Well Bottom: 84.15 Well
Diameter: 2" Screen
Length: 10

Casing
Type: PVC Volume in 1
Well Casing
(liters): 29.3 L Estimated
Purge
Volume
(liters): 32.3 L

Sample ID: DEC-013D Sample
Time: 0915 QA/QC: None

Sample Parameters: TCL VOCs, total Alkalinity, Chloride, Nitrate-Nitrite, total Phosphorus, Sulfate, Sulfide and TKN

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0800	7.09	13.96	1.34	10.54	36.4	-51	450	36.76
0805	6.90	14.48	1.48	9.28	41.7	-14	450	36.76
0810	6.74	14.77	1.47	9.19	22.6	-2	450	36.76
0815	6.72	14.78	1.42	8.60	20.4	-13	450	36.76
0820	6.68	14.87	1.41	7.69	8.14	-20	450	36.76
0825	6.65	14.88	1.46	7.00	4.39	-15	450	36.76
0830	6.63	14.84	1.51	6.65	4.18	-5	450	36.76
0835	6.62	14.84	1.52	6.37	3.02	8	450	36.76
0840	6.61	14.84	1.52	6.22	3.19	18	450	36.76
0845	6.6	14.84	1.53	6.15	1.41	26	450	36.76
0850	6.62	14.92	1.52	6.06	1.50	30	450	36.76
0855	6.61	14.91	1.52	6.00	0.99	32	450	36.76
0900	6.61	14.91	1.52	5.96	0.87	35	450	36.76
0905	6.61	14.90	1.52	5.91	0.94	39	450	36.76
0910	6.61	14.91	1.52	5.87	0.86	41	450	36.76
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vq_d = \pi r^2 h$)

Remarks:

Sulfur odor observed in purge water.

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Page 1 of 2

Project: Klink Cosmo RI Site: Klink Cosmo Well I.D.: DEC-014D

Date: 3/28/2012 Sampling Personnel: Mira Abdelaziz Company: URS Corporation

Purging/
Sampling
Device: Bladder Pump Tubing Type: Dedicated/ Disposable Pump/Tubing
Inlet
Location: Screen midpoint

Measuring
Point: Top of Riser Initial Depth
to Water: 33.76 Depth to
Well Bottom: 80.13 Well
Diameter: 2" Screen
Length: 10

Casing
Type: PVC Volume in 1
Well Casing
(liters): 28.6 L Estimated
Purge
Volume
(liters): 30 L

Sample ID: DEC-014D Sample
Time: 1230 QA/QC: None

Sample Parameters: TCL VOCs, total Alkalinity, Chloride, Nitrate-Nitrite, total Phosphorus, Sulfate, Sulfide and TKN

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1030	6.75	16.24	1.37	7.31	>1,000	-16	350	33.78
1035	6.70	16.26	1.39	7.09	>1,000	-5	350	33.78
1040	6.70	16.26	1.39	6.99	>1,000	2	350	33.78
1045	6.66	16.18	1.39	6.82	>1,000	13	350	33.78
1050	6.63	16.27	1.39	6.50	>1,000	24	350	33.78
1055	6.62	16.24	1.40	6.32	628	31	300	33.78
1100	6.63	16.27	1.40	6.30	863	32	300	33.78
1105	6.62	16.27	1.40	6.15	647	33	300	33.78
1110	6.62	16.24	1.39	6.10	437	36	300	33.78
1115	6.62	16.28	1.40	6.01	562	36	300	33.78
1120	6.62	16.29	1.40	5.97	448	38	300	33.78
1125	6.61	16.29	1.40	5.94	513	38	250	33.78
1130	6.61	16.32	1.40	5.92	237	44	250	33.78
1135	6.61	16.39	1.40	5.93	268	44	250	33.78
1140	6.60	16.41	1.39	5.89	365	44	250	33.78
1145	6.60	16.33	1.40	5.88	588	41	250	33.78
1150	6.61	16.34	1.40	5.83	420	42	250	33.78
1155	6.60	16.30	1.40	5.81	259	46	250	33.78
1200	6.60	16.22	1.40	5.79	127	53	250	33.78
1205	6.60	16.15	1.40	5.82	69.7	55	250	33.78
Tolerance:	0.1	---	3%	6%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vol_d = \pi r^2 h$)

Remarks:

Sulfur odor observed in purge water.
Sample container for Nitrate-Nitrite, TKN and total phosphorus was spilled after well sampled. Well resampled on 3/29/12 for these parameters

Page 2 of 2

Date: 3/28/2012 Sampling Personnel: Mira Abdelaziz Company: URS Corporation

Measuring Point:	Top of Riser	Initial Depth to Water:	33.76	Depth to Well Bottom:	80.13	Well Diameter:	2"	Screen Length:	10
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	28.6 L	Estimated Purge Volume (liters):	30 L
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Sample ID:	DEC-014D	Sample Time:	1230	QA/QC:	None
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Sample Parameters: TCL VOCs, total Alkalinity, Chloride, Nitrate-Nitrite, total Phosphorus, Sulfate, Sulfide and TKN

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vol_t = \pi r^2 h$)

Sulfur odor observed in purge water.
Sample container for Nitrate-Nitrite, TKN and total phosphorus was spilled after well sampled. Well resampled on 3/29//12 for these parameters

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Page 1 of 1

Project: Klink Cosmo RI Site: Klink Cosmo Well I.D.: DEC-014D

Date: 3/29/2012 Sampling Personnel: Mira Abdelaziz Company: URS Corporation

Purging/
Sampling
Device: Bladder Pump Tubing Type: Dedicated/ Disposable Pump/Tubing
Inlet
Location: Screen midpoint

Measuring
Point: Top of Riser Initial Depth
to Water: 33.79 Depth to
Well Bottom: 80.15 Well
Diameter: 2" Screen
Length: 10

Casing
Type: PVC Volume in 1
Well Casing
(liters): 28.6 L Estimated
Purge
Volume
(liters): 32.3 L

Sample ID: DEC-014D Sample
Time: 0855 QA/QC: None

Sample Parameters: Nitrate-Nitrite, total Phosphorus and TKN

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0740	6.89	15.66	1.29	9.55	>1,000	-31	250	33.61
0745	6.71	15.99	1.43	8.00	>1,000	3	325	33.61
0750	6.67	16.05	1.43	7.94	177	25	325	33.61
0755	6.66	16.06	1.43	8.84	57.2	46	325	33.61
0800	6.66	16.06	1.43	8.76	41.7	54	325	33.61
0805	6.64	16.08	1.43	8.81	22.1	59	325	33.61
0810	6.65	16.09	1.42	8.81	16.4	60	325	33.61
0815	6.65	16.07	1.42	9.07	13.3	51	325	33.61
0820	6.64	16.02	1.41	8.84	13.3	44	325	33.61
0825	6.63	16.00	1.42	8.53	10.9	44	325	33.61
0830	6.64	16.04	1.42	8.41	8.75	44	325	33.61
0835	6.63	16.07	1.42	7.92	8.71	45	325	33.61
0840	6.63	16.06	1.42	8.22	7.84	47	325	33.61
0845	6.64	16.03	1.41	8.25	7.24	46	325	33.61
0850	6.63	16.01	1.41	8.23	6.80	49	325	33.61
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vol_d = \pi r^2 h$)

Remarks:

Sulfur odor observed in purge water.
Sample container for Nitrate-Nitrite, TKN and total phosphorus was spilled after well sampled. Well resampled on 3/29//12 for these parameters

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Klink Cosmo RI Site: Klink Cosmo Well I.D.: DEC-014R

Date: 3/28/2012 Sampling Personnel: John Boyd Company: URS Corporation

Purging/
Sampling
Device: Bladder Pump Tubing Type: Dedicated/ Disposable Pump/Tubing
Inlet
Location: Screen midpoint

Measuring
Point: Top of Riser Initial Depth
to Water: 33.75 Depth to
Well Bottom: 44.85 Well
Diameter: 2" Screen
Length: 15

Casing
Type: PVC Volume in 1
Well Casing
(liters): 6.8 L Estimated
Purge
Volume
(liters): 12.9 L

Sample ID: DEC-014R Sample
Time: 1140 QA/QC: None

Sample Parameters: TCL VOCs, total Alkalinity, Chloride, Nitrate-Nitrite, total Phosphorus, Sulfate, Sulfide and TKN

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1055	6.27	16.65	1.81	2.58	-	141	300	33.79
1058	Pump off to clean flow cell.							
1100	Pump back on.							
1105	6.26	16.02	1.87	8.39	317	146	300	33.82
1110	6.06	16.64	1.93	2.25	212	155	300	33.76
1115	6.01	16.73	1.95	1.69	109	161	300	33.75
1120	6.01	16.74	1.96	1.68	130	161	300	33.74
1125	6.03	16.77	1.95	1.52	74.2	157	300	33.74
1130	6.28	16.81	1.97	1.43	41.0	149	300	33.75
1135	6.22	16.83	1.98	1.41	22.6	157	300	33.75
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($VQ_d = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Klink Cosmo RI Site: Klink Cosmo Well I.D.: DEC-015

Date: 3/29/2012 Sampling Personnel: John Boyd Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Dedicated/ Disposable	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Top of Riser	Initial Depth to Water:	36.65	Depth to Well Bottom:	44.98	Well Diameter:	2"	Screen Length:	15
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	5.1 L	Estimated Purge Volume (liters):	15.2 L
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Sample ID: DEC-015 Sample Time: 0915 QA/QC: None

Sample Parameters: TCL VOCs, total Alkalinity, Chloride, Nitrate-Nitrite, total Phosphorus, Sulfate, Sulfide and TKN

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vol_t = \pi r^2 h$)

Remarks:

NR = Not recorded

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Klink Cosmo RI Site: Klink Cosmo Well I.D.: DEC-015D

Date: 3/29/2012 Sampling Personnel: Mira Abdelaziz Company: URS Corporation

Purging/
Sampling
Device: Bladder Pump Tubing Type: Dedicated/ Disposable Pump/Tubing
Inlet
Location: Screen midpoint

Measuring
Point: Top of Riser Initial Depth
to Water: 37.02 Depth to
Well Bottom: 82.30 Well
Diameter: 2" Screen
Length: 10

Casing
Type: PVC Volume in 1
Well Casing
(liters): 27.9 L Estimated
Purge
Volume
(liters): 28 L

Sample ID: DEC-015D Sample
Time: 1435 QA/QC: None

Sample Parameters: TCL VOCs, total Alkalinity, Chloride, Nitrate-Nitrite, total Phosphorus, Sulfate, Sulfide and TKN

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1315	6.92	15.50	1.35	8.65	273	157	400	37.02
1320	6.84	15.45	1.38	7.25	278	155	400	37.02
1325	6.79	15.40	1.38	7.02	114	147	400	37.02
1330	6.77	16.39	1.37	7.08	60.9	146	400	37.02
1335	6.76	15.40	1.37	7.01	45.0	146	400	37.02
1340	6.75	15.40	1.36	6.75	30.6	147	400	37.02
1345	6.76	15.40	1.36	6.67	18.8	147	400	37.02
1350	6.75	15.42	1.36	6.55	15.0	147	400	37.02
1355	6.74	15.42	1.36	6.52	14.5	147	400	37.02
1400	6.75	15.40	1.35	6.49	10.2	147	400	37.02
1405	6.75	15.45	1.35	6.47	8.40	148	400	37.02
1410	6.74	15.44	1.35	6.46	5.45	148	400	37.02
1415	6.74	15.44	1.35	6.52	5.48	149	400	37.02
1420	6.74	15.43	1.36	6.59	3.63	150	400	37.02
1425	6.74	15.41	1.36	6.64	4.35	150	400	37.02
1430	6.74	15.41	1.36	6.67	NR	150	400	37.02
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vol_d = \pi r^2 h$)

Remarks:

NR = Not recorded

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Klink Cosmo RI Site: Klink Cosmo Well I.D.: DEC-015R

Date: 3/29/2012 Sampling Personnel: John Boyd Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Dedicated/ Disposable	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Top of Riser	Initial Depth to Water:	36.36	Depth to Well Bottom:	42.52	Well Diameter:	2"	Screen Length:	15
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	3.8 L	Estimated Purge Volume (liters):	13.3 L
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Sample ID:	DEC-015R	Sample Time:	1420	QA/QC:	None
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Sample Parameters: TCL VOCs, total Alkalinity, Chloride, Nitrate-Nitrite, total Phosphorus, Sulfate, Sulfide and TKN

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($v_{ql} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Klink Cosmo RI Site: Klink Cosmo Well I.D.: DEC-022D

Date: 3/28/2012 Sampling Personnel: K. McGovern, M.Beuthe Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Dedicated/ Disposable	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Top of Riser	Initial Depth to Water:	49.64	Depth to Well Bottom:	64.00	Well Diameter:	2"	Screen Length:	15
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	8.9 L	Estimated Purge Volume (liters):	22.3 L
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Sample ID:	DEC-022D	Sample Time:	1012	QA/QC:	None
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Sample Parameters: TCL VOCs, total Alkalinity, Chloride, Nitrate-Nitrite, total Phosphorus, Sulfate, Sulfide and TKN

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($v_{ql} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Klink Cosmo RI Site: Klink Cosmo Well I.D.: DEC-027

Date: 4/1/2012 Sampling Personnel: K. McGovern, M.Beuthe Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Dedicated/ Disposable	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Top of Riser	Initial Depth to Water:	40.30	Depth to Well Bottom:	49.60	Well Diameter:	2"	Screen Length:	15
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	5.74 L	Estimated Purge Volume (liters):	9 L
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Sample ID:	DEC-027	Sample Time:	0826	QA/QC:	None
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Sample Parameters: TCL VOCs, total Alkalinity, Chloride, Nitrate-Nitrite, total Phosphorus, Sulfate, Sulfide and TKN

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vol_t = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Klink Cosmo RI Site: Klink Cosmo Well I.D.: DEC-028

Date: 3/30/2012 Sampling Personnel: John Boyd Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Dedicated/ Disposable	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Top of Riser	Initial Depth to Water:	38.03	Depth to Well Bottom:	49.59	Well Diameter:	2"	Screen Length:	15
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	7.1 L	Estimated Purge Volume (liters):	15.2 L
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Sample ID:	DEC-028	Sample Time:	1135	QA/QC:	None
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Sample Parameters: TCL VOCs, total Alkalinity, Chloride, Nitrate-Nitrite, total Phosphorus, Sulfate, Sulfide and TKN

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($v_{ql} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Klink Cosmo RI Site: Klink Cosmo Well I.D.: DEC-028D

Date: 3/30/2012 Sampling Personnel: Mira Abdelaziz Company: URS Corporation

Purging/
Sampling
Device: Bladder Pump Tubing Type: Dedicated/ Disposable Pump/Tubing
Inlet
Location: Screen midpoint

Measuring
Point: Top of Riser Initial Depth
to Water: 37.49 Depth to
Well Bottom: 81.21 Well
Diameter: 2" Screen
Length: 10

Casing
Type: PVC Volume in 1
Well Casing
(liters): 27 L Estimated
Purge
Volume
(liters): 27 L

Sample ID: DEC-028D Sample
Time: 1155 QA/QC: Duplicate sample
20120330-FD-1

Sample Parameters:

TCL VOCs, total Alkalinity, Chloride, Nitrate-Nitrite, total Phosphorus, Sulfate, Sulfide and TKN

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1040	6.81	14.76	1.50	8.28	>1,000	-43	400	37.49
1045	6.68	15.21	1.60	7.07	>1,000	-40	400	37.49
1050	6.65	15.26	1.58	6.45	570	-42	325	37.49
1055	6.62	15.29	1.59	6.14	198	-44	325	37.49
1100	6.61	15.31	1.61	5.95	111	-46	325	37.49
1105	6.60	15.35	1.61	5.79	62.0	-47	325	37.49
1110	6.60	15.32	1.60	5.68	45.1	-48	325	37.49
1115	6.60	15.37	1.61	5.67	32.8	-48	325	37.49
1120	6.60	15.33	1.61	5.58	24.1	-48	325	37.49
1125	6.60	15.33	1.61	5.50	24.4	-48	325	37.49
1130	6.60	15.36	1.61	5.48	21.2	-48	325	37.49
1135	6.59	15.34	1.60	5.46	19.8	-48	325	37.49
1140	6.60	15.38	1.60	5.46	18.3	-48	325	37.49
1145	6.59	15.37	1.59	5.37	14.5	-47	325	37.49
1150	6.59	15.36	1.59	5.35	14.8	-47	325	37.49
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($V_{Qd} = \pi r^2 h$)

Remarks:

Sulfur-like odor and sheen observed in purge water.

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Klink Cosmo RI Site: Klink Cosmo Well I.D.: DEC-029

Date: 3/29/2012 Sampling Personnel: John Boyd Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Dedicated/ Disposable	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Top of Riser	Initial Depth to Water:	36.68	Depth to Well Bottom:	50.52	Well Diameter:	2"	Screen Length:	15
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	8.5 L	Estimated Purge Volume (liters):	12 L
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Sample ID:	DEC-029	Sample Time:	1145	QA/QC:	None
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Sample Parameters: TCL VOCs, total Alkalinity, Chloride, Nitrate-Nitrite, total Phosphorus, Sulfate, Sulfide and TKN

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vol_t = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Klink Cosmo RI Site: Klink Cosmo Well I.D.: DEC-029D

Date: 3/29/2012 Sampling Personnel: Mira Abdelaziz Company: URS Corporation

Purging/
Sampling
Device: Bladder Pump Tubing Type: Dedicated/ Disposable Pump/Tubing
Inlet
Location: Screen midpoint

Measuring
Point: Top of Riser Initial Depth
to Water: 36.67 Depth to
Well Bottom: 85.46 Well
Diameter: 2" Screen
Length: 10

Casing
Type: PVC Volume in 1
Well Casing
(liters): 30.1 L Estimated
Purge
Volume
(liters): 32.3 L

Sample ID: DEC-029D Sample
Time: 1125 QA/QC: DEC-029DMS
DEC-029DMSD

Sample Parameters:

TCL VOCs, total Alkalinity, Chloride, Nitrate-Nitrite, total Phosphorus, Sulfate, Sulfide and TKN

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1000	6.93	14.60	1.35	9.82	15.6	102	350	36.61
1005	6.81	15.13	1.43	8.43	14.8	95	350	36.61
1010	6.67	15.34	1.47	6.41	4.31	82	350	36.61
1015	6.66	15.34	1.47	6.36	2.55	82	350	36.61
1020	6.66	15.35	1.46	6.13	2.31	80	350	36.61
1025	6.65	15.41	1.46	6.01	2.89	78	350	36.61
1030	6.64	15.42	1.46	5.86	2.05	77	350	36.61
1035	6.63	15.49	1.45	5.65	1.36	75	350	36.61
1040	6.63	15.48	1.45	5.62	1.08	75	350	36.61
1045	6.63	15.55	1.45	5.56	1.20	75	350	36.61
1050	6.63	15.52	1.45	5.53	1.76	75	350	36.61
1055	6.63	15.51	1.45	5.54	1.63	75	350	36.61
1100	6.63	15.51	1.46	5.48	2.21	75	350	36.61
1105	6.63	15.54	1.46	5.46	1.35	75	350	36.61
1110	6.62	15.54	1.45	5.43	2.09	75	350	36.61
1115	6.62	15.76	1.45	5.35	1.38	75	350	36.61
1120	6.62	15.72	1.45	5.33	1.02	75	350	36.61
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vq_d = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Klink Cosmo RI Site: Klink Cosmo Well I.D.: DEC-029TC

Date: 3/31/2012 Sampling Personnel: K. McGovern, M.Beuthe Company: URS Corporation

Purging/
Sampling
Device: Grundfos Redi-flo 2 Tubing Type: Dedicated/ Disposable Pump/Tubing
Inlet
Location: Screen midpoint

Measuring
Point: Top of Riser Initial Depth
to Water: 36.43 Depth to
Well Bottom: 120' Well
Diameter: 4" Screen
Length: 10

Casing
Type: PVC Volume in 1
Well Casing
(liters): 206 L Estimated
Purge
Volume
(liters): 210 L

Sample ID: DEC-029TC Sample
Time: 1130 QA/QC: Duplicate sample
20120231-FD-1

Sample Parameters:

TCL VOCs, total Alkalinity, Chloride, Nitrate-Nitrite, total Phosphorus, Sulfate, Sulfide and TKN

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0800	6.35	14.69	15.8	1.33	9.76	-95	1000	36.43
0815	6.42	15.58	13.8	0.87	6.13	-74	1000	36.43
0830	6.37	15.74	7.53	0.65	3.20	-68	1000	36.43
0845	6.36	15.79	8.29	0.47	3.75	-56	1000	36.43
0900	6.36	15.80	7.77	0.39	2.39	-65	1000	36.43
0915	6.35	15.80	8.33	0.33	1.16	-64	1000	36.43
0930	6.35	15.83	8.12	0.31	1.70	-63	1000	36.43
0945	6.35	15.80	6.80	0.31	1.07	-62	1000	36.43
1000	6.31	15.81	7.82	0.29	1.22	-63	1000	36.43
1015	6.35	15.86	7.87	0.27	0.88	-62	1000	36.43
1030	6.35	15.91	7.68	0.26	1.43	-62	1000	36.43
1045	6.35	15.90	7.73	0.25	0.66	-62	1000	36.43
1100	6.36	15.79	8.15	0.25	0.49	-62	1000	36.43
1105	6.36	15.95	8.06	0.24	0.65	-62	1000	36.43
1110	6.36	15.96	7.96	0.24	0.82	-63	1000	36.43
1115	6.36	15.97	7.97	0.24	0.96	-62	1000	36.43
1120	6.36	15.97	7.94	0.24	0.70	-62	1000	36.43
1125	6.36	15.91	7.87	0.23	0.71	-63	1000	36.43
1130	6.35	15.93	7.67	0.23	1.45	-63	1000	36.43
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vol_d = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Klink Cosmo RI Site: Klink Cosmo Well I.D.: DEC-030

Date: 3/27/2012 Sampling Personnel: K. McGovern, M.Beuthe Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Dedicated/ Disposable	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Top of Riser	Initial Depth to Water:	35.20	Depth to Well Bottom:	41.47	Well Diameter:	2"	Screen Length:	15
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	3.9 L	Estimated Purge Volume (liters):	15.6 L
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Sample ID: DEC-030 Sample Time: 1552 QA/QC: Duplicate
20120327-FD-1

Sample Parameters: TCL VOCs, total Alkalinity, Chloride, Nitrate-Nitrite, total Phosphorus, Sulfate, Sulfide and TKN

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vol_t = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Klink Cosmo RI Site: Klink Cosmo Well I.D.: DEC-030D

Date: 3.27/12 Sampling Personnel: K. McGovern, M.Beuthe Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Dedicated/ Disposable	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Top of Riser	Initial Depth to Water:	34.95	Depth to Well Bottom:	79.80	Well Diameter:	2"	Screen Length:	10
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	27.7 L	Estimated Purge Volume (liters):	28 L
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Sample ID: DEC-030D Sample Time: 1421 QA/QC: DEC-030D MS
DEC-030D MSD

Sample Parameters:

TCL VOCs, total Alkalinity, Chloride, Nitrate-Nitrite, total Phosphorus, Sulfate, Sulfide and TKN

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($v_{ql} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Klink Cosmo RI Site: Klink Cosmo Well I.D.: DEC-031

Date: 4/1/2012 Sampling Personnel: John Boyd, Kevin McGovern Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Dedicated/ Disposable	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Top of Riser	Initial Depth to Water:	32.42	Depth to Well Bottom:	43.97	Well Diameter:	2"	Screen Length:	15
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	7.12 L	Estimated Purge Volume (liters):	15.2 L
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Sample ID: DEC-031 Sample Time: 1205 QA/QC: None

Sample Parameters: TCL VOCs, total Alkalinity, Chloride, Nitrate-Nitrite, total Phosphorus, Sulfate, Sulfide and TKN

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($v_{ql} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Klink Cosmo RI Site: Klink Cosmo Well I.D.: DEC-031D

Date: 3/31/2012 Sampling Personnel: K. McGovern, M.Beuthe Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Dedicated/ Disposable	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Top of Riser	Initial Depth to Water:	32.41	Depth to Well Bottom:	80.24	Well Diameter:	2"	Screen Length:	10
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	29.5 L	Estimated Purge Volume (liters):	30 L
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Sample ID:	DEC-031D	Sample Time:	1417	QA/QC:	None
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Sample Parameters: TCL VOCs, total Alkalinity, Chloride, Nitrate-Nitrite, total Phosphorus, Sulfate, Sulfide and TKN

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vol_t = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Klink Cosmo RI Site: Klink Cosmo Well I.D.: DEC-031TC

Date: 3/30/2012 Sampling Personnel: K. McGovern, M.Beuthe Company: URS Corporation

Purging/ Sampling Device: <u>Grundfos Redi-Flo 2</u>	Tubing Type: <u>Dedicated/ Disposable</u>	Pump/Tubing Inlet Location: <u>Screen midpoint</u>
Measuring Point: <u>Top of Riser</u>	Initial Depth to Water: <u>32.66</u>	Depth to Well Bottom: <u>113.00</u>
	Well Diameter: <u>4"</u>	Screen Length: <u>10</u>
Casing Type: <u>PVC</u>	Volume in 1 Well Casing (liters): <u>198.3 L</u>	Estimated Purge Volume (liters): <u>200 L</u>

Sample ID: DEC-031TC Sample Time: 0013 QA/QC: DEC-031TC MS
DEC-031TC MSD

Sample Parameters:

TCL VOCs, total Alkalinity, Chloride, Nitrate-Nitrite, total Phosphorus, Sulfate, Sulfide and TKN

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0954	6.61	16.25	0.830	1.43	6.86	-137	1000	32.66
1009	6.65	16.65	0.830	NM	3.74	-124	1000	32.66
1024	6.61	16.78	0.815	0.54	2.74	-111	1000	32.66
1039	6.58	16.85	0.813	0.41	2.10	-104	1000	32.66
1054	6.56	16.86	0.814	0.35	2.06	-101	1000	32.66
1109	6.56	16.96	0.817	0.30	1.79	-100	1000	32.66
1124	6.55	16.99	0.819	0.27	2.05	-99	1000	32.66
1139	6.51	17.00	0.822	0.28	1.92	-99	1000	32.66
1154	6.55	16.99	0.826	0.23	1.77	-99	1000	32.66
1209	6.56	17.02	0.830	0.22	1.67	-100	1000	32.66
1224	6.56	16.98	0.833	0.21	1.66	-99	1000	32.66
1239	6.55	17.07	0.836	0.23	1.37	-98	1000	32.66
1254	6.55	17.13	0.839	0.20	1.44	-99	1000	32.66
1259	6.56	17.16	0.812	0.19	1.78	-100	1000	32.66
1304	6.57	17.17	0.812	0.19	1.77	-100	1000	32.66
1309	6.57	17.16	0.842	0.19	1.65	-100	1000	32.66
1314	6.57	17.16	0.845	0.19	1.51	-100	1000	32.66
1319	6.57	17.17	0.818	0.18	1.70	-100	1000	32.66
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
 4 inch diameter well = 2470 ml/ft ($vq_d = \pi r^2 h$)

Remarks:

NM = Not measured.

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Klink Cosmo RI Site: Klink Cosmo Well I.D.: DEC-032

Date: 3/27/2012 Sampling Personnel: K. McGovern, M.Beuthe Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Dedicated/ Disposable	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Top of Riser	Initial Depth to Water:	26.00	Depth to Well Bottom:	43.96	Well Diameter:	2"	Screen Length:	15
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	11 L	Estimated Purge Volume (liters):	20 L
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Sample ID:	DEC-032	Sample Time:	0808	QA/QC:	None
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Sample Parameters: TCL VOCs, total Alkalinity, Chloride, Nitrate-Nitrite, total Phosphorus, Sulfate, Sulfide and TKN

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0728	6.79	14.48	0.892	9.95	362	27	500	26.01
0733	6.67	15.87	0.905	8.74	229	20	500	26.01
0738	6.67	15.87	0.900	7.77	157	20	500	26.01
0743	6.65	16.24	0.915	6.51	102	15	500	26.01
0748	6.65	16.27	0.913	5.97	78.2	15	500	26.01
0753	6.65	16.29	0.915	5.40	61.3	15	500	26.01
0758	6.65	16.40	0.915	4.77	44.8	15	500	26.01
0803	6.65	16.42	0.919	4.35	34.7	13	500	26.01
0808	6.65	16.48	0.915	4.30	32.7	14	500	26.01
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vol_t = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Klink Cosmo RI Site: Klink Cosmo Well I.D.: DEC-033
 Date: 3/29/2012 Sampling Personnel: K. McGovern, M.Beuthe Company: URS Corporation
 and 3/30/12

Purging/
Sampling
Device: Bladder Pump Tubing Type: Dedicated/ Disposable Pump/Tubing
Inlet
Location: Screen midpoint
 Measuring Initial Depth Depth to Well Screen
Point: Top of Riser to Water: 33.49 Bottom: 39.12 Diameter: 2" Length: 15
 Casing Volume in 1
Type: PVC Well Casing
(liters): 3.47 L Estimated
Purge
Volume
(liters): 3.47 L

Sample ID: DEC-033 Sample Time: 0740 on 3/30/12 QA/QC: None

Sample Parameters: TCL VOCs, total Alkalinity, Chloride, Nitrate-Nitrite, total Phosphorus, Sulfate, Sulfide and TKN

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
3/29/2012								
1445	6.12	17.49	3.28	7.24	198	111	100	35.10
1450	Well pumped dry.							
3/30/2012								
0740	Sample collected during purge.							
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
 4 inch diameter well = 2470 ml/ft ($vq_d = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Klink Cosmo RI Site: Klink Cosmo Well I.D.: DEC-039

Date: 3/28/2012 Sampling Personnel: K. McGovern, M.Beuthe Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Dedicated/ Disposable	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Top of Riser	Initial Depth to Water:	42.91	Depth to Well Bottom:	51.23	Well Diameter:	2"	Screen Length:	15
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	5.14 L	Estimated Purge Volume (liters):	14 L
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Sample ID: DEC-039 Sample Time: 0834 QA/QC: None

Sample Parameters: TCL VOCs, total Alkalinity, Chloride, Nitrate-Nitrite, total Phosphorus, Sulfate, Sulfide and TKN

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vol_t = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Klink Cosmo RI Site: Klink Cosmo Well I.D.: DEC-042

Date: 3/30/2012 Sampling Personnel: John Boyd Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Dedicated/ Disposable	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Top of Riser	Initial Depth to Water:	39.91	Depth to Well Bottom:	49.52	Well Diameter:	2"	Screen Length:	15
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	5.9 L	Estimated Purge Volume (liters):	11.4 L
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Sample ID:	DEC-042	Sample Time:	1640	QA/QC:	None
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Sample Parameters: TCL VOCs, total Alkalinity, Chloride, Nitrate-Nitrite, total Phosphorus, Sulfate, Sulfide and TKN

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vol_t = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Klink Cosmo RI Site: Klink Cosmo Well I.D.: DEC-043

Date: 3/29/2012 Sampling Personnel: John Boyd Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Dedicated/ Disposable	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Top of Riser	Initial Depth to Water:	35.49	Depth to Well Bottom:	50.15	Well Diameter:	2"	Screen Length:	10
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	9 L	Estimated Purge Volume (liters):	13 L
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Sample ID:	DEC-043	Sample Time:	1635	QA/QC:	None
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Sample Parameters: TCL VOCs, total Alkalinity, Chloride, Nitrate-Nitrite, total Phosphorus, Sulfate, Sulfide and TKN

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vol_t = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Klink Cosmo RI Site: Klink Cosmo Well I.D.: DEC-043D

Date: 3/29/2012 Sampling Personnel: Mira Abdelaziz Company: URS Corporation

Purging/
Sampling
Device: Bladder Pump Tubing Type: Dedicated/ Disposable Pump/Tubing
Inlet
Location: Screen midpoint

Measuring
Point: Top of Riser Initial Depth
to Water: 35.98 Depth to
Well Bottom: 85.26 Well
Diameter: 2" Screen
Length: 10

Casing
Type: PVC Volume in 1
Well Casing
(liters): 30.4 L Estimated
Purge
Volume
(liters): 32.3 L

Sample ID: DEC-043D Sample
Time: 1700 QA/QC: None

Sample Parameters: TCL VOCs, total Alkalinity, Chloride, Nitrate-Nitrite, total Phosphorus, Sulfate, Sulfide and TKN

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1545	7.31	17.16	0.080	18.26	109	-50	350	35.98
1550	7.18	15.77	1.07	7.50	108	-87	350	35.98
1555	6.89	14.96	1.34	6.45	110	-56	450	35.98
1600	6.85	14.68	1.25	5.96	49.0	-62	450	35.98
1605	6.82	14.67	1.25	5.77	26.0	-61	450	35.98
1610	6.82	14.57	1.26	5.69	17.0	-57	450	35.98
1615	6.80	14.62	1.27	6.20	13.2	-51	450	35.98
1620	6.80	14.64	1.27	5.63	11.8	-49	450	35.98
1625	6.79	14.58	1.27	5.49	11.2	-44	450	35.98
1630	6.78	14.62	1.27	5.42	10.0	-40	450	35.98
1635	6.78	14.51	1.28	5.39	7.82	-36	450	35.98
1640	6.78	14.54	1.27	5.33	6.72	-32	450	35.98
1645	6.77	14.59	1.27	5.29	5.60	-27	450	35.98
1650	6.77	14.58	1.28	5.27	5.27	-26	450	35.98
1655	6.77	14.55	1.28	5.26	5.27	-23	450	35.98
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vol_d = \pi r^2 h$)

Remarks: Sulfur-like odor observed in the purge water.

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Klink Cosmo RI Site: Klink Cosmo Well I.D.: DEC-044

Date: 3/31/2012 Sampling Personnel: John Boyd Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Dedicated/ Disposable	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Top of Riser	Initial Depth to Water:	34.83	Depth to Well Bottom:	44.74	Well Diameter:	2"	Screen Length:	15
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	6.1 L	Estimated Purge Volume (liters):	12.5 L
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Sample ID:	DEC-044	Sample Time:	1440	QA/QC:	None
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Sample Parameters: TCL VOCs, total Alkalinity, Chloride, Nitrate-Nitrite, total Phosphorus, Sulfate, Sulfide and TKN

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vol_t = \pi r^2 h$)

Remarks:

NM = Not measured.

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Klink Cosmo RI Site: Klink Cosmo Well I.D.: DEC-044D

Date: 4/1/2012 Sampling Personnel: Kevin McGovern Company: URS Corporation

Purging/
Sampling
Device: Bladder Pump Tubing Type: Dedicated/ Disposable Pump/Tubing
Inlet
Location: Screen midpoint

Measuring
Point: Top of Riser Initial Depth
to Water: 34.42 Depth to
Well Bottom: 80.40 Well
Diameter: 2" Screen
Length: 10'

Casing
Type: PVC Volume in 1
Well Casing
(liters): 28.4 L Estimated
Purge
Volume
(liters): 28.5 L

Sample ID: DEC-044D Sample
Time: 1025 QA/QC: Duplicate sample
20120401-FD-1

Sample Parameters:

TCL VOCs, total Alkalinity, Chloride, Nitrate-Nitrite, total Phosphorus, Sulfate, Sulfide and TKN

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0915	5.95	16.28	1.79	2.00	155	-12	450	34.42
0920	5.98	16.34	1.84	0.94	174	13	450	34.42
0925	6.21	16.42	1.84	0.72	128	4	450	34.42
0930	6.15	16.41	1.84	0.56	87.9	5	450	34.42
0935	6.09	16.43	1.84	0.50	61.5	11	450	34.42
0940	6.07	16.44	1.84	0.46	44.6	14	450	34.42
0945	6.09	16.42	1.84	0.43	33.4	17	450	34.42
0950	6.27	16.41	1.84	0.41	29.8	10	450	34.42
0955	6.08	16.44	1.84	0.39	15.6	28	450	34.42
1000	6.06	16.47	1.84	0.41	16.0	30	450	34.42
1005	6.06	16.41	1.84	0.47	9.69	34	450	34.42
1010	6.07	16.37	1.84	0.41	7.95	36	450	34.42
1015	6.24	16.40	1.84	0.39	6.17	32	450	34.42
1020	6.19	16.45	1.84	0.41	4.32	37	450	34.42
1025	6.14	16.46	1.84	0.40	3.70	39	450	34.42
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vol_d = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Klink Cosmo RI Site: Klink Cosmo Well I.D.: DEC-045

Date: 3/27/2012 Sampling Personnel: John Boyd Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Dedicated/ Disposable	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Top of Riser	Initial Depth to Water:	30.17	Depth to Well Bottom:	44.65	Well Diameter:	2"	Screen Length:	15
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	8.9 L	Estimated Purge Volume (liters):	8.9 L
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Sample ID:	DEC-045	Sample Time:	1655	QA/QC:	None
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Sample Parameters: TCL VOCs, total Alkalinity, Chloride, Nitrate-Nitrite, total Phosphorus, Sulfate, Sulfide and TKN

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vol_t = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Klink Cosmo RI Site: Klink Cosmo Well I.D.: DEC-045D

Date: 3/27/2012 Sampling Personnel: Mira Abdelaziz Company: URS Corporation

Purging/
Sampling
Device: Bladder Pump Tubing Type: Dedicated/ Disposable Pump/Tubing
Inlet
Location: Screen midpoint

Measuring
Point: Top of Riser Initial Depth
to Water: 29.80 Depth to
Well Bottom: 79.70 Well
Diameter: 2" Screen
Length: 10

Casing
Type: PVC Volume in 1
Well Casing
(liters): 30.7 L Estimated
Purge
Volume
(liters): 32.3 L

Sample ID: DEC-045D Sample
Time: 1740 QA/QC: None

Sample Parameters: TCL VOCs, total Alkalinity, Chloride, Nitrate-Nitrite, total Phosphorus, Sulfate, Sulfide and TKN

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1615	6.92	16.33	1.09	8.97	339	-46	500	29.80
1620	6.76	16.33	1.30	7.73	634	-9	500	29.80
1625	6.73	16.23	1.34	6.97	440	15	450	29.80
1630	6.71	16.26	1.38	6.68	262	21	450	29.80
1635	6.72	16.25	1.41	6.51	201	26	450	29.80
1640	6.72	16.28	1.43	6.35	128	31	450	29.80
1645	6.71	16.25	1.43	6.28	91.7	35	450	29.80
1650	6.71	16.29	1.43	6.15	75.4	36	450	29.80
1655	6.72	16.26	1.44	6.10	72.7	39	450	29.80
1700	6.73	16.20	1.45	6.11	45.6	44	450	29.80
1705	6.72	16.20	1.46	6.04	31.4	44	450	29.80
1710	6.72	16.25	1.46	5.97	23.4	46	450	29.80
1715	6.72	16.27	1.47	5.99	22.0	49	450	29.80
1720	6.72	16.26	1.47	6.00	22.5	48	450	29.80
1725	6.72	16.23	1.47	5.94	21.2	49	450	29.80
1730	6.72	16.24	1.47	5.91	20.2	50	450	29.80
1735	6.72	16.22	1.48	5.92	18.6	50	450	29.80
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vq_d = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Klink Cosmo RI Site: Klink Cosmo Well I.D.: DEC-046

Date: 3/26/2012 Sampling Personnel: K. McGovern, M.Beuthe Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Dedicated/ Disposable	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Top of Riser	Initial Depth to Water:	33.93	Depth to Well Bottom:	44.22	Well Diameter:	2"	Screen Length:
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	6.2 L	Estimated Purge Volume (liters):	20.2 L
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Sample ID:	DEC-046	Sample Time:	1723	QA/QC:	None
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Sample Parameters: TCL VOCs, total Alkalinity, Chloride, Nitrate-Nitrite, total Phosphorus, Sulfate, Sulfide and TKN

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vol_t = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Klink Cosmo RI Site: Klink Cosmo Well I.D.: DEC-046D

Date: 3/26/2012 Sampling Personnel: K. McGovern, M.Beuthe Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Dedicated/ Disposable	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Top of Riser	Initial Depth to Water:	33.65	Depth to Well Bottom:	73.80	Well Diameter:	2"	Screen Length:	10
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	24.* L	Estimated Purge Volume (liters):	25 L
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Sample ID:	DEC-046D	Sample Time:	1607	QA/QC:	None
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Sample Parameters: TCL VOCs, total Alkalinity, Chloride, Nitrate-Nitrite, total Phosphorus, Sulfate, Sulfide and TKN

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vol_t = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Klink Cosmo RI Site: Klink Cosmo Well I.D.: DEC-047

Date: 3/29/2012 Sampling Personnel: K. McGovern, M.Beuthe Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Dedicated/ Disposable	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Top of Riser	Initial Depth to Water:	28.66	Depth to Well Bottom:	44.98	Well Diameter:	2"	Screen Length:	15
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	10.1 L	Estimated Purge Volume (liters):	15.8 L
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Sample ID:	DEC-047	Sample Time:	1324	QA/QC:	None
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Sample Parameters: TCL VOCs, total Alkalinity, Chloride, Nitrate-Nitrite, total Phosphorus, Sulfate, Sulfide and TKN

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($v_{ql} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Klink Cosmo RI Site: Klink Cosmo Well I.D.: DEC-048

Date: 3/29/2012 Sampling Personnel: K. McGovern, M.Beuthe Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Dedicated/ Disposable	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Top of Riser	Initial Depth to Water:	26.08	Depth to Well Bottom:	40.36	Well Diameter:	2"	Screen Length:	15
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	8.81 L	Estimated Purge Volume (liters):	16 L
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Sample ID: DEC-048 Sample Time: 1124 QA/QC: Duplicate sample
20120329-FD-1

Sample Parameters:

TCL VOCs, total Alkalinity, Chloride, Nitrate-Nitrite, total Phosphorus, Sulfate, Sulfide and TKN

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vol_t = \pi r^2 h$)

Remarks:

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($v_{ql} = \pi r^2 h$)

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Klink Cosmo RI Site: Klink Cosmo Well I.D.: DEC-064D

Date: 3/28/2012 Sampling Personnel: John Boyd Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Dedicated/ Disposable	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Top of Riser	Initial Depth to Water:	35.38	Depth to Well Bottom:	79.69	Well Diameter:	2"	Screen Length:	10
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	27 L	Estimated Purge Volume (liters):	27 L
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Sample ID:	DEC-064D	Sample Time:	1455	QA/QC:	None
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Sample Parameters: TCL VOCs, total Alkalinity, Chloride, Nitrate-Nitrite, total Phosphorus, Sulfate, Sulfide and TKN

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vol_t = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Klink Cosmo RI Site: Klink Cosmo Well I.D.: DEC-065

Date: 3/31/2012 Sampling Personnel: John Boyd Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Dedicated/ Disposable	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Top of Riser	Initial Depth to Water:	36.74	Depth to Well Bottom:	44.24	Well Diameter:	2"	Screen Length:	15
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	4.6 L	Estimated Purge Volume (liters):	19 L
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Sample ID:	DEC-065	Sample Time:	0855	QA/QC:	None
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Sample Parameters: TCL VOCs, total Alkalinity, Chloride, Nitrate-Nitrite, total Phosphorus, Sulfate, Sulfide and TKN

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vol_t = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Klink Cosmo RI Site: Klink Cosmo Well I.D.: DEC-065D

Date: 3/31/2012 Sampling Personnel: John Boyd Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Dedicated/ Disposable	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Top of Riser	Initial Depth to Water:	37.04	Depth to Well Bottom:	80.11	Well Diameter:	2"	Screen Length:	10
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	26.6 L	Estimated Purge Volume (liters):	27 L
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Sample ID:	DEC-065D	Sample Time:	1105	QA/QC:	None
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Sample Parameters: TCL VOCs, total Alkalinity, Chloride, Nitrate-Nitrite, total Phosphorus, Sulfate, Sulfide and TKN

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vol_t = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Klink Cosmo RI Site: Klink Cosmo Well I.D.: DEC-066

Date: 3/27/2012 Sampling Personnel: K. McGovern, M.Beuthe Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Dedicated/ Disposable	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Top of Riser	Initial Depth to Water:	29.69	Depth to Well Bottom:	45.24	Well Diameter:	2"	Screen Length:	15
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	9.6 L	Estimated Purge Volume (liters):	15.8 L
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Sample ID:	DEC-066	Sample Time:	1114	QA/QC:	None
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Sample Parameters: TCL VOCs, total Alkalinity, Chloride, Nitrate-Nitrite, total Phosphorus, Sulfate, Sulfide and TKN

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vol_t = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Klink Cosmo RI Site: Klink Cosmo Well I.D.: DEC-066D

Date: 3/27/2012 Sampling Personnel: K. McGovern, M.Beuthe Company: URS Corporation

Purging/
Sampling
Device: Bladder Pump Tubing Type: Dedicated/ Disposable Pump/Tubing
Inlet
Location: Screen midpoint

Measuring
Point: Top of Riser Initial Depth
to Water: 29.15 Depth to
Well Bottom: 80.53 Well
Diameter: 2" Screen
Length: 10'

Casing
Type: PVC Volume in 1
Well Casing
(liters): 31.7 L Estimated
Purge
Volume
(liters): 31.7 L

Sample ID: DEC-066D Sample
Time: 1000 QA/QC: None

Sample Parameters: TCL VOCs, total Alkalinity, Chloride, Nitrate-Nitrite, total Phosphorus, Sulfate, Sulfide and TKN

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0850	6.72	14.68	1.25	2.72	179	21	450	29.15
0855	6.32	15.52	1.44	6.79	90.1	62	450	29.15
0900	5.66	15.71	1.43	5.57	38.7	66	450	29.15
0905	6.27	15.82	1.42	4.44	14.7	64	450	29.15
0910	6.26	15.79	1.42	3.46	10.6	67	450	29.15
0915	6.27	15.79	1.42	2.96	8.41	72	450	29.15
0920	6.26	15.82	1.42	2.47	5.98	78	450	29.15
0925	6.27	15.97	1.43	1.86	5.00	85	450	29.15
0930	6.26	15.97	1.42	1.56	3.29	93	450	29.15
0935	6.27	15.94	1.43	1.42	3.21	99	450	29.15
0940	6.27	15.91	1.43	1.16	2.49	102	450	29.15
0945	6.26	15.99	1.43	0.84	2.58	108	450	29.15
0950	6.27	15.95	1.43	0.78	2.19	112	450	29.15
0955	6.26	15.94	1.43	0.75	2.20	118	450	29.15
1000	6.27	15.93	1.42	0.72	2.39	120	450	29.15
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($V_{Qd} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Klink Cosmo RI Site: Klink Cosmo Well I.D.: DEC-088

Date: 3/27/2012 Sampling Personnel: Mira Abdelaziz Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Dedicated/ Disposable	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Top of Riser	Initial Depth to Water:	38.79	Depth to Well Bottom:	50.22	Well Diameter:	2"	Screen Length:	15
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	7.05 L	Estimated Purge Volume (liters):	13.3 L
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Sample ID:	DEC-088	Sample Time:	1100	QA/QC:	None
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Sample Parameters: TCL VOCs, total Alkalinity, Chloride, Nitrate-Nitrite, total Phosphorus, Sulfate, Sulfide and TKN

PURGE PARAMETERS

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vol_t = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Klink Cosmo RI Site: Klink Cosmo Well I.D.: DEC-088D

Date: 3/27/2012 Sampling Personnel: John Boyd Company: URS Corporation

Purging/
Sampling
Device: Bladder Pump Tubing Type: Dedicated/ Disposable Pump/Tubing
Inlet
Location: Screen midpoint

Measuring
Point: Top of Riser Initial Depth
to Water: 37.82 Depth to
Well Bottom: 85.40 Well
Diameter: 2" Screen
Length: 10'

Casing
Type: PVC Volume in 1
Well Casing
(liters): 29.4 L Estimated
Purge
Volume
(liters): 29.4 L

Sample ID: DEC-088D Sample
Time: 1150 QA/QC: None

Sample Parameters: TCL VOCs, total Alkalinity, Chloride, Nitrate-Nitrite, total Phosphorus, Sulfate, Sulfide and TKN

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1040	6.45	10.91	0.854	8.70	898	-36	400	37.83
1045	6.25	13.38	1.240	2.14	589	-53	400	37.83
1050	6.49	13.80	1.250	1.53	364	-71	425	37.83
1055	6.50	13.85	1.250	1.37	272	-72	425	37.83
1100	6.52	13.99	1.250	1.29	176	-74	425	37.83
1105	6.48	14.00	1.270	1.22	145	-73	425	37.83
1110	6.48	14.10	1.280	1.36	92	-74	425	37.83
1115	6.47	14.10	1.280	1.28	64	-75	425	37.83
1120	6.46	14.22	1.280	1.19	55.4	-76	425	37.83
1125	6.46	14.19	1.280	1.19	57.3	-76	425	37.83
1130	6.47	14.20	1.280	1.18	54.2	-76	425	37.83
1135	6.48	14.32	1.280	1.14	45.6	-76	425	37.83
1140	6.48	14.35	1.280	1.08	40.5	-75	425	37.83
1145	6.45	14.42	1.280	1.06	39.6	-73	425	37.83
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vq_d = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Klink Cosmo RI Site: Klink Cosmo Well I.D.: DEC-089

Date: 3/27/2012 Sampling Personnel: John Boyd Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Dedicated/ Disposable	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Top of Riser	Initial Depth to Water:	36.96	Depth to Well Bottom:	49.84	Well Diameter:	2"	Screen Length:	15'
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	7.95 L	Estimated Purge Volume (liters):	9.4 L
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Sample ID:	DEC-089	Sample Time:	0850	QA/QC:	None
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Sample Parameters: TCL VOCs, total Alkalinity, Chloride, Nitrate-Nitrite, total Phosphorus, Sulfate, Sulfide and TKN

PURGE PARAMETERS

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($v_{ql} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Klink Cosmo RI Site: Klink Cosmo Well I.D.: DEC-089D

Date: 3/27/2012 Sampling Personnel: Mira Abdelaziz Company: URS Corporation

Purging/
Sampling
Device: Bladder Pump Tubing Type: Dedicated/ Disposable Pump/Tubing
Inlet
Location: Screen midpoint

Measuring
Point: Top of Riser Initial Depth
to Water: 37.05 Depth to
Well Bottom: 86.37 Well
Diameter: 2" Screen
Length: 10'

Casing
Type: PVC Volume in 1
Well Casing
(liters): 30.43 L Estimated
Purge
Volume
(liters): 32.3 L

Sample ID: DEC-089D Sample
Time: 0930 QA/QC: None

Sample Parameters: TCL VOCs, total Alkalinity, Chloride, Nitrate-Nitrite, total Phosphorus, Sulfate, Sulfide and TKN

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0810	6.69	14.94	0.876	24.19	>1,000	194	250	37.05
0815	6.54	11.52	1.30	21.97	>1,000	142	250	37.05
1820	6.50	13.62	1.32	21.55	>1,000	123	250	37.05
0825	6.52	14.04	1.31	19.49	>1,000	116	450	37.05
0830	6.52	14.22	1.31	16.33	337	107	450	37.05
0835	6.53	14.46	1.34	15.91	134	103	450	37.05
0840	6.53	14.42	1.34	15.49	127	103	450	37.05
0845	6.53	15.40	1.36	13.72	75.5	100	450	37.05
0850	6.53	14.51	1.36	13.56	67.7	99	450	37.05
0855	6.54	14.47	1.37	12.33	69.4	93	450	37.05
0900	6.54	14.46	1.37	11.89	67.7	91	450	37.05
0905	6.54	14.52	1.37	11.15	48.3	88	450	37.05
0910	6.54	14.55	1.38	10.68	45.1	88	450	37.05
0915	6.55	14.57	1.38	10.26	40.2	85	450	37.05
0920	6.56	14.59	1.38	9.93	33.1	82	450	37.05
0925	6.55	14.68	1.38	9.54	30.5	80	450	37.05
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vol_d = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Klink Cosmo RI Site: Klink Cosmo Well I.D.: DEC-090

Date: 3/28/2012 Sampling Personnel: John Boyd Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Dedicated/ Disposable	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Top of Riser	Initial Depth to Water:	31.88	Depth to Well Bottom:	44.65	Well Diameter:	2"	Screen Length:	15'
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	7.8 L	Estimated Purge Volume (liters):	15.2 L
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Sample ID:	DEC-090	Sample Time:	0920	QA/QC:	None
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Sample Parameters: TCL VOCs, total Alkalinity, Chloride, Nitrate-Nitrite, total Phosphorus, Sulfate, Sulfide and TKN

PURGE PARAMETERS

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vol_t = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Klink Cosmo RI Site: Klink Cosmo Well I.D.: DEC-090D

Date: 3/28/2012 Sampling Personnel: Mira Abdelaziz Company: URS Corporation

Purging/
Sampling
Device: Bladder Pump Tubing Type: Dedicated/ Disposable Pump/Tubing
Inlet
Location: Screen midpoint

Measuring
Point: Top of Riser Initial Depth
to Water: 32.20 Depth to
Well Bottom: 80.11 Well
Diameter: 2" Screen
Length: 10'

Casing
Type: PVC Volume in 1
Well Casing
(liters): 29.56 L Estimated
Purge
Volume
(liters): 32.3 L

Sample ID: DEC-090D Sample
Time: 0930 QA/QC: None

Sample Parameters: TCL VOCs, total Alkalinity, Chloride, Nitrate-Nitrite, total Phosphorus, Sulfate, Sulfide and TKN

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0750	6.93	15.68	1.12	10.32	648	-62	350	32.20
0755	6.80	16.10	1.27	9.52	977	-44	350	32.20
0800	6.71	16.26	1.31	8.21	399	-34	350	32.20
0805	6.67	16.24	1.34	7.62	151	-31	350	32.20
0810	6.67	16.34	1.34	7.13	69.9	-31	350	32.20
0815	6.67	16.29	1.35	7.01	54.1	-31	350	32.20
0820	6.64	16.37	1.36	6.86	40.2	-30	350	32.20
0825	6.65	16.40	1.37	6.68	31.2	-28	350	32.20
0830	6.65	16.39	1.38	6.53	27.7	-28	350	32.20
0835	6.64	16.40	1.38	6.41	21.8	-26	350	32.20
0840	6.64	16.41	1.39	6.34	18.2	-26	350	32.20
0845	6.64	16.35	1.38	6.28	14.5	-24	350	32.20
0850	6.65	16.33	1.39	6.27	13.4	-24	350	32.20
0855	6.64	16.36	1.39	6.20	12.3	-24	350	32.20
0900	6.65	16.38	1.39	6.14	7.86	-24	350	32.20
0905	6.64	16.40	1.39	6.09	6.69	-24	350	32.20
0910	6.64	16.37	1.39	6.08	6.07	-23	350	32.20
0915	6.64	16.39	1.40	6.04	5.42	-22	350	32.20
0920	6.64	16.38	1.39	6.02	4.83	-23	350	32.20
0925	6.64	16.38	1.40	6.02	4.98	-22	350	32.20
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vol_d = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Klink Cosmo RI Site: Klink Cosmo Well I.D.: DEC-091

Date: 3/27/2012 Sampling Personnel: John Boyd Company: URS Corporation

Purging/ Sampling Device:	Bladder Pump	Tubing Type:	Dedicated/ Disposable	Pump/Tubing Inlet Location:	Screen midpoint
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Measuring Point:	Top of Riser	Initial Depth to Water:	25.40	Depth to Well Bottom:	44.25	Well Diameter:	2"	Screen Length:	15'
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	11.63 L	Estimated Purge Volume (liters):	15.2 L
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Sample ID:	DEC-091	Sample Time:	1435	QA/QC:	None
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Sample Parameters: TCL VOCs, total Alkalinity, Chloride, Nitrate-Nitrite, total Phosphorus, Sulfate, Sulfide and TKN

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($v_{ql} = \pi r^2 h$)

Remarks:

Faint petroleum odor and slight sheen in purge water.

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Klink Cosmo RI Site: Klink Cosmo Well I.D.: DEC-091D

Date: 3/27/2012 Sampling Personnel: Mira Abdelaziz Company: URS Corporation

Purging/
Sampling
Device: Bladder Pump Tubing Type: Dedicated/ Disposable Pump/Tubing
Inlet
Location: Screen midpoint

Measuring
Point: Top of Riser Initial Depth
to Water: 25.31 Depth to
Well Bottom: 80.20 Well
Diameter: 2" Screen
Length: 10'

Casing
Type: PVC Volume in 1
Well Casing
(liters): 33.87 L Estimated
Purge
Volume
(liters): 36.1 L

Sample ID: DEC-091D Sample
Time: 1510 QA/QC: Duplicate sample
FD-03272012-2

Sample Parameters:

TCL VOCs, total Alkalinity, Chloride, Nitrate-Nitrite, total Phosphorus, Sulfate, Sulfide and TKN

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1345	6.67	15.47	0.915	8.72	>1,000	-57	350	25.31
1350	6.68	15.48	0.956	8.50	>1,000	-65	350	25.31
1355	6.64	15.35	0.993	7.70	510	-79	350	25.31
1400	6.63	15.34	1.01	7.51	330	-81	350	25.31
1405	6.64	15.34	1.03	7.36	237	-83	350	25.31
1410	6.63	15.37	1.03	7.19	152	-84	350	25.31
1415	6.61	15.39	1.03	7.17	112	-86	350	25.31
1420	6.61	15.37	1.03	7.12	87.3	-87	350	25.31
1425	6.61	15.38	1.04	6.95	56.8	-87	350	25.31
1430	6.60	15.39	1.04	6.80	55.2	-87	350	25.31
1435	6.60	15.46	1.04	6.76	38.0	-87	350	25.31
1440	6.60	15.45	1.04	6.66	34.4	-87	350	25.31
1445	6.61	15.39	1.04	6.72	22.1	-87	350	25.31
1450	6.60	15.41	1.04	6.73	18.7	-87	350	25.31
1455	6.60	15.43	1.04	6.59	13.6	-87	350	25.31
1500	6.60	15.42	1.04	6.53	13.6	-87	350	25.31
1505	6.60	15.40	1.04	6.51	10.2	-87	350	25.31
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($V_{Qd} = \pi r^2 h$)

Remarks:

Sulfur-like odor in purge water.

APPENDIX K

INVESTIGATION DERIVED WASTE (IDW) DISPOSAL

DOCUMENTS

RI PHASE I

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Doc. No.

2. Page 1

of

49013

3. Generator's Name and Mailing Address

ATTN: DAVID
HARRINGTON

NYSDEC
625 Broadway Albany NY

4. Generator's Phone (518) 422-9775

MEERDA Ave
Brooklyn Green Campus

5. Transporter 1 Company Name

AARCO ENVIRONMENTAL SERVICES CORP.

6. US EPA ID Number

N.Y.R. 0.0.0.1.0.7.3.2.6

A. Transporter's Phone

631-586-5900

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Chemical Pollution Control
10 South 4th
Brooklyn NY 11206

10. US EPA ID Number

NY.D.0.8.2.7.8.5.4.2.9

C. Facility's Phone

631-586-0333

11. Waste Shipping Name and Description

a. Non-Hazardous Soil / Solids

b.

c.

d.

12. Containers

No.

Type

13. Total Quantity

14. Unit Wt/Vol

17. 200 P

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

EMERGENCY PHONE # 631-586-5900

ASOLIDS

Pending Analysis

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

SCOTT MCCABE FOR NYSDEC

Signature

Scott McCabe for NYSDEC

Month Day Year

5 3 11

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

John Zinn

Signature

John Zinn

Month Day Year

5 9 11

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Fred Miranda

Signature

Fred Miranda

Month Day Year

5 26 11

TRANSPORTER #1

Bay 23433

2000

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of 1
3. Generator's Name and Mailing Address ATTN: DAVID HARRINGTON 245 Broadway Albany N.Y.		6. US EPA ID Number N.Y.R.0.0.0.1.0.7.3.2.6		
4. Generator's Phone (518) 422-9775		A. Transporter's Phone 631-586-5900		
5. Transporter 1 Company Name AARCO ENVIRONMENTAL SERVICES CORP.		8. US EPA ID Number		B. Transporter's Phone
7. Transporter 2 Company Name		10. US EPA ID Number		C. Facility's Phone
9. Designated Facility Name and Site Address Chemical Pollution Control 60 South 4th Brooklyn N.Y. 11206		11. Waste Shipping Name and Description Van Housen Soil / Solids		12. Containers No. Type 12.00 700 P
13. Total Quantity		14. Unit Wt/Vol		
D. Additional Descriptions for Materials Listed Above		E. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information EMERGENCY PHONE # 631-586-5900 Also: Pending Analysis				
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.				
Printed/Typed Name SCOTT MCCABE FOR NYSDEC		Signature [Signature]		Month Day Year 5 9 11
17. Transporter 1 Acknowledgement of Receipt of Materials		Signature [Signature]		Month Day Year 5 9 11
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature		Month Day Year
19. Discrepancy Indication Space				
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.				
Printed/Typed Name Fred Minors		Signature [Signature]		Month Day Year 5 26 11

TRANSPORTER #2

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Doc. No.

2. Page 1

of

49014

1

3. Generator's Name and Mailing Address

ATTN: David Harrington

NYDEC

625 Broadway Albany NY

MEERER Inc

4. Generator's Phone

(518) 462-9775

Rockledge Ocean Springs

5. Transporter 1 Company Name

AARCO ENVIRONMENTAL SERVICES CORP.

6. US EPA ID Number

NY R 0 0 0 1 0 7 3 2 6

A. Transporter's Phone

631-586-5900

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Chemical Pollution Control

100 South 45th

Ramapo NJ 07066

10. US EPA ID Number

NY D 0 8 2 7 8 5 4 2 9

C. Facility's Phone

631-586-0333

11. Waste Shipping Name and Description

a. Non-Hazardous Drill Cuttings

12. Containers
No. Type

13. Total
Quantity

14. Unit
Wt/Vol

2 Drums 8.00 P

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

(A) SOLIDS

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

EMERGENCY PHONE # 631-586-5900

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

X Scott M. Moore FOR NYDEC

Signature

Scott M. Moore NYDEC

Month Day Year

5 9 11

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

John Zinsler

Signature

John Zinsler

Month Day Year

5 9 11

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Fred Miranda

Signature

Fred Miranda

Month Day Year

5 26 11

TRANSPORTER #1

BAY-23432

100

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Doc. No. 49014	2. Page 1 of 1	
3. Generator's Name and Mailing Address <i>ATW Dario Hammonston NYDEC</i>					
4. Generator's Phone () <i>402 9775</i>					
5. Transporter 1 Company Name AARCO ENVIRONMENTAL SERVICES CORP.	6. US EPA ID Number NY R 0 0 0 1 0 7 3 2 6	A. Transporter's Phone 631-586-5900			
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter's Phone			
9. Designated Facility Name and Site Address <i>Chlorine & Hydrogen Chloride 120 South 4th Birmingham AL 35206</i>	10. US EPA ID Number IN Y D Q B 3 7 8 5 4 2 9	C. Facility's Phone <i>205 386 2277</i>			
11. Waste Shipping Name and Description		12. Containers	13. Total Quantity	14. Unit	
		No.	Type	Wt/Vol	
		a. <i>Non-Hazardous Solid Catalyst</i>	<i>2 Dr</i>	<i>8.0</i>	<i>P</i>
		b.			
		c.			
D. Additional Descriptions for Materials Listed Above <i>A. 5000</i>		E. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information EMERGENCY PHONE # 631-586-5900					
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.					
Printed/Typed Name <i>John Z. Hammonston</i>		Signature <i>[Signature]</i>		Month Day Year <i>5 9 91</i>	
17. Transporter 1 Acknowledgement of Receipt of Materials					
Printed/Typed Name <i>John Z. Hammonston</i>		Signature <i>[Signature]</i>		Month Day Year <i>5 9 91</i>	
18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed/Typed Name		Signature		Month Day Year	
19. Discrepancy Indication Space					
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.					
Printed/Typed Name <i>Paul Hammonston</i>		Signature <i>[Signature]</i>		Month Day Year <i>5 26 91</i>	

TRANSPORTER #2

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Doc. No.

2. Page 1

of

48634

3. Generator's Name and Mailing Address

ATTN: Dare Harrington

NYSDCL
625 Broadway

METKAR Ave

4. Generator's Phone (518) 462-9775

Albany, NY

Banking Assoc. Bldg

5. Transporter 1 Company Name

AARCO ENVIRONMENTAL SERVICES CORP.

6. US EPA ID Number

NY R 000107326

A. Transporter's Phone

631-586-5900

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Chemical Pollution Control
120 South 4th St
Bingham NY 11706

10. US EPA ID Number

NY D 082785429

C. Facility's Phone

631-586-0332

11. Waste Shipping Name and Description

12. Containers

No.

Type

13. Total Quantity

14. Unit
Wt/Vol

a.

Non Hazardous - Mud/Water Drilling

3 Dr

1200

lb

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

EMERGENCY PHONE # 631-586-5900

(A Sol 2013)

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Scott McManis for NYSDCL

Signature

[Signature]

Month Day Year

5 10 11

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Jon Sepe

Signature

[Signature]

Month Day Year

5 10 11

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Fred Minardi

Signature

[Signature]

Month Day Year

5 26 11

TRANSPORTER #1

Bay 23439

011

NON-HAZARDOUS
WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Doc. No.

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of 1

48634

3. Generator's Name and Mailing Address

AT Danc Harrington

NYSDCL
625 Broadway

MEERHAR

4. Generator's Phone

(518) 462-9775

Albany, NY

Brakeless Driver Express

5. Transporter 1 Company Name

AARCO ENVIRONMENTAL SERVICES CORP.

6.

US EPA ID Number

N.Y.R. 000107326

A. Transporter's Phone

631-586-5900

7. Transporter 2 Company Name

8.

US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Chemical Pollution Control
120 South 45T
Bayside, NY 11706

10.

US EPA ID Number

LNVD082785429

C. Facility's Phone

631-586-0333

11. Waste Shipping Name and Description

12. Containers

No.

Type

13. Total
Quantity

14. Unit
Wt/Vol

a.

Wm Hazardous - Mud/Water Drilling

3

Dr

1000

P

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

EMERGENCY PHONE # 631-586-5900

A. See 103

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Signature

Month Day Year

Scott McNamee For NYSDCL

[Signature]

5 10 11

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

Jon Sepe

[Signature]

5 10 11

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

Fred Mianich

[Signature]

5 20 11

GENERATOR

TRANSPORTER

FACILITY

TRANSPORTER #2

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Doc. No.

2. Page 1

of 1

48635

3. Generator's Name and Mailing Address

ATT: Dave Harrington

NYSDEC
625 Broadway

4. Generator's Phone

(518-462) 9775 Albany NY

5. Transporter 1 Company Name

AARCO ENVIRONMENTAL SERVICES CORP.

6.

US EPA ID Number

N.Y.R. 0.0.0.1.0.7.3.2.6

A. Transporter's Phone

631-586-5900

7. Transporter 2 Company Name

8.

US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Chemical Pollution Control
100 South 4th
Raphine, NY 11706

10.

US EPA ID Number

IN.Y.D.0.82.7.85.429

C. Facility's Phone

(31-586-0333

11. Waste Shipping Name and Description

12. Containers

No.

Type

13. Total
Quantity

14. Unit
WVVol

a.

Nm Hazardous - Soil cuttings

3

DM

1800

7

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

EMERGENCY PHONE # 631-586-5900

(A) SOLIDS

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Signature

Month Day Year

X Scott McCabe FOR NYSDEC

X [Signature] NYSDEC

5 10 11

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

X Jon Sepe

X [Signature]

5 10 11

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

Fred Miranda

[Signature]

5 26 11

TRANSPORTER #1

Box 23434

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No.

Manifest Doc. No.
48635

2. Page 1
of 1

3. Generator's Name and Mailing Address

*NYSDOC
Attn: Don Washington*

625 Broadway

4. Generator's Phone

(516-702) 9775 Albany, NY

5. Transporter 1 Company Name

AARCO ENVIRONMENTAL SERVICES CORP.

6.

US EPA ID Number

NY R 0 0 0 1 0 7 3 2 6

A. Transporter's Phone

631-586-5900

7. Transporter 2 Company Name

8.

US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

*Chemical Pollution Control
100 South 4th St
Baton Rouge, LA 70806*

10.

US EPA ID Number

LA 082785429

C. Facility's Phone

504-386-0533

11. Waste Shipping Name and Description

a.

Non-Hazardous - Sol/cuttings

12. Containers

No.

Type

13.
Total
Quantity

14.
Unit
Wt/Vol

3

Drum

1800

2

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

EMERGENCY PHONE # 631-586-5900

A) Solids

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Signature

Month Day Year

Scott McCarroll FOR NYSDOC

[Signature]

5 10 11

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

Jon Sepe

[Signature]

5 10 11

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

Ted M. Smith

[Signature]

5 26 11

TRANSPORTER #2

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Doc. No.

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48636

3. Generator's Name and Mailing Address

Klink Cosmo Vanderpool 3 Division Place
Brooklyn, NY

4. Generator's Phone ()

5. Transporter 1 Company Name

AARCO ENVIRONMENTAL SERVICES CORP.

6. US EPA ID Number

NY R 0 0 0 1 0 7 3 2 6

A. Transporter's Phone

631-586-5900

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

10. US EPA ID Number

C. Facility's Phone 631-586-0333

11. Waste Shipping Name and Description

NYB 082785429

12. Containers

No.

Type

13. Total Quantity

14. Unit Wt/Vol

a. Non-HAZ Drill Cuttings / Mud

008 DTM

4000

LBS

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

EMERGENCY PHONE # 631-586-5900

(A) Sludge

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Megan Dascoli agent for NYSDOT

Signature

Megan Dascoli agent for NYSDOT

Month Day Year

05/11/11

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Brian Wyle

Signature

Brian Wyle

Month Day Year

05/11/11

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Fred Minerva

Signature

Fred Minerva

Month Day Year

05/11/11

TRANSPORTER #1

Bay 23435

100

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of 1
3. Generator's Name and Mailing Address Klink Cosmo Vanderpool 3 Division Place Brooklyn, NY				
4. Generator's Phone ()				
5. Transporter 1 Company Name AARCO ENVIRONMENTAL SERVICES CORP.		6. US EPA ID Number N Y R 0 0 0 1 0 7 3 2 6	A. Transporter's Phone 631-586-5900	
7. Transporter 2 Company Name		8. US EPA ID Number	B. Transporter's Phone	
9. Designated Facility Name and Site Address Bayshore, NY		10. US EPA ID Number	C. Facility's Phone 631-586-0333	
11. Waste Shipping Name and Description Non-HAZ Drill Cuttings / Mud		12. Containers No. Type	13. Total Quantity	14. Unit Wt/Vol
a.		008 DTM	4,000	LBS
b.				
c.				
d.				
D. Additional Descriptions for Materials Listed Above		E. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information EMERGENCY PHONE # 631-586-5900 (A) Sludge				
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.				
Printed/Typed Name Megan Descol agent for NYSDOT		Signature Megan Descol agent for NYSDOT		Month Day Year 10 5 11
17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed/Typed Name Brian Wyble		Signature Brian Wyble		Month Day Year 10 5 11
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed/Typed Name		Signature		Month Day Year
19. Discrepancy Indication Space				
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.				
Printed/Typed Name Fred Minardi		Signature Fred Minardi		Month Day Year 10 5 11

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Doc. No.

2. Page 1

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48712

3. Generator's Name and Mailing Address

Attn: Dave
Harrington
NYSDEC
Division Place
Brooklyn, NY

4. Generator's Phone ()

5. Transporter 1 Company Name

AARCO ENVIRONMENTAL SERVICES CORP.

6. US EPA ID Number

NYR 000107326

A. Transporter's Phone

631-586-5900

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

CP
120 East
Bayshore, NY

10. US EPA ID Number

INYD082785429

C. Facility's Phone

631-586-0333

11. Waste Shipping Name and Description

a. Non-Hazardous Solid
(Drill Cuttings)

12. Containers

No. Type

13. Total
Quantity

14. Unit
Wt/Vol

002 DM 008.00 LB

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

EMERGENCY PHONE # 631-586-5900

A Solids

Pending Analysis

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Larry Friedman As Agent for
NYSDEC

Signature

Larry Friedman As Agent for
NYSDEC

Month Day Year

5/2/11

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Tom Slevin

Signature

Tom Slevin

Month Day Year

5/2/11

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Fred Miranda

Signature

Fred Miranda

Month Day Year

5/26/11

TRANSPORTER #1

Bay-23436

2/26/11

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Doc. No. 48712	2. Page 1 of 1
3. Generator's Name and Mailing Address ATTN: Dave Harrington NYSDEC Division Place Brooklyn, NY				
4. Generator's Phone ()	5. Transporter 1 Company Name AARCO ENVIRONMENTAL SERVICES CORP.	6. US EPA ID Number N.Y.R. 0.0.0.1.0.7.3.2.6	A. Transporter's Phone 631-586-5900	
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter's Phone		
9. Designated Facility Name and Site Address CP 6 120 South Bayshore, NY	10. US EPA ID Number IN YD 082785.429	C. Facility's Phone 631-586-0333		
11. Waste Shipping Name and Description		12. Containers	13. Total Quantity	14. Unit Wt/Vol
a. Non-Hazardous Solid (Drill Cuttings)		No.	Type	
b.				
c.				
d.				
D. Additional Descriptions for Materials Listed Above		E. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information EMERGENCY PHONE # 631-586-5900 ASOLIDS Pending Analysis				
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.				
Printed/Typed Name Cary Friedman		Signature Cary Friedman		Month Day Year 1-21-11
17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed/Typed Name Tom Shen		Signature Tom Shen		Month Day Year 1-21-11
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed/Typed Name		Signature		Month Day Year
19. Discrepancy Indication Space				
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.				
Printed/Typed Name Fred Miranda		Signature Fred Miranda		Month Day Year 5-26-11

TRANSPORTER #2

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Doc. No.

2. Page 1

of 1

N/A

48728

3. Generator's Name and Mailing Address

ATTN: Dave Harrington
NYSDEC
625 Broadway 12th Flr
Albany NY 12233-7016

4. Generator's Phone ()

5. Transporter 1 Company Name

AARCO ENVIRONMENTAL SERVICES CORP.

6. US EPA ID Number

NY R 0 0 0 1 0 7 3 2 6

A. Transporter's Phone

631-586-5900

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

CPC PSCHAU
120 S. 4th St.
Baptists, NY

10. US EPA ID Number

NYD 082785429

C. Facility's Phone

586-0333

11. Waste Shipping Name and Description

12. Containers

No.

Type

13. Total Quantity

14. Unit Wt/Vol

a. Non-hazardous Soil
(Drill Cuttings)

3 DM 6200 R

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

CHRY

15. Special Handling Instructions and Additional Information

EMERGENCY PHONE # 631-586-5900

(A) SOLIDS

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Cary Friedman AS Agent for NYSDEC

Signature

Cary Friedman AS Agent for NYSDEC

Month Day Year

5 13 11

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

CHRY (hristian)

Signature

CHRY (hristian)

Month Day Year

5 13 11

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Fred Miranda

Signature

Fred Miranda

Month Day Year

5 16 11

GENERATOR

TRANSPORTER

FACILITY

TRANSPORTER #1

Bay 23437

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. N/A	Manifest Doc. No. 48728	2. Page 1 of 1
3. Generator's Name and Mailing Address ATTN: Dave Harrington 625 Broadway 12th Flr Albany NY 12233-7016			Division Place Vandewater	
4. Generator's Phone ()				
5. Transporter 1 Company Name AARCO ENVIRONMENTAL SERVICES CORP.		6. US EPA ID Number N.Y.R. 0.0.0.1.0.7.3.2.6	A. Transporter's Phone 631-586-5900	
7. Transporter 2 Company Name		8. US EPA ID Number	B. Transporter's Phone	
9. Designated Facility Name and Site Address CPC RECHAU 120 S. 4th St. Babylon, NY		10. US EPA ID Number N.Y.D.0827.85.4.2.9	C. Facility's Phone 631-586-0333	
11. Waste Shipping Name and Description			12. Containers No. Type	13. Total Quantity 14. Unit Wt/Vol
a. Non-Hazardous Soil (Drill Cuttings)			3. DM	12.00 P
b.				
c.				
d.				
D. Additional Descriptions for Materials Listed Above WARY			E. Handling Codes for Wastes Listed Above	
15. Special Handling Instructions and Additional Information EMERGENCY PHONE # 631-586-5900 (A) SOLIDS				
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.				
Printed/Typed Name Gary Friedman As Agent for NYSDEC		Signature [Signature]		Month Day Year 5 15 11
17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed/Typed Name [Signature]		Signature [Signature]		Month Day Year 5 13 11
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed/Typed Name		Signature		Month Day Year
19. Discrepancy Indication Space				
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.				
Printed/Typed Name Fred M. [Signature]		Signature Fred M. [Signature]		Month Day Year 5 16 11

TRANSPORTER #2

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Doc. No.

2. Page 1
of 1

48570

3. Generator's Name and Mailing Address

NYS DEC
Attn: Dave
Harrington
VANDERVOORT AVE
Brooklyn NY

4. Generator's Phone ()

5. Transporter 1 Company Name

AARCO ENVIRONMENTAL SERVICES CORP.

6. US EPA ID Number

NY R 0 0 0 1 0 7 3 2 6

A. Transporter's Phone

631-586-5900

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

CHEMICAL POLLUTION CONTROL
170 SOUTH 4TH STREET
BAYSHORE NY 11706

10. US EPA ID Number

NY R 0 8 2 7 8 5 4 2 9

C. Facility's Phone

631-586-0333

11. Waste Shipping Name and Description

12. Containers

No.

Type

13. Total
Quantity

14. Unit
Wt/Vol

a. NON HAZ DRILL CUTTINGS

2 Dr

600 P

b. NON HAZ WELLS DRILLING WATER

20 Dr

1.10 B

c.

d.

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

EMERGENCY PHONE # 631-586-5900 - pending Analysis

(A) 60 LBS

(B) LBS

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

As Agent

Signature

As Agent

Month Day Year

Cary Friedman for NYDEC

[Signature]

for NYDEC

5 16 11

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

MICHAEL MAZUR

[Signature]

05 16 11

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

Fred Minardi

[Signature]

5 26 11

TRANSPORTER #1

Bay 23438

6

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Doc. No. 48570		2. Page 1 of 1	
3. Generator's Name and Mailing Address NYS DEC Attn Dave Harrington VANDERVOORT AVE Brooklyn NY							
4. Generator's Phone ()							
5. Transporter 1 Company Name AARCO ENVIRONMENTAL SERVICES CORP.		6. US EPA ID Number NYR000107326		A. Transporter's Phone 631-586-5900			
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter's Phone			
9. Designated Facility Name and Site Address CHEMICAL POLLUTION CONTROL 120 SOUTH 4TH STREET BAYSHORE NY 11706		10. US EPA ID Number NYR082785429		C. Facility's Phone 631-586-0333			
11. Waste Shipping Name and Description				12. Containers		13. Total Quantity	
				No.	Type	14. Unit Wt/Vol	
a. NON HAZ DRILL CUTTINGS				2 Dr		600 D	
b. NON HAZ WEL DRILLING WATER				2 Dr		1.10 E	
c.							
d.							
D. Additional Descriptions for Materials Listed Above				E. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information EMERGENCY PHONE # 631-586-5900 - pending Analysis A) SOLIDS B) LUB							
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.							
Printed/Typed Name Larry Friedman				Signature <i>[Signature]</i>		Month Day Year 5/16/11	
17. Transporter 1 Acknowledgement of Receipt of Materials							
Printed/Typed Name MICHAEL MAZUR				Signature <i>[Signature]</i>		Month Day Year 05/16/11	
18. Transporter 2 Acknowledgement of Receipt of Materials							
Printed/Typed Name				Signature		Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.							
Printed/Typed Name Paul Mianke				Signature <i>[Signature]</i>		Month Day Year 5/26/11	

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Doc. No.

2. Page 1 of 1

48638

3. Generator's Name and Mailing Address

Attn Dave Harrington

NYS DEC
Vandervoort Ave
Brooklyn NY

4. Generator's Phone

5. Transporter 1 Company Name

AARCO ENVIRONMENTAL SERVICES CORP.

6. US EPA ID Number

N.Y.R. 000107326

A. Transporter's Phone

631-586-5900

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Chemical Pollution Control
120 South 4th St
Bayshore NY 11706

10. US EPA ID Number

C. Facility's Phone

11. Waste Shipping Name and Description

12. Containers

No. Type

13. Total Quantity

14. Unit Wt/Vol

a.

Non Haz Drill Cuttings

3 DM

1460 lbs

b.

Non Haz Drilling water/liquid from well purge

7 DM

300 B

c.

d.

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

EMERGENCY PHONE # 631-586-5900

(A) 501.05
(B) 117.05

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Cary Friedman As Agent For NYDEC

Signature

Cary Friedman As Agent For NYDEC

Month Day Year

5 17 11

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Jon Sepe

Signature

Jon Sepe

Month Day Year

5 17 11

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Fred Miranda

Signature

Fred Miranda

Month Day Year

5 16 11

TRANSPORTER #1

Bay-23431

10

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Doc. No. 48638		2. Page 1 of 1	
3. Generator's Name and Mailing Address Attn. Dave Harrington		NYS DEC Vandervoort Ave Brooklyn NY					
4. Generator's Phone ()				A. Transporter's Phone 631-586-5900			
5. Transporter 1 Company Name AARCO ENVIRONMENTAL SERVICES CORP.		6. US EPA ID Number NY R 000107326		B. Transporter's Phone			
7. Transporter 2 Company Name		8. US EPA ID Number		C. Facility's Phone			
9. Designated Facility Name and Site Address Chemical Pollution Control 120 South 4th St. Bayshore NY 11706		10. US EPA ID Number					
11. Waste Shipping Name and Description				12. Containers		13. Total Quantity	
				No.	Type	14. Unit Wt/Vol	
a. Non Haz Drill Cuttings				3		DM 1460 lbs	
b. Non Haz Drilling water/liquid from well purge				7		DM 300 lb	
c.							
d.							
D. Additional Descriptions for Materials Listed Above				E. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information EMERGENCY PHONE # 631-586-5900							
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.							
Printed/Typed Name Cary Friedman				Signature <i>Cary Friedman</i>		Month Day Year 5/17/11	
17. Transporter 1 Acknowledgement of Receipt of Materials				Signature <i>Joe Sepe</i>		Month Day Year 5/17/11	
18. Transporter 2 Acknowledgement of Receipt of Materials				Signature		Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.							
Printed/Typed Name Fred Minich				Signature <i>Fred Minich</i>		Month Day Year 5/26/11	

TRANSPORTER #2

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Doc. No.

2. Page 1
of

48637

3. Generator's Name and Mailing Address

Attn Dave Harrington

NYS DEC
Vanderport Ave
Brooklyn NY

4. Generator's Phone ()

5. Transporter 1 Company Name

AARCO ENVIRONMENTAL SERVICES CORP.

6. US EPA ID Number

N Y R 0 0 0 1 0 7 3 2 6

A. Transporter's Phone

631-586-5900

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Chemical Pollution Control
120 South 4th St
Bay Shore NY 11706

10. US EPA ID Number

C. Facility's Phone

11. Waste Shipping Name and Description

12. Containers

13. Total
Quantity

14. Unit
Wt/Vol

a.

Non Haz Drill Cuttings

3

DM

1400

lbs

b.

Non Haz Drilling Water Trapped From Well
Large

3

DM

150

Gr

c.

d.

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

EMERGENCY PHONE # 631-586-5900

(A) 50000

(B) 150

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Scott MacLean FOR NYS DEC

Signature

Scott MacLean for NYS DEC

Month Day Year

5 18 11

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Chaz Christic

Signature

Chaz Christic

Month Day Year

5 18 11

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Ted Miranda

Signature

Ted Miranda

Month Day Year

5 26 11

TRANSPORTER #1

NY-23430

23

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Doc. No. 48637	2. Page 1 of	
3. Generator's Name and Mailing Address <i>Alvin Dave Harrington</i>						
4. Generator's Phone ()						
5. Transporter 1 Company Name AARCO ENVIRONMENTAL SERVICES CORP.			6. US EPA ID Number N Y R 0 0 0 1 0 7 3 2 6		A. Transporter's Phone 631-586-5900	
7. Transporter 2 Company Name			8. US EPA ID Number		B. Transporter's Phone	
9. Designated Facility Name and Site Address <i>Chemical Pollution Control 120 South 4th St Bay Shore NY 11706</i>			10. US EPA ID Number		C. Facility's Phone	
11. Waste Shipping Name and Description					12. Containers	
					No.	Type
a. <i>Non Haz Drill Cuttings</i>					<i>3</i>	<i>DR</i>
b. <i>Non Haz Drilling Water (liquid from well)</i>					<i>3</i>	<i>DR</i>
c. <i>Large</i>						
d.						
D. Additional Descriptions for Materials Listed Above					E. Handling Codes for Wastes Listed Above	
15. Special Handling Instructions and Additional Information EMERGENCY PHONE # 631-586-5900 <i>11/1/05</i> <i>9/2/05</i>						
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.						
Printed/Typed Name <i>Scott Wickham FOR NYSDEC</i>				Signature <i>[Signature]</i>		Month Day Year <i>5 18 11</i>
17. Transporter 1 Acknowledgement of Receipt of Materials						
Printed/Typed Name <i>Gregory Christie</i>				Signature <i>[Signature]</i>		Month Day Year <i>5 18 11</i>
18. Transporter 2 Acknowledgement of Receipt of Materials						
Printed/Typed Name				Signature		Month Day Year
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.						
Printed/Typed Name <i>Fred Miranda</i>				Signature <i>[Signature]</i>		Month Day Year <i>5 26 11</i>

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Doc. No.

2. Page 1
of

48641

3. Generator's Name and Mailing Address

Attn: Dave Harrington

NYSDEC

Vanderwort Ave

BROOKLYN, NY

4. Generator's Phone ()

5. Transporter 1 Company Name

AARCO ENVIRONMENTAL SERVICES CORP.

6. US EPA ID Number

NY R 0 0 0 1 0 7 3 2 6

A. Transporter's Phone

631-586-5900

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Chemical Pollution Control

120 South 4th St

Bay Shore, NY 11706

10. US EPA ID Number

C. Facility's Phone

11. Waste Shipping Name and Description

12. Containers

No.

Type

13. Total
Quantity

14. Unit
Wt/Vol

a. NON-HAZ Drilling/Mud

6

DM

3000

LBS

b. NON-HAZ Drilling Water/Purge Water

4

DM

2000

LBS

c.

d.

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

EMERGENCY PHONE # 631-586-5900

(A) Single

(B) Low

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Carol Friedman

As Agent
for NYSDEC

Signature

[Signature]

As Agent
for NYSDEC

Month Day Year

05 19 11

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Brian White

Signature

[Signature]

Month Day Year

05 19 11

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Fred M. M... [Signature]

Signature

[Signature]

Month Day Year

05 26 11

TRANSPORTER #1

Bay 23424

6/13/11

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. 48641	2. Page 1 of
3. Generator's Name and Mailing Address Attn Dave Harrington NYS DEC Vandervoort Ave BROOKLYN, NY			
4. Generator's Phone ()			
5. Transporter 1 Company Name AARCO ENVIRONMENTAL SERVICES CORP		6. US EPA ID Number N Y R 0 0 0 1 0 7 3 2 6	A. Transporter's Phone 631-586-5900
7. Transporter 2 Company Name		8. US EPA ID Number	B. Transporter's Phone
9. Designated Facility Name and Site Address Chemical Pollution Control 120 South 4th St Bay Shore, NY 11706		10. US EPA ID Number	C. Facility's Phone
11. Waste Shipping Name and Description		12. Containers No. Type	13. Total Quantity 14. Unit Wt/Vol
a. NON-HAZ Drill/Cutting / Mud		6 DM	3000 LBS
b. NON-HAZ Drilling Water / Puage Water		4 DM	2000 LBS
c.			
d.			
D. Additional Descriptions for Materials Listed Above		E. Handling Codes for Wastes Listed Above	
15. Special Handling Instructions and Additional Information EMERGENCY PHONE # 631-586-5900 ID Agent A. Harrington			
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.			
Printed/Typed Name Gary Friedman As Agent for NYS DEC		Signature Gary Friedman	Month Day Year 05 19 11
17. Transporter 1 Acknowledgement of Receipt of Materials			
Printed/Typed Name Brian Wyle		Signature Brian Wyle	Month Day Year 05 19 11
18. Transporter 2 Acknowledgement of Receipt of Materials			
Printed/Typed Name		Signature	Month Day Year
19. Discrepancy Indication Space			
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.			
Printed/Typed Name Fred M. M...		Signature Fred M. M...	Month Day Year 05 20 11

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Doc. No.

2. Page 1
of

48643

3. Generator's Name and Mailing Address

ATTN: DAVE HARRINGTON
Vanier Court NW
Brookline

4. Generator's Phone ()

5. Transporter 1 Company Name

AARCO ENVIRONMENTAL SERVICES CORP.

6. US EPA ID Number

N Y R 0 0 0 1 0 7 3 2 6

A. Transporter's Phone

631-586-5900

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Chemical Pollution Control, Inc.
1205 LINDEN ST
Bay Shore, NY 11706

10. US EPA ID Number

C. Facility's Phone

888-719-8344

11. Waste Shipping Name and Description

12. Containers

No. Type

13. Total
Quantity

14. Unit
Wt/Vol

a. NON-HAZ Drilling Muds/Mud

005 DT

2500

LS

b. NON-HAZ Purge Water

004 DT

2000

LS

c.

d.

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

EMERGENCY PHONE # 631-586-5900

(A) 5 x 36 in

(B) 4 x 6 in

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

As Agent
Gary Friedman

Signature

As Agent
Gary Friedman

Month Day Year

05 20 11

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Brian Wyble

Signature

Brian Wyble

Month Day Year

05 20 11

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Fred Miranda

Signature

Fred Miranda

Month Day Year

05 26 11

TRANSPORTER #1

Bay 23426

SPC

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Doc. No. 48643	2. Page 1 of
3. Generator's Name and Mailing Address ATTN: DAVE HARRINGTON Vander Voort Ave BROOKLYN				
4. Generator's Phone ()				
5. Transporter 1 Company Name AARCO ENVIRONMENTAL SERVICES CORP.		6. US EPA ID Number N Y R 0 0 0 1 0 7 3 2 6	A. Transporter's Phone 631-586-5900	
7. Transporter 2 Company Name		8. US EPA ID Number	B. Transporter's Phone	
9. Designated Facility Name and Site Address Chemical Bulk Control, Inc. 1205 41st St. Bay Shore NY 11706		10. US EPA ID Number	C. Facility's Phone 888-715-8111	
11. Waste Shipping Name and Description			12. Containers No. Type	13. Total Quantity
a. NON-HAZ Drilling Muds/Mud			005 DT	2500
b. NON-HAZ Purge Water			004 DT	2000
c.				
d.				
D. Additional Descriptions for Materials Listed Above			E. Handling Codes for Wastes Listed Above	
15. Special Handling Instructions and Additional Information EMERGENCY PHONE # 631-586-5900 A) 5 x 3 1/2 in B) 4 x 6 in				
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.				
Printed/Typed Name Cary Friedman		Signature Cary Friedman		Month Day Year 05 20 11
17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed/Typed Name Brian Wyle		Signature Brian Wyle		Month Day Year 05 20 11
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed/Typed Name		Signature		Month Day Year
19. Discrepancy Indication Space				
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.				
Printed/Typed Name Fred Miranda		Signature Fred Miranda		Month Day Year 05 20 11

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Doc. No.

2. Page 1
of

48974

3. Generator's Name and Mailing Address

NYSDDEC
625 Broadway
New York, NY 10003

Generator's Phone (516) 402-9752

5. Transporter 1 Company Name

AARCO ENVIRONMENTAL SERVICES CORP.

6. US EPA ID Number

NY R 0 0 0 1 0 7 3 2 6

A. Transporter's Phone

631-586-5900

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Chemical Pollution Control Inc.
120 South 45 Street
Bay Shore, NY 11706

10. US EPA ID Number

C. Facility's Phone

631-586-0333

11. Waste Shipping Name and Description

12. Containers

No.

Type

13. Total
Quantity

14. Unit
Wt/Vol

a. Non-Hazardous Water Drilling Fluid

3

Dr

165

C

b. Non-Hazardous Solids Soil & Water

2

Dr

1000

P

c.

d.

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

Pending Analysis

15. Special Handling Instructions and Additional Information

EMERGENCY PHONE # 631-586-5900

(A) 1/8

(B) Sludge

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

X Cary Friedman

As Agent
for NYSDDEC

Signature

X [Signature]

As Agent
for NYSDDEC

Month Day Year

5 23 11

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

John Zaiser

Signature

[Signature]

Month Day Year

5 23 11

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Fred Miranda

Signature

[Signature]

Month Day Year

5 26 11

TRANSPORTER #1

BAY-23428

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Doc. No. 48974		2. Page 1 of 1	
GENERATOR	3. Generator's Name and Mailing Address <i>NYSDDEC 625 Broadway New York, NY 10012</i>				Division <i>VANDERBILT</i>		
	4. Generator's Phone (<i>512-469-9751</i>)				A. Transporter's Phone <i>631-586-5900</i>		
	5. Transporter 1 Company Name AARCO ENVIRONMENTAL SERVICES CORP.				6. US EPA ID Number N Y R 0 0 0 1 0 7 3 2 6		
	7. Transporter 2 Company Name				8. US EPA ID Number		B. Transporter's Phone
	9. Designated Facility Name and Site Address <i>Chemical Pollution Control Inc 120 South 45 Street Rye, NY 10706</i>				10. US EPA ID Number		C. Facility's Phone <i>631-566-0337</i>
	11. Waste Shipping Name and Description				12. Containers		13. Total Quantity
					No.		Type
	a. <i>Non-Hazardous Water Drilling Fluid</i>				3		Drum
	b. <i>Non-Hazardous Solids, Drilling Water</i>				2		Drum
	c.						
d.							
D. Additional Descriptions for Materials Listed Above <i>Pending Analysis</i>				E. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information EMERGENCY PHONE # 631-586-5900 <i>(A) 12 (B) 12</i>							
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.							
Printed/Typed Name <i>Cary Friedman</i>				Signature <i>Cary Friedman</i>		Month Day Year <i>5 23 11</i>	
17. Transporter 1 Acknowledgement of Receipt of Materials							
Printed/Typed Name <i>John Zins</i>				Signature <i>[Signature]</i>		Month Day Year <i>5 23 11</i>	
18. Transporter 2 Acknowledgement of Receipt of Materials							
Printed/Typed Name				Signature		Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 19.							
Printed/Typed Name <i>Fred Miranda</i>				Signature <i>Fred Miranda</i>		Month Day Year <i>5 24 11</i>	

TRANSPORTER #2

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of
3. Generator's Name and Mailing Address ATTN: Dave Harington NYSDEC 625 BROADWAY ALBANY NY		DIVISION PL. + PORTER ST AND RICHARDSON + VAN DER HOORT AVE BROOKLYN NY		
4. Generator's Phone (518) 402-9335	6. US EPA ID Number N Y R 0 0 0 1 0 7 3 2 6	A. Transporter's Phone 631-586-5900		
5. Transporter 1 Company Name AARCO ENVIRONMENTAL SERVICES CORP.	8. US EPA ID Number	B. Transporter's Phone		
7. Transporter 2 Company Name	10. US EPA ID Number	C. Facility's Phone		
9. Designated Facility Name and Site Address CHEMICAL POLLUTION CONTROL INC. 120 SOUTH 4 ST. BAYSHORE NY 11706				
11. Waste Shipping Name and Description		12. Containers No. Type	13. Total Quantity	14. Unit Wt/Vol
a. NON-HAZ PURGE WATER		202 DM	1106	
b. NON-HAZ DRILL CUTTINGS + MUD + SOLIDS		205 DM	2000 P.	
c. 2 LIT				
d. 2 SOLID				
D. Additional Descriptions for Materials Listed Above		E. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information EMERGENCY PHONE # 631-586-5900 (A) 2x LIT (B) 3x SOLID, 3x SLUDGE				
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.				
Printed/Typed Name Cary Friedman AS Agent for NYSDC		Signature Cary Friedman AS Agent for NYSDC		Month Day Year 05/24/11
17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed/Typed Name JUAN C. TORRES		Signature [Signature]		Month Day Year 05/24/11
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed/Typed Name		Signature		Month Day Year
19. Discrepancy Indication Space				
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.				
Printed/Typed Name Fred Mianke		Signature Fred Mianke		Month Day Year 5/26/11

TRANSPORTER #1

Box 23425

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of
3. Generator's Name and Mailing Address ATTN: Dave Harrington NYSDEC 625 BROADWAY ALBANY, NY		DIVISION PL. + PORTER ST AND RICHARDSON + VANOR 1001T AVE BROOKLYN, NY		
4. Generator's Phone (518) 402-9995		US EPA ID Number N Y R 0 0 0 1 0 7 3 2 6		A. Transporter's Phone 631-586-5900
5. Transporter 1 Company Name AARCO ENVIRONMENTAL SERVICES CORP.		8. US EPA ID Number		B. Transporter's Phone
7. Transporter 2 Company Name		10. US EPA ID Number		C. Facility's Phone
9. Designated Facility Name and Site Address CHEMICAL POLLUTION CONTROL INC. 120 SOUTH 4 ST. BAYSHORE NY 11706				
11. Waste Shipping Name and Description		12. Containers No.	13. Total Quantity	14. Unit Wt/Vol
a. NON-HAZ PURGE WATER		0.02 DM	11.06	
b. NON-HAZ DRILL CUTTINGS + MUD + SOLIDS		0.5 DM	20.00 P	
c.				
d.				
D. Additional Descriptions for Materials Listed Above		E. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information EMERGENCY PHONE # 631-586-5900 (A) 2x L18 (B) 5x SOLID, 5x SOLID				
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.				
Printed/Typed Name Larry Friedman AS AGENT for NYSDEC		Signature Larry Friedman AS AGENT for NYSDEC		Month Day Year 05/24/11
17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed/Typed Name JUAN C. TORRES		Signature [Signature]		Month Day Year 05/24/11
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed/Typed Name		Signature		Month Day Year
19. Discrepancy Indication Space				
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.				
Printed/Typed Name Fred M. [Signature]		Signature Fred M. [Signature]		Month Day Year 5/26/11

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Doc. No.

2. Page 1
of

48984

3. Generator's Name and Mailing Address

Atta Dave Harrington

NYSDOC
625 Broadway
Albany NY

Division Pl + Vanderhoof + A
Brooklyn NY

4. Generator's Phone (518) 462 9775

5. Transporter 1 Company Name

AARCO ENVIRONMENTAL SERVICES CORP.

6. US EPA ID Number

NY R 0 0 0 1 0 7 3 2 6

A. Transporter's Phone

631-586-5900

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Chemical Pollution Control Inc.
120 South 4th St
Bay Shore NY 11706

10. US EPA ID Number

C. Facility's Phone

11. Waste Shipping Name and Description

12. Containers

13. Total
Quantity

14. Unit
Wt/Vol

a. Non Haz Purge Water

5 DM

275 G

b. Non Haz Drilling mud / cuttings / water

2 DM

1400 lbs

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

EMERGENCY PHONE # 631-586-5900

(A) LTR
(B) Sludge

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Tim Harnish

Signature

Tim Harnish agent for NYSDOC

Month Day Year

5 25 11

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Jon A. Sepe

Signature

J. Sepe

Month Day Year

5 25 11

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Fred Miranda

Signature

Fred Miranda

Month Day Year

5 26 11

TRANSPORTER #1

Bay 23427

6/6/11

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of
3. Generator's Name and Mailing Address Alfa Drive Harrington NJ 07801 625 Highway 100 Albany NY				
4. Generator's Phone (518) 452-9770				
5. Transporter 1 Company Name AARCO ENVIRONMENTAL SERVICES CORP.		6. US EPA ID Number N Y R 0 0 0 1 0 7 3 2 6		A. Transporter's Phone 631-586-5900
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter's Phone
9. Designated Facility Name and Site Address Chemical Pollution Control 100 South 4th St Brooklyn NY 11206		10. US EPA ID Number		C. Facility's Phone
11. Waste Shipping Name and Description		12. Containers		13. Total Quantity
		No. Type		Unit Wt/Vol
a. New Has Purple Water		5 DM		275 G
b. New Has Pinkish mud / collage / ...		2 DM		1400 lbs
c.				
d.				
D. Additional Descriptions for Materials Listed Above		E. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information EMERGENCY PHONE # 631-586-5900 A LTL B Sludge				
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.				
Printed/Typed Name Tim ...		Signature Tim ...		Month Day Year 5 25 11
17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed/Typed Name Joe ...		Signature Joe ...		Month Day Year 5 25 11
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed/Typed Name		Signature		Month Day Year
19. Discrepancy Indication Space				
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.				
Printed/Typed Name Fred ...		Signature Fred ...		Month Day Year 5 26 11

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Doc. No.

2. Page 1
of

48985

3. Generator's Name and Mailing Address

ATI
DANE HUNTINGTON

NYSDOC
625 Broadway

Division ST
Vanderbilt Ave
Brooklyn, NY

4. Generator's Phone

(518) 402-9715 Albany, NY

5. Transporter 1 Company Name

AARCO ENVIRONMENTAL SERVICES CORP.

6.

US EPA ID Number

NY R 0 0 0 1 0 7 3 2 6

A. Transporter's Phone

631-586-5900

7. Transporter 2 Company Name

8.

US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Chemical Pollution Control Inc
100 South 4th
Rye Brook, NY 11706

10.

US EPA ID Number

C. Facility's Phone

631-586-0333

11. Waste Shipping Name and Description

12. Containers

No.

Type

13. Total
Quantity

14. Unit
Wt/Vol

a.

Non-Hazardous - Purged Water

3 DM

165

G

b.

Non-Hazardous - Drill Cuttings solids

1 DM

3.00

P

c.

d.

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

EMERGENCY PHONE # 631-586-5900

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Signature

Month Day Year

X Tim Alford agent for the NYSDOC

Tim Alford

5 26 11

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

X Kevin Kegel

Kevin Kegel

5 26 11

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

Gary Scoppio

Gary Scoppio

05 26 11

TRANSPORTER #1

RAY-23429

ROSE

		1. Generator's US EPA ID No.	Manifest Doc. No. 48985	2. Page 1 of			
3. Generator's Name and Site Address ATI Duke Hamilton NYDEC 625 Broadway Albany, NY				Division 5 Vanderbilt Ave Brooklyn, NY			
4. Generator's Phone (518) 402-9775		6. US EPA ID Number N.Y.R. 0.0.0.1.0.7.3.2.6		A. Transporter's Phone 631-586-5900			
5. Transporter 1 Company Name AARCO ENVIRONMENTAL SERVICES CORP.		8. US EPA ID Number		B. Transporter's Phone			
7. Transporter 2 Company Name		10. US EPA ID Number		C. Facility's Phone 631-586-0633			
9. Designated Facility Name and Site Address Chemical Pollution Control Inc. 100 South 4th Dayshore, NY 11706							
11. Waste Shipping Name and Description				12. Containers	13. Total Quantity		
				No.	Type	14. Unit Wt/Vol	
				a.			
				b.			
				c.			
D. Additional Descriptions for Materials Listed Above				E. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information EMERGENCY PHONE # 631-586-5900							
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.							
Printed/Typed Name Tim [Signature]			Signature [Signature]		Month Day Year 5 26 11		
17. Transporter 1 Acknowledgement of Receipt of Materials							
Printed/Typed Name X Kevin Kegel			Signature [Signature]		Month Day Year 5 26 11		
18. Transporter 2 Acknowledgement of Receipt of Materials							
Printed/Typed Name			Signature		Month Day Year		
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.							
Printed/Typed Name Gary Scoppio			Signature [Signature]		Month Day Year 05 26 11		

TRANSPORTER #2

Page 2 of 3

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CESOG	Manifest Doc. No. 48749	2. Page 1 of			
3. Generator's Name and Mailing Address Arla Dark Harrington NYSDEC 625 Broadway Albany NY		Division 31 / Vander Voort Ave Brooklyn NY					
4. Generator's Phone ()	5. Transporter 1 Company Name AARCO ENVIRONMENTAL SERVICES CORP.		6. US EPA ID Number N Y R 0 0 0 1 0 7 3 2 6	A. Transporter's Phone 631-586-5900			
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter's Phone			
9. Designated Facility Name and Site Address CPC 170 S 4th St Binghamton NY 13900		10. US EPA ID Number		C. Facility's Phone 631-586-0333			
11. Waste Shipping Name and Description			12. Containers	13. Total Quantity	14. Unit Wt/Vol		
			No.	Type			
			a.	3	DM	2,000	lbs
			b.				
			c.				
D. Additional Descriptions for Materials Listed Above			E. Handling Codes for Wastes Listed Above				
15. Special Handling Instructions and Additional Information EMERGENCY PHONE # 631-586-5900 Sludge							
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.							
Printed/Typed Name Cary Friedman for NYSDDEC		Signature Cary Friedman		Month Day Year 11/11			
17. Transporter 1 Acknowledgement of Receipt of Materials							
Printed/Typed Name Sepe		Signature Sepe		Month Day Year 11/11			
18. Transporter 2 Acknowledgement of Receipt of Materials							
Printed/Typed Name		Signature		Month Day Year			
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.							
Printed/Typed Name Michael J. [unclear]		Signature Michael J. [unclear]		Month Day Year 11/11			

GENERATOR

TRANSPORTER

FACILITY

TRANSPORTER #1

Box 23443

1. Generator's US EPA ID No. CESOG		2. Page 1 of 1	
3. Generator's Name and Mailing Address Alto Dore Harrington NYSDEC 625 Broadway Albany NY		Division 51/Vanderhoof Ave Brooklyn NY	
4. Generator's Phone ()		A. Transporter's Phone 631-586-5900	
5. Transporter 1 Company Name AARCO ENVIRONMENTAL SERVICES CORP.		6. US EPA ID Number N Y R 0 0 0 1 0 7 3 2 6	
7. Transporter 2 Company Name		B. Transporter's Phone	
9. Designated Facility Name and Site Address CPC 120 S 4th St Bayshore NY 11706		10. US EPA ID Number	
11. Waste Shipping Name and Description Dredging Mud / Solids		12. Containers No. Type	13. Total Quantity 2.000 lbs
14. Unit Wt/Vol			
D. Additional Descriptions for Materials Listed Above		E. Handling Codes for Wastes Listed Above	
15. Special Handling Instructions and Additional Information EMERGENCY PHONE # 631-586-5900 ③ sludge			
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.			
Printed/Typed Name Carol Friedman		Signature <i>[Signature]</i>	
17. Transporter 1 Acknowledgement of Receipt of Materials		Month Day Year 5 27 11	
Printed/Typed Name Sepe		Signature <i>[Signature]</i>	
18. Transporter 2 Acknowledgement of Receipt of Materials		Month Day Year 5 27 11	
Printed/Typed Name		Signature	
19. Discrepancy Indication Space			
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.			
Printed/Typed Name [Signature]		Signature <i>[Signature]</i>	
Month Day Year 5 27 11			

167393

Bay 23563

1328254

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of
3. Generator's Name and Mailing Address NYSDDEC 625 Broadway Albany, NY		Division St. Vanderbilt		
4. Generator's Phone (518) 462-9775				
5. Transporter 1 Company Name AARCO ENVIRONMENTAL SERVICES CORP.		6. US EPA ID Number N Y R 0 0 0 1 0 7 3 2 6	A. Transporter's Phone 631-586-5900	
7. Transporter 2 Company Name		8. US EPA ID Number	B. Transporter's Phone	
9. Designated Facility Name and Site Address Chemical Pollution Control 120 S. 4th St. Bayshore, NY		10. US EPA ID Number	C. Facility's Phone 631-586-0333	
11. Waste Shipping Name and Description			12. Containers No. Type	13. Total Quantity
a. Non-Hazardous Drilling mud / Solids			1 DM	400 P
b. Non-Hazardous Purged Water			1 DM	55 G
c.				
d.				
D. Additional Descriptions for Materials Listed Above			E. Handling Codes for Wastes Listed Above	
15. Special Handling Instructions and Additional Information EMERGENCY PHONE # 631-586-5900 499661-00 499659-00				
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.				
Printed/Typed Name Cary Friedman		Signature Cary Friedman		Month Day Year 6 2 11
17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed/Typed Name John Zinner		Signature John Zinner		Month Day Year 6 2 11
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed/Typed Name		Signature		Month Day Year
19. Discrepancy Indication Space				
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 19.				
Printed/Typed Name Michael D. Dineen		Signature Michael D. Dineen		Month Day Year 6 6 11

ORIGINAL - RETURN TO GENERATOR

BAY 23162

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of
3. Generator's Name and Mailing Address Attn: Dave Harrington NYS DEC 625 BROADWAY ALBANY, N.Y.		VANDERVOORT AVE + RICHARDSON ST. BROOKLYN N.Y.		
4. Generator's Phone (518) 402-9775		631-586-5900		
5. Transporter 1 Company Name AARCO ENVIRONMENTAL SERVICES CORP.		A. Transporter's Phone 631-586-5900		
7. Transporter 2 Company Name		B. Transporter's Phone		
9. Designated Facility Name and Site Address CHEMICAL POLLUTION CONTROL 120 S. 4TH ST BAY SHORE N.Y.		C. Facility's Phone		
11. Waste Shipping Name and Description		12. Containers		
a. NON-HAZ DRILLING MUD/SOIL		No. Type 13. Total Quantity 14. Unit Wt/Vol		
b.		002 DM 01.400 P		
c.				
d.				
D. Additional Descriptions for Materials Listed Above 499661-00		E. Handling Codes for Wastes Listed Above		
16. Special Handling Instructions and Additional Information EMERGENCY PHONE # 631-586-5900				
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.				
Printed/Typed Name Cary Friedman		Signature Cary Friedman		
17. Transporter Acknowledgement of Receipt of Materials		Month Day Year		
Printed/Typed Name JUAN C TORRES		Signature JUAN C TORRES		
18. Transporter 2 Acknowledgement of Receipt of Materials		Month Day Year		
Printed/Typed Name		Signature		
19. Discrepancy Indication Space				
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.				
Printed/Typed Name JUAN C TORRES		Signature JUAN C TORRES		
		Month Day Year 06/03/11		

ORIGINAL - RETURN TO GENERATOR

BSY-23594

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of 1	
3. Generator's Name and Mailing Address ATTN: Dave Harrington 625 Bussey Albany NY		N/A		48771	
4. Generator's Phone		Vandervoort + Richardson		Site Vandervoort + Richardson	
5. Transporter 1 Company Name AARCO ENVIRONMENTAL SERVICES CORP.		6. US EPA ID Number N.Y.R. 0 0 0 1 0 7 3 2 6		A. Transporter's Phone 631-586-5900	
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter's Phone	
9. Designated Facility Name and Site Address CPC 120 J. 4th Bayshore NY PSC Environmental Svcs. 11706 Chemical Pollution Control LLC of NY		10. US EPA ID Number N/A		C. Facility's Phone	
11. Waste Shipping Name and Description		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Non Hazardous Soil (Drill cuttings)		xx3	DR	1200	P
b. Non Hazardous Liquid (Purge Water)		xx2	DR	110	G
c.					
d.					
D. Additional Descriptions for Materials Listed Above		E. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information EMERGENCY PHONE # 631-586-5900					
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.					
Printed/Typed Name Cary Friedman for NYSDEC		Signature Cary Friedman for NYSDEC		Month Day Year 6 6 15	
17. Transporter 1 Acknowledgement of Receipt of Materials					
Printed/Typed Name Curt Mulligan		Signature C Mulligan		Month Day Year 6 6 15	
18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed/Typed Name		Signature		Month Day Year	
19. Discrepancy Indication Space					
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.					
Printed/Typed Name Fred Miranda		Signature Fred Miranda		Month Day Year 6 7 11	

ORIGINAL - RETURN TO GENERATOR

167393

BAY-23612

1329625

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of 1	11-18/44
3. Generator's Name and Mailing Address Attn Dave Harrington 625 Esna Albany NY		Site: Vandervoort Ave and Division St			
4. Generator's Phone ()					
5. Transporter 1 Company Name AARCO ENVIRONMENTAL SERVICES CORP.		6. US EPA ID Number N Y R 0 0 0 1 0 7 3 2 6		A. Transporter's Phone 631-586-5900	
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter's Phone	
9. Designated Facility Name and Site Address CPL 120 South 4th St. Bayshore NY 11706		10. US EPA ID Number		C. Facility's Phone (631) 586-0333	
11. Waste Shipping Name and Description		12. Containers		13. Total Quantity	14. Unit Wt/Vol
a. Drilling Purge Water		2 DM		5.5	G
b. Drilling Mud/soil		3 DM		1450	lbs
c.					
d.					
D. Additional Descriptions for Materials Listed Above		E. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information EMERGENCY PHONE # 631-586-5900					
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.					
*Printed/Typed Name Cary Friedman As Agent for NYSDEC		Signature Cary Friedman		Month Day Year 6 7 11	
17. Transporter 1 Acknowledgement of Receipt of Materials		Signature Jon Sepe		Month Day Year 6 7 11	
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature		Month Day Year	
19. Discrepancy Indication Space					
20. Facility Owner or Operator: Certification of Receipt of waste materials covered by this manifest except as noted in Item 19.					
Printed/Typed Name Paula Quinn		Signature Paula Quinn		Month Day Year 6 8 11	

ORIGINAL - RETURN TO GENERATOR

BAF-2644

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of
3. Generator's Name and Mailing Address Attn: Dore Harrington 625 Bldg Albany NY		Division St / Vanderwoort Brooklyn NY		
4. Generator's Phone ()				
5. Transporter 1 Company Name AARCO ENVIRONMENTAL SERVICES CORP.		6. US EPA ID Number N Y R 0 0 0 1 0 7 3 2 6	A. Transporter's Phone 631-586-5900	
7. Transporter 2 Company Name		8. US EPA ID Number	B. Transporter's Phone	
9. Designated Facility Name and Site Address EPC 120 South 4th St. Bayshore NY 117061		10. US EPA ID Number	C. Facility's Phone (631) 586-0333	
11. Waste Shipping Name and Description		12. Containers No. Type	13. Total Quantity	14. Unit Wt/Vol
a. Ground Purge Water		20M	11.0	G
b. Drilling Mud / soil		10M	4.00	lbs
c.				
d.				
D. Additional Descriptions for Materials Listed Above		E. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information EMERGENCY PHONE # 631-586-5900				
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.				
Printed/Typed Name Cary Friedman		Signature Cary Friedman		Month Day Year 6 8 11
17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed/Typed Name Jon Sepe		Signature J. Sepe		Month Day Year 6 8 11
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed/Typed Name		Signature		Month Day Year
19. Discrepancy Indication Space				
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.				
Printed/Typed Name Fred Miranda		Signature		Month Day Year 6 9 11

GENERATOR

TRANSPORTER

FACILITY

ORIGINAL - RETURN TO GENERATOR

NY-23714

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page-1 of	18# 50558
3. Generator's Name and Mailing Address Attn Dave Harrington NYSDEC/URS # 625 Broadway Albany NY		6. US EPA ID Number N Y R 0 0 0 1 0 7 3 2 6		A. Transporter's Phone 631-586-5900	
4. Generator's Phone ()		8. US EPA ID Number		B. Transporter's Phone	
5. Transporter 1 Company Name AARCO ENVIRONMENTAL SERVICES CORP.		10. US EPA ID Number		C. Facility's Phone (631) 586-0333	
7. Transporter 2 Company Name		11. Waste Shipping Name and Description		12. Containers	
9. Designated Facility Name and Site Address CPC 120 S. 4th St. Bayshore NY 11706		13. Total Quantity		14. Unit Wt/Vol	
		a. Purge Water		6 DM 330 G	
		b. Waste Plastic tubing / PPE Gear		1 DM 40 lbs	
		c.			
		d.			
D. Additional Descriptions for Materials Listed Above		E. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information EMERGENCY PHONE # 631-586-5900					
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.					
Printed/Typed Name Cary Friedman for NYSDC		Signature [Signature]		Month Day Year 6 9 11	
17. Transporter 1 Acknowledgement of Receipt of Materials		Signature [Signature]		Month Day Year 6 9 11	
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature		Month Day Year	
19. Discrepancy Indication Space					
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.					
Printed/Typed Name [Signature]		Signature [Signature]		Month Day Year 6 10 11	

GENERATOR

TRANSPORTER

FACILITY

ORIGINAL - RETURN TO GENERATOR

poll 50558

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of
3. Generator's Name and Mailing Address ATTN: Dave Hannan URS 1400 Ave Division Pl Brooklyn NY				
4. Generator's Phone		Job No: 11-18144		
5. Transporter 1 Company Name AARCO ENVIRONMENTAL SERVICES CORP.		6. US EPA ID Number N Y R 0 0 0 1 0 7 3 2 6		A. Transporter's Phone 631-586-5900
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter's Phone
9. Designated Facility Name and Site Address CPC 120 South Fourth St Bayshore NY		10. US EPA ID Number		C. Facility's Phone
11. Waste Shipping Name and Description				12. Containers No. Type
a. NON HAZARDOUS purge water				8 2 DM X 1-10 G
b.				
c.				
d.				
D. Additional Descriptions for Materials Listed Above				E. Handling Codes for Wastes Listed Above
15. Special Handling Instructions and Additional Information EMERGENCY PHONE # 631-586-5900				
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.				
Printed/Typed Name Gary Friedman AS Agent for NYSDOC		Signature [Signature]		Month Day Year 6 21 11
17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed/Typed Name [Name]		Signature [Signature]		Month Day Year 6 21 11
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed/Typed Name		Signature		Month Day Year
19. Discrepancy Indication Space				
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.				
Printed/Typed Name Gary Scoppio		Signature [Signature]		Month Day Year 06 22 11

GENERATOR

TRANSPORTER

FACILITY

Box 24073

11-18144

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Doc. No. 49774	2. Page 1 of
3. Generator's Name and Mailing Address NYSDEC Attn: Dave Harrington 625 Broadway		Vanderbilt Ave Division Pl. Brooklyn NY		
4. Generator's Phone (518) 402-9775 Albany N.Y.				
5. Transporter 1 Company Name AARCO ENVIRONMENTAL SERVICES CORP.		6. US EPA ID Number N Y R 0 0 0 1 0 7 3 2 6		A. Transporter's Phone 631-586-5900
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter's Phone
9. Designated Facility Name and Site Address Chemical Pollution Control 100 South 4 ST Bay Shore, NY 11706		10. US EPA ID Number		C. Facility's Phone (631)-586-0333
11. Waste Shipping Name and Description				12. Containers No. Type
a. Non-Hazardous Purged Water				2 DM 110 G
b.				
c.				
d.				
D. Additional Descriptions for Materials Listed Above				E. Handling Codes for Wastes Listed Above
15. Special Handling Instructions and Additional Information EMERGENCY PHONE # 631-586-5900				
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.				
Printed/Typed Name x Cary Friedman		Signature <i>Cary Friedman</i>		Month Day Year 6 23 11
17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed/Typed Name x John Zinner		Signature <i>John Zinner</i>		Month Day Year 6 23 11
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed/Typed Name		Signature		Month Day Year
19. Discrepancy Indication Space				
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.				
Printed/Typed Name David Smith		Signature <i>David Smith</i>		Month Day Year 6 24 11

GENERATOR

TRANSPORTER

FACILITY

TRANSPORTER #1

BRF 24111

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of 1	11-18144
3. Generator's Name and Mailing Address Attn Dave Harrington 625 Broadway Albany NY		6. US EPA ID Number N Y R 0 0 0 1 0 7 3 2 6		A. Transporter's Phone 631-586-5900	
4. Generator's Phone ()		7. Transporter 2 Company Name		B. Transporter's Phone	
5. Transporter 1 Company Name AARCO ENVIRONMENTAL SERVICES CORP.		8. US EPA ID Number		C. Facility's Phone (631) 586-0333	
9. Designated Facility Name and Site Address CPC 120 S. 4th St Bayshore NY 11706		10. US EPA ID Number			
11. Waste Shipping Name and Description			12. Containers	13. Total Quantity	14. Unit Wt/Vol
a. Purge Water from well			No. 1 Type DM	55	67
b. PPE waste (Non-Haz)			No. 3 Type DM	3.00	lbs
c.					
d.					
D. Additional Descriptions for Materials Listed Above			E. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information EMERGENCY PHONE # 631-586-5900					
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.					
Printed/Typed Name Cary Friedman AS Agent for NYSDOC		Signature Cary Friedman		Month 6	Day 24
17. Transporter 1 Acknowledgement of Receipt of Materials		Signature J. Sepe		Month 6	Day 24
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature		Month	Day
19. Discrepancy Indication Space					
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.					
Printed/Typed Name David Friedman		Signature David Friedman		Month 6	Day 27

GENERATOR

TRANSPORTER

FACILITY

TRANSPORTER #1

RI PHASE II

40 11-18144

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No.

Manifest Doc. No.

2. Page 1
of

51586

3. Generator's Name and Mailing Address

UPS
Division, 400 Madison Ave
Brooklyn NY

MISDEL 515-407 4776
625 Broadway
ALBANY, NY
Attn: Dawn Harrington

4. Generator's Phone ()

5. Transporter 1 Company Name

AARCO ENVIRONMENTAL SERVICES CORP.

6. US EPA ID Number

NY R 0 0 0 1 0 7 3 2 6

A. Transporter's Phone

631-586-5900

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Clear brook
972 nicolls rd
Dover PARK NY

10. US EPA ID Number

C. Facility's Phone

11. Waste Shipping Name and Description

a. non / non / non / regular
HAE / Det / corr / Solids

12. Containers

No.

Type

13. Total
Quantity

14. Unit
Wt/Vol

5

Dr

2,000

lbs

D. Additional Descriptions for Materials Listed Above

as Down Dwell cutting

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

EMERGENCY PHONE # 631-586-5900

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Signature

Month Day Year

John HICKS JR. 11/4/08

[Signature]

10/25/12

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

John HICKS JR.

[Signature]

10/28/12

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

GENERATOR'S COPY

W011 11-1844

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of
3. Generator's Name and Mailing Address U.S. ...		51587		67-20
4. Generator's Phone ()		MYSDEC 618-462-9677 625 ... Albany, NY Attn: David Harrington		
5. Transporter 1 Company Name AARCO ENVIRONMENTAL SERVICES CORP.		6. US EPA ID Number N Y R 0 0 0 1 0 7 3 2 6		A. Transporter's Phone 631-586-5900
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter's Phone
9. Designated Facility Name and Site Address SCE ... 950 ... Orange NY 07002		10. US EPA ID Number		C. Facility's Phone
11. Waste Shipping Name and Description				12. Containers
a. non HAZ / non DOT / non RCRA / regulated liquids				No. Type
				2 Dr 110
b.				
c.				
d.				
D. Additional Descriptions for Materials Listed Above a page water				E. Handling Codes for Wastes Listed Above
15. Special Handling Instructions and Additional Information EMERGENCY PHONE # 631-586-5900				
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.				
Printed/Typed Name Sgt. ...		Signature [Signature]		Month Day Year 10 9 10
17. Transporter 1 Acknowledgement of Receipt of Materials		Signature [Signature]		Month Day Year 10 9 10
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature		Month Day Year
19. Discrepancy Indication Space				
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.				
Printed/Typed Name		Signature		Month Day Year

GENERATOR

TRANSPORTER

FACILITY

FACILITY

LC # 11-181443

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No.

Manifest Doc. No.

2. Page 1 of

51535

3. Generator's Name and Mailing Address

URS
Division of Environmental and
Resource Mgmt
Poughkeepsie NY

4. Generator's Phone ()

5. Transporter 1 Company Name

AARCO ENVIRONMENTAL SERVICES CORP.

6. US EPA ID Number

NY R 0 0 0 1 0 7 3 2 6

A. Transporter's Phone

631-586-5900

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Clear Creek
972 Nicolls Rd
Deer Park NY

10. US EPA ID Number

C. Facility's Phone

11. Waste Shipping Name and Description

a. non-hazardous / non-regulated
HAZ / DOT / RCRA / Solids

12. Containers

No.

Type

13. Total Quantity

14. Unit Wt/Vol

2

Drum

800

lbs

D. Additional Descriptions for Materials Listed Above

2. Drill cutting.

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

EMERGENCY PHONE # 631-586-5900

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Signature

Month Day Year

URS

[Signature]

10/29/12

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

Victor Torres

[Signature]

10/29/12

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

GENERATOR

TRANSPORTER

FACILITY

WCA 11-18144

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Doc. No. 51597	2. Page 1 of		
3. Generator's Name and Mailing Address <i>U.S. Division - Hazardous Waste Brooklyn NY</i>		6. US EPA ID Number NY R 0 0 0 1 0 7 3 2 6		A. Transporter's Phone 631-586-5900		
4. Generator's Phone ()		8. US EPA ID Number		B. Transporter's Phone		
5. Transporter 1 Company Name AARCO ENVIRONMENTAL SERVICES CORP.		10. US EPA ID Number		C. Facility's Phone		
7. Transporter 2 Company Name						
9. Designated Facility Name and Site Address <i>DEPT BROS 972 NICHOLS RD DEPT PARK NY</i>						
11. Waste Shipping Name and Description a. <i>non / non / non regulated HAZ / SOL / SOLID / Solids</i> b. c. d.			12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
			1	Drum	400	lbs
D. Additional Descriptions for Materials Listed Above <i>Drill cutting</i>			E. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information EMERGENCY PHONE # 631-586-5900						
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.						
Printed/Typed Name <i>John H. Jones for NYSDDEC</i>		Signature <i>[Signature]</i>		Month Day Year <i>1 3 11 8</i>		
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed/Typed Name <i>Victor Jones</i>		Signature <i>[Signature]</i>		
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed/Typed Name		Signature		
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.						
Printed/Typed Name		Signature		Month Day Year		

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Doc. No.

51596

2. Page 1
of

3. Generator's Name and Mailing Address

4. Generator's Phone ()

5. Transporter 1 Company Name

AARCO ENVIRONMENTAL SERVICES CORP.

6.

US EPA ID Number

N Y R 0 0 0 1 0 7 3 2 6

7.

A. Transporter's Phone

631-586-5900

7. Transporter 2 Company Name

8.

US EPA ID Number

9.

B. Transporter's Phone

9. Designated Facility Name and Site Address

10.

US EPA ID Number

11.

C. Facility's Phone

11. Waste Shipping Name and Description

a. non / non / non / regulated
waste / oil / scrap / Liquids

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

EMERGENCY PHONE # 631-586-5900

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Signature

Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

GENERATOR'S COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Doc. No.

2. Page 1
of

51623

3. Generator's Name and Mailing Address

4. Generator's Phone ()

5. Transporter 1 Company Name

AARCO ENVIRONMENTAL SERVICES CORP.

6. US EPA ID Number

N Y R 0 0 0 1 0 7 3 2 6

A. Transporter's Phone

631-586-5900

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

10. US EPA ID Number

C. Facility's Phone

11. Waste Shipping Name and Description

a. NON HAZARDOUS - Soil Cuttings Regulated Solids

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

EMERGENCY PHONE # 631-586-5900

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Signature

Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

GENERATOR'S COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Doc. No.

2. Page 1
of 1

51463

3. Generator's Name and Mailing Address

NYS DEC
615 Broadway, Albany NY

ATTN: Dave
Washington

4. Generator's Phone (

5. Transporter 1 Company Name

AARCO ENVIRONMENTAL SERVICES CORP.

6. US EPA ID Number

NY R 0 0 0 1 0 7 3 2 6

A. Transporter's Phone

631-586-5900

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

FCC Environmental
250 77th Street
Kearny NJ 07002

10. US EPA ID Number

C. Facility's Phone

11. Waste Shipping Name and Description

12. Containers

No.

Type

13.
Total
Quantity

14.
Unit
Wt/Vol

a. Non HAP solvents - Degreaser regulated liquids

001 DM 200 P

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

EMERGENCY PHONE # 631-586-5900

1118144

16. GENERATOR'S CERTIFICATION:

I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Robert M. S. NYS DEC

Signature

[Signature]

Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Michael Kelley

Signature

[Signature]

Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

GENERATOR'S COPY

40 11-18144

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of	
3. Generator's Name and Mailing Address U.S. Division of Environmental Protection 625 Broadway ALBANY, NY ATTN: David Harrington		51594		11/4/92	
4. Generator's Phone ()	6. US EPA ID Number N Y R 0 0 0 1 0 7 3 2 6		A. Transporter's Phone 631-586-5900		
5. Transporter 1 Company Name AARCO ENVIRONMENTAL SERVICES CORP.	7. Transporter 2 Company Name		B. Transporter's Phone		
8. US EPA ID Number	9. Designated Facility Name and Site Address FCC Enviro 250 E 2nd Street BAYONE NJ 07002		C. Facility's Phone		
10. US EPA ID Number	11. Waste Shipping Name and Description a. non-hazardous / non-hazardous / regulated / liquids b. c. d.		12. Containers No. Type	13. Total Quantity	14. Unit Wt/Vol
D. Additional Descriptions for Materials Listed Above 9 Pails Water		E. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information EMERGENCY PHONE # 631-586-5900					
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.					
Printed/Typed Name S. J. HARRINGTON		Signature [Signature]		Month Day Year 10 09 92	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name V. J. Jones		Signature [Signature]		Month Day Year 10 09 92	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Month Day Year	
19. Discrepancy Indication Space					
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.					
Printed/Typed Name		Signature		Month Day Year	

GENERATOR

TRANSPORTER

FACILITY

W011-18144

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of
3. Generator's Name and Mailing Address US Army/Contract Corp Brooklyn NY		6. US EPA ID Number N Y R 0 0 0 1 0 7 3 2 6		51595
4. Generator's Phone ()		A. Transporter's Phone 631-586-5900		518-402-9778
5. Transporter 1 Company Name AARCO ENVIRONMENTAL SERVICES CORP.		8. US EPA ID Number		B. Transporter's Phone
7. Transporter 2 Company Name		10. US EPA ID Number		C. Facility's Phone
9. Designated Facility Name and Site Address Clean Green 972 Nicolls Rd Deer Park, NY				
11. Waste Shipping Name and Description			12. Containers	13. Total Quantity
a. non-haz / non-haz / non-haz / regulated 1142 / 104 / 104 / 104			No. Type	Unit
b.				
c.				
d.				
D. Additional Descriptions for Materials Listed Above Drill cutting			E. Handling Codes for Wastes Listed Above	
15. Special Handling Instructions and Additional Information EMERGENCY PHONE # 631-586-5900				
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.				
Printed/Typed Name Stan Avila		Signature Stan Avila		Month Day Year 03 09 12
17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed/Typed Name Victor Torres		Signature Victor Torres		Month Day Year 03 09 12
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed/Typed Name		Signature		Month Day Year
19. Discrepancy Indication Space				
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.				
Printed/Typed Name		Signature		Month Day Year

GENERATOR

TRANSPORTER

FACILITY

2. Page 1
of

Month Day Year

FACILITY

GENERATOR'S COPY

2. Page 1
of

51590

N-H-DEC 715-462-9228
 625 Broadway
 ALBA-4
 After Davis through

A. Transporter's Phone
631-586-5900

6. US EPA ID Number
| N Y R 0 0 0 1 0 7 3 2 6

B. Transporter's Phone:

8. US EPA ID Number

10. US EPA ID Number

C. Facility's Phone

12. Containers		13.	14.
No.	Type	Total Quantity	Unit Wt/Vol

a. $\frac{100}{100} / \frac{100}{100} / \frac{100}{100} / \frac{100}{100}$ $\frac{100}{100}$
 $\frac{100}{100} / \frac{100}{100} / \frac{100}{100} / \frac{100}{100}$ $\frac{100}{100}$

41	Don	400	10
----	-----	-----	----

b.								

c.				
----	--	--	--	--

d.				
----	--	--	--	--

E. Handling Codes for Wastes Listed Above	
---	--

E. Handling Codes for Wastes Listed Above

Printed/Typed Name	Signature	Month	Day	Year
Wade Jones	[Signature]	03	06	11

Printed/Typed Name	Signature	Month	Day	Year
Wendy L. Jones	[Signature]			

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
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GENERATOR'S COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Doc. No.

2. Page 1

of

51465

3. Generator's Name and Mailing Address

NYS DEC
635 Broadway
Albany NY

4. Generator's Phone ()

5. Transporter 1 Company Name

AARCO ENVIRONMENTAL SERVICES CORP.

6. US EPA ID Number

N Y R 0 0 0 1 0 7 3 2 6

A. Transporter's Phone

631-586-5900

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Clean Block
972 N. 10th St
Dover PA 17229

10. US EPA ID Number

C. Facility's Phone

631 586-0000

11. Waste Shipping Name and Description

a.

Non Hazardous Solids / Solid Liquids

12. Containers

No.

Type

13. Total
Quantity

14. Unit
Wt/Vol

002 DR 800 P

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

B312

E. Handling Codes for Wastes Listed Above

Sol

15. Special Handling Instructions and Additional Information

EMERGENCY PHONE # 631-586-5900

PO # B50001

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

X To the extent of my knowledge

Signature

X To the extent of my knowledge

Month Day Year

03 07 12

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Dave Schenck

Signature

Dave Schenck

Month Day Year

03 07 12

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

GENERATOR'S COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Doc. No.

2. Page 1
of 1

51464

3. Generator's Name and Mailing Address

4. Generator's Phone ()

5. Transporter 1 Company Name

AARCO ENVIRONMENTAL SERVICES CORP.

6.

US EPA ID Number

N Y R 0 0 0 1 0 7 3 2 6

A.

Transporter's Phone

631-586-5900

7. Transporter 2 Company Name

8.

US EPA ID Number

B.

Transporter's Phone

9. Designated Facility Name and Site Address

10.

US EPA ID Number

C.

Facility's Phone

11. Waste Shipping Name and Description

12. Containers

No.

Type

13. Total
Quantity

14. Unit
Wt/Vol

a.

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

EMERGENCY PHONE # 631-586-5900

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Signature

Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

GENERATOR'S COPY

Wc 11-18144

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of
3. Generator's Name and Mailing Address US Environmental Services Corp 10000 100th Ave Brooklyn NY		6. US EPA ID Number N Y R 0 0 0 1 0 7 3 2 6		A. Transporter's Phone 631-586-5900
4. Generator's Phone ()		7. Transporter 2 Company Name		B. Transporter's Phone
5. Transporter 1 Company Name AARCO ENVIRONMENTAL SERVICES CORP.		8. US EPA ID Number		C. Facility's Phone
9. Designated Facility Name and Site Address 11000 100th Ave 972 Middle Rd Dover Park NY		10. US EPA ID Number		
11. Waste Shipping Name and Description			12. Containers No. Type	13. Total Quantity
a. non-hazardous / non-flammable / regulated solids			2	500
b.				
c.				
d.				
D. Additional Descriptions for Materials Listed Above 2 2000 cuttings			E. Handling Codes for Wastes Listed Above	
15. Special Handling Instructions and Additional Information EMERGENCY PHONE # 631-586-5900				
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.				
Printed/Typed Name SATTANACE		Signature [Signature]		Month Day Year 10/08/12
17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed/Typed Name [Name]		Signature [Signature]		Month Day Year 10/08/12
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed/Typed Name		Signature		Month Day Year
19. Discrepancy Indication Space				
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.				
Printed/Typed Name		Signature		Month Day Year

GENERATOR

TRANSPORTER

FACILITY

2. Page 1
of

60-11-18144

NYSDOL 518-402-9778
625 Broadway
Albany, N.Y.
ATTN: Dawn Hawley

A. Transporter's Phone
631-586-5900

6. US EPA ID Number
| N Y R 0 0 0 1 0 7 3 2 6

B. Transporter's Phone

C. Facility's Phone

11. Waste Shipping Name and Description

12. Containers

13.
Total
Quantity

14. Unit Wt/Vol

a. $\frac{\text{non}}{\text{carb}} / \frac{\text{non}}{\text{carb}} / \frac{\text{non}}{\text{carb}} / \frac{\text{unsaturated}}{\text{Liquids}}$

9

1

496

6

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

EMERGENCY PHONE # 631-586-5900

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Signature

Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

GENERATOR

TRANSPORTER

FACILITY

GENERATOR'S COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Doc. No.
52040

2. Page 1
of

3. Generator's Name and Mailing Address

LES Corporation
Division Street
Albany, NY

NYDEC 518 462 9777
625 Broadway
ALBANY, NY
ATTN: DAVID HARRINGTON

4. Generator's Phone ()

518 462 9777

5. Transporter 1 Company Name

AARCO ENVIRONMENTAL SERVICES CORP.

6. US EPA ID Number

NY R 0 0 0 1 0 7 3 2 6

A. Transporter's Phone

631-586-5900

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

250 E 22nd Street
Albany, NY

10. US EPA ID Number

C. Facility's Phone

11. Waste Shipping Name and Description

a. non / non / non / regulated
143 / 501 / non / liquids

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

2 pages water.

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

EMERGENCY PHONE # 631-586-5900

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Scott Alcaraz FOR NYDEC

Signature

[Signature]

Month Day Year

10 31 12

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

David [Signature]

Signature

[Signature]

Month Day Year

10 31 12

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

10 31 12

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

10 31 12

GENERATOR'S COPY

WC 11-13144

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No.

Manifest Doc. No.

2. Page 1
of

52112

3. Generator's Name and Mailing Address

US CORP
DUNSMITH PLAZA
ROCKY HILL, CT

NYSDOC 518-462-9778
625 Building
ACBANK, NY
Attn: Dave Harrington

4. Generator's Phone ()

5. Transporter 1 Company Name

AARCO ENVIRONMENTAL SERVICES CORP.

6. US EPA ID Number

NY R 0 0 0 1 0 7 3 2 6

A. Transporter's Phone

631-586-5900

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

CLEAR WASTE
972 WOODS RD
DOVER, PA

10. US EPA ID Number

C. Facility's Phone

11. Waste Shipping Name and Description

12. Containers

No.

Type

13. Total
Quantity

14. Unit
Wt/Vol

a. non-hazardous / non-hazardous / regulated /
non-hazardous / non-hazardous / non-hazardous

2 0.900 105

b.
c.
d.

D. Additional Descriptions for Materials Listed Above

2" Drill Cuttings

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

EMERGENCY PHONE # 631-586-5900

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Signature

Month Day Year

SCOTT MICHENER FOR NYSDOC

[Signature]

10/12/18

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

DAVID TAYLOR

[Signature]

10/12/18

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

GENERATOR'S COPY

60111-18144

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No.

Manifest Doc. No.

2. Page 1
of

51591

NYSDOC 515-402 9778
625 Broadway
ALBANY, NY
ATTN: DAVID HARRINGTON

3. Generator's Name and Mailing Address

4. Generator's Phone ()

5. Transporter 1 Company Name

AARCO ENVIRONMENTAL SERVICES CORP.

6. US EPA ID Number

NY R 0 0 0 1 0 7 3 2 6

A. Transporter's Phone

631-586-5900

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

10. US EPA ID Number

C. Facility's Phone

11. Waste Shipping Name and Description

12. Containers

No.

Type

13. Total
Quantity

14. Unit
Wt/Vol

a. non / non / non / REGULATED
WASTE / SOLIDS

2

Drum

800

lb

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

EMERGENCY PHONE # 631-586-5900

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Signature

Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

GENERATOR'S COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest No. 52127

2. Page 1 of 1

3. Generator's Name and Mailing Address

4. Generator's Phone

5. Transporter 1 Company Name

AARCO ENVIRONMENTAL SERVICES CORP.

6. US EPA ID Number

NYR000107326

A. Transporter's Phone

631-586-5900

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

10. US EPA ID Number

C. Facility's Phone

11. Waste Shipping Name and Description

12. Containers

No.

Type

13. Total Quantity

14. Unit Wt/Vol

a. non-hazardous / regulated liquid

7

Drum

305

G

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

EMERGENCY PHONE # 631-586-5900

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Signature

Month Day Year

10 14 13

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

10 14 13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

GENERATOR'S COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Doc. No.

2. Page 1
of

50056

3. Generator's Name and Mailing Address

4. Generator's Phone

5. Transporter 1 Company Name

AARCO ENVIRONMENTAL SERVICES CORP.

6.

US EPA ID Number

N Y R 0 0 0 1 0 7 3 2 6

A.

Transporter's Phone

631-586-5900

7. Transporter 2 Company Name

8.

US EPA ID Number

B.

Transporter's Phone

9. Designated Facility Name and Site Address

10.

US EPA ID Number

C.

Facility's Phone

11. Waste Shipping Name and Description

12. Containers

No.

Type

13.
Total
Quantity

14.
Unit
Wt/Vol

a. non-hazardous / regulated
solid / sol. 25

3

dr

12 cc

Y

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

EMERGENCY PHONE # 631-586-5900

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Signature

Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

GENERATOR'S COPY

LC # 11-18194

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of
3. Generator's Name and Mailing Address NYSDOC 625 Broadway New York NY		50057		
4. Generator's Phone (518) 402-5778 ATTN: DAVID HARRINGTON		Division Environmental		
5. Transporter 1 Company Name AARCO ENVIRONMENTAL SERVICES CORP.		6. US EPA ID Number N Y R 0 0 0 1 0 7 3 2 6		A. Transporter's Phone 631-586-5900
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter's Phone
9. Designated Facility Name and Site Address ACC Environmental Services 200 E 22nd St Brooklyn NY		10. US EPA ID Number		C. Facility's Phone
11. Waste Shipping Name and Description				12. Containers
a. 100 Gallon Drums / 1000 Gallons / Liquids				No. Type
				9 495 G
b.				
c.				
d.				
D. Additional Descriptions for Materials Listed Above				E. Handling Codes for Wastes Listed Above
15. Special Handling Instructions and Additional Information EMERGENCY PHONE # 631-586-5900				
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.				
Printed/Typed Name SEAN MCCABE FOR NYSDOC		Signature [Signature]		Month Day Year 07 11 12
17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed/Typed Name MICHAEL JONES		Signature [Signature]		Month Day Year 07 11 12
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed/Typed Name		Signature		Month Day Year
19. Discrepancy Indication Space				
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.				
Printed/Typed Name		Signature		Month Day Year

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Doc. No.

2. Page 1

of:

51327

3. Generator's Name and Mailing Address

4. Generator's Phone ()

5. Transporter 1 Company Name

AARCO ENVIRONMENTAL SERVICES CORP.

6. US EPA ID Number

N Y R 0 0 0 1 0 7 3 2 6

A. Transporter's Phone

631-586-5900

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

10. US EPA ID Number

C. Facility's Phone

11. Waste Shipping Name and Description

12. Containers

No.

Type

13. Total Quantity

14. Unit Wt/Vol

a. Non Hazardous, low BT / ignitable liquids

009 DM 1.10 G

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

EMERGENCY PHONE # 631-586-5900

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

MICHAEL RIZZO NYSDEC

Signature

[Signature]

Month Day Year

3 18 12

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Michael Pelgrom

Signature

[Signature]

Month Day Year

3 16 12

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

GENERATOR'S COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Doc. No.

52106

2. Page 1

of

3. Generator's Name and Mailing Address

4. Generator's Phone ()

5. Transporter 1 Company Name

AARCO ENVIRONMENTAL SERVICES CORP.

6. US EPA ID Number

N.Y. R 0 0 0 1 0 7 3 2 6

A. Transporter's Phone

631-586-5900

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

10. US EPA ID Number

C. Facility's Phone

11. Waste Shipping Name and Description

12. Containers

No.

Type

13. Total Quantity

14. Unit Wt/Vol

a. non / non / non / regular / 1102 / 001 / 000 / Solids

2 Drums 800 10

b. c. d.

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

EMERGENCY PHONE # 631-586-5900

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Signature

Month Day Year

Scott McCabe to Mysore

[Signature]

03 14 15

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

Victor Torres

[Signature]

03 14 15

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

GENERATOR'S COPY

40011-18144

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of
3. Generator's Name and Mailing Address 625 Broadway New York, NY 10002		6. US EPA ID Number N Y R 0 0 0 1 0 7 3 2 6		A. Transporter's Phone 631-586-5900
4. Generator's Phone ()		8. US EPA ID Number		B. Transporter's Phone
5. Transporter 1 Company Name AARCO ENVIRONMENTAL SERVICES CORP.		10. US EPA ID Number		C. Facility's Phone
7. Transporter 2 Company Name				
9. Designated Facility Name and Site Address AARCO ENVIRONMENTAL SERVICES CORP 250 E 32nd St New York, NY 10002				
11. Waste Shipping Name and Description		12. Containers	13. Total Quantity	14. Unit Wt/Vol
a. non-hazardous / non-hazardous / regulated liquids		No. 1	Type MB	55 G
b.				
c.				
d.				
D. Additional Descriptions for Materials Listed Above		E. Handling Codes for Wastes Listed Above		
Disposal				
15. Special Handling Instructions and Additional Information EMERGENCY PHONE # 631-586-5900				
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.				
Printed/Typed Name Mike Abblatone		Signature <i>[Signature]</i>		Month Day Year 12/27/12
17. Transporter 1 Acknowledgement of Receipt of Materials		Signature <i>[Signature]</i>		Month Day Year 12/27/12
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature		Month Day Year
19. Discrepancy Indication Space				
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.				
Printed/Typed Name		Signature		Month Day Year

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Doc. No.

2. Page 1
of

51344

3. Generator's Name and Mailing Address

745 D.C. (C-2)
625 Broadway

4. Generator's Phone ()

718-694-0400

5. Transporter 1 Company Name

AARCO ENVIRONMENTAL SERVICES CORP.

6.

US EPA ID Number

N Y R 0 0 0 1 0 7 3 2 6

A. Transporter's Phone

631-586-5900

7. Transporter 2 Company Name

8.

US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Chlor-Alkali
110 N. 2nd St.
Boca Raton, FL

10.

US EPA ID Number

C. Facility's Phone

11. Waste Shipping Name and Description

a. 100% / 100% / 100% / 100%
D / 100% Solids

12. Containers

No.

Type

13.
Total
Quantity

14.
Unit
Wt/Vol

2

Drum

300

1A

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

a) P.P.E

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

EMERGENCY PHONE # 631-586-5900

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Signature

Month Day Year

Michael J. ...

[Signature]

11 11 12

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

W. J. ...

[Signature]

10 10 12

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

GENERATOR'S COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Doc. No.
51325

2. Page 1
of 1

3. Generator's Name and Mailing Address

NYSDOC
605 Bleecker
Apt 107 N.Y.C.

4. Generator's Phone ()

10-767

5. Transporter 1 Company Name

AARCO ENVIRONMENTAL SERVICES CORP.

6. US EPA ID Number

N.Y.R. 0.0.0.1.0.7.3.2.6

A. Transporter's Phone

631-586-5900

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Chlor-Brook
920 W 11th St
Dover, Pa 17244

10. US EPA ID Number

C. Facility's Phone

631-586-0000

11. Waste Shipping Name and Description

a.

centrifuges PPE

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

P011B50001

E. Handling Codes for Wastes Listed Above

S01

15. Special Handling Instructions and Additional Information

EMERGENCY PHONE # 631-586-5900

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

X John B...

Signature

Month Day Year

10 30 13

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Don Sch...

Signature

Month Day Year

10 30 10

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

.

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

.

GENERATOR'S COPY

11-18-11

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No.

Manifest Doc. No.

2. Page 1
of 1

51385

3. Generator's Name and Mailing Address

NYS DEC (L-55)
635 Broadway
Albany NY

4. Generator's Phone ()

518 486 1114

5. Transporter 1 Company Name

AARCO ENVIRONMENTAL SERVICES CORP.

6. US EPA ID Number

N Y R 0 0 0 1 0 7 3 2 6

A. Transporter's Phone

631-586-5900

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

ICC Environmental Materials
200 E 22nd Street
Brooklyn NY 11202

10. US EPA ID Number

C. Facility's Phone

888 749 8344

11. Waste Shipping Name and Description

a. non-hazardous/non-regulated
HAZ/001/2012/Liquids.

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

a) Purple water.

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

EMERGENCY PHONE # 631-586-5900

PO# B50009

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Mr. John Bono UPS
NYS DEC

Signature

Month Day Year

09 30 11

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

D. Schmitt

Signature

Month Day Year

09 30 11

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

09 30 11

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

09 30 11

GENERATOR'S COPY

APPENDIX L

WELL DECOMMISSIONING RECORDS

FIGURE 3
WELL DECOMMISSIONING RECORD

Site Name: <u>Former Kline Cosmo Cleaners Site</u>	Well I.D.: <u>DEC-006</u>
Site Location: <u>Brooklyn, NY</u>	Driller: <u>J. McGill</u>
Drilling Co.: <u>AQUIFER DRILLING & TESTING</u>	Inspector: <u>S. McCabe</u>
Date: <u>3-16-2012</u>	

DECOMMISSIONING DATA (Fill in all that apply)	WELL SCHEMATIC*
<u>OVERDRILLING</u> Interval Drilled <input style="width: 100px; height: 20px;" type="text"/> Drilling Method(s) <input style="width: 100px; height: 20px;" type="text"/> Borehole Dia. (in.) <input style="width: 100px; height: 20px;" type="text"/> Temporary Casing Installed? (y/n) <input style="width: 100px; height: 20px;" type="text"/> Depth temporary casing installed <input style="width: 100px; height: 20px;" type="text"/> Casing type/dia. (in.) <input style="width: 100px; height: 20px;" type="text"/> Method of installing <input style="width: 100px; height: 20px;" type="text"/>	<div style="display: flex;"> <div style="flex: 1;"> Depth (feet) </div> <div style="flex: 2;"> </div> </div>
<u>CASING PULLING</u> Method employed <input style="width: 100px; height: 20px;" type="text"/> Casing retrieved (feet) <input style="width: 100px; height: 20px;" type="text"/> Casing type/dia. (in.) <input style="width: 100px; height: 20px;" type="text"/>	
<u>CASING PERFORATING</u> Equipment used <input style="width: 100px; height: 20px;" type="text"/> Number of perforations/foot <input style="width: 100px; height: 20px;" type="text"/> Size of perforations <input style="width: 100px; height: 20px;" type="text"/> Interval perforated <input style="width: 100px; height: 20px;" type="text"/>	
<u>GROUTING</u> Interval grouted (FBLs) <input style="width: 100px; height: 20px;" type="text"/> # of batches prepared <input style="width: 100px; height: 20px;" type="text"/> For each batch record: Quantity of water used (gal.) <input style="width: 100px; height: 20px;" type="text"/> Quantity of cement used (lbs.) <input style="width: 100px; height: 20px;" type="text"/> Cement type <input style="width: 100px; height: 20px;" type="text"/> Quantity of bentonite used (lbs.) <input style="width: 100px; height: 20px;" type="text"/> Quantity of calcium chloride used (lbs.) <input style="width: 100px; height: 20px;" type="text"/> Volume of grout prepared (gal.) <input style="width: 100px; height: 20px;" type="text"/> Volume of grout used (gal.) <input style="width: 100px; height: 20px;" type="text"/>	

COMMENTS: Well sealed in place. Could not pull.
USED BENTONITE TO SEAL DUE TO SANDY NATURE
OF FORMATION AND PROXIMITY TO
REPLACEMENT WELL.

* Sketch in all relevant decommissioning data, including:
interval overdrilled, interval grouted, casing left in hole,
well stickup, etc.

Drilling Contractor _____

Department Representative

FIGURE 3

WELL DECOMMISSIONING RECORD

Site Name: <u>Former Klink Cosme Cleaners Site</u>	Well I.D.: <u>DEC-014</u>
Site Location: <u>Brooklyn, NY</u>	Driller: <u>J. McGill</u>
Drilling Co.: <u>AQUIFER Drilling & Testing</u>	Inspector: <u>S. McCabe</u>
	Date: <u>3-16-2012</u>

DECOMMISSIONING DATA (Fill in all that apply)		WELL SCHEMATIC*	
<u>OVERDRILLING</u>			
Interval Drilled		Depth (feet)	
Drilling Method(s)			
Borehole Dia. (in.)			
Temporary Casing Installed? (y/n)			
Depth temporary casing installed			
Casing type/dia. (in.)			
Method of installing			
<u>CASING PULLING</u>			
Method employed	<u>Winch</u>		
Casing retrieved (feet)	<u>42.1'</u>		
Casing type/dia. (in.)	<u>2</u>		
<u>CASING PERFORATING</u>			
Equipment used			
Number of perforations/foot			
Size of perforations			
Interval perforated			
<u>GROUTING</u>			
Interval grouted (FBLs)			
# of batches prepared			
For each batch record:			
Quantity of water used (gal.)			
Quantity of cement used (lbs.)			
Cement type			
Quantity of bentonite used (lbs.)			
Quantity of calcium chloride used (lbs.)			
Volume of grout prepared (gal.)			
Volume of grout used (gal.)			

COMMENTS: Pull well string with Rig. Backfill
Well hole with BENTONITE. Grout NOT USED DUE
TO SANDY FORMATION and proximity TO
Replacement well.

* Sketch in all relevant decommissioning data, including:
 interval overdrilled, interval grouted, casing left in hole,
 well stickup, etc.

Drilling Contractor

S. McCabe
 Department Representative

WELL DECOMMISSIONING RECORD

DECOMMISSIONING DATA (Fill in all that apply)		WELL SCHEMATIC*	
OVERDRILLING		Depth (feet)	
Interval Drilled			
Drilling Method(s)			
Borehole Dia. (in.)			
Temporary Casing Installed? (y/n)			
Depth temporary casing installed		10	
Casing type/dia. (in.)			
Method of installing			
CASING PULLING			
Method employed		20	
Casing retrieved (feet)			
Casing type/dia. (in)			
CASING PERFORATING			
Equipment used		34	
Number of perforations/foot			
Size of perforations			
Interval perforated			
GROUTING		40	
Interval grouted (FBLs)			
# of batches prepared			
For each batch record:			
Quantity of water used (gal.)			
Quantity of cement used (lbs.)			
Cement type			
Quantity of bentonite used (lbs.)			
Quantity of calcium chloride used (lbs.)			
Volume of grout prepared (gal.)			
Volume of grout used (gal.)			

COMMENTS: Well sealed in place, could not pull. Used Bentonite to seal due to sandy formation and proximity to Replacement Well.

* Sketch in all relevant decommissioning data, including:
interval overdrilled, interval grouted, casing left in hole,
well stickup, etc.

Drilling Contractor


Department Representative

APPENDIX M

SURVEY FIELD NOTES AND SITE SKETCHES

WEEKER AVE.

QUEENS, NY

MARCH 15, 2011 - MARCH 16, 2011

N. TAPP / K. FREARS

FILIMORE SLA ROBOTIC T.S.

NYSPL LONG ISLAND

NAD 33 / NAD 33

35° SUN

3/18/11

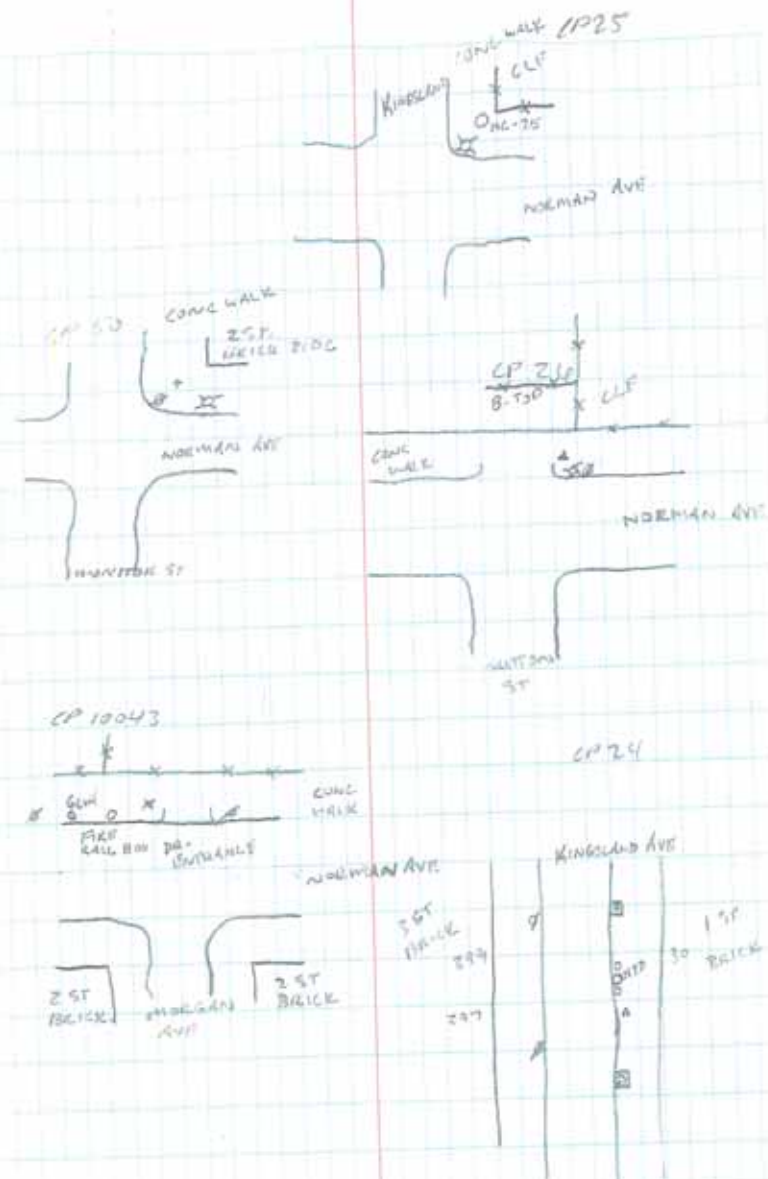
NT/RF
5/6

T 0.25 R 0.50

H= 5.5' R= 6.0'

R= CHILL (4) - 2.0' (4) - 0.02

PT #	DEIC		
10000	MW 580	10021	SSB 6
10001	MW 585	10022	SSB 7
10002	CENTER OF A 6'x6' TREE	10023	SSB 8
10003	"	10024	SSB 4
10004	"	10025	SSB 7
10005	"	10026	SSB 9
10006	MW 540	10027	SSB 2
10007	CENTER OF TREE	10028	SSB 5
10008	MW 540	10029	MW 250
10009	MW 540	10030	MW 250
10010	SG 65	10031	SG 71
10011	MW 570	10032	TRUTH BOX 6'x7'
10012	MW 570	10033	"
10013	MW 570	10034	"
10014	SG 67	10035	"
10015	SG 70	10036	"
10016	TRUTH BOX 4'x7'	10037	SG 5008
10017	"	10038	MW 470
10018	SSB 10	10039	MW 470
10019	SSB 8	10040	MW 200
10020	SSB 8	10041	MW 600
		10042	MW 600
		10043	TRUTH BOX



350 sup		3/11/11		NT/RT	
A @ 50 B @ 20					
HC = 5.24 B = 6.00 R ₁ (HRC) = -0.24 (v) -0.05					
10041	SG 64				
10045	SG 66				
A @ 26 B @ 25					
HC = 5.36 B = 6.20 R ₁ (HRC) = 0.00 (v) -0.02					
10046	min 62 D	10048	SG 69		
10047	min 62 S	10049	SG 75		
A @ 10043 B @ 25					
HC = 5.32 B = 6.00 R ₁ (HRC) = 0.00 (v) -0.02					
10050	SG 72	10051	SG 74		
A @ 24 B @ 25					
HC = 5.34 B = 6.00 R ₁ (HRC) = 0.00 (v) -0.03					
10052	TRUE Box 6'x0'	10061	THRESHOLD 5'x5'		
10053	" " " "	10062	" " 5'x7'		
10054	" " 5'x7'	10063	" " 5'x6'		
10055	" " " "	10064	" " 4'x5'		
10056	" " 4'x5'	10065	" " 4'x6'		
10057	SG 74	10066	" " 6'x6'		
10058	SG 77				
10059	SG 73				
10060	TRUE Box 4'x6'				

	DIE	GR EL.	RISE EL.
25D	.84	21.76	22.92
36D	.93	20.21	17.28
54D	.53	18.66 18.67	18.13 18.14
57D	.18	19.74	19.56
58S	.26	18.98 17.98	17.72 18.72
53D	.35	18.97 17.97	18.62
59S	.44	19.14	18.70
59D	.83	19.17	18.29
60S	.24	18.53	19.29
60D	.32	19.57	18.75
61S	.84	21.15	20.31
61D	.37	21.28	20.91
62S	.23	23.13	22.90
62D	.18	22.94	22.76
63S	.54	21.17	20.65
63D	.40	21.20	20.30

YORKIN

3/14/11

NT/RE

"MILNER 3 1/4 1/2 1/2"

K@ NC33 B@ NC39

HX 5.45 B@ 6.00

B@ CHECK (N) (V)

PT.#

DESC

SET PK @ RICHMOND & DENEVOISE

10067

10068/10075

T@ 100

10077

SET PK @ DIVISION PL & DENEVOISE AVE

SET PK @ SW COR

10030

BEARDELL & DENEVOISE

NPS DOT SURVEY DISC @ NW COR RICHMOND & DENEVOISE

10031

K@ 10067 B@ NC33

HX 5.27 B@ 6.00 B@ CHECK (N) 0.03 (V) 0.04

10032

10033/10034

T@ 100

SET PK @ SW COR UP

10035

RICHMOND & DENEVOISE AVE

K@ 10035 B@ 10067

HX 5.35 B@ 6.00 B@ CHECK (N) 0.02 (V) 0.04

10036

10037/10038

T@ 100

SET PK @ SW COR UP

RICHMOND & HINGSLAND

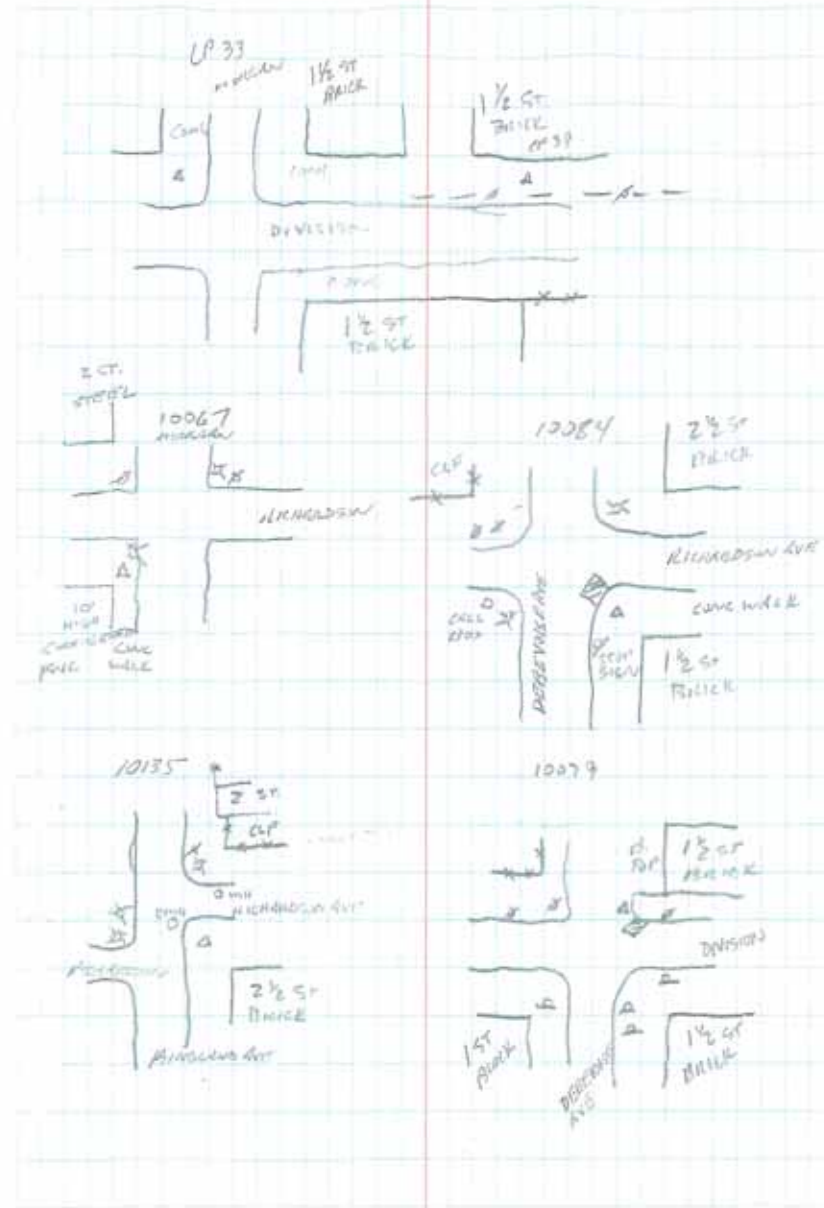
K@ 10035 B@ 10035

HX 5.33 B@ 7.00 B@ CHECK (N) 0.03 (V) 0.04

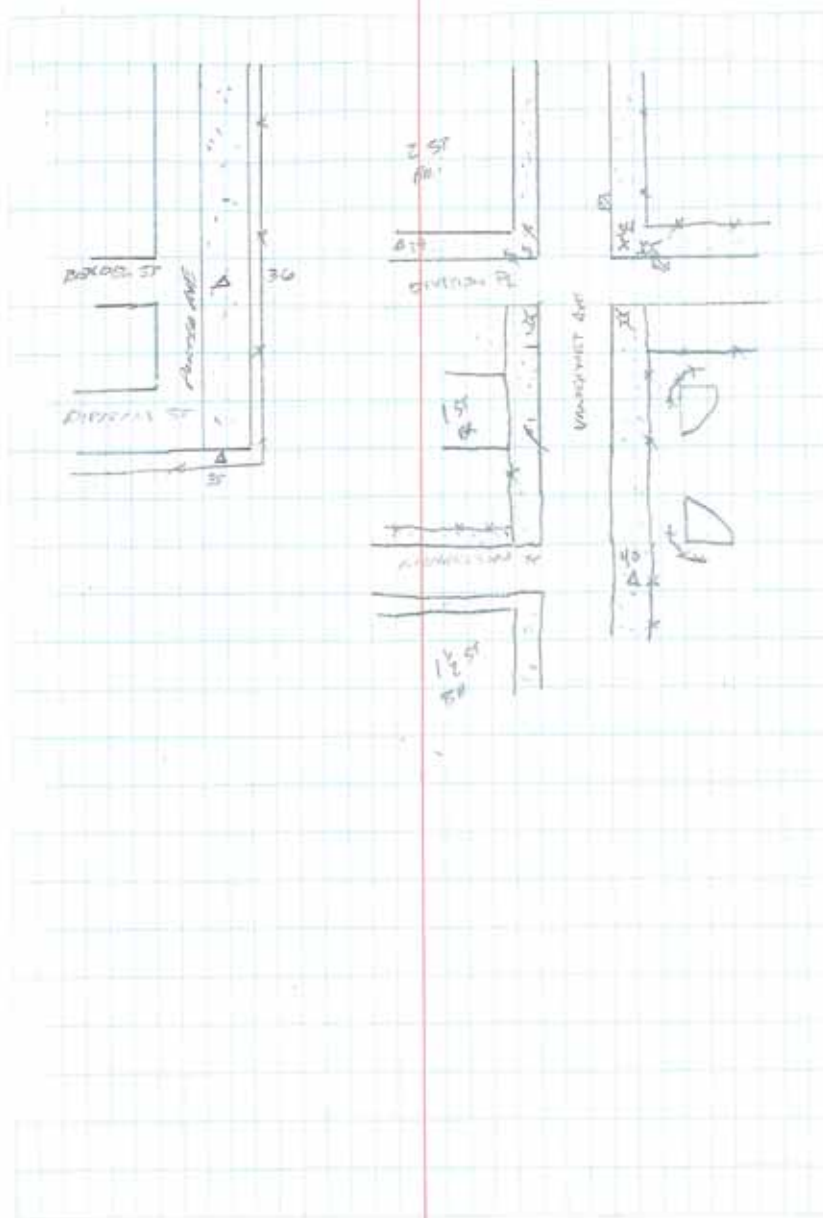
10039

10040/10041

T@ 100

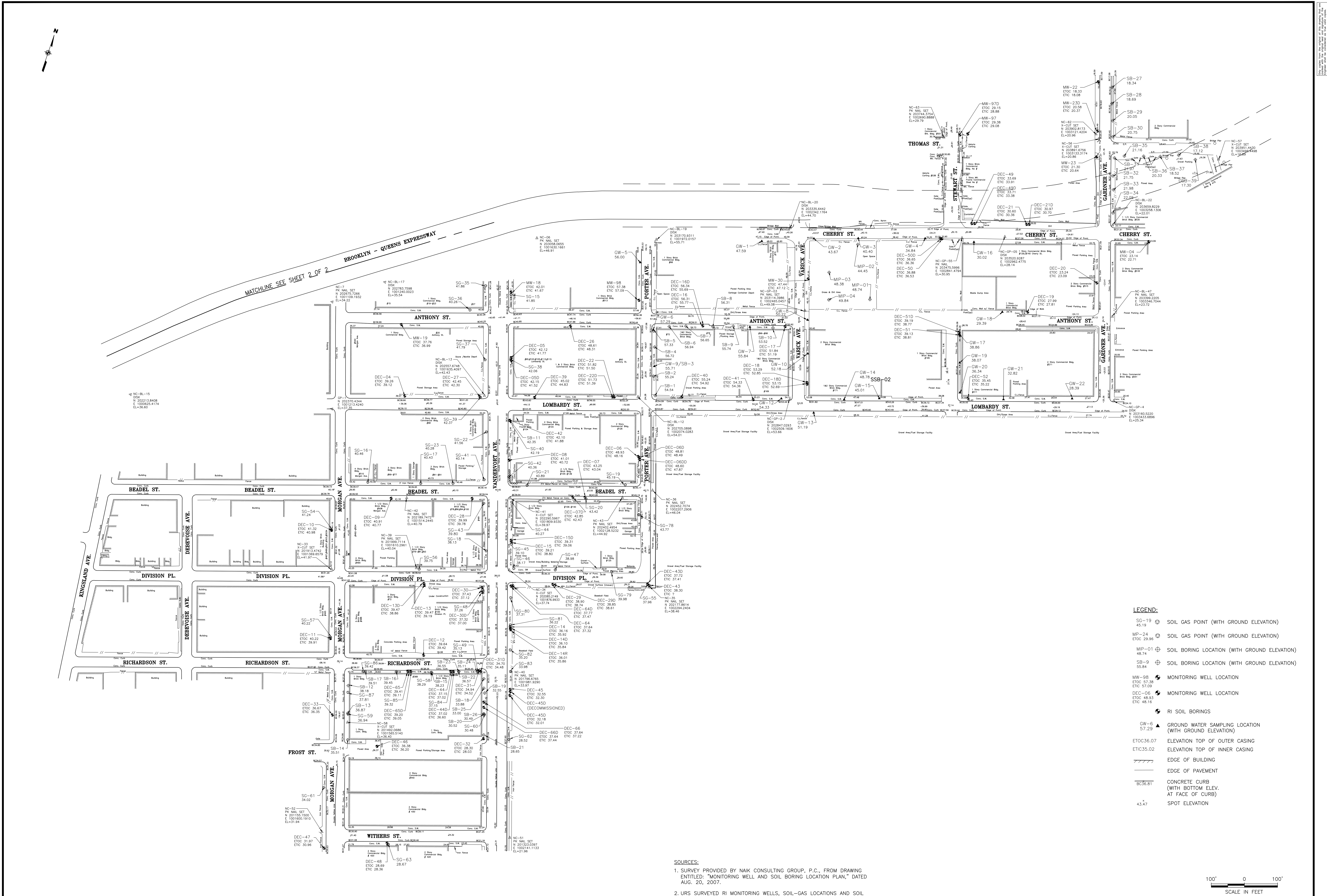


10					
78/1011		6/8/11		NT/AF	
		"MEERK 6-8-11. DC"		50	
	TR 30	BS 35			
	HS-	BS-6.00	BS (HSEK=4)	0.2 (4) - 0.2	
PT #	DSK				
10350	43 D				
10351	DEG 43				
10352	SG 73				
10353	7D				
10354	62D				
	TR 34	BS 39			
	HS-5.41	BS-6.00	BS (HSEK=4)	0.2 (4) - 0.2	
10355	1SD	10361	13D	10367	SG 5
10356	SG 79	10362	0.80	10368	4SD
10357	29D	10363	SG 81	10369	407
10358	64D	10364	114D	10370	0.2
10359	64	10365	14R	10371	SG
10360	300	10366	SG 82		
	TR 10467	BS 43		10372	
	HS-5.27	BS-6.00	BS (HSEK=4)	0.2 (4) - 0.2	
103672	SG 87	103676	65D		
103677	SG 86	103677	SG 84		
103674	SG 85	103675	114D		
103675	65				



APPENDIX N

SURVEY DRAWINGS



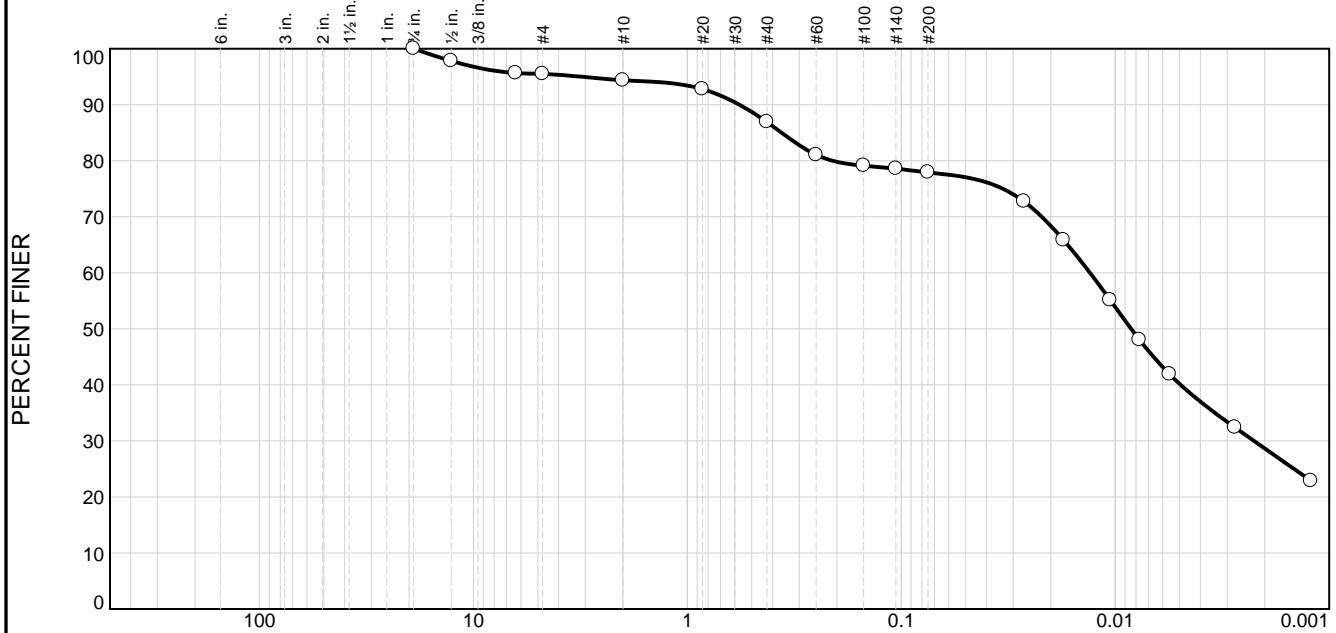
<p>WARNING: IF IN VIOLATION OF SECTION 2209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW, ANY PERSON WHOSE NAME APPEARS ON THIS DRAWING IS ALLEGED TO HAVE BEEN AWARE OF THE VIOLATION OF THE LAW AND YET DID NOT REPORT THE SAME TO THE STATE EDUCATION DEPARTMENT. ANY PERSON WHOSE NAME APPEARS ON THIS DRAWING IS ALLEGED TO HAVE BEEN AWARE OF THE VIOLATION OF THE LAW AND YET DID NOT REPORT THE SAME TO THE STATE EDUCATION DEPARTMENT. ANY PERSON WHOSE NAME APPEARS ON THIS DRAWING IS ALLEGED TO HAVE BEEN AWARE OF THE VIOLATION OF THE LAW AND YET DID NOT REPORT THE SAME TO THE STATE EDUCATION DEPARTMENT.</p>										<p>DESIGNED BY: _____</p> <p>DRAWN BY: <u>RAL</u></p> <p>CHECKED BY: <u>AMM</u></p> <p>PROJ. ENGR. <u>MC</u></p>										<p>URS Corporation New York 640 Elliott Street, Buffalo, New York 14203 716/855-5636 - 716/856-2345 fax</p>										<p>FORMER KLING COSMO SITE</p>										<p>REMEDIAL INVESTIGATION</p>										<p>SURVEY (SHEET 1 OF 2)</p>									
<p>NO. MADE BY APPROVED BY DATE</p>										<p>DESCRIPTION</p>										<p>JOB NO. 11176390</p>										<p>GREENPOINT, KINGS COUNTY CITY OF NEW YORK</p>										<p>Scale: AS SHOWN Date: JULY 2011</p>										<p>APPENDIX N</p>									
<p>REVISIONS</p>																																																											

APPENDIX O

GEOTECHNICAL LABORATORY TESTING RESULTS

RI PHASE I

Particle Size Distribution Report



GRAIN SIZE - mm.

% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	4.5	1.1	7.5	9.0	37.7	40.2

TEST RESULTS (ASTM D 422)			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
.75	100.0		
.5	97.8		
.25	95.7		
#4	95.5		
#10	94.4		
#20	92.8		
#40	86.9		
#60	81.0		
#100	79.1		
#140	78.6		
#200	77.9		
0.0267 mm.	72.7		
0.0175 mm.	65.9		
0.0106 mm.	55.2		
0.0077 mm.	48.0		
0.0056 mm.	41.9		
0.0028 mm.	32.4		
0.0012 mm.	22.9		

* (no specification provided)

Material Description

ID#11-260
Fat clay with sand

Atterberg Limits (ASTM D 4318)

PL= 25 LL= 52 PI= 27

Classification

USCS (D 2487)= CH AASHTO (M 145)= A-7-6(22)

Coefficients

D₉₀= 0.5713 D₈₅= 0.3624 D₆₀= 0.0131
D₅₀= 0.0084 D₃₀= 0.0022 D₁₅=
D₁₀= C_u= C_c=

Remarks

Date Received: 7/8/11

Date Tested: 8/2/11

Tested By: RP

Checked By: JMA

Title: LM

Source of Sample: Klink Cosmo Cleaners
Sample Number: DEC-029D

Depth: 84-84.5'

Date Sampled:

3rd Rock, LLC

Client: URS

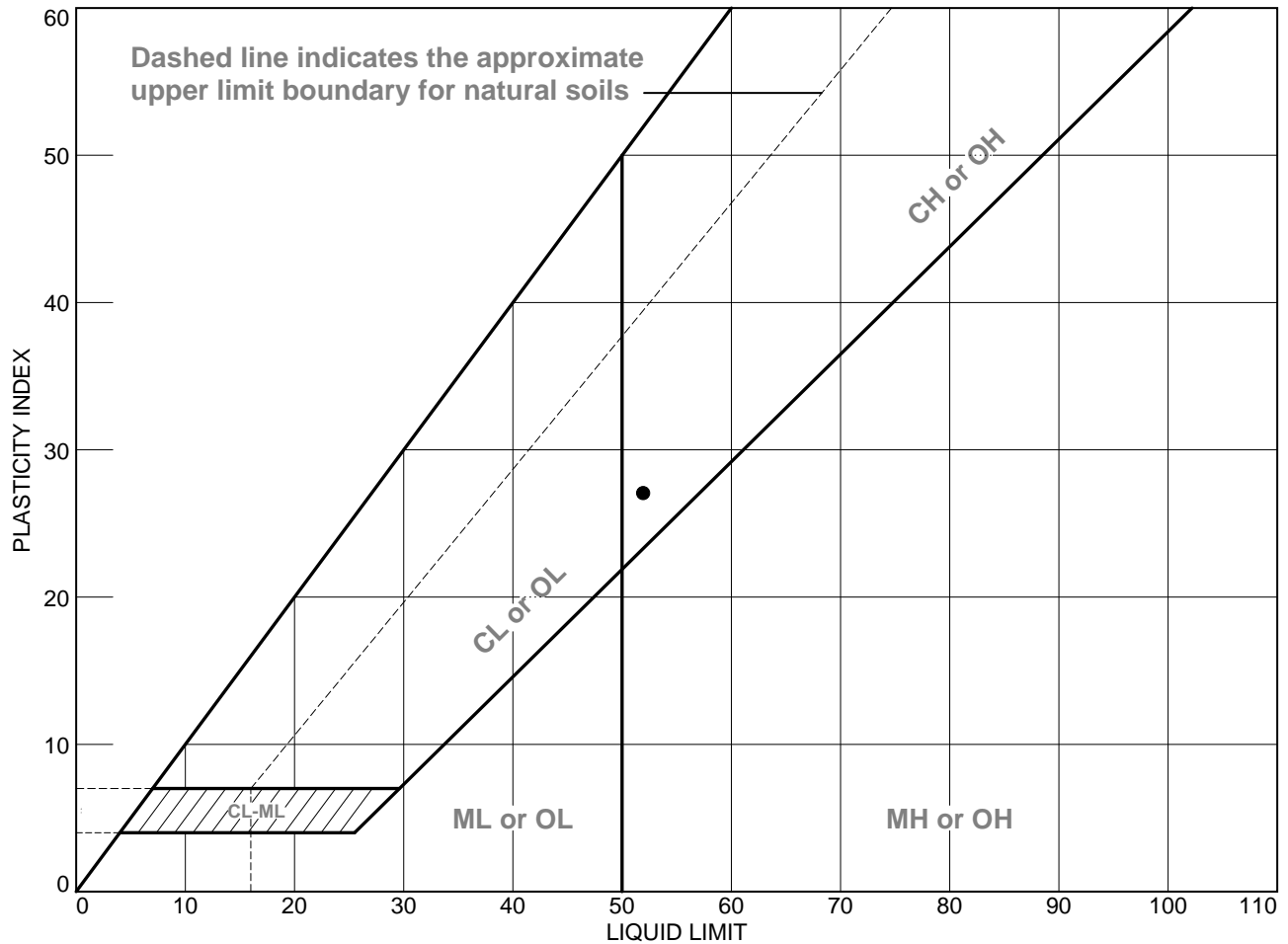
Project: Former Klink Cosmo Cleaners

East Aurora, NY

Project No: 11-010

Figure

LIQUID AND PLASTIC LIMITS TEST REPORT



SOIL DATA								
SYMBOL	SOURCE	SAMPLE NO.	DEPTH	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
●	Klink Cosmo Cleaners	DEC-029D	84-84.5'		25	52	27	CH

3rd Rock, LLC

East Aurora, NY

Client: URS

Project: Former Klink Cosmo Cleaners

Project No.: 11-010

Figure

Tested By: RP 8/11/11

Checked By: JMA



FINAL PERMEABILITY REPORT

Project Name: Former Klink Cosmo Cleaners, URS

Project No.: 11-010

Sample No.: DEC-029D, 84-84.5'

Sample I.D.: 11-260

Laboratory Method: ASTM D5084, Method C

Comments: None

Date: 08/11/11

Tested By: RP

Check By: JMA

Date of Test: 07/20/11

Date Test Complete: 07/26/11

CELL NO.: 3

INITIAL SAMPLE DATA:

Height, in.: 2.606

Diameter, in.: 2.816

Moisture Content, %: 34.20

Wet Density, pcf: 116.2

Dry Density, pcf: 86.6

Compaction, % NA

FINAL SAMPLE DATA:

Height, in.: 2.542

Diameter, in.: 2.815

Moisture Content, %: 35.20

Wet Density, pcf: 119.0

Dry Density, pcf: 88.0

SATURATION AND CONSOLIDATION DATA:

Consolidation Pressure: 86 psi

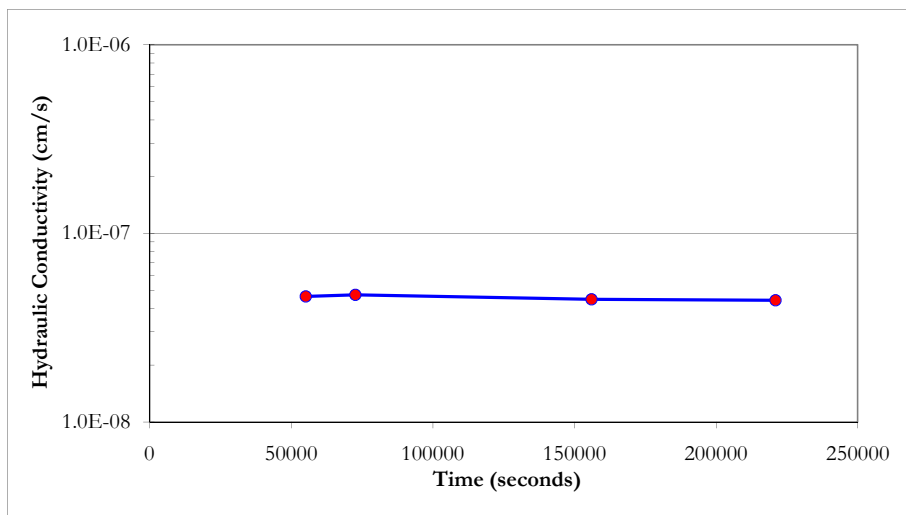
Backpressure: 80 psi

Saturation (B parameter): 98%

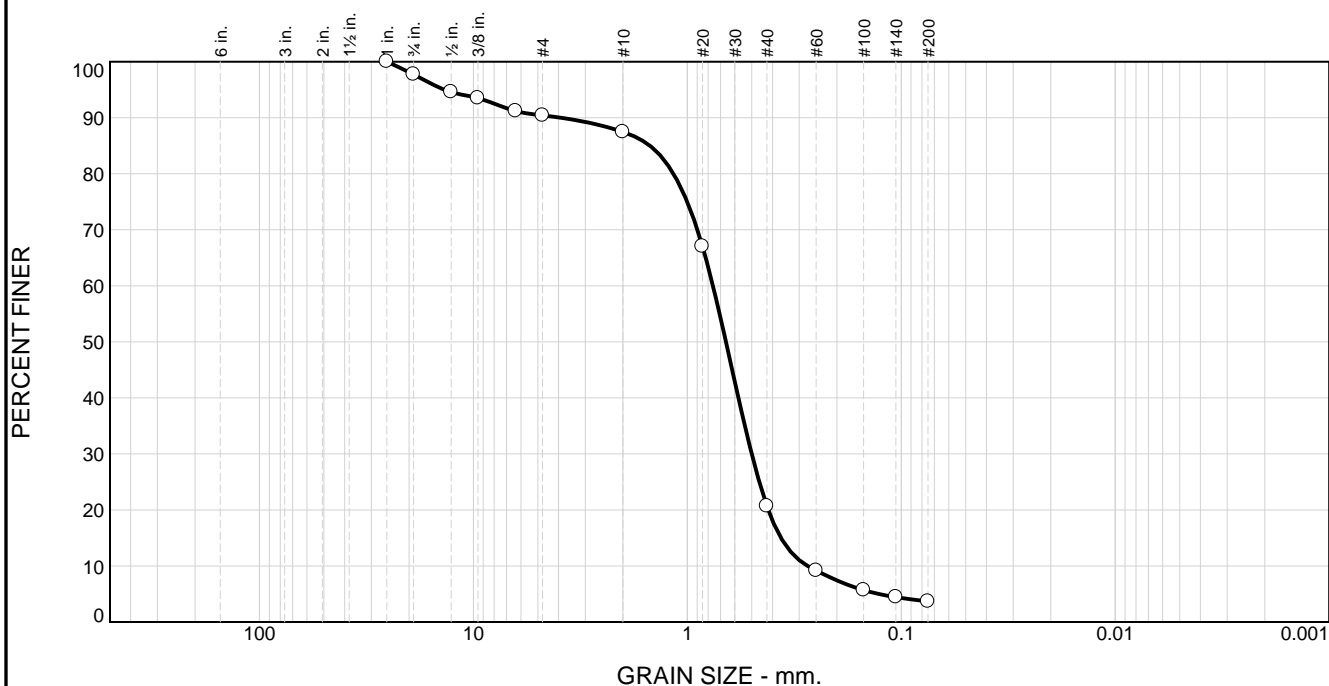
AVERAGE PERMEABILITY RESULT (average of last 4 readings, K, cm/s):

Trial #	Testing Pressures (psi)			Q (ml/sec)	Final K (cm/s)
	1	2	3		
1	86.1	80.5	80	1.01E-05	4.6E-08
2	86.1	80.5	80	1.03E-05	4.7E-08
3	86.1	80.5	80	9.77E-06	4.5E-08
4	86.1	80.45	80	8.70E-06	4.4E-08

Average K	4.6E-08
Average K, ft/day	1.3E-04



Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	2.3	7.3	2.9	66.8	17.0	3.7	

TEST RESULTS (ASTM D6913)			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
1	100.0		
.75	97.7		
.5	94.6		
.375	93.5		
.25	91.2		
#4	90.4		
#10	87.5		
#20	67.1		
#40	20.7		
#60	9.2		
#100	5.7		
#140	4.4		
#200	3.7		

* (no specification provided)

Material Description		
ID#11-263 Poorly graded sand		
Atterberg Limits (ASTM D 4318)		
PL=	LL=	PI=
Classification		
USCS (D 2487)= SP	AASHTO (M 145)=	
Coefficients		
D ₉₀ = 3.9284	D ₈₅ = 1.4959	D ₆₀ = 0.7596
D ₅₀ = 0.6603	D ₃₀ = 0.5002	D ₁₅ = 0.3650
D ₁₀ = 0.2742	C _u = 2.77	C _c = 1.20
Remarks		
Date Received: 7/8/11 Date Tested: 7/26/11		
Tested By: RP		
Checked By: JMA		
Title: LM		

Source of Sample: Klink Cosmo Cleaners
Sample Number: DEC-044D

Depth: 50-51'

Date Sampled:

3rd Rock, LLC

Client: URS

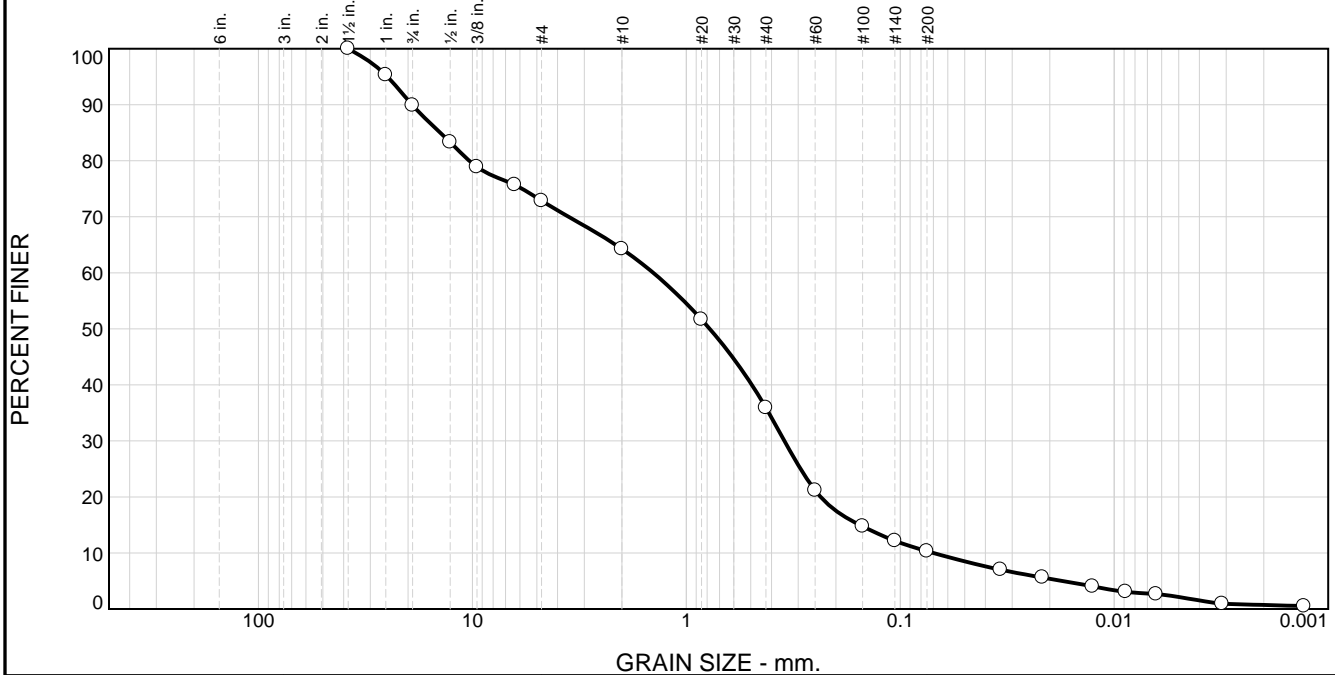
Project: Former Klink Cosmo Cleaners

East Aurora, NY

Project No: 11-010

Figure

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	10.1	17.0	8.6	28.4	25.6	8.2	2.1

TEST RESULTS (ASTM D 422)			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
1.5	100.0		
1	95.3		
.75	89.9		
.5	83.3		
.375	78.9		
.25	75.7		
#4	72.9		
#10	64.3		
#20	51.7		
#40	35.9		
#60	21.2		
#100	14.8		
#140	12.2		
#200	10.3		
0.0340 mm.	7.0		
0.0217 mm.	5.6		
0.0126 mm.	4.0		
0.0088 mm.	3.1		
0.0064 mm.	2.7		
0.0031 mm.	0.9		
0.0013 mm.	0.5		

* (no specification provided)

Material Description

ID#11-264

Well-graded sand with silt and gravel

Atterberg Limits (ASTM D 4318)

PL= NP

LL= NP

PI= NP

Classification

USCS (D 2487)= SW-SM AASHTO (M 145)= A-1-b

Coefficients

D₉₀= 19.1548

D₈₅= 14.1341

D₆₀= 1.4277

D₅₀= 0.7774

D₃₀= 0.3481

D₁₅= 0.1545

D₁₀= 0.0700

C_u= 20.39

C_c= 1.21

Remarks

Date Received: 7/8/11

Date Tested: 7/26/11

Tested By: RP

Checked By: JMA

Title: LM

Source of Sample: Klink Cosmo Cleaners
Sample Number: DEC-044D

Depth: 70-71'

Date Sampled:

3rd Rock, LLC

Client: URS

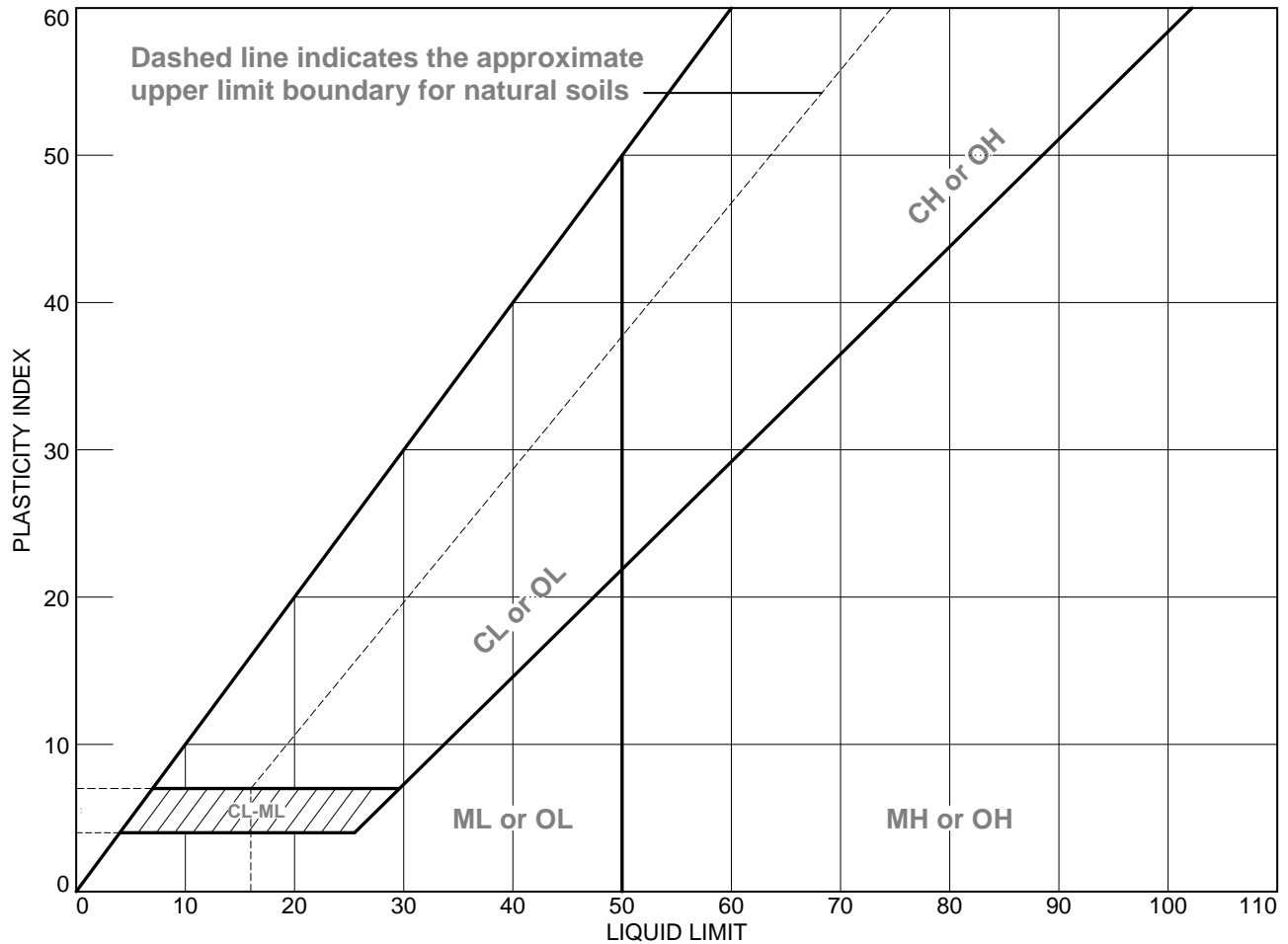
Project: Former Klink Cosmo Cleaners

East Aurora, NY

Project No: 11-010

Figure

LIQUID AND PLASTIC LIMITS TEST REPORT



SOIL DATA

SYMBOL	SOURCE	SAMPLE NO.	DEPTH	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
●	Klink Cosmo Cleaners	DEC-044D	70-71'		NP	NP	NP	SW-SM

3rd Rock, LLC

East Aurora, NY

Client: URS

Project: Former Klink Cosmo Cleaners

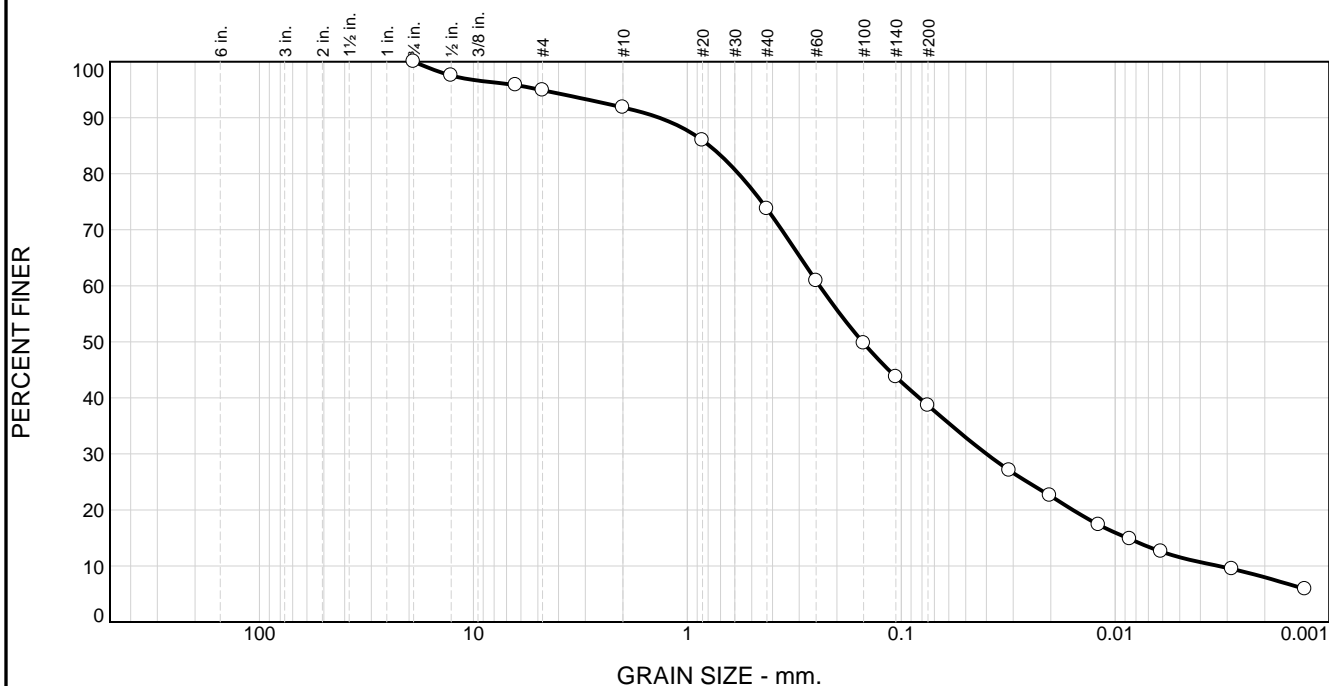
Project No.: 11-010

Figure

Tested By: RP/SD 8/11/11

Checked By: JMA

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	5.1	3.1	18.0	35.2	27.0	11.6

TEST RESULTS (ASTM D 422)			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
.75	100.0		
.5	97.5		
.25	95.8		
#4	94.9		
#10	91.8		
#20	86.0		
#40	73.8		
#60	60.9		
#100	49.8		
#140	43.7		
#200	38.6		
0.0313 mm.	27.1		
0.0202 mm.	22.6		
0.0120 mm.	17.4		
0.0086 mm.	14.8		
0.0061 mm.	12.6		
0.0028 mm.	9.5		
0.0013 mm.	5.9		

* (no specification provided)

Material Description

ID#11-261
Silty sand

Atterberg Limits (ASTM D 4318)

PL= 16 LL= 18 PI= 2

Classification

USCS (D 2487)= SM AASHTO (M 145)= A-4(0)

Coefficients

D₉₀= 1.3551 D₈₅= 0.7878 D₆₀= 0.2409
D₅₀= 0.1519 D₃₀= 0.0400 D₁₅= 0.0088
D₁₀= 0.0033 C_u= 73.13 C_c= 2.01

Remarks

Date Received: 7/8/11

Date Tested: 8/2/11

Tested By: RP

Checked By: JMA

Title: LM

Source of Sample: Klink Cosmo Cleaners
Sample Number: DEC-065D

Depth: 9-10'

Date Sampled:

3rd Rock, LLC

Client: URS

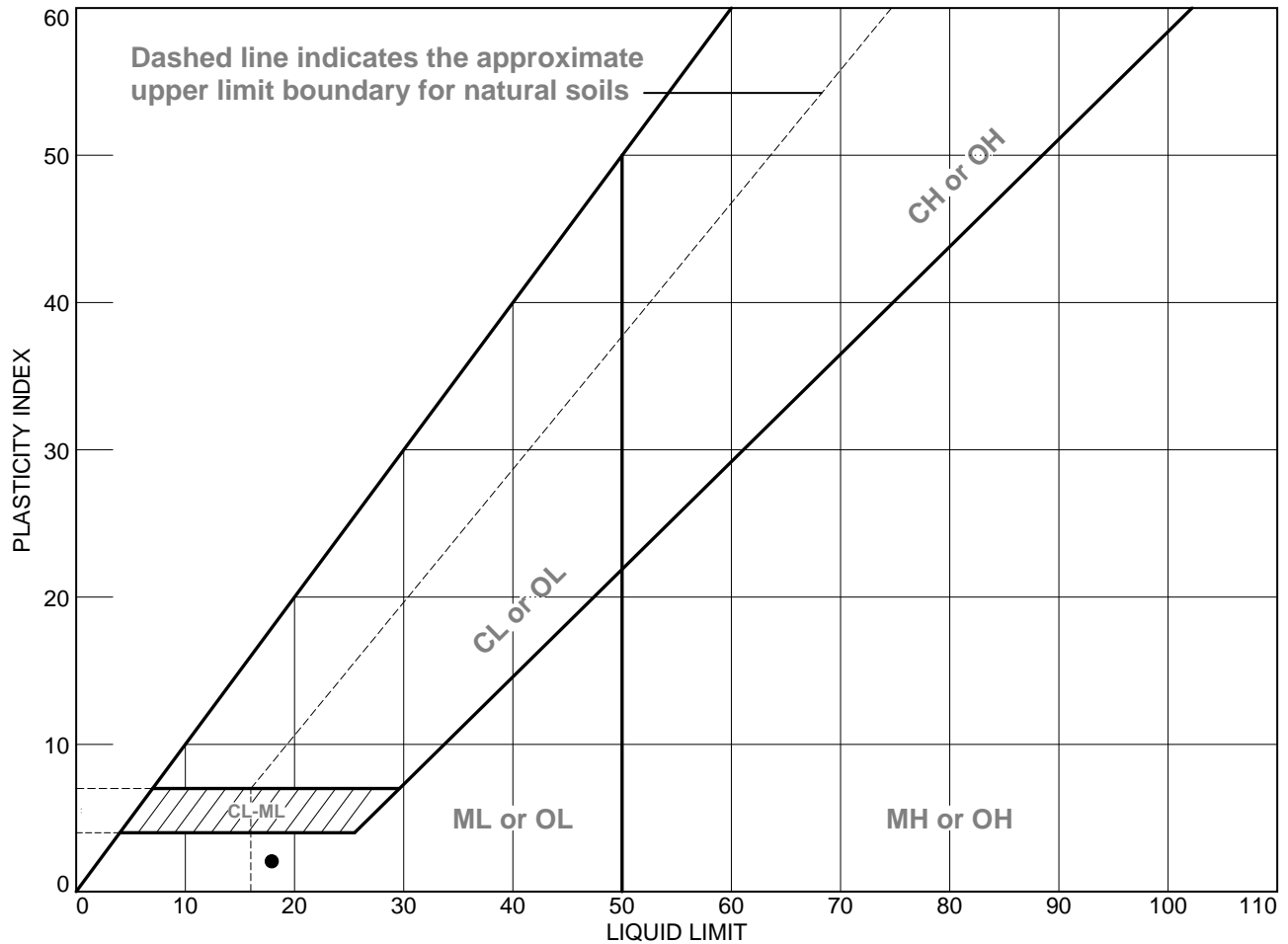
Project: Former Klink Cosmo Cleaners

East Aurora, NY

Project No: 11-010

Figure

LIQUID AND PLASTIC LIMITS TEST REPORT



SOIL DATA								
SYMBOL	SOURCE	SAMPLE NO.	DEPTH	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
●	Klink Cosmo Cleaners	DEC-065D	9-10'		16	18	2	SM

3rd Rock, LLC

East Aurora, NY

Client: URS

Project: Former Klink Cosmo Cleaners

Project No.: 11-010

Figure

Tested By: RP 8/11/11

Checked By: JMA



FINAL PERMEABILITY REPORT

Project Name: Former Klink Cosmo Cleaners, URS

Project No.: 11-010

Sample No.: DEC-065D, 9-10'

Sample I.D.: 11-261

Laboratory Method: ASTM D5084, Method C

Remarks: None

Date: 08/11/11

Tested By: RP

Check By: JMA

Date of Test: 07/20/11

Date Test Complete: 07/26/11

CELL NO.: 5A

INITIAL SAMPLE DATA:

Height, in.: 2.738

Diameter, in.: 2.803

Moisture Content, %: 10.50

Wet Density, pcf: 140.4

Dry Density, pcf: 127.1

Compaction, %: NA

FINAL SAMPLE DATA:

Height, in.: 2.684

Diameter, in.: 2.800

Moisture Content, %: 11.20

Wet Density, pcf: 144.5

Dry Density, pcf: 130.0

SATURATION AND CONSOLIDATION DATA:

Consolidation Pressure: 86 psi

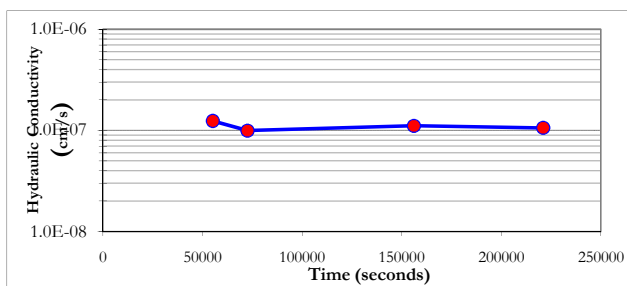
Backpressure: 80 psi

Saturation (B parameter): 95%

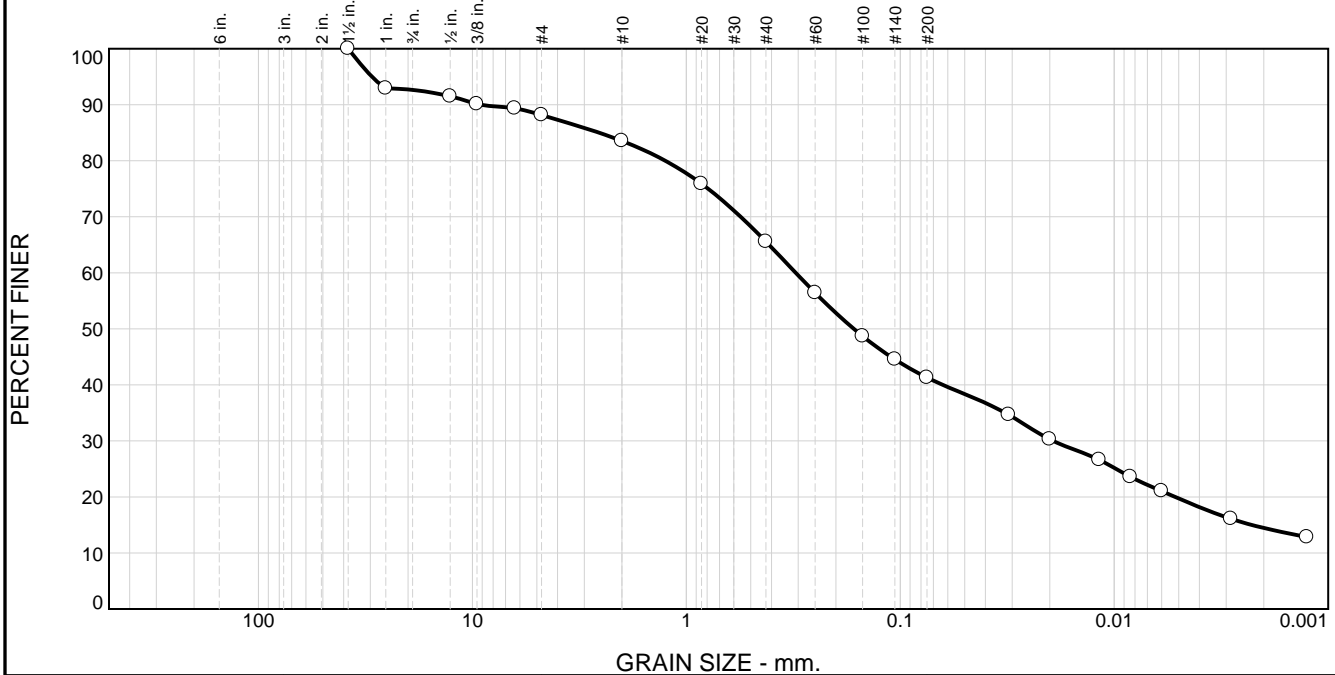
AVERAGE PERMEABILITY RESULT (average of last 4 readings, K, cm/s):

Trial #	Testing Pressures (psi)			Q (ml/sec)	Final K (cm/s)
	1	2	3		
1	86.1	80	80	1.49E-05	1.2E-07
2	86.1	80	80	1.12E-05	1.0E-07
3	86.1	80	80	1.17E-05	1.1E-07
4	86.1	80	80	1.00E-05	1.1E-07

Average K	1.1E-07
Average K , ft/day	3.1E-04



Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	7.4	4.5	4.6	17.9	24.3	21.6	19.7

TEST RESULTS (ASTM D 422)			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
1.5	100.0		
1	92.9		
.5	91.5		
.375	90.1		
.25	89.4		
#4	88.1		
#10	83.5		
#20	75.9		
#40	65.6		
#60	56.4		
#100	48.7		
#140	44.5		
#200	41.3		
0.0311 mm.	34.7		
0.0201 mm.	30.3		
0.0117 mm.	26.6		
0.0084 mm.	23.6		
0.0060 mm.	21.0		
0.0028 mm.	16.1		
0.0013 mm.	12.8		

* (no specification provided)

Material Description		
ID#11-262 Clayey sand		
Atterberg Limits (ASTM D 4318)		
PL= 20	LL= 30	PI= 10
Classification		
USCS (D 2487)= SC	AASHTO (M 145)= A-4(1)	
Coefficients		
D ₉₀ = 9.1671	D ₈₅ = 2.5575	D ₆₀ = 0.3081
D ₅₀ = 0.1651	D ₃₀ = 0.0193	D ₁₅ = 0.0023
D ₁₀ =	C _u =	C _c =
Remarks		
Date Received: 7/8/11 Date Tested: 8/2/11		
Tested By: RP		
Checked By: JMA		
Title: LM		

Source of Sample: Klink Cosmo Cleaners
Sample Number: DEC-065D

Depth: 14-15'

Date Sampled:

3rd Rock, LLC

Client: URS

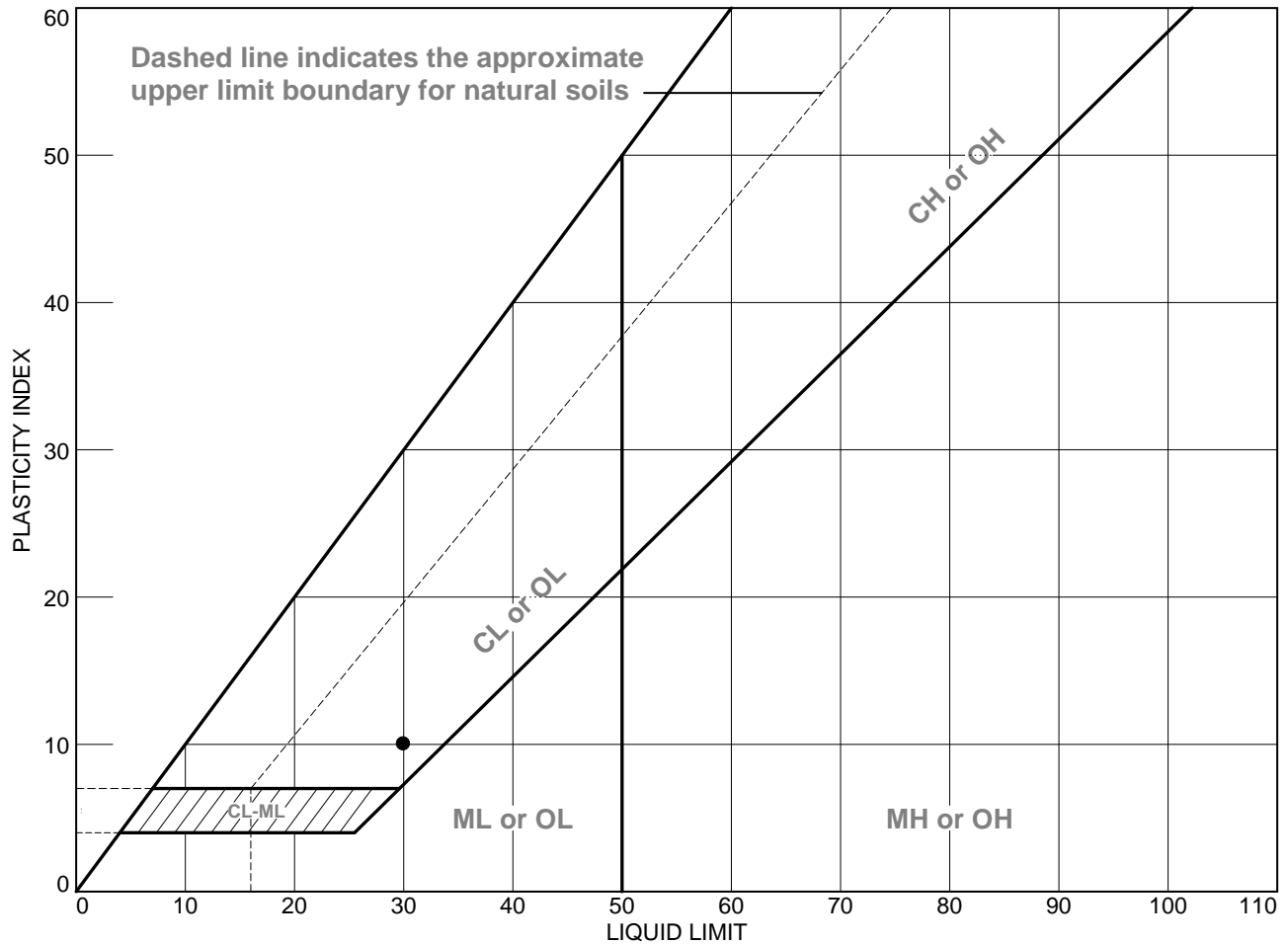
Project: Former Klink Cosmo Cleaners

East Aurora, NY

Project No: 11-010

Figure

LIQUID AND PLASTIC LIMITS TEST REPORT



SOIL DATA								
SYMBOL	SOURCE	SAMPLE NO.	DEPTH	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
●	Klink Cosmo Cleaners	DEC-065D	14-15'		20	30	10	SC

3rd Rock, LLC

East Aurora, NY

Client: URS

Project: Former Klink Cosmo Cleaners

Project No.: 11-010

Figure

Tested By: RP 8/11/11

Checked By: JMA



FINAL PERMEABILITY REPORT

Project Name: Former Klink Cosmo Cleaners, URS

Project No.: 11-010

Sample No.: DEC-065D, 14-15'

Sample I.D.: 11-262

Laboratory Method: ASTM D5084, Method C

Comments: None

Date: 08/11/11

Tested By: RP

Check By: JMA

Date of Test: 07/20/11

Date Test Complete: 07/26/11

CELL NO.: 5B

INITIAL SAMPLE DATA:

Height, in.: 2.291

Diameter, in.: 2.809

Moisture Content, %: 14.00

Wet Density, pcf: 139.1

Dry Density, pcf: 122.0

Compaction, % NA

FINAL SAMPLE DATA:

Height, in.: 2.283

Diameter, in.: 2.797

Moisture Content, %: 16.00

Wet Density, pcf: 142.2

Dry Density, pcf: 122.6

SATURATION AND CONSOLIDATION DATA:

Consolidation Pressure: 86 psi

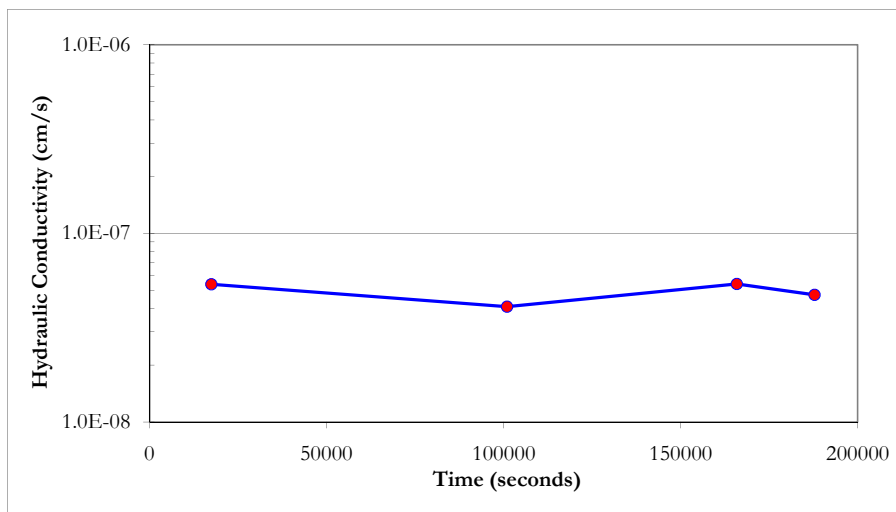
Backpressure: 80 psi

Saturation (B parameter): 96%

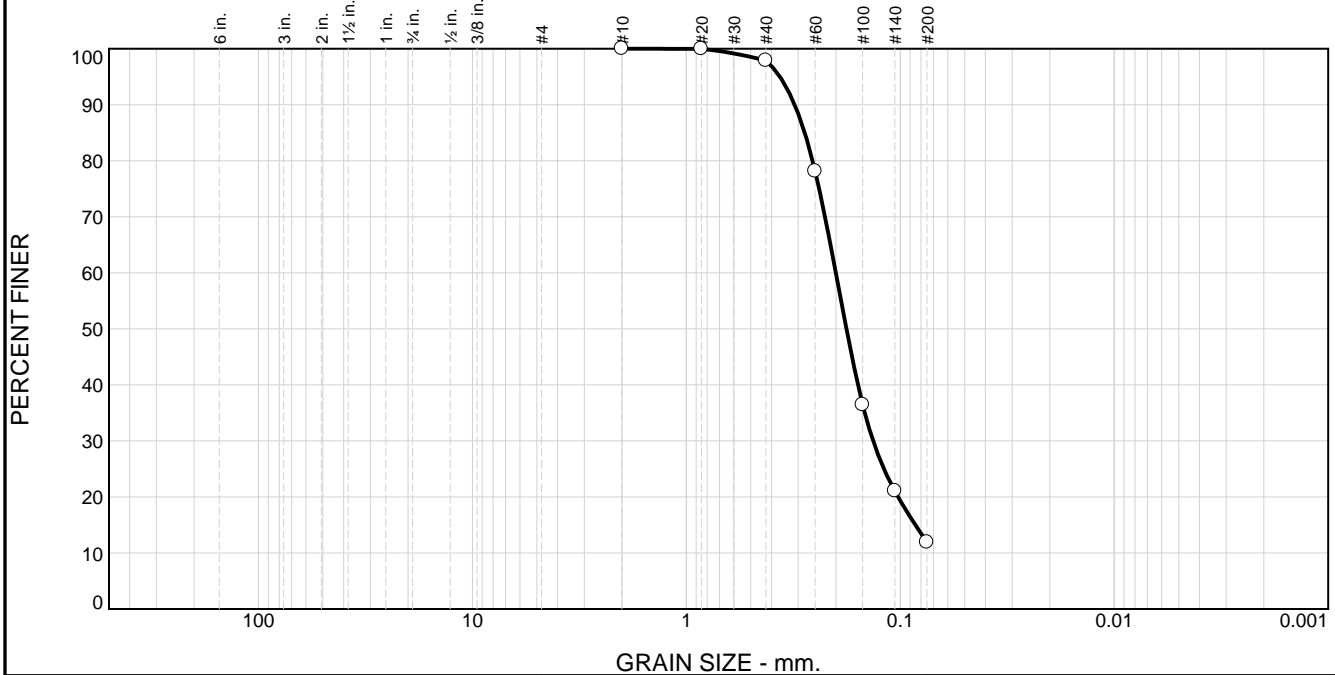
AVERAGE PERMEABILITY RESULT (average of last 4 readings, K, cm/s):

Trial #	Testing Pressures (psi)			Q (ml/sec)	Final K (cm/s)
	1	2	3		
1	86	80.4	80	1.03E-05	5.4E-08
2	86	80.5	80	9.83E-06	4.1E-08
3	86	80.3	80	7.78E-06	5.4E-08
4	86	80.3	80	6.81E-06	4.7E-08

Average K	4.9E-08
Average K, ft/day	1.4E-04



Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.0	2.1	86.0	11.9	

TEST RESULTS (ASTM D6913)			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
#10	100.0		
#20	100.0		
#40	97.9		
#60	78.1		
#100	36.4		
#140	21.0		
#200	11.9		

* (no specification provided)

Material Description		
ID#11-265 Poorly graded sand with silt USCS: SP-SM		
Atterberg Limits (ASTM D 4318)		
PL=	LL=	PI=
Classification		
USCS (D 2487)=	AASHTO (M 145)=	
Coefficients		
D ₉₀ = 0.3117	D ₈₅ = 0.2797	D ₆₀ = 0.2002
D ₅₀ = 0.1786	D ₃₀ = 0.1340	D ₁₅ = 0.0850
D ₁₀ =	C _u =	C _c =
Remarks		
Date Received: 7/8/11 Date Tested: 8/4/11		
Tested By: SD		
Checked By: JMA		
Title: LM		

Source of Sample: Klink Cosmo Cleaners
Sample Number: DEC-066D

Depth: 24-25'

Date Sampled:

3rd Rock, LLC

Client: URS

Project: Former Klink Cosmo Cleaners

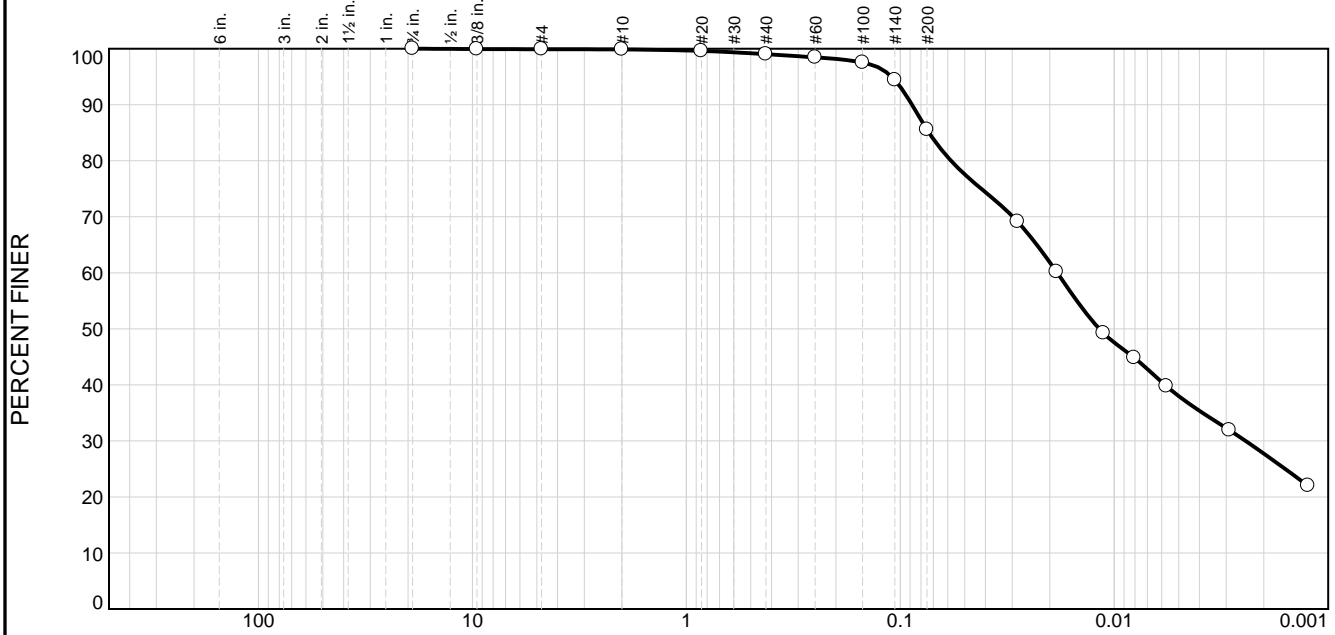
East Aurora, NY

Project No: 11-010

Figure

RI PHASE II

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.1	0.0	0.9	13.5	47.5	38.0

TEST RESULTS (ASTM D 422)			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
3/4"	100.0		
3/8"	99.9		
#4	99.9		
#10	99.9		
#20	99.6		
#40	99.0		
#60	98.4		
#100	97.5		
#140	94.4		
#200	85.5		
0.0283 mm.	69.1		
0.0186 mm.	60.2		
0.0112 mm.	49.2		
0.0081 mm.	44.8		
0.0057 mm.	39.8		
0.0029 mm.	31.9		
0.0012 mm.	22.0		

* (no specification provided)

Material Description	
ID#: 12-051 Black Lean Clay	
Atterberg Limits (ASTM D 4318)	
PL= 24	LL= 35 PI= 11
Classification	
USCS (D 2487)= CL	AASHTO (M 145)= A-6(10)
Coefficients	
D ₉₀ = 0.0882	D ₈₅ = 0.0734 D ₆₀ = 0.0185
D ₅₀ = 0.0117	D ₃₀ = 0.0024 D ₁₅ =
D ₁₀ =	C _u = C _c =
Remarks	
Shrinkage Limit: 14.7%	
Date Received: 4/5/12	Date Tested: 4/22/12
Tested By: MW	
Checked By: EA	
Title: CT	

Source of Sample: Klink Cosmo Cleaners
Sample Number: DEC-11D

Depth: 75-77'

Date Sampled:

3rd Rock, LLC

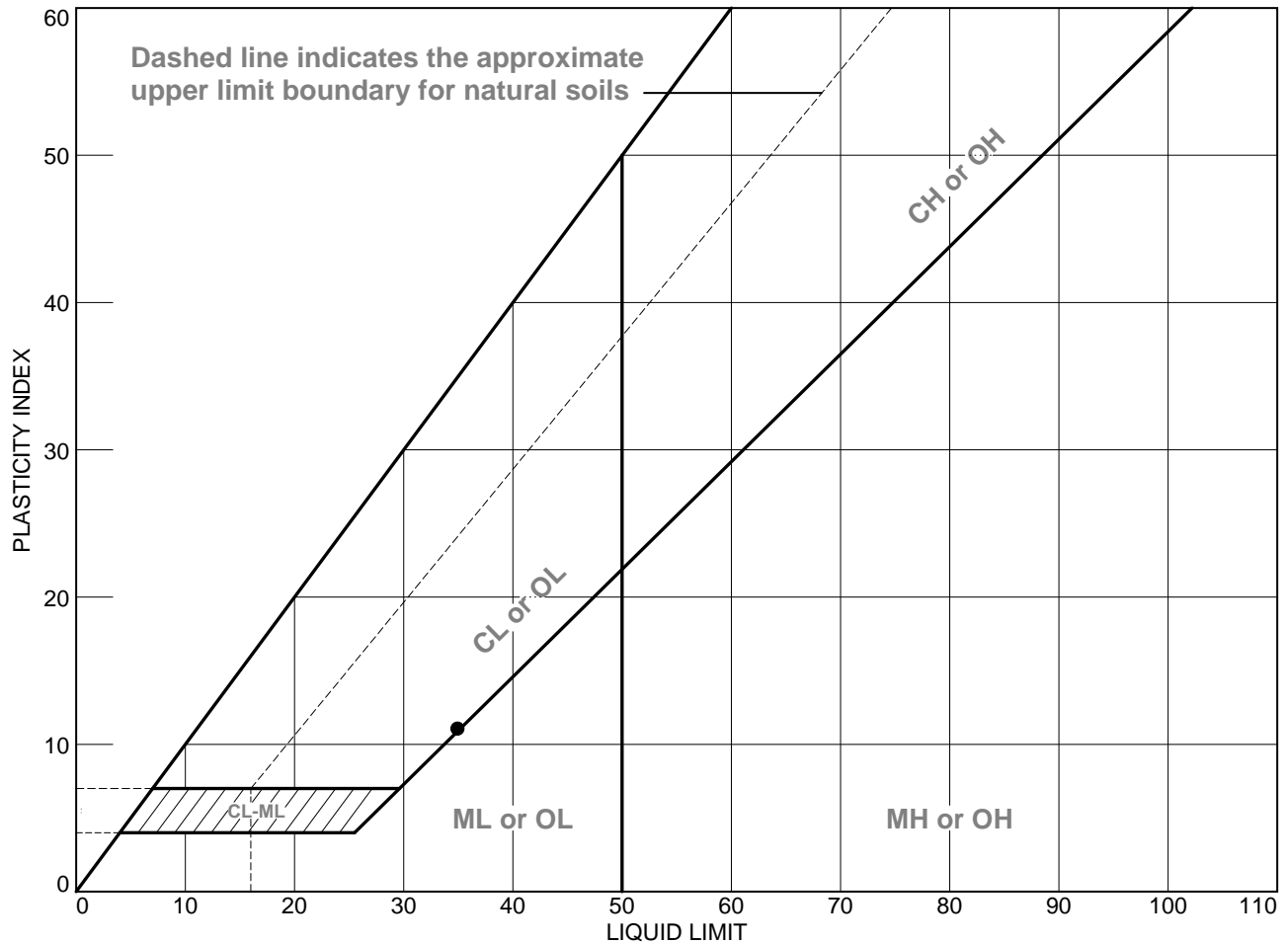
Client: URS
Project: Klink Cosmo Site

East Aurora, NY

Project No: 12-006

Figure

LIQUID AND PLASTIC LIMITS TEST REPORT



SOIL DATA								
SYMBOL	SOURCE	SAMPLE NO.	DEPTH	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
●	Klink Cosmo Cleaners	DEC-11D	75-77'		24	35	11	CL

3rd Rock, LLC

East Aurora, NY

Client: URS
Project: Klink Cosmo Site

Project No.: 12-006

Figure

Tested By: MW 4/18/12 **Checked By:** EA



FINAL PERMEABILITY REPORT

Project Name: URS, Klink Cosmo Site
Project No.: 12-006
Sample No.: DEC 11D 75-77'
Sample I.D.: 12-051
Laboratory Method: ASTM D5084, Method C
Remarks: None

Date: 04/26/12
Tested By: MW
Check By: JMA
Date of Test: 04/09/12
Date Test Complete: 04/16/12
CELL NO.: 1

INITIAL SAMPLE DATA:

Height, in.: 2.507
Diameter, in.: 2.845
Moisture Content, %: 22.90

Wet Density, pcf: 126.7
Dry Density, pcf: 103.1
Compaction, %: NA

FINAL SAMPLE DATA:

Height, in.: 2.488
Diameter, in.: 2.856
Moisture Content, %: 24.80

Wet Density, pcf: 127.2
Dry Density, pcf: 101.9

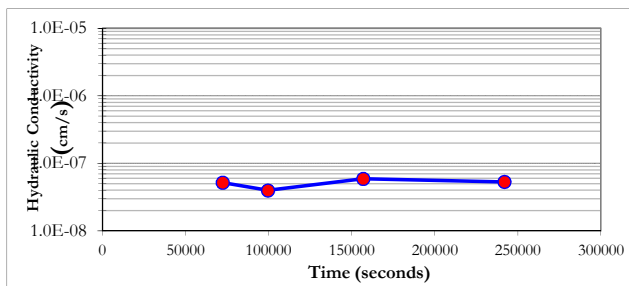
SATURATION AND CONSOLIDATION DATA:

Consolidation Pressure: 85 psi
Backpressure: 80 psi
Saturation (B parameter): 95%

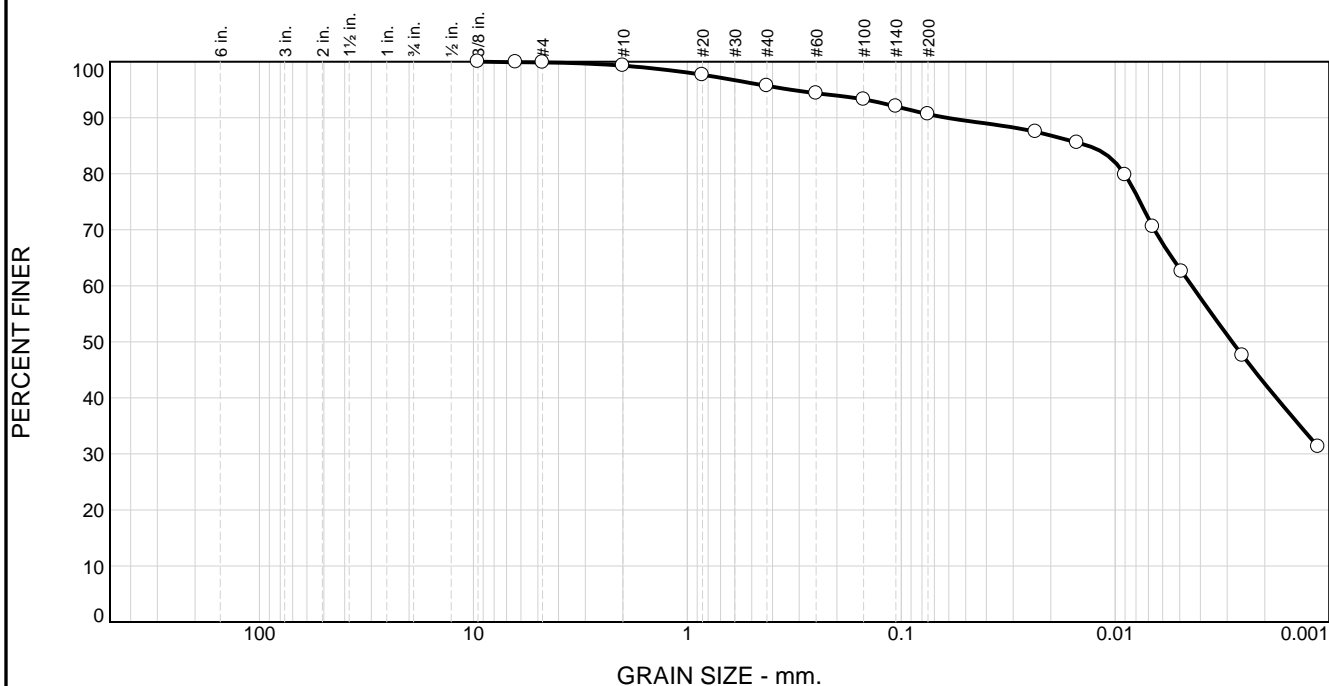
AVERAGE PERMEABILITY RESULT (average of last 4 readings, K, cm/s):

Trial #	Testing Pressures (psi)			Q (ml/sec)	Final K (cm/s)
	1	2	3		
1	85	79.8	79.4	1.10E-05	5.2E-08
2	85	79.8	79.4	8.08E-06	4.0E-08
3	85	79.8	79.4	1.16E-05	5.9E-08
4	85	79.8	79.4	9.88E-06	5.3E-08

Average K	5.1E-08
Average K, ft/day	1.4E-04



Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.1	0.6	3.6	5.1	27.5	63.1

TEST RESULTS			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
3/8"	100.0		
1/4"	99.9		
#4	99.9		
#10	99.3		
#20	97.7		
#40	95.7		
#60	94.4		
#100	93.3		
#140	92.0		
#200	90.6		
0.0236 mm.	87.5		
0.0151 mm.	85.6		
0.0090 mm.	79.8		
0.0067 mm.	70.5		
0.0049 mm.	62.6		
0.0025 mm.	47.6		
0.0011 mm.	31.3		

* (no specification provided)

Material Description		
ID#: 12-052 Black Silt		
Atterberg Limits (ASTM D 4318)		
PL= 29	LL= 47	PI= 18
Classification		
USCS (D 2487)= ML	AASHTO (M 145)= A-7-6(19)	
Coefficients		
D ₉₀ = 0.0613	D ₈₅ = 0.0134	D ₆₀ = 0.0044
D ₅₀ = 0.0028	D ₃₀ =	D ₁₅ =
D ₁₀ =	C _u =	C _c =
Remarks		
Shrinkage Limit: 16.4%		
Date Received: 4/5/12		Date Tested: 4/8/12
Tested By: MW		
Checked By: EA		
Title: CT		

Source of Sample: Klink Cosmo Cleaners
Sample Number: DEC-28D

Depth: 80-82'

Date Sampled:

3rd Rock, LLC

Client: URS

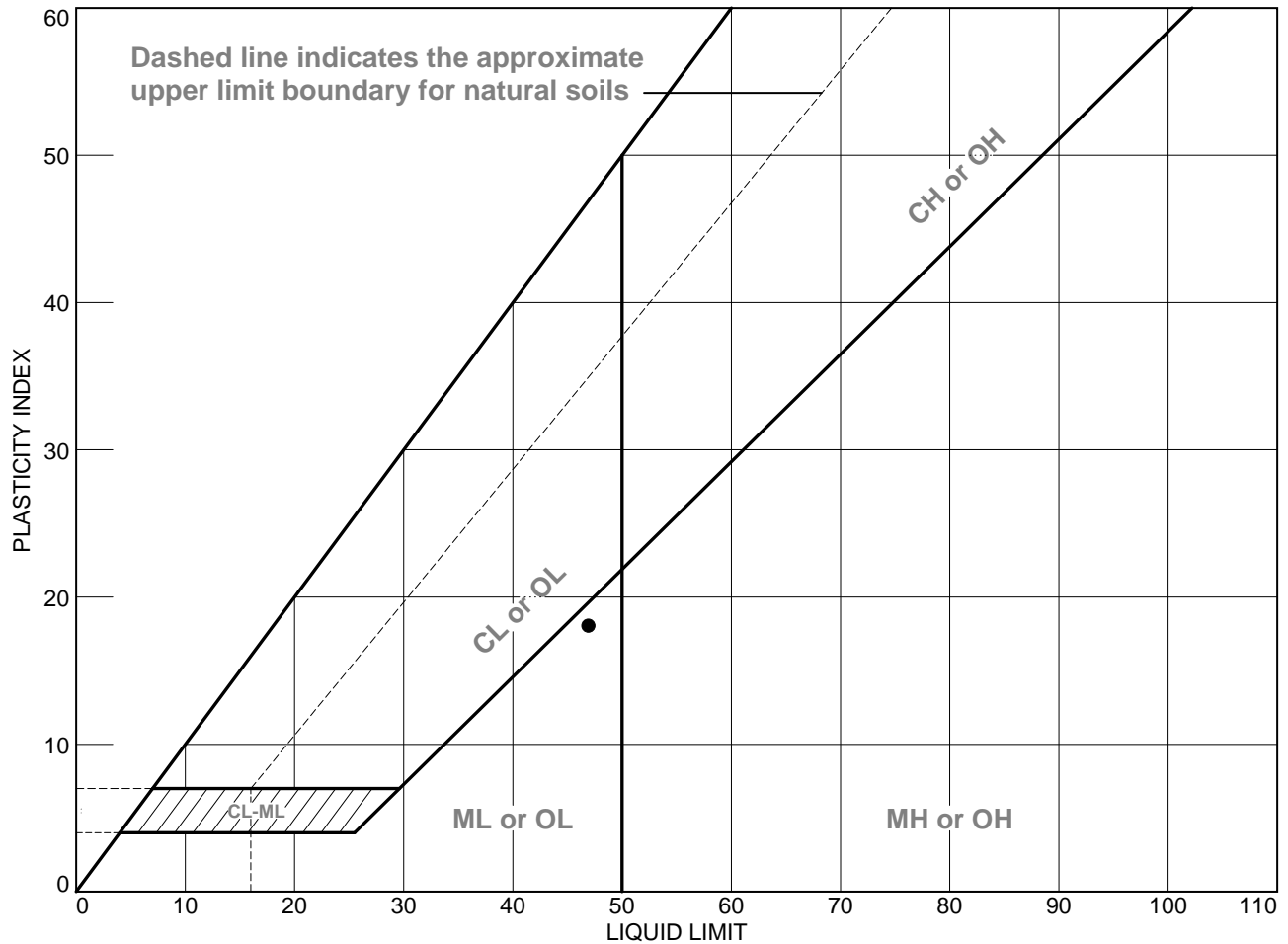
Project: Klink Cosmo Site

East Aurora, NY

Project No: 12-006

Figure

LIQUID AND PLASTIC LIMITS TEST REPORT



SOIL DATA								
SYMBOL	SOURCE	SAMPLE NO.	DEPTH	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
●	Klink Cosmo Cleaners	DEC-28D	80-82'		29	47	18	ML

3rd Rock, LLC

East Aurora, NY

Client: URS
Project: Klink Cosmo Site

Project No.: 12-006

Figure

Tested By: MW 4/18/12 **Checked By:** EA



FINAL PERMEABILITY REPORT

Project Name: URS-Klink Cosmo Site
Project No.: 12-006
Sample No.: DEC 028D 80-82'
Sample I.D.: 12-052
Laboratory Method: ASTM D5084, Method C
Remarks: None

Date: 04/26/12
Tested By: MW
Check By: JMA
Date of Test: 04/09/12
Date Test Complete: 04/15/12
CELL NO.: 5A

INITIAL SAMPLE DATA:

Height, in.: 2.554
Diameter, in.: 2.857
Moisture Content, %: 29.70

Wet Density, pcf: 119.1
Dry Density, pcf: 91.8
Compaction, %: NA

FINAL SAMPLE DATA:

Height, in.: 2.570
Diameter, in.: 2.865
Moisture Content, %: 32.40

Wet Density, pcf: 118.8
Dry Density, pcf: 89.7

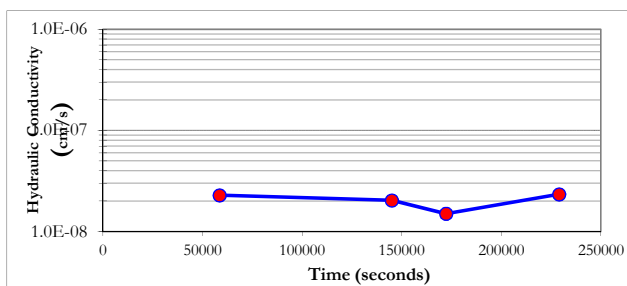
SATURATION AND CONSOLIDATION DATA:

Consolidation Pressure: 85 psi
Backpressure: 80 psi
Saturation (B parameter): 100%

AVERAGE PERMEABILITY RESULT (average of last 4 readings, K, cm/s):

Trial #	Testing Pressures (psi)			Q (ml/sec)	Final K (cm/s)
	1	2	3		
1	85	79.8	79.4	5.13E-06	2.3E-08
2	85	79.8	79.4	4.42E-06	2.0E-08
3	85	79.8	79.4	3.12E-06	1.5E-08
4	85	79.8	79.4	4.93E-06	2.3E-08

Average K	2.0E-08
Average K, ft/day	5.8E-05



APPENDIX P

ANALYTICAL RESULTS FOR NAPL SAMPLES

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Klink Cosmo Meeker, LNAPL Sample

Laboratory Workorder / SDG #: K1120

Subcontracted Analysis

The following analysis was performed by subcontractor laboratory:

Modified Gravity:

Modified Gravity by ASTM method 2170F was performed by Mt. Tom Generating Co. LLC Analytical Laboratory. The entire Mt. Tom report, including any notes on these analyses is enclosed following the Total Petroleum Hydrocarbon section of the Spectrum RI report.

Mt.Tom Generating Co. LLC Analytical Laboratory

15 Agawam Avenue
West Springfield, MA 01089
Phone (413) 214-6541 Fax (413) 214-6842
email-madhu.shah@gdfsuezna.com



Mass Certification - MA-00071
Conn Certification - PH-0520

Report Date July 7, 2011

Customer	Contact	Laboratory Supervisor	eMail
Spectrum Analytical, Inc.	H. Tayeh	Madhu Shah	madhu.shah@gdfsuezna.com
Sample Description Analysis of Oil			

Samples Analyzed

Enclosed are Report No(s): 28562

Thank you for your business

Madhu Shah, Laboratory Supervisor

Date

ALL the information contained in this report has been reviewed for accuracy and checked against all quality control requirements outlined in each applicable method.

This report may not be reproduced, except in full, without written approval from Mt.Tom Generating Co.LLC Analytical Laboratory.

Sample Analysis

Work Order 11-0901

Sample Description	Source	Taken/Time	Received
28562 K1120-01B	Spectrum Analytical, Inc.		6/29/11

Parameter	Results	MDL	Method	Analyzed/Time	Tech
Specific Gravity @ 60°F	0.8608		ASTM 2710F	07/07/11	sjr

APPENDIX Q

DATA USABILITY SUMMARY REPORTU

RI PHASE I

DATA USABILITY SUMMARY REPORT

**FORMER KLINK COSMOS SITE
EAST WILLIAMSBURG INDUSTRIAL AREA
BOROUGH OF BROOKLYN
KINGS COUNTY, NEW YORK
Site No. 2-24-130**

Prepared by:

**URS CORPORATION
77 GOODELL STREET
BUFFALO, NY 14203**

SEPTEMBER 2011

TABLE OF CONTENTS

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1.0 INTRODUCTION	1
2.0 ANALYTICAL METHODOLOGIES	1
3.0 DATA DELIVERABLE COMPLETENESS	2
4.0 PRESERVATION/HOLDING TIMES/SAMPLE RECEIPT	3
5.0 NON-CONFORMANCES	3
6.0 SAMPLE RESULTS AND REPORTING	6
7.0 SUMMARY	7

TABLES (Following Text)

Table 1	Summary of Data Qualifications
Tables 2a,b	Validated Soil Sample Results
Table 3	Validated Soil TCLP Sample Results
Tables 4a,b	Validated Groundwater Sample Results
Table 5	Validated Product Sample Results
Table 6	Validated Air Sample Results
Table 7	Validated Field QC Sample Results

ATTACHMENTS

ATTACHMENT A	Validated Form 1's
ATTACHMENT B	Support Documentation

1.0 INTRODUCTION

This Data Usability Summary Report (DUSR) has been prepared following the guidelines provided in New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation *DER-10 Technical Guidance for Site Investigation and Remediation, Appendix 2B-Guidance for Data Deliverables and the Development of Data Usability and Summary Reports, May 2010*. Analytical data for 25 soil samples, 45 groundwater samples, 1 product sample, 31 soil gas samples, 4 groundwater field duplicates, 4 soil gas field duplicates, 2 groundwater matrix spikes/matrix spike duplicates (MS/MSD) pairs, 3 ambient air samples, and 2 trip blanks collected by URS personnel on May 5, 2011-June 24, 2011 from the Former Klink Cosmos site are discussed in this DUSR.

2.0 ANALYTICAL METHODOLOGIES

All soil and groundwater samples were sent to Miktem Laboratories, Inc. (Warwick, RI) for analysis. The soil samples were analyzed for: volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method SW8260B; semivolatile organic compounds (SVOCs) by USEPA Method SW8270C; pesticides/PCBs by USEPA Methods 8081B/8082A; herbicides by USEPA Method 8151; metals/cyanide by USEPA Methods 6010C/7471B/9012B; and hexavalent chromium by USEPA Method 7196A. Not all samples were analyzed for all parameters.

Two soil samples underwent a Toxicity Characteristic Leaching Procedure (TCLP) extraction in accordance with USEPA Method 1311. The extracts were then analyzed for TCLP VOCs by USEPA Method 8260C; TCLP SVOCs by USEPA Method 8270D; TCLP Pesticides by USEPA Method 8081B; TCLP Herbicides by USEPA Method 8151A; TCLP metals by USEPA Method 6010C/7470A; flashpoint by USEPA Method 1010; pH by USEPA Method 9045C; and reactive cyanide/sulfide by section 7.3.4.2.

One product sample was analyzed for VOCs by USEPA Method SW8260B; SVOCs by USEPA Method SW8270C; total petroleum hydrocarbons by USEPA Method 8015D; and specific gravity by American Society for Testing and Materials (ASTM) Method 2170F. The specific gravity analysis was subcontracted to Mt. Tom Generating Co. LLC Analytical Laboratory located in West Springfield, MA.

The air samples were analyzed for VOCs by USEPA Compendium of Methods for the Determination of Toxic Compounds in Ambient Air Method TO-15.

A limited data validation was performed following the guidelines in the following USEPA Region II documents:

- *Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260B, SOP HW-24, Rev. 2, August 2008;*
- *Validating Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8270D, SOP HW-22, Rev. 4, August 2008;*
- *Validating Pesticide Compounds by Gas Chromatography SW-846 Method 8081B, SOP HW-44, Rev.1, August 2006;*
- *Validating PCB Compounds by Gas Chromatography SW-846 Method 8082A, SOP HW-45, Rev.1, August 2006;*
- *Validation of Metals for the Contract Laboratory Program (CLP) Based on SOW ILM05.3, SOP HW-2, Rev. 13, September 2006; and*
- *Validating Chlorinated Herbicides by GC, SW-846, Method 8151A, SOP HW-17, Rev. 2, September 2006.*

The limited validation included: a review of holding times and completeness of all required deliverables; a review of quality control (QC) results (blanks, instrument tunings, calibration standards, duplicate analyses, and laboratory control sample (LCS) recoveries to determine if the data are within the protocol-required limits and specifications; a determination that all samples were analyzed using established and agreed upon analytical protocols; an evaluation of the raw data to confirm the results provided in the data summary sheets; and a review of laboratory data qualifiers.

Qualifications applied to the data include 'J' (estimated concentration), 'UJ' (estimated quantitation limit), and 'R' (rejected/data unusable). Definitions of USEPA Region II data qualifiers are presented at the end of this text. A summary of data qualifications is provided on Table 1. The validated analytical results are presented on Tables 2 – 7. Copies of the validated laboratory results (i.e., Form 1's) are presented in Attachment A. Documentation supporting the qualification of data is presented in Attachment B. Only analytical deviations affecting data usability are discussed in this report.

3.0 DATA DELIVERABLE COMPLETENESS

Full deliverable data packages were provided by the laboratory, which included all reporting forms and raw data necessary to fully evaluate and verify the reported analytical results.

4.0 PRESERVATION/HOLDING TIMES/SAMPLE RECEIPT

All samples were received by the laboratory intact, properly preserved, and under proper chain-of-custody (COC). All samples were analyzed within the required holding times.

5.0 NON-CONFORMANCES

Instrument Calibration

The relative response factors (RRF) for VOCs acetone, 2-butanone, and 1,4-dioxane in the initial calibration (ICAL) and/or the continuing calibration (CCAL) standards associated with the soil samples were below the lower QC limit (0.05). The non-detected results for these compounds in the associated soil samples listed on Table 1 have been qualified 'R' and the detected compounds qualified 'J'.

The RRF for VOCs 1,4-dioxane in the ICAL and/or the CCAL standards associated with the groundwater samples were below the lower QC limit (0.05). The non-detected results for these compounds in the associated groundwater samples listed on Table 1 have been qualified 'R' and the detected compounds qualified 'J'.

The RRF for VOCs acetone, 2-butanone, and 1,4-dioxane in the ICAL and/or the CCAL standards associated with the product sample were below the lower QC limit (0.05). The non-detected results for these compounds in the associated product sample listed on Table 1 have been qualified 'R'.

The percent relative standard deviation (%RSD) of VOCs 1,1-dichloroethene, naphthalene, and/or cis-1,2-dichloroethene in the ICAL exceeded the QC limit of 15%. The detected results for these compounds in the associated groundwater samples listed on Table 1 have been qualified 'J'.

The percent difference (%D) between the ICAL average RRF and the RRF in one or more of the CCAL standards associated with the soil samples exceeded the QC limit of 20% for VOCs 2-hexanone, 1,2-dibromo-3-chloropropane, naphthalene, and/or n-butylbenzene. The non-detect results for these compounds in the associated soil samples listed on Table 1 were qualified 'UJ'.

The %D between the ICAL average RRF and the RRF in one or more of the CCAL standards associated with the groundwater samples exceeded the QC limit of 20% for VOCs cis-1,2-

dichloroethene, 1,2-dichloropropane, 2-chlorotoluene, 2-hexanone, 4-methyl-2-pentanone, 1,2-dibromo-3-chloropropane, 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, benzene, carbon tetrachloride, chloromethane, cyclohexane, dichlorodifluoromethane, hexachlorobutadiene, idomethane, sec-butylbenzene, methylcyclohexane, naphthalene, trichlorofluoromethane, vinyl acetate, and/or vinyl chloride. The non-detect results for these compounds in the associated groundwater samples listed on Table 1 were qualified 'UJ'.

The %D between the ICAL average RRF and the RRF in one or more of the CCAL standards associated with the air samples exceeded the QC limit of 20% for VOCs 1,2,4-trichlorobenzene and/or hexachloro-1,3-butadiene. The non-detect results for these compounds in the associated air samples listed on Table 1 were qualified 'UJ'.

The %D between the ICAL average RRF and the RRF in one or more of the CCAL standards associated with the soil samples exceeded the QC limit of 20% for SVOCs 2-methylnaphthalene, 2,4-dinitrophenol, 4-chloroaniline, 4-nitrophenol, atrazine, hexachlorobutadiene, nitrobenzene, and/or pyridine. The detected results for these compounds in the associated soil samples listed on Table 1 were qualified 'J', and the non-detected results 'UJ'.

The %RSD of SVOCs benzo(k)fluoranthene and/or pyridine in the ICAL exceeded the QC limit of 15%. The detected results for these compounds in the associated soil samples listed on Table 1 have been qualified 'J'.

The %D between the ICAL average RRF and the RRF in one or more of the CCAL standards associated with the groundwater samples exceeded the QC limit of 20% for SVOC 2,4-dinitrophenol. The non-detect results for this compound in the associated groundwater samples listed on Table 1 were qualified 'UJ'.

The %D between the ICAL average RRF and the RRF in one or more of the CCAL standards associated with the product sample exceeded the QC limit of 20% for SVOCs 2,2'-oxybis(1-chloropropane), n-nitroso-di-n-propylamine, butylbenzyl phthalate, bis(2-ethylhexyl)phthalate, di-n-octylphthalate, and/or atrazine. The non-detect results for these compounds in the associated product sample listed on Table 1 were qualified 'UJ', and the detected results qualified 'J'.

The %D in the herbicide CICAL standard associated with the soil samples listed on Table 1 exceeded the QC limit of 25% for MCPA and MCPB. The non-detect results for these compounds in the associated samples listed on Table 1 were qualified 'UJ'.

Documentation supporting the qualification of data (i.e., VOC/SVOC/Herbicides Forms 6 and 7) is presented in Attachment B.

Laboratory Control Samples (LCS)

The percent recovery (%R) of VOC naphthalene was above the upper QC limit in the LCS. The detected result for naphthalene in soil sample DEC-065D (34-35) was qualified 'J'.

The %R of VOC cyclohexane was below the lower QC limit in the LCS. The non-detected results for cyclohexane in the associated groundwater samples listed on Table 1 were qualified 'UJ'.

The %Rs of SVOC 2-methylphenol and caprolactam were below the lower QC limit in the LCS. The non-detected results for these compounds in the associated groundwater samples listed on Table 1 were qualified 'UJ'.

The %Rs of SVOC 2,4-dinitrophenol and benzaldehyde were below the lower QC limit in the LCS. The non-detected results for these compounds in the associated product sample listed on Table 1 were qualified 'UJ'.

Documentation supporting the qualification of data (i.e., VOC - Form 3) is presented in Attachment B.

Field Duplicate Samples

The USEPA Region II validation guidelines do not require qualification of VOC/SVOC/Pesticide/PCB/Herbicide analytical results based upon field duplicate precision.

The relative percent difference (%RPD) between the iron (Fe) results in groundwater sample DEC-048 and the field duplicate performed on this sample exceeded the QC limit of 20%. The results for the Fe in the samples listed on Table 1 have been qualified 'J'.

Laboratory Blanks

Naphthalene was detected in the laboratory blank associated with soil sample SG-79 (7-8). Since this sample had a concentration of naphthalene that was less than five times the associated blank level, the naphthalene result was qualified 'U' at the quantitation limit (QL).

Naphthalene was detected in the laboratory blank associated with product sample DEC-048. Since this sample had a concentration of naphthalene that was less than five times the associated blank level, the naphthalene result was qualified 'U' at the QL.

Documentation supporting the qualification of data (i.e., VOC - Forms 1 and 4) is presented in Attachment B.

Surrogates

The %R of surrogate dibromofluoromethane in sample DEC-064 was below the lower QC limit. All compounds being reported from the undiluted analysis have been qualified 'J' or 'UJ'.

Documentation supporting the qualification of data (i.e., VOC - Form 2) is presented in Attachment B.

6.0 SAMPLE RESULTS AND REPORTING

All quantitation/detection limits were reported in accordance with method requirements and were adjusted for sample volume and dilution factors.

The %D between the dual column analysis for pesticide endrin exceeded 201% in soil sample DEC-030D (3.5-4.5). The result for endrin in this sample was qualified 'R'. The %Ds of alpha-chlordane and gamma-chlordane were >25%, the results for these pesticides were qualified 'J'.

The %D between the dual column analysis for pesticides gamma-BHC (Lindane) and heptachlor exceeded 201% in soil sample DEC-066S (1-2). The results for these pesticides in this sample were qualified 'R'.

The %D between the dual column analysis for pesticide gamma-BHC (Lindane) was >25% in groundwater sample DEC-031. The results for this pesticide was qualified 'J'.

Air samples SG-19, SG-20, SG-21, SG-78, SG-79, and SG-80 had results for 2,2,4-trimethylpentane, cyclohexane, and/or ethanol that were over the calibration curve. The laboratory performed dilutions for other compounds of interest which resulted in the compounds listed above becoming non-detect. The results from the initial analysis have been reported and the compounds qualified 'J' due to the calibration exceedence. The air samples and the specific compounds affected have been listed on Table 1.

Groundwater sample DEC-011 was initially analyzed on 6/30/11 and was detected for trichloroethene (TCE) and tetrachloroethene (PCE). However this analysis occurred immediately following a sample that exceeded the calibration curve for TCE and PCE. The lab re-analyzed sample DEC-011 outside of the holding time to confirm the presence of TCE and PCE. The presence of TCE and PCE was confirmed by the re-analysis. The results from the initial analysis have been reported, and the TCE and PCE results have been qualified as estimated 'J' because of the possibility of carryover from the previous sample.

7.0 SUMMARY

All sample analyses were found to be compliant with the method criteria, except where previously noted. Those results qualified 'J' or 'UJ' are considered conditionally usable. Those results qualified 'R' are unusable. All other sample results are usable as reported. URS does not recommend the recollection of any samples at this time.

Prepared By: Ann Marie Kropovitch, Chemist

Date:

Reviewed By: George E. Kisluk, Senior Chemist

Date:

DEFINITIONS OF USEPA REGION II DATA QUALIFIERS

- U – The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J – The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ – The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R – The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.
- B – The analyte was detected in the sample at a concentration greater than the instrument detection limit, but less than the quantitation limit.
- D – The positive value is the result of an analysis at a secondary dilution factor.

TABLE 1
SUMMARY OF DATA QUALIFICATIONS
FORMER KLINK COSMOS SITE

VOC	All soil samples.	RRF < 0.05 for acetone, 2-butanone, and 1,4-dioxane.	Qualify non-detected results 'R' and detected results 'J'.
VOC	Soil sample DEC-029D (75-76).	CCAL %D > 20% for naphthalene.	Qualify non-detected results 'UJ'.
VOC	Soil samples DEC-045D (80-81) and DEC-064D (29-29.5).	CCAL %D > 20% for 2-hexanone and n-butylbenzene.	Qualify non-detected results 'UJ'.
VOC	Soil samples DEC-065D (9-10) and DEC-065D (14-15).	CCAL %D > 20% for 1,2-dibromo-3-chloropropane and naphthalene.	Qualify non-detected results 'UJ'.
VOC	Soil sample DEC-065D (34-35).	LCS %R > QC limit for naphthalene.	Qualify detected result 'J'.
VOC	Soil sample SG-79 (7-8).	Naphthalene detected in the laboratory blank.	Qualify results 'U' at the QL.
VOC	All groundwater samples.	RRF < 0.05 for acetone, 2-butanone, and 1,4-dioxane.	Qualify non-detected results 'R' and detected results 'J'.
VOC	Groundwater samples DEC-006DD, DUP-062011 (DEC-006DD), and DEC-030D.	ICAL %RSD for 1,1-dichloroethene >15%.	Qualify detected results 'J'.
VOC	Groundwater sample DEC-046.	ICAL %RSD for naphthalene >15%.	Qualify detected results 'J'.
VOC	Groundwater samples DEC-008, DEC-013, DEC-014R, DEC-022D, DEC-029, and DEC-042.	ICAL %RSD for cis-1,2-dichloroethene >15%.	Qualify detected results 'J'.
VOC	Groundwater samples DEC-004, DEC-027, DEC-029D, DEC-039, DEC-048, DUP-062411 (DEC-39), and DUP2-062411 (DEC-048).	CCAL %D > 20% for chloromethane and vinyl chloride.	Qualify non-detected results 'UJ'.
VOC	Groundwater samples DEC-022D, DEC-044, DEC-044D, DEC-066, and DEC-066D.	CCAL %D > 20% sec-butylbenzene and methylcyclohexane.	Qualify non-detected results 'UJ'.

VOC	Groundwater samples DEC-013D, DEC-032, and DEC-042.	CCAL %D > 20% cis-1,2-dichloroethene, benzene, 1,2-dichloropropane, cyclohexane, and methycyclohexane.	Qualify non-detected results 'UJ'.
VOC	Groundwater samples DEC-008, DUP-062311 (DEC-013), and DEC-014R.	CCAL %D > 20% cis-1,2-dichloroethene, benzene, 2-chlorotoluene, sec-butylbenzene, cyclohexane, and methycyclohexane.	Qualify non-detected results 'UJ'.
VOC	Groundwater samples DEC-009, DEC-014D, DEC-029, DEC-013, and TB (6/23/11.).	CCAL %D > 20% for chloromethane, trichlorofluoromethane, idomethane, vinyl acetate, carbon tetrachloride, 4-methyl-2-pentanone, 2-hexanone, hexachlorobutadiene, and cyclohexane.	Qualify non-detected results 'UJ'.
VOC	Groundwater samples DEC-006, DEC-006DD, DUP-062011 (DEC-006DD), DEC-030, DEC-030D, DEC-064, DEC-031, and DEC-031D.	CCAL %D > 20% for dichlorodifluoromethane, trichlorofluoromethane, 4-methyl-3-pentanone, 2-hexanone, 1,2-dibromo-3-chloropropane, and naphthalene.	Qualify non-detected results 'UJ'.
VOC	Groundwater samples DEC-045, DEC-045D, DEC-064D, and Trip Blank (6/21/11).	CCAL %D > 20% for dichlorofluoromethane 1,2,3-trichlorobenzene, and naphthalene.	Qualify detected results 'J' and non-detected results 'UJ'.
VOC	Groundwater samples DEC-007, DEC-007D, DEC-010, DEC-011, DEC-028, DEC-033, DEC-046, DEC-047, DEC-065, and DEC-065D.	CCAL %D > 20% for dichlorodifluoromethane, 1,2-dibromo-3-chloropropane, hexachlorobutadiene, 1,2,3-trichlorobenzene, and naphthalene.	Qualify non-detected results 'UJ'.
VOC	Groundwater samples DEC-043 and DEC-043D.	CCAL %D > 20% for 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, and hexachlorobutene.	Qualify non-detected results 'UJ'.
VOC	Groundwater samples DEC-012, DUP-062211 (DEC-065), DEC-015, and DEC-015D.	CCAL %D > 20% benzene, sec-butylbenzene, cyclohexane, and methycyclohexane.	Qualify non-detected results 'UJ'.
VOC	Groundwater sample DEC-064 (undiluted analysis).	Surrogate dibromofluoromethane %R > QC limit.	Qualify detected results 'J' and non-detected results 'UJ'.
VOC	Groundwater samples DEC-009, DEC-013, DEC-014D, DEC-029, and TB (6/23/11).	LCS %R cyclohexane < QC limit.	Qualify non-detected results 'UJ'.
VOC	Groundwater sample DEC-011.	Possible carryover for TCE/PCE from previous sample.	Qualify TCE/PCE results 'J'.

VOC	Product sample DEC-048.	RRF < 0.05 for acetone, 2-butanone, and 1,4-dioxane.	Qualify non-detected results 'R'.
VOC	Product sample DEC-048.	CCAL %D > 20% for 2-hexanone.	Qualify non-detected results 'UJ'.
VOC	Air samples AA-061411, SG-19, SG-20, SG-21, SG-46, DUP2-061411 (SG-46), SG-48, SG-49, SG-55, SG-60, DUP-061411 (SG-60), SG-62, SG-78, SG-79, SG-80, SG-81, and SG-82.	CCAL %D > 20% for 1,2,4-trichlorobenzene.	Qualify non-detected results 'UJ'.
VOC	Air samples AA-061511, SG-18, SG-43, SG-47, SG-56, SG-59, SG-61, SG-63, DUP2-061511 (SG-63), SG-85, SG-86, and SG-87.	CCAL %D > 20% for 1,2,4-trichlorobenzene and hexachloro-1,3-butadiene.	Qualify non-detected results 'UJ'.
VOC	Air sample SG-79.	Cyclohexane > calibration curve.	Qualify detected results 'J'.
VOC	Air sample SG-20, SG-78, and SG-80.	Ethanol > calibration curve.	Qualify detected results 'J'.
VOC	Air sample SG-19.	Cyclohexane and ethanol > calibration curve.	Qualify detected results 'J'.
VOC	Air sample SG-21.	2,2,4-Trimethylpentane > calibration curve.	Qualify detected results 'J'.
SVOC	Soil sample DEC-030D (3.5-4.5).	ICAL %RSD for naphthalene > 15%.	Qualify detected results 'J'.
TCLP SVOC	Soil sample DEC-066S (1-2).	ICAL %RSD for pyridine > 15%.	Qualify detected results 'J'.
TCLP SVOC	Soil samples DEC-044D (4-5) and DEC-066S (1-2).	CCAL %D > 20% for hexachlorobutadiene and pyridine.	Qualify detected results 'J' and non-detected results 'UJ'.
SVOC	Soil samples DEC-065D (9-10), DEC-065D (14-15), and DEC-066D (24-25).	CCAL %D > 20% for 2,4-dinitrophenol, nitrobenzene, and 2-methylnaphthalene.	Qualify non-detected results 'UJ'.
SVOC	Soil samples DEC-029D (75-76) and DEC-030D (3.5-4.5).	CCAL %D > 20% for atrazine, 4-chloroaniline, and 4-nitrophenol.	Qualify non-detected results 'UJ'.
SVOC	Groundwater sample DEC-031 and DEC-031D.	CCAL %D > 20% for 2,4-dinitrophenol.	Qualify non-detected results 'UJ'.
SVOC	Groundwater samples DEC-031 and DEC-031D.	LCS %R 2-methylphenol and caprolactam < QC limit.	Qualify non-detected results 'UJ'.

SVOC	Product sample DEC-048.	LCS %R 2,4-dinitrophenol and benzaldehyde < QC limit.	Qualify non-detected results 'UJ'.
SVOC	Product sample DEC-048.	CCAL %D > 20% for 2,2'-oxybis(1-chloropropane), n-nitroso-di-n-propylamine, di-n-octylphthalate, bis(2-ethylhexyl)phthalate, di-n-octylphthalate, and atrazine.	Qualify detected results 'J' and non-detected results 'UJ'.
<p style="text-align: center;">TABLE 1 SUMMARY OF DATA QUALIFICATIONS FORMER KLINK COSMOS SITE</p>			
Pesticides VOC	Soil sample DEC-030D (3.5-4.5). All soil samples.	The %D between columns for RRF < 0.05 for acetone, 2-butanone, and 1,4-dioxane.	Qualify non-detected results 'R' and
Pesticides	Soil sample DEC-030D (3.4-4.5).	The %Ds between columns for alpha-chlordane and gamma-chlordane > 25%	Qualify non-detected results 'UJ'.
VOC	Soil sample DEC-029D (75-76).	CCAL %D > 20% for naphthalene	Qualify non-detected results 'UJ'.
TCLP Pesticides	Soil sample DEC-066S (1-2).	The %D between columns for gamma-BHC (Lindane) and heptachlor	Qualify non-detected results 'UJ'.
VOC	Soil samples DEC-045D (80-81) and DEC-064D (19-29).	CCAL %D > 20% for 2-hexanone and 2-butanone	Qualify non-detected results 'UJ'.
Herbicides	Soil samples DEC-065D (9-10), DEC-065D (14-15), and DEC-066D (24-25).	CCAL %D > 25% for MCPA and MCPB.	Qualify non-detected results 'UJ'.
VOC	Soil samples DEC-065D (9-10) and DEC-065D (14-15).	CCAL %D > 20% for 1,2-dichloro-3-chloropropane and naphthalene	Qualify non-detected results 'UJ'.
Metals	Groundwater sample DEC-048 and DUP2-062411.	ICAL %RSD for naphthalene exceeded QC limit for	Qualify detected results 'J'.
VOC	Soil sample DEC-065D (34-35).	LCS %R > QC limit for naphthalene.	Qualify detected result 'J'.
VOC	Soil sample SG-79 (7-8).	Naphthalene detected in the laboratory blank.	Qualify results 'U' at the QL.
VOC	All groundwater samples.	RRF < 0.05 for acetone, 2-butanone, and 1,4-dioxane.	Qualify non-detected results 'R' and detected results 'J'.
VOC	Groundwater samples DEC-006DD, DUP-062011 (DEC-006DD), and DEC-030D.	ICAL %RSD for 1,1-dichloroethene > 15%.	Qualify detected results 'J'.
VOC	Groundwater sample DEC-046.	ICAL %RSD for naphthalene > 15%.	Qualify detected results 'J'.
VOC	Groundwater samples DEC-008, DEC-013, DEC-014R, DEC-022D, DEC-029, and DEC-042.	ICAL %RSD for cis-1,2-dichloroethene > 15%.	Qualify detected results 'J'.
VOC	Groundwater samples DEC-004, DEC-027, DEC-029D, DEC-039, DEC-048, DUP-062411 (DEC-39), and DUP2-062411 (DEC-048).	CCAL %D > 20% for chloromethane and vinyl chloride.	Qualify non-detected results 'UJ'.
VOC	Groundwater samples DEC-022D, DEC-044, DEC-044D, DEC-066, and DEC-066D.	CCAL %D > 20% sec-butylbenzene and methylcyclohexane.	Qualify non-detected results 'UJ'.

VOC	Groundwater samples DEC-013D, DEC-032, and DEC-042.	CCAL %D > 20% cis-1,2-dichloroethene, benzene, 1,2-dichloropropane, cyclohexane, and methycyclohexane.	Qualify non-detected results 'UJ'.
VOC	Groundwater samples DEC-008, DUP-062311 (DEC-013), and DEC-014R.	CCAL %D > 20% cis-1,2-dichloroethene, benzene, 2-chlorotoluene, sec-butylbenzene, cyclohexane, and methycyclohexane.	Qualify non-detected results 'UJ'.
VOC	Groundwater samples DEC-009, DEC-014D, DEC-029, DEC-013, and TB (6/23/11.).	CCAL %D > 20% for chloromethane, trichlorofluoromethane, idomethane, vinyl acetate, carbon tetrachloride, 4-methyl-2-pentanone, 2-hexanone, hexachlorobutadiene, and cyclohexane.	Qualify non-detected results 'UJ'.
VOC	Groundwater samples DEC-006, DEC-006DD, DUP-062011 (DEC-006DD), DEC-030, DEC-030D, DEC-064, DEC-031, and DEC-031D.	CCAL %D > 20% for dichlorodifluoromethane, trichlorofluoromethane, 4-methyl-3-pentanone, 2-hexanone, 1,2-dibromo-3-chloropropane, and naphthalene.	Qualify non-detected results 'UJ'.
VOC	Groundwater samples DEC-045, DEC-045D, DEC-064D, and Trip Blank (6/21/11).	CCAL %D > 20% for dichlorofluoromethane 1,2,3-trichlorobenzene, and naphthalene.	Qualify detected results 'J' and non-detected results 'UJ'.
VOC	Groundwater samples DEC-007, DEC-007D, DEC-010, DEC-011, DEC-028, DEC-033, DEC-046, DEC-047, DEC-065, and DEC-065D.	CCAL %D > 20% for dichlorodifluoromethane, 1,2-dibromo-3-chloropropane, hexachlorobutadiene, 1,2,3-trichlorobenzene, and naphthalene.	Qualify non-detected results 'UJ'.
VOC	Groundwater samples DEC-043 and DEC-043D.	CCAL %D > 20% for 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, and hexachlorobutene.	Qualify non-detected results 'UJ'.
VOC	Groundwater samples DEC-012, DUP-062211 (DEC-065), DEC-015, and DEC-015D.	CCAL %D > 20% benzene, sec-butylbenzene, cyclohexane, and methycyclohexane.	Qualify non-detected results 'UJ'.
VOC	Groundwater sample DEC-064 (undiluted analysis).	Surrogate dibromofluoromethane %R > QC limit.	Qualify detected results 'J' and non-detected results 'UJ'.
VOC	Groundwater samples DEC-009, DEC-013, DEC-014D, DEC-029, and TB (6/23/11).	LCS %R cyclohexane < QC limit.	Qualify non-detected results 'UJ'.
VOC	Groundwater sample DEC-011.	Possible carryover for TCE/PCE from previous sample.	Qualify TCE/PCE results 'J'.

VOC	Product sample DEC-048.	RRF < 0.05 for acetone, 2-butanone, and 1,4-dioxane.	Qualify non-detected results 'R'.
VOC	Product sample DEC-048.	CCAL %D > 20% for 2-hexanone.	Qualify non-detected results 'UJ'.
VOC	Air samples AA-061411, SG-19, SG-20, SG-21, SG-46, DUP2-061411 (SG-46), SG-48, SG-49, SG-55, SG-60, DUP-061411 (SG-60), SG-62, SG-78, SG-79, SG-80, SG-81, and SG-82.	CCAL %D > 20% for 1,2,4-trichlorobenzene.	Qualify non-detected results 'UJ'.
VOC	Air samples AA-061511, SG-18, SG-43, SG-47, SG-56, SG-59, SG-61, SG-63, DUP2-061511 (SG-63), SG-85, SG-86, and SG-87.	CCAL %D > 20% for 1,2,4-trichlorobenzene and hexachloro-1,3-butadiene.	Qualify non-detected results 'UJ'.
VOC	Air sample SG-79.	Cyclohexane > calibration curve.	Qualify detected results 'J'.
VOC	Air sample SG-20, SG-78, and SG-80.	Ethanol > calibration curve.	Qualify detected results 'J'.
VOC	Air sample SG-19.	Cyclohexane and ethanol > calibration curve.	Qualify detected results 'J'.
VOC	Air sample SG-21.	2,2,4-Trimethylpentane > calibration curve.	Qualify detected results 'J'.
SVOC	Soil sample DEC-030D (3.5-4.5).	ICAL %RSD for naphthalene > 15%.	Qualify detected results 'J'.
TCLP SVOC	Soil sample DEC-066S (1-2).	ICAL %RSD for pyridine > 15%.	Qualify detected results 'J'.
TCLP SVOC	Soil samples DEC-044D (4-5) and DEC-066S (1-2).	CCAL %D > 20% for hexachlorobutadiene and pyridine.	Qualify detected results 'J' and non-detected results 'UJ'.
SVOC	Soil samples DEC-065D (9-10), DEC-065D (14-15), and DEC-066D (24-25).	CCAL %D > 20% for 2,4-dinitrophenol, nitrobenzene, and 2-methylnaphthalene.	Qualify non-detected results 'UJ'.
SVOC	Soil samples DEC-029D (75-76) and DEC-030D (3.5-4.5).	CCAL %D > 20% for atrazine, 4-chloroaniline, and 4-nitrophenol.	Qualify non-detected results 'UJ'.
SVOC	Groundwater sample DEC-031 and DEC-031D.	CCAL %D > 20% for 2,4-dinitrophenol.	Qualify non-detected results 'UJ'.
SVOC	Groundwater samples DEC-031 and DEC-031D.	LCS %R 2-methylphenol and caprolactam < QC limit.	Qualify non-detected results 'UJ'.

SVOC	Product sample DEC-048.	LCS %R 2,4-dinitrophenol and benzaldehyde < QC limit.	Qualify non-detected results 'UJ'.
SVOC	Product sample DEC-048.	CCAL %D > 20% for 2,2'-oxybis(1-chloropropane), n-nitroso-di-n-propylamine, 2,4-dinitrophenol, bis(2-ethylhexyl)phthalate, di-n-octylphthalate, and atrazine.	Qualify detected results 'J' and non-detected results 'UJ'.
<p style="text-align: center;">TABLE 1 SUMMARY OF DATA QUALIFICATIONS FORMER KLINK COSMOS SITE</p>			
Pesticides VOC	Soil sample DEC-030D (3.5-4.5). All soil samples.	The %D between columns for RRF < 0.05 for acetone, 2-butanone, and 1,4-dioxane.	Qualify non-detected results 'R' and
Pesticides	Soil sample DEC-030D (3.4-4.5).	The %Ds between columns for alpha-chlordane and gamma-chlordane > 25%.	Qualify non-detected results
VOC	Soil sample DEC-029D (75-76).	CCAL %D > 20% for naphthalene.	Qualify non-detected results
TCLP Pesticides	Soil sample DEC-066S (1-2).	The %Ds between columns for gamma-BHC (Lindane) and heptachlor > 20%.	Qualify non-detected results
VOC	Soil samples DEC-045D (80-81) and DEC-064D (29-29.5).	CCAL %D > 20% for 2-hexanone and n-butylbenzene.	Qualify non-detected results
Herbicides	Soil samples DEC-065D (9-10), DEC-065D (14-15), and DEC-066D (24-25).	CCAL %D > 25% for MCPA and MCPB.	Qualify non-detected results
VOC	Soil samples DEC-065D (9-10) and DEC-065D (14-15).	CCAL %D > 20% for 1,2-dichloro-3-chloropropane and naphthalene.	Qualify non-detected results
Metals	Groundwater sample DEC-048 and DUP2-062411.	ICAL %RSD for naphthalene exceeded QC limit for LCS %R > QC limit for naphthalene.	Qualify detected results 'J'.
VOC	Soil sample DEC-065D (34-35).		
VOC	Soil sample SG-79 (7-8).	Naphthalene detected in the laboratory blank.	Qualify results 'U' at the QL.
VOC	All groundwater samples.	RRF < 0.05 for acetone, 2-butanone, and 1,4-dioxane.	Qualify non-detected results 'R' and detected results 'J'.
VOC	Groundwater samples DEC-006DD, DUP-062011 (DEC-006DD), and DEC-030D.	ICAL %RSD for 1,1-dichloroethene > 15%.	Qualify detected results 'J'.
VOC	Groundwater sample DEC-046.	ICAL %RSD for naphthalene > 15%.	Qualify detected results 'J'.
VOC	Groundwater samples DEC-008, DEC-013, DEC-014R, DEC-022D, DEC-029, and DEC-042.	ICAL %RSD for cis-1,2-dichloroethene > 15%.	Qualify detected results 'J'.
VOC	Groundwater samples DEC-004, DEC-027, DEC-029D, DEC-039, DEC-048, DUP-062411 (DEC-39), and DUP2-062411 (DEC-048).	CCAL %D > 20% for chloromethane and vinyl chloride.	Qualify non-detected results 'UJ'.
VOC	Groundwater samples DEC-022D, DEC-044, DEC-044D, DEC-066, and DEC-066D.	CCAL %D > 20% sec-butylbenzene and methylcyclohexane.	Qualify non-detected results 'UJ'.

VOC	Groundwater samples DEC-013D, DEC-032, and DEC-042.	CCAL %D > 20% cis-1,2-dichloroethene, benzene, 1,2-dichloropropane, cyclohexane, and methycyclohexane.	Qualify non-detected results 'UJ'.
VOC	Groundwater samples DEC-008, DUP-062311 (DEC-013), and DEC-014R.	CCAL %D > 20% cis-1,2-dichloroethene, benzene, 2-chlorotoluene, sec-butylbenzene, cyclohexane, and methycyclohexane.	Qualify non-detected results 'UJ'.
VOC	Groundwater samples DEC-009, DEC-014D, DEC-029, DEC-013, and TB (6/23/11.).	CCAL %D > 20% for chloromethane, trichlorofluoromethane, idomethane, vinyl acetate, carbon tetrachloride, 4-methyl-2-pentanone, 2-hexanone, hexachlorobutadiene, and cyclohexane.	Qualify non-detected results 'UJ'.
VOC	Groundwater samples DEC-006, DEC-006DD, DUP-062011 (DEC-006DD), DEC-030, DEC-030D, DEC-064, DEC-031, and DEC-031D.	CCAL %D > 20% for dichlorodifluoromethane, trichlorfluoromethane, 4-methyl-3-pentanone, 2-hexanone, 1,2-dibromo-3-chloropropane, and naphthalene.	Qualify non-detected results 'UJ'.
VOC	Groundwater samples DEC-045, DEC-045D, DEC-064D, and Trip Blank (6/21/11).	CCAL %D > 20% for dichlorofluoromethane 1,2,3-trichlorobenzene, and naphthalene.	Qualify detected results 'J' and non-detected results 'UJ'.
VOC	Groundwater samples DEC-007, DEC-007D, DEC-010, DEC-011, DEC-028, DEC-033, DEC-046, DEC-047, DEC-065, and DEC-065D.	CCAL %D > 20% for dichlorodifluoromethane, 1,2-dibromo-3-chloropropane, hexachlorobutadiene, 1,2,3-trichlorbenzene, and naphthalene.	Qualify non-detected results 'UJ'.
VOC	Groundwater samples DEC-043 and DEC-043D.	CCAL %D > 20% for 1,2,3-trichlorbenzene, 1,2,4-trichlorobenzene, and hexachlorobutiene.	Qualify non-detected results 'UJ'.
VOC	Groundwater samples DEC-012, DUP-062211 (DEC-065), DEC-015, and DEC-015D.	CCAL %D > 20% benzene, sec-butylbezene, cyclohexane, and methylcyclohexane.	Qualify non-detected results 'UJ'.
VOC	Groundwater sample DEC-064 (undiluted analysis).	Surrogate dibromofluoromethane %R > QC limit.	Qualify detected results 'J' and non-detected results 'UJ'.
VOC	Groundwater samples DEC-009, DEC-013, DEC-014D, DEC-029, and TB (6/23/11).	LCS %R cyclohexane < QC limit.	Qualify non-detected results 'UJ'.
VOC	Groundwater sample DEC-011.	Possible carryover for TCE/PCE from previous sample.	Qualify TCE/PCE results 'J'.

VOC	Product sample DEC-048.	RRF < 0.05 for acetone, 2-butanone, and 1,4-dioxane.	Qualify non-detected results 'R'.
VOC	Product sample DEC-048.	CCAL %D > 20% for 2-hexanone.	Qualify non-detected results 'UJ'.
VOC	Air samples AA-061411, SG-19, SG-20, SG-21, SG-46, DUP2-061411 (SG-46), SG-48, SG-49, SG-55, SG-60, DUP-061411 (SG-60), SG-62, SG-78, SG-79, SG-80, SG-81, and SG-82.	CCAL %D > 20% for 1,2,4-trichlorobenzene.	Qualify non-detected results 'UJ'.
VOC	Air samples AA-061511, SG-18, SG-43, SG-47, SG-56, SG-59, SG-61, SG-63, DUP2-061511 (SG-63), SG-85, SG-86, and SG-87.	CCAL %D > 20% for 1,2,4-trichlorobenzene and hexachloro-1,3-butadiene.	Qualify non-detected results 'UJ'.
VOC	Air sample SG-79.	Cyclohexane > calibration curve.	Qualify detected results 'J'.
VOC	Air sample SG-20, SG-78, and SG-80.	Ethanol > calibration curve.	Qualify detected results 'J'.
VOC	Air sample SG-19.	Cyclohexane and ethanol > calibration curve.	Qualify detected results 'J'.
VOC	Air sample SG-21.	2,2,4-Trimethylpentane > calibration curve.	Qualify detected results 'J'.
SVOC	Soil sample DEC-030D (3.5-4.5).	ICAL %RSD for naphthalene > 15%.	Qualify detected results 'J'.
TCLP SVOC	Soil sample DEC-066S (1-2).	ICAL %RSD for pyridine > 15%.	Qualify detected results 'J'.
TCLP SVOC	Soil samples DEC-044D (4-5) and DEC-066S (1-2).	CCAL %D > 20% for hexachlorobutadiene and pyridine.	Qualify detected results 'J' and non-detected results 'UJ'.
SVOC	Soil samples DEC-065D (9-10), DEC-065D (14-15), and DEC-066D (24-25).	CCAL %D > 20% for 2,4-dinitrophenol, nitrobenzene, and 2-methylnaphthalene.	Qualify non-detected results 'UJ'.
SVOC	Soil samples DEC-029D (75-76) and DEC-030D (3.5-4.5).	CCAL %D > 20% for atrazine, 4-chloroaniline, and 4-nitrophenol.	Qualify non-detected results 'UJ'.
SVOC	Groundwater sample DEC-031 and DEC-031D.	CCAL %D > 20% for 2,4-dinitrophenol.	Qualify non-detected results 'UJ'.
SVOC	Groundwater samples DEC-031 and DEC-031D.	LCS %R 2-methylphenol and caprolactam < QC limit.	Qualify non-detected results 'UJ'.

SVOC	Product sample DEC-048.	LCS %R 2,4-dinitrophenol and benzaldehyde < QC limit.	Qualify non-detected results 'UJ'.
SVOC	Product sample DEC-048.	CCAL %D > 20% for 2,2'-oxybis(1-chloropropane), n-nitroso-di-n-propylamine, butylbenzyl phthalate, bis(2-ethylhexyl)phthalate, di-n-octylphthalate, and atrazine.	Qualify detected results 'J' and non-detected results 'UJ'.
Pesticides	Soil sample DEC-030D (3.5-4.5).	The %D between columns for endrin > 201%.	Qualify non-detected results 'R'.
Pesticides	Soil sample DEC-030D (3.4-4.5).	The %Ds between columns for alpha-chlordane and gamma-chlordane >25%.	Qualify non-detected results 'UJ'.
TCLP Pesticides	Soil sample DEC-066S (1-2).	The %Ds between columns for gamma-BHC (Lindane) and heptachlor >201%.	Qualify non-detected results 'R'.
Herbicides	Soil samples DEC-065D (9-10), DEC-065D (14-15), and DEC-066D (24-25).	CCAL %D >25% for MCPA and MCPB.	Qualify non-detected results 'UJ'.
Metals	Groundwater sample DEC-048 and DUP2-062411.	%RPD between sample and field duplicate exceeded QC limit for Fe.	Qualify detected results 'J'.

TABLE 2A
VALIDATED SOIL SAMPLE RESULTS (VOCs)
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-014D	DEC-029D	DEC-030D	DEC-043D	DEC-064D
Sample ID		DEC-014D 31-32	DEC-029D (75-76')	DEC-030D (3.5-4.5')	DEC-043D (80-81')	DEC-064D (29-29.5)
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		31.0-32.0	75.0-76.0	3.5-4.5	80.0-81.0	29.0-29.5
Date Sampled		05/17/11	05/11/11	05/09/11	05/12/11	05/12/11
Parameter	Units					
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
1,1,1-Trichloroethane	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
1,1,2,2-Tetrachloroethane	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
1,1,2-Trichloroethane	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
1,1-Dichloroethane	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
1,1-Dichloroethene	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
1,1-Dichloropropene	MG/KG	0.0067 U	0.0023 U	0.0049 U	0.0051 U	0.0051 U
1,2,3-Trichlorobenzene	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
1,2,3-Trichloropropane	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
1,2,4-Trichlorobenzene	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
1,2,4-Trimethylbenzene	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
1,2-Dibromo-3-chloropropane	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
1,2-Dichlorobenzene	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
1,2-Dichloroethane	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
1,2-Dichloroethene (cis)	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
1,2-Dichloroethene (trans)	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
1,2-Dichloropropane	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
1,3,5-Trimethylbenzene (Mesitylene)	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
1,3-Dichlorobenzene	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
1,3-Dichloropropane	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
1,3-Dichloropropene (cis)	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

Checked By _____

Detection Limits shown are PQL

[LOGDATE] > #5/12/11# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [UNITS] <> 'UG/L' AND [PROCEDURE] <> 'ICRA' AND [PROCEDURE] = 'VGA'

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TABLE 2A
VALIDATED SOIL SAMPLE RESULTS (VOCS)
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-014D	DEC-029D	DEC-030D	DEC-043D	DEC-064D
Sample ID		DEC-014D 31-32	DEC-029D (75-76')	DEC-030D (3.5-4.5')	DEC-043D (80-81')	DEC-064D (29-29.5')
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		31.0-32.0	75.0-76.0	3.5-4.5	80.0-81.0	29.0-29.5
Date Sampled		05/17/11	05/11/11	05/09/11	05/12/11	05/12/11
Parameter	Units					
Volatile Organic Compounds						
1,3-Dichloropropene (trans)	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
1,4-Dichlorobenzene	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
1,4-Dioxane	MG/KG	R	R	R	R	R
2,2-Dichloropropane	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
2-Chlorotoluene	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
2-Hexanone	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 UJ	0.0051 UJ
4-Chlorotoluene	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
4-Isopropyltoluene (p-Cymene)	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
4-Methyl-2-pentanone	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
Acetone	MG/KG	R	R	R	0.0057 J	0.0043 J
Benzene	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
Bromobenzene	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
Bromochloromethane	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
Bromodichloromethane	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
Bromoform	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
Bromomethane	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
Carbon disulfide	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
Carbon tetrachloride	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
Chlorobenzene	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
Chloroethane	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
Chloroform	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
Chloromethane	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
Cyclohexane	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

Checked By: _____

Detection Limits shown are PQL

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 [LOGDATE] > 9/9/2011 AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [UNITS] <> 'UG/L' AND [PRCODE] <> 'TCRA' AND [PRCODE] = 'VOA'

TABLE 2A
VALIDATED SOIL SAMPLE RESULTS (VOCS)
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-014D	DEC-029D	DEC-030D	DEC-043D	DEC-064D
Sample ID		DEC-014D 31-32	DEC-029D (75-76')	DEC-030D (3.5-4.5')	DEC-043D (80-81')	DEC-064D (29-29.5)
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		31.0-32.0	75.0-76.0	3.5-4.5	80.0-81.0	29.0-29.5
Date Sampled		05/17/11	05/11/11	05/09/11	05/12/11	05/12/11
Parameter	Units					
Volatile Organic Compounds						
Dibromochloromethane	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
Dibromomethane	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
Dichlorodifluoromethane	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
Ethylbenzene	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
Hexachlorobutadiene	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
Iodomethane (Methyl iodide)	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
Isopropylbenzene (Cumene)	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
Methyl acetate	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
Methyl ethyl ketone (2-Butanone)	MG/KG	R	R	R	R	R
Methyl tert-butyl ether	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
Methylcyclohexane	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
Methylene chloride	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
Naphthalene	MG/KG	0.0067 U	0.0056 UJ	0.0049 U	0.0051 U	0.0051 U
n-Butylbenzene	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 UJ	0.0051 UJ
n-Propylbenzene	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
sec-Butylbenzene	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
Styrene	MG/KG	0.0067 U	0.0056 U	0.0070	0.0051 U	0.0051 U
tert-Butylbenzene	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
Tetrachloroethene	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
Toluene	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
Trichloroethene	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
Trichlorofluoromethane	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
Vinyl acetate	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

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 ([LOGDATE] > #5/12/2011) AND ([MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD')) AND [UNITS] <> 'UG/L' AND [PRCODE] <> 'RCRA' AND [PRCODE] = 'VOA'

TABLE 2A
VALIDATED SOIL SAMPLE RESULTS (VOCS)
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-014D	DEC-029D	DEC-030D	DEC-043D	DEC-064D
Sample ID		DEC-014D 31-32	DEC-029D (75-76')	DEC-030D (3.5-4.5')	DEC-043D (80-81')	DEC-064D (29-29.5)
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		31.0-32.0	75.0-76.0	3.5-4.5	80.0-81.0	29.0-29.5
Date Sampled		05/17/11	05/11/11	05/09/11	05/12/11	05/12/11
Parameter	Units					
Volatile Organic Compounds						
Vinyl chloride	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U
Xylene (total)	MG/KG	0.0067 U	0.0056 U	0.0049 U	0.0051 U	0.0051 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

Checked By _____

Detection Limits shown are PQL

TABLE 2A
VALIDATED SOIL SAMPLE RESULTS (VOCs)
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-065D	DEC-065D	DEC-065D	DEC-066D	DEC-066D
Sample ID		DEC-065D(9-10')	DEC-065D(14-15')	DEC-065D(34-35)	DEC-066D (24-25)	DEC-066D (29-30)
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		9.0-10.0	14.0-15.0	34.0-35.0	24.0-25.0	29.0-30.0
Date Sampled		05/24/11	05/24/11	05/24/11	05/20/11	05/23/11
Parameter	Units					
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
1,1,1-Trichloroethane	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
1,1,2,2-Tetrachloroethane	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
1,1,2-Trichloroethane	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
1,1-Dichloroethane	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
1,1-Dichloroethene	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
1,1-Dichloropropene	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
1,2,3-Trichlorobenzene	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
1,2,3-Trichloropropane	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
1,2,4-Trichlorobenzene	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
1,2,4-Trimethylbenzene	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
1,2-Dibromo-3-chloropropane	MG/KG	0.0056 UJ	0.0055 UJ	0.0057 U	0.0055 U	0.0050 U
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
1,2-Dichlorobenzene	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
1,2-Dichloroethane	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
1,2-Dichloroethene (cis)	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
1,2-Dichloroethene (trans)	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
1,2-Dichloropropane	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
1,3,5-Trimethylbenzene (Mesitylene)	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
1,3-Dichlorobenzene	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
1,3-Dichloropropane	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
1,3-Dichloropropene (cis)	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

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Detection Limits shown are PQL

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TABLE 2A
VALIDATED SOIL SAMPLE RESULTS (VOCs)
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-065D	DEC-065D	DEC-065D	DEC-066D	DEC-066D
Sample ID		DEC-065D(8-10')	DEC-065D(14-15')	DEC-065D(34-35)	DEC-066D (24-25)	DEC-066D (29-30)
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		9.0-10.0	14.0-15.0	34.0-35.0	24.0-25.0	29.0-30.0
Date Sampled		05/24/11	05/24/11	05/24/11	05/20/11	05/23/11
Parameter	Units					
Volatile Organic Compounds						
1,3-Dichloropropene (trans)	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
1,4-Dichlorobenzene	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
1,4-Dioxane	MG/KG	R	R	R	R	R
2,2-Dichloropropane	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
2-Chlorotoluene	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
2-Hexanone	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
4-Chlorotoluene	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
4-Isopropyltoluene (p-Cymene)	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
4-Methyl-2-pentanone	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
Acetone	MG/KG	0.0024 J	0.0028 J	0.0097 J	R	R
Benzene	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
Bromobenzene	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
Bromochloromethane	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
Bromodichloromethane	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
Bromoform	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
Bromomethane	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
Carbon disulfide	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
Carbon tetrachloride	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
Chlorobenzene	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
Chloroethane	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
Chloroform	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
Chloromethane	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
Cyclohexane	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

Checked By _____

Detection Limits shown are PQL

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 (LOGDATE) > #5/1/2011# AND (MATRIX) = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FO') AND (UNITS) <> 'UGA' AND (PRCODE) <> 'RCRA' AND (PRCODE) = 'VOA'

TABLE 2A
VALIDATED SOIL SAMPLE RESULTS (VOCs)
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-065D	DEC-065D	DEC-065D	DEC-066D	DEC-066D
Sample ID		DEC-065D(9-10')	DEC-065D(14-15')	DEC-065D(34-35)	DEC-066D (24-25)	DEC-066D (29-30)
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		9.0-10.0	14.0-15.0	34.0-35.0	24.0-25.0	29.0-30.0
Date Sampled		05/24/11	05/24/11	05/24/11	05/20/11	05/23/11
Parameter	Units					
Volatile Organic Compounds						
Dibromochloromethane	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
Dibromomethane	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
Dichlorodifluoromethane	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
Ethylbenzene	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
Hexachlorobutadiene	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
Iodomethane (Methyl iodide)	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
Isopropylbenzene (Cumene)	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
Methyl acetate	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
Methyl ethyl ketone (2-Butanone)	MG/KG	R	R	R	R	R
Methyl tert-butyl ether	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
Methylcyclohexane	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
Methylene chloride	MG/KG	0.0031 J	0.0041 J	0.0057 U	0.0022 J	0.0021 J
Naphthalene	MG/KG	0.0056 UJ	0.0055 UJ	0.014 J	0.0055 U	0.0050 U
n-Butylbenzene	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
n-Propylbenzene	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
sec-Butylbenzene	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
Styrene	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
tert-Butylbenzene	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
Tetrachloroethene	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0022 J	0.0048 J
Toluene	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
Trichloroethene	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
Trichlorofluoromethane	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
Vinyl acetate	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

[LOGDATE] > 5/1/2011# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [UNITS] <> 'UG/L' AND [PRCODE] <> 'ICRA' AND [PRCODE] = 'VOA'

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TABLE 2A
VALIDATED SOIL SAMPLE RESULTS (VOCS)
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-065D	DEC-065D	DEC-065D	DEC-066D	DEC-066D
Sample ID		DEC-065D(8-10")	DEC-065D(14-15")	DEC-065D(34-35")	DEC-066D (24-25")	DEC-066D (29-30")
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		9.0-10.0	14.0-15.0	34.0-35.0	24.0-25.0	29.0-30.0
Date Sampled		05/24/11	05/24/11	05/24/11	05/20/11	05/23/11
Parameter	Units					
Volatile Organic Compounds						
Vinyl chloride	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U
Xylene (total)	MG/KG	0.0056 U	0.0055 U	0.0057 U	0.0055 U	0.0050 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

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Detection Limits shown are PQL

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[LOGDATE] > #5/1/2011# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [UNITS] <> 'UG/L' AND [PRCCODE] <> 'RCRA' AND [PRCCODE] = 'VOA'

TABLE 2A
VALIDATED SOIL SAMPLE RESULTS (VOCs)
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-078	SG-079	SG-080	SG-081	SG-082
Sample ID		SG-78 (4-5')	SG-79 (7-8')	SG-80 (7-8')	SG-81 (7-8')	SG-82 (7-8')
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		4.0-5.0	7.0-8.0	7.0-8.0	7.0-8.0	7.0-8.0
Date Sampled		05/06/11	05/06/11	05/06/11	05/06/11	05/06/11
Parameter	Units					
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
1,1,1-Trichloroethane	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
1,1,2,2-Tetrachloroethane	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
1,1,2-Trichloroethane	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
1,1-Dichloroethane	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
1,1-Dichloroethene	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
1,1-Dichloropropene	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
1,2,3-Trichlorobenzene	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
1,2,3-Trichloropropane	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
1,2,4-Trichlorobenzene	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
1,2,4-Trimethylbenzene	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
1,2-Dibromo-3-chloropropane	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
1,2-Dichlorobenzene	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
1,2-Dichloroethane	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
1,2-Dichloroethene (cis)	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
1,2-Dichloroethene (trans)	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
1,2-Dichloropropane	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
1,3,5-Trimethylbenzene (Mesitylene)	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
1,3-Dichlorobenzene	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
1,3-Dichloropropane	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
1,3-Dichloropropene (cis)	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U

Flags assigned during chemistry validation are shown.

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[LOGDATE] > #5/11/2011# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [UNITS] <> 'UG/L' AND [PRCODE] <> 'RCRA' AND [PRCODE] = 'VOA'

TABLE 2A
VALIDATED SOIL SAMPLE RESULTS (VOCS)
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-078	SG-079	SG-080	SG-081	SG-082
Sample ID		SG-78 (4-5')	SG-79 (7-8')	SG-80 (7-8')	SG-81 (7-8')	SG-82 (7-8')
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		4.0-5.0	7.0-8.0	7.0-8.0	7.0-8.0	7.0-8.0
Date Sampled		05/06/11	05/06/11	05/06/11	05/06/11	05/06/11
Parameter	Units					
Volatile Organic Compounds						
1,3-Dichloropropene (trans)	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
1,4-Dichlorobenzene	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
1,4-Dioxane	MG/KG	R	R	R	R	R
2,2-Dichloropropane	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
2-Chlorotoluene	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
2-Hexanone	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
4-Chlorotoluene	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
4-Isopropyltoluene (p-Cymene)	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
4-Methyl-2-pentanone	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
Acetone	MG/KG	0.0045 J	0.0076 J	0.0039 J	0.0025 J	0.0029 J
Benzene	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
Bromobenzene	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
Bromochloromethane	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
Bromodichloromethane	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
Bromoform	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
Bromomethane	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
Carbon disulfide	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
Carbon tetrachloride	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
Chlorobenzene	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
Chloroethane	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
Chloroform	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
Chloromethane	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
Cyclohexane	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

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Detection Limits shown are PQL

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[LOGDATE] > 05/11/2011# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [UNITS] <> 'UG/L' AND [PRCODE] <> 'TCRA' AND [PRCODE] = 'VOA'

TABLE 2A
VALIDATED SOIL SAMPLE RESULTS (VOCs)
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-078	SG-079	SG-080	SG-081	SG-082
Sample ID		SG-78 (4-5')	SG-79 (7-8')	SG-80 (7-8')	SG-81 (7-8')	SG-82 (7-8')
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		4.0-5.0	7.0-8.0	7.0-8.0	7.0-8.0	7.0-8.0
Date Sampled		05/06/11	05/06/11	05/06/11	05/06/11	05/06/11
Parameter	Units					
Volatile Organic Compounds						
Dibromochloromethane	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
Dibromomethane	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
Dichlorodifluoromethane	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
Ethylbenzene	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
Hexachlorobutadiene	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
Iodomethane (Methyl iodide)	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
Isopropylbenzene (Cumene)	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
Methyl acetate	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
Methyl ethyl ketone (2-Butanone)	MG/KG	R	R	R	R	R
Methyl tert-butyl ether	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
Methylcyclohexane	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
Methylene chloride	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
Naphthalene	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
n-Butylbenzene	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
n-Propylbenzene	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
sec-Butylbenzene	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
Styrene	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
tert-Butylbenzene	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
Tetrachloroethene	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0014 J
Toluene	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
Trichloroethene	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
Trichlorofluoromethane	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
Vinyl acetate	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U

Flags assigned during chemistry validation are shown.

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 [[LOGDATE]] > #5/1/2011# AND [[MATRIX]] = 'SO' AND ([[SACODE]] = 'N' OR [[SACODE]] = 'FD') AND [[UNITS]] <> 'UG/L' AND [[PRCODE]] <> 'TRCA' AND [[PRCODE]] = 'VOA'

TABLE 2A
VALIDATED SOIL SAMPLE RESULTS (VOCS)
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-078	SG-079	SG-080	SG-081	SG-082
Sample ID		SG-78 (4-5')	SG-79 (7-8')	SG-80 (7-8')	SG-81 (7-8')	SG-82 (7-8')
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		4.0-5.0	7.0-8.0	7.0-8.0	7.0-8.0	7.0-8.0
Date Sampled		05/06/11	05/06/11	05/06/11	05/06/11	05/06/11
Parameter	Units					
Volatile Organic Compounds						
Vinyl chloride	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U
Xylene (total)	MG/KG	0.0053 U	0.0055 U	0.0049 U	0.0052 U	0.0059 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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 [(LOGDATE) > 8/5/2011] AND [(MATRIX) = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [UNITS] <> 'UGA' AND [PRCCODE] <> 'RCRA' AND [PRCCODE] = 'VOA']

TABLE 2A
VALIDATED SOIL SAMPLE RESULTS (VOCs)
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-083	SG-084	SG-085	SG-086	SG-087
Sample ID		SG-83 (7-8')	SG-84 (7-8')	SG-85 (7-8')	SG-86 (7-8')	SG-87 (7-8')
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		7.0-8.0	7.0-8.0	7.0-8.0	7.0-8.0	7.0-8.0
Date Sampled		05/06/11	05/06/11	05/06/11	05/06/11	05/06/11
Parameter	Units					
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
1,1,1-Trichloroethane	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
1,1,2,2-Tetrachloroethane	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
1,1,2-Trichloroethane	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
1,1-Dichloroethane	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
1,1-Dichloroethene	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
1,1-Dichloropropene	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
1,2,3-Trichlorobenzene	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
1,2,3-Trichloropropane	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
1,2,4-Trichlorobenzene	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
1,2,4-Trimethylbenzene	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
1,2-Dibromo-3-chloropropane	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
1,2-Dichlorobenzene	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
1,2-Dichloroethane	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
1,2-Dichloroethene (cis)	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
1,2-Dichloroethene (trans)	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
1,2-Dichloropropane	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
1,3,5-Trimethylbenzene (Mesitylene)	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
1,3-Dichlorobenzene	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
1,3-Dichloropropane	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
1,3-Dichloropropene (cis)	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

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Detection Limits shown are PQL

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TABLE 2A
VALIDATED SOIL SAMPLE RESULTS (VOCS)
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-083	SG-084	SG-085	SG-086	SG-087
Sample ID		SG-83 (7-8')	SG-84 (7-8')	SG-85 (7-8')	SG-86 (7-8')	SG-87 (7-8')
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		7.0-8.0	7.0-8.0	7.0-8.0	7.0-8.0	7.0-8.0
Date Sampled		05/06/11	05/06/11	05/06/11	05/06/11	05/06/11
Parameter	Units					
Volatile Organic Compounds						
1,3-Dichloropropene (trans)	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
1,4-Dichlorobenzene	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
1,4-Dioxane	MG/KG	R	R	R	R	R
2,2-Dichloropropane	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
2-Chlorotoluene	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
2-Hexanone	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
4-Chlorotoluene	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
4-Isopropyltoluene (p-Cymene)	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
4-Methyl-2-pentanone	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Acetone	MG/KG	0.0035 J	0.0035 J	0.0028 J	0.0029 J	0.0028 J
Benzene	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Bromobenzene	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Bromochloromethane	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Bromodichloromethane	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Bromoform	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Bromomethane	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Carbon disulfide	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Carbon tetrachloride	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Chlorobenzene	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Chloroethane	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Chloroform	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Chloromethane	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Cyclohexane	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

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[LOGDATE] > #5/12/2011# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [UNITS] <> 'UG/L' AND [PROCODE] <> 'RCRA' AND [PROCODE] = 'VDA'

TABLE 2A
VALIDATED SOIL SAMPLE RESULTS (VOCS)
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-083	SG-084	SG-085	SG-086	SG-087
Sample ID		SG-83 (7-8')	SG-84 (7-8')	SG-85 (7-8')	SG-86 (7-8')	SG-87 (7-8')
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		7.0-8.0	7.0-8.0	7.0-8.0	7.0-8.0	7.0-8.0
Date Sampled		05/06/11	05/06/11	05/06/11	05/06/11	05/06/11
Parameter	Units					
Volatile Organic Compounds						
Dibromochloromethane	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Dibromomethane	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Dichlorodifluoromethane	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Ethylbenzene	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Hexachlorobutadiene	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Iodomethane (Methyl iodide)	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Isopropylbenzene (Cumene)	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Methyl acetate	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Methyl ethyl ketone (2-Butanone)	MG/KG	R	R	R	R	R
Methyl tert-butyl ether	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Methylcyclohexane	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Methylene chloride	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Naphthalene	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
n-Butylbenzene	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
n-Propylbenzene	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
sec-Butylbenzene	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Styrene	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
tert-Butylbenzene	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Tetrachloroethene	MG/KG	0.011	0.014	0.0050 U	0.0014 J	0.0050 U
Toluene	MG/KG	0.0015 J	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Trichloroethene	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Trichlorofluoromethane	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Vinyl acetate	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U

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 [LOGDATE] > 9/9/2011 AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FO') AND [UNITS] <> 'UG/L' AND [PRCODE] <> 'RCRA' AND [PRCODE] = 'VOA'

TABLE 2A
VALIDATED SOIL SAMPLE RESULTS (VOCS)
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-083	SG-084	SG-085	SG-086	SG-087
Sample ID		SG-83 (7-8')	SG-84 (7-8')	SG-85 (7-8')	SG-86 (7-8')	SG-87 (7-8')
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		7.0-8.0	7.0-8.0	7.0-8.0	7.0-8.0	7.0-8.0
Date Sampled		05/06/11	05/06/11	05/06/11	05/06/11	05/06/11
Parameter	Units					
Volatile Organic Compounds						
Vinyl chloride	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Xylene (total)	MG/KG	0.0058 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U

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[LOGDATE] > 05/11/2011 AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [UNITS] <= 'UG/L' AND [PRCODE] <= 'RCRA' AND [PRCCODE] = 'VOA'

TABLE 2B
VALIDATED SOIL SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-014D	DEC-029D	DEC-030D	DEC-043D	DEC-044D
Sample ID		DEC-014D 31-32	DEC-029D (75-76)	DEC-030D (3.5-4.5)	DEC-043D (80-81)	DEC-044D (4-5)
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		31.0-32.0	75.0-76.0	3.5-4.5	80.0-81.0	4.0-5.0
Date Sampled		05/17/11	05/11/11	05/09/11	05/12/11	05/10/11
Parameter	Units					
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	NA	0.19 U	0.18 U	NA	NA
2,2-oxybis(1-Chloropropane)	MG/KG	NA	0.19 U	0.18 U	NA	NA
2,4,5-Trichlorophenol	MG/KG	NA	0.39 U	0.36 U	NA	NA
2,4,6-Trichlorophenol	MG/KG	NA	0.19 U	0.18 U	NA	NA
2,4-Dichlorophenol	MG/KG	NA	0.19 U	0.18 U	NA	NA
2,4-Dimethylphenol	MG/KG	NA	0.19 U	0.18 U	NA	NA
2,4-Dinitrophenol	MG/KG	NA	0.39 U	0.36 U	NA	NA
2,4-Dinitrotoluene	MG/KG	NA	0.19 U	0.18 U	NA	NA
2,6-Dinitrotoluene	MG/KG	NA	0.19 U	0.18 U	NA	NA
2-Chloronaphthalene	MG/KG	NA	0.19 U	0.18 U	NA	NA
2-Chlorophenol	MG/KG	NA	0.19 U	0.18 U	NA	NA
2-Methylnaphthalene	MG/KG	NA	0.19 U	0.18 U	NA	NA
2-Methylphenol (o-cresol)	MG/KG	NA	0.19 U	0.18 U	NA	NA
2-Nitroaniline	MG/KG	NA	0.39 U	0.36 U	NA	NA
2-Nitrophenol	MG/KG	NA	0.19 U	0.18 U	NA	NA
3&4-Methylphenol	MG/KG	NA	0.19 U	0.18 U	NA	NA
3,3-Dichlorobenzidine	MG/KG	NA	0.19 U	0.18 U	NA	NA
3-Nitroaniline	MG/KG	NA	0.39 U	0.36 U	NA	NA
4,6-Dinitro-2-methylphenol	MG/KG	NA	0.39 U	0.36 U	NA	NA
4-Bromophenyl-phenylether	MG/KG	NA	0.19 U	0.18 U	NA	NA
4-Chloro-3-methylphenol	MG/KG	NA	0.19 U	0.18 U	NA	NA
4-Chloroaniline	MG/KG	NA	0.19 UJ	0.18 UJ	NA	NA
4-Chlorophenyl-phenylether	MG/KG	NA	0.19 U	0.18 U	NA	NA

Flags assigned during chemistry validation are shown.

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[LOGDATE] > #5/12/11# AND [MATRIX] = 'SO' AND { [SACODE] = 'N' OR [SACODE] = 'YD' } AND [UNITS] <> 'UG/L' AND [PRCCODE] <> 'RCRA' AND [PRCCODE] <> 'VQA'

TABLE 2B
VALIDATED SOIL SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-014D	DEC-029D	DEC-030D	DEC-043D	DEC-044D
Sample ID		DEC-014D 31-32	DEC-029D (75-76')	DEC-030D (3.5-4.5')	DEC-043D (80-81')	DEC-044D (4-5')
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		31.0-32.0	75.0-76.0	3.5-4.5	80.0-81.0	4.0-5.0
Date Sampled		05/17/11	05/11/11	05/09/11	05/12/11	05/10/11
Parameter	Units					
Semivolatile Organic Compounds						
4-Nitroaniline	MG/KG	NA	0.39 U	0.36 U	NA	NA
4-Nitrophenol	MG/KG	NA	0.39 UJ	0.36 UJ	NA	NA
Acenaphthene	MG/KG	NA	0.19 U	0.18 U	NA	NA
Acenaphthylene	MG/KG	NA	0.19 U	0.18 U	NA	NA
Acetophenone	MG/KG	NA	0.19 U	0.18 U	NA	NA
Anthracene	MG/KG	NA	0.19 U	0.18 U	NA	NA
Atrazine	MG/KG	NA	0.19 UJ	0.18 UJ	NA	NA
Benzaldehyde	MG/KG	NA	0.19 U	0.18 U	NA	NA
Benzo(a)anthracene	MG/KG	NA	0.19 U	0.073 J	NA	NA
Benzo(a)pyrene	MG/KG	NA	0.19 U	0.092 J	NA	NA
Benzo(b)fluoranthene	MG/KG	NA	0.19 U	0.096 J	NA	NA
Benzo(g,h,i)perylene	MG/KG	NA	0.19 U	0.072 J	NA	NA
Benzo(k)fluoranthene	MG/KG	NA	0.19 U	0.056 J	NA	NA
bis(2-Chloroethoxy)methane	MG/KG	NA	0.19 U	0.18 U	NA	NA
bis(2-Chloroethyl)ether	MG/KG	NA	0.19 U	0.18 U	NA	NA
bis(2-Ethylhexyl)phthalate	MG/KG	NA	0.19 U	0.075 J	NA	NA
Butylbenzylphthalate	MG/KG	NA	0.19 U	0.18 U	NA	NA
Caprolactam	MG/KG	NA	0.19 U	0.18 U	NA	NA
Carbazole	MG/KG	NA	0.19 U	0.18 U	NA	NA
Chrysene	MG/KG	NA	0.19 U	0.083 J	NA	NA
Dibenz(a,h)anthracene	MG/KG	NA	0.19 U	0.023 J	NA	NA
Dibenzofuran	MG/KG	NA	0.19 U	0.18 U	NA	NA
Diethylphthalate	MG/KG	NA	0.19 U	0.18 U	NA	NA

Flags assigned during chemistry validation are shown.

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 [LOGDATE] > #5/12/11# AND [MATRIX] = 'SO' AND [[SACODE] = 'N' OR [SACODE] = 'ED'] AND [UNITS] <> 'UG/L' AND [PRCODE] <> 'RCRA' AND [PRCODE] <> 'VOC'

TABLE 2B
VALIDATED SOIL SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-014D	DEC-029D	DEC-030D	DEC-043D	DEC-044D
Sample ID		DEC-014D 31-32	DEC-029D (75-78')	DEC-030D (3.5-4.5')	DEC-043D (80-81')	DEC-044D (4-5')
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		31.0-32.0	75.0-76.0	3.5-4.5	80.0-81.0	4.0-5.0
Date Sampled		05/17/11	05/11/11	05/09/11	05/12/11	05/10/11
Parameter	Units					
Semivolatile Organic Compounds						
Dimethylphthalate	MG/KG	NA	0.19 U	0.18 U	NA	NA
Di-n-butylphthalate	MG/KG	NA	0.19 U	0.13 J	NA	NA
Di-n-octylphthalate	MG/KG	NA	0.19 U	0.18 U	NA	NA
Fluoranthene	MG/KG	NA	0.19 U	0.11 J	NA	NA
Fluorene	MG/KG	NA	0.19 U	0.18 U	NA	NA
Hexachlorobenzene	MG/KG	NA	0.19 U	0.18 U	NA	NA
Hexachlorobutadiene	MG/KG	NA	0.19 U	0.18 U	NA	NA
Hexachlorocyclopentadiene	MG/KG	NA	0.19 U	0.18 U	NA	NA
Hexachloroethane	MG/KG	NA	0.19 U	0.18 U	NA	NA
Indeno(1,2,3-cd)pyrene	MG/KG	NA	0.19 U	0.058 J	NA	NA
Isophorone	MG/KG	NA	0.19 U	0.18 U	NA	NA
Naphthalene	MG/KG	NA	0.19 U	0.18 U	NA	NA
Nitrobenzene	MG/KG	NA	0.19 U	0.18 U	NA	NA
N-Nitroso-di-n-propylamine	MG/KG	NA	0.19 U	0.18 U	NA	NA
N-Nitrosodiphenylamine	MG/KG	NA	0.19 U	0.18 U	NA	NA
Pentachlorophenol	MG/KG	NA	0.39 U	0.36 U	NA	NA
Phenanthrene	MG/KG	NA	0.19 U	0.046 J	NA	NA
Phenol	MG/KG	NA	0.19 U	0.18 U	NA	NA
Pyrene	MG/KG	NA	0.19 U	0.16 J	NA	NA
Pesticide Organic Compounds						
4,4'-DDD	MG/KG	NA	0.0038 U	0.0035 U	NA	NA
4,4'-DDE	MG/KG	NA	0.0038 U	0.0035 U	NA	NA
4,4'-DDT	MG/KG	NA	0.0038 U	0.0035 U	NA	NA

Flags assigned during chemistry validation are shown.

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 [LOGDATE] > #5/11/2011# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [UNITS] <> 'UG/L' AND [PRCODE] <> 'RCRA' AND [PRCODE] <> 'VGA'

TABLE 2B
VALIDATED SOIL SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-014D	DEC-029D	DEC-030D	DEC-043D	DEC-044D
Sample ID		DEC-014D 31-32	DEC-029D (75-76')	DEC-030D (3.5-4.5')	DEC-043D (80-81')	DEC-044D (4-5')
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		31.0-32.0	75.0-76.0	3.5-4.5	80.0-81.0	4.0-5.0
Date Sampled		05/17/11	05/11/11	05/09/11	05/12/11	05/10/11
Parameter	Units					
Pesticide Organic Compounds						
Aldrin	MG/KG	NA	0.0020 U	0.0018 U	NA	NA
alpha-BHC	MG/KG	NA	0.0020 U	0.0018 U	NA	NA
alpha-Chlordane	MG/KG	NA	0.0020 U	0.017 J	NA	NA
beta-BHC	MG/KG	NA	0.0020 U	0.0018 U	NA	NA
delta-BHC	MG/KG	NA	0.0020 U	0.0018 U	NA	NA
Dieldrin	MG/KG	NA	0.0038 U	0.0052	NA	NA
Endosulfan I	MG/KG	NA	0.0020 U	0.0018 U	NA	NA
Endosulfan II	MG/KG	NA	0.0038 U	0.0035 U	NA	NA
Endosulfan sulfate	MG/KG	NA	0.0038 U	0.0035 U	NA	NA
Endrin	MG/KG	NA	0.0038 U	R	NA	NA
Endrin aldehyde	MG/KG	NA	0.0038 U	0.0035 U	NA	NA
Endrin ketone	MG/KG	NA	0.0038 U	0.0035 U	NA	NA
gamma-BHC (Lindane)	MG/KG	NA	0.0020 U	0.0018 U	NA	NA
gamma-Chlordane	MG/KG	NA	0.0020 U	0.014 J	NA	NA
Heptachlor	MG/KG	NA	0.0020 U	0.0018 U	NA	NA
Heptachlor epoxide	MG/KG	NA	0.0020 U	0.0018 U	NA	NA
Methoxychlor	MG/KG	NA	0.020 U	0.018 U	NA	NA
Toxaphene	MG/KG	NA	0.20 U	0.18 U	NA	NA
Herbicides						
2,4,5-T	MG/KG	NA	0.00734 U	0.00717 U	NA	NA
2,4,5-TP (Silvex)	MG/KG	NA	0.00734 U	0.00717 U	NA	NA
2,4-D	MG/KG	NA	0.00734 U	0.00717 U	NA	NA
2,4-DB	MG/KG	NA	0.00734 U	0.00717 U	NA	NA

Flags assigned during chemistry validation are shown.

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TABLE 2B
VALIDATED SOIL SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-014D	DEC-029D	DEC-030D	DEC-043D	DEC-044D
Sample ID		DEC-014D 31-32	DEC-029D (75-76)	DEC-030D (3.5-4.5)	DEC-043D (80-81)	DEC-044D (4-5)
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		31.0-32.0	75.0-76.0	3.5-4.5	80.0-81.0	4.0-5.0
Date Sampled		05/17/11	05/11/11	05/09/11	05/12/11	05/10/11
Parameter	Units					
Herbicides						
Dalapon	MG/KG	NA	0.00734 U	0.00717 U	NA	NA
Dicamba	MG/KG	NA	0.00734 U	0.00717 U	NA	NA
Dichlorprop	MG/KG	NA	0.00227 U	0.00341 U	NA	NA
Dinoseb	MG/KG	NA	0.00734 U	0.00717 U	NA	NA
MCPA	MG/KG	NA	2.46 U	2.41 U	NA	NA
MCPB	MG/KG	NA	0.819 U	0.799 U	NA	NA
MCPB	MG/KG	NA	2.46 U	2.41 U	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	NA	0.038 U	0.035 U	NA	NA
Aroclor 1221	MG/KG	NA	0.038 U	0.035 U	NA	NA
Aroclor 1232	MG/KG	NA	0.038 U	0.035 U	NA	NA
Aroclor 1242	MG/KG	NA	0.038 U	0.035 U	NA	NA
Aroclor 1248	MG/KG	NA	0.038 U	0.035 U	NA	NA
Aroclor 1254	MG/KG	NA	0.038 U	0.035 U	NA	NA
Aroclor 1260	MG/KG	NA	0.038 U	0.035 U	NA	NA
Aroclor 1262	MG/KG	NA	0.038 U	0.035 U	NA	NA
Aroclor 1268	MG/KG	NA	0.038 U	0.035 U	NA	NA
Metals						
Aluminum	MG/KG	NA	2,270	6,760	NA	NA
Antimony	MG/KG	NA	0.62 U	0.65 U	NA	NA
Arsenic	MG/KG	NA	0.70	2.5	NA	NA
Barium	MG/KG	NA	19.3	59.9	NA	NA
Beryllium	MG/KG	NA	0.15 B	0.46	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

Checked By: _____

Detection Limits shown are PQL

TABLE 2B
VALIDATED SOIL SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-014D	DEC-029D	DEC-030D	DEC-043D	DEC-044D
Sample ID		DEC-014D 31-32	DEC-029D (75-76')	DEC-030D (3.5-4.5')	DEC-043D (80-81')	DEC-044D (4-5')
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		31.0-32.0	75.0-76.0	3.5-4.5	80.0-81.0	4.0-5.0
Date Sampled		05/17/11	05/11/11	05/09/11	05/12/11	05/10/11
Parameter	Units					
Metals						
Cadmium	MG/KG	NA	0.048 B	0.49	NA	NA
Calcium	MG/KG	NA	566	1,210	NA	NA
Chromium	MG/KG	NA	4.7	27.3	NA	NA
Chromium VI	MG/KG	NA	4.7 U	4.1 U	NA	NA
Cobalt	MG/KG	NA	2.9	7.0	NA	NA
Copper	MG/KG	NA	6.4	23.7	NA	NA
Iron	MG/KG	NA	4,730	23,100	NA	NA
Lead	MG/KG	NA	1.4	74.2	NA	NA
Magnesium	MG/KG	NA	1,220	2,080	NA	NA
Manganese	MG/KG	NA	242	421	NA	NA
Mercury	MG/KG	NA	0.047 U	0.32	NA	NA
Nickel	MG/KG	NA	5.6	12.2	NA	NA
Potassium	MG/KG	NA	290	1,270	NA	NA
Selenium	MG/KG	NA	0.94 U	0.49 B	NA	NA
Silver	MG/KG	NA	0.94 U	0.98 U	NA	NA
Sodium	MG/KG	NA	69.2	79.9	NA	NA
Thallium	MG/KG	NA	0.62 U	0.65 U	NA	NA
Vanadium	MG/KG	NA	5.1	23.4	NA	NA
Zinc	MG/KG	NA	10.0	61.5	NA	NA
Miscellaneous Parameters						
Cyanide	MG/KG	NA	1.1 U	1.1 U	NA	NA
Moisture, Percent	%	26	16	6.8 J	12	14

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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[LOGDATE] > 05/1/2011 AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [UNITS] <> 'UG/L' AND [PRCODE] <> 'RCRA' AND [PRCODE] <> 'VGA'

TABLE 2B
VALIDATED SOIL SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-064D	DEC-065D	DEC-065D	DEC-065D	DEC-066
Sample ID		DEC-064D (29-29.5)	DEC-065D (9-10')	DEC-065D (14-15')	DEC-065D (34-35)	DEC-066S (1-2')
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		29.0-29.5	9.0-10.0	14.0-15.0	34.0-35.0	1.0-2.0
Date Sampled		05/12/11	05/24/11	05/24/11	05/24/11	05/09/11
Parameter	Units					
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	NA	0.18 U	0.19 U	NA	NA
2,2-oxybis(1-Chloropropane)	MG/KG	NA	0.18 U	0.19 U	NA	NA
2,4,5-Trichlorophenol	MG/KG	NA	0.37 U	0.38 U	NA	NA
2,4,6-Trichlorophenol	MG/KG	NA	0.18 U	0.19 U	NA	NA
2,4-Dichlorophenol	MG/KG	NA	0.18 U	0.19 U	NA	NA
2,4-Dimethylphenol	MG/KG	NA	0.18 U	0.19 U	NA	NA
2,4-Dinitrophenol	MG/KG	NA	0.37 UJ	0.38 UJ	NA	NA
2,4-Dinitrotoluene	MG/KG	NA	0.18 U	0.19 U	NA	NA
2,6-Dinitrotoluene	MG/KG	NA	0.18 U	0.19 U	NA	NA
2-Chloronaphthalene	MG/KG	NA	0.18 U	0.19 U	NA	NA
2-Chlorophenol	MG/KG	NA	0.18 U	0.19 U	NA	NA
2-Methylnaphthalene	MG/KG	NA	0.18 UJ	0.19 UJ	NA	NA
2-Methylphenol (o-cresol)	MG/KG	NA	0.18 U	0.19 U	NA	NA
2-Nitroaniline	MG/KG	NA	0.37 U	0.38 U	NA	NA
2-Nitrophenol	MG/KG	NA	0.18 U	0.19 U	NA	NA
3&4-Methylphenol	MG/KG	NA	0.18 U	0.19 U	NA	NA
3,3-Dichlorobenzidine	MG/KG	NA	0.18 U	0.19 U	NA	NA
3-Nitroaniline	MG/KG	NA	0.37 U	0.38 U	NA	NA
4,6-Dinitro-2-methylphenol	MG/KG	NA	0.37 U	0.38 U	NA	NA
4-Bromophenyl-phenylether	MG/KG	NA	0.18 U	0.19 U	NA	NA
4-Chloro-3-methylphenol	MG/KG	NA	0.18 U	0.19 U	NA	NA
4-Chloroaniline	MG/KG	NA	0.18 U	0.19 U	NA	NA
4-Chlorophenyl-phenylether	MG/KG	NA	0.18 U	0.19 U	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

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Detection Limits shown are PQL

[LOGDATE] > #5/12/2011# AND [MATRIX] = 'SO' AND [SACODE] = 'N' OR [SACODE] = 'FO' AND [UNITS] <> 'UG/L' AND [PRCODE] <> 'KGRA' AND [PRCODE] <> 'VGA'

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TABLE 2B
VALIDATED SOIL SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-064D	DEC-065D	DEC-065D	DEC-065D	DEC-066
Sample ID		DEC-064D (29-29.5)	DEC-065D(9-10')	DEC-065D(14-15')	DEC-065D(34-35)	DEC-066S (1-2')
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		29.0-29.5	9.0-10.0	14.0-15.0	34.0-35.0	1.0-2.0
Date Sampled		05/12/11	05/24/11	05/24/11	05/24/11	05/09/11
Parameter	Units					
Semivolatile Organic Compounds						
4-Nitroaniline	MG/KG	NA	0.37 U	0.38 U	NA	NA
4-Nitrophenol	MG/KG	NA	0.37 U	0.38 U	NA	NA
Acenaphthene	MG/KG	NA	0.18 U	0.19 U	NA	NA
Acenaphthylene	MG/KG	NA	0.18 U	0.19 U	NA	NA
Acetophenone	MG/KG	NA	0.18 U	0.19 U	NA	NA
Anthracene	MG/KG	NA	0.18 U	0.19 U	NA	NA
Atrazine	MG/KG	NA	0.18 U	0.19 U	NA	NA
Benzaldehyde	MG/KG	NA	0.18 U	0.19 U	NA	NA
Benzo(a)anthracene	MG/KG	NA	0.18 U	0.19 U	NA	NA
Benzo(a)pyrene	MG/KG	NA	0.18 U	0.19 U	NA	NA
Benzo(b)fluoranthene	MG/KG	NA	0.18 U	0.19 U	NA	NA
Benzo(g,h,i)perylene	MG/KG	NA	0.18 U	0.19 U	NA	NA
Benzo(k)fluoranthene	MG/KG	NA	0.18 U	0.19 U	NA	NA
bis(2-Chloroethoxy)methane	MG/KG	NA	0.18 U	0.19 U	NA	NA
bis(2-Chloroethyl)ether	MG/KG	NA	0.18 U	0.19 U	NA	NA
bis(2-Ethylhexyl)phthalate	MG/KG	NA	0.26	0.073 J	NA	NA
Butylbenzylphthalate	MG/KG	NA	0.18 U	0.19 U	NA	NA
Caprolactam	MG/KG	NA	0.18 U	0.19 U	NA	NA
Carbazole	MG/KG	NA	0.18 U	0.19 U	NA	NA
Chrysene	MG/KG	NA	0.18 U	0.19 U	NA	NA
Dibenz(a,h)anthracene	MG/KG	NA	0.18 U	0.19 U	NA	NA
Dibenzofuran	MG/KG	NA	0.18 U	0.19 U	NA	NA
Diethylphthalate	MG/KG	NA	0.18 U	0.19 U	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

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Detection Limits shown are PQL

[LOGDATE] > 45/12/2011 AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [UNITS] <> 'UG/L' AND [PRCODE] <> 'RCRA' AND [PRCODE] <> 'VQA'

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TABLE 2B
VALIDATED SOIL SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-064D	DEC-065D	DEC-065D	DEC-065D	DEC-066
Sample ID		DEC-064D (29-29.5)	DEC-065D (9-10')	DEC-065D (14-15')	DEC-065D (34-35)	DEC-066S (1-2')
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		29.0-29.5	9.0-10.0	14.0-15.0	34.0-35.0	1.0-2.0
Date Sampled		05/12/11	05/24/11	05/24/11	05/24/11	05/09/11
Parameter	Units					
Semivolatile Organic Compounds						
Dimethylphthalate	MG/KG	NA	0.18 U	0.19 U	NA	NA
Di-n-butylphthalate	MG/KG	NA	0.18 U	0.19 U	NA	NA
Di-n-octylphthalate	MG/KG	NA	0.18 U	0.19 U	NA	NA
Fluoranthene	MG/KG	NA	0.18 U	0.19 U	NA	NA
Fluorene	MG/KG	NA	0.18 U	0.19 U	NA	NA
Hexachlorobenzene	MG/KG	NA	0.18 U	0.19 U	NA	NA
Hexachlorobutadiene	MG/KG	NA	0.18 U	0.19 U	NA	NA
Hexachlorocyclopentadiene	MG/KG	NA	0.18 U	0.19 U	NA	NA
Hexachloroethane	MG/KG	NA	0.18 U	0.19 U	NA	NA
Indeno(1,2,3-cd)pyrene	MG/KG	NA	0.18 U	0.19 U	NA	NA
Isophorone	MG/KG	NA	0.18 U	0.19 U	NA	NA
Naphthalene	MG/KG	NA	0.18 U	0.19 U	NA	NA
Nitrobenzene	MG/KG	NA	0.18 UJ	0.19 UJ	NA	NA
N-Nitroso-di-n-propylamine	MG/KG	NA	0.18 U	0.19 U	NA	NA
N-Nitrosodiphenylamine	MG/KG	NA	0.18 U	0.19 U	NA	NA
Pentachlorophenol	MG/KG	NA	0.37 U	0.38 U	NA	NA
Phenanthrene	MG/KG	NA	0.18 U	0.19 U	NA	NA
Phenol	MG/KG	NA	0.18 U	0.19 U	NA	NA
Pyrene	MG/KG	NA	0.18 U	0.19 U	NA	NA
Pesticide Organic Compounds						
4,4'-DDD	MG/KG	NA	0.0037 U	0.0038 U	NA	NA
4,4'-DDE	MG/KG	NA	0.0037 U	0.0038 U	NA	NA
4,4'-DDT	MG/KG	NA	0.0037 U	0.0038 U	NA	NA

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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 [LOGDATE] > 9/5/2011# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [UNITS] <> 'UGA' AND [PRCODE] <> 'RCRA' AND [PRCODE] <> 'VQA'

TABLE 2B
VALIDATED SOIL SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-064D	DEC-065D	DEC-065D	DEC-065D	DEC-066
Sample ID		DEC-064D (29-29.5)	DEC-065D (9-10')	DEC-065D (14-15')	DEC-065D (34-35)	DEC-066S (1-2')
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		29.0-29.5	9.0-10.0	14.0-15.0	34.0-35.0	1.0-2.0
Date Sampled		05/12/11	05/24/11	05/24/11	05/24/11	05/09/11
Parameter	Units					
Pesticide Organic Compounds						
Aldrin	MG/KG	NA	0.0019 U	0.0020 U	NA	NA
alpha-BHC	MG/KG	NA	0.0019 U	0.0020 U	NA	NA
alpha-Chlordane	MG/KG	NA	0.0019 U	0.0020 U	NA	NA
beta-BHC	MG/KG	NA	0.0019 U	0.0020 U	NA	NA
delta-BHC	MG/KG	NA	0.0019 U	0.0020 U	NA	NA
Dieldrin	MG/KG	NA	0.0037 U	0.0038 U	NA	NA
Endosulfan I	MG/KG	NA	0.0019 U	0.0020 U	NA	NA
Endosulfan II	MG/KG	NA	0.0037 U	0.0038 U	NA	NA
Endosulfan sulfate	MG/KG	NA	0.0037 U	0.0038 U	NA	NA
Endrin	MG/KG	NA	0.0037 U	0.0038 U	NA	NA
Endrin aldehyde	MG/KG	NA	0.0037 U	0.0038 U	NA	NA
Endrin ketone	MG/KG	NA	0.0037 U	0.0038 U	NA	NA
gamma-BHC (Lindane)	MG/KG	NA	0.0019 U	0.0020 U	NA	NA
gamma-Chlordane	MG/KG	NA	0.0019 U	0.0020 U	NA	NA
Heptachlor	MG/KG	NA	0.0019 U	0.0020 U	NA	NA
Heptachlor epoxide	MG/KG	NA	0.0019 U	0.0020 U	NA	NA
Methoxychlor	MG/KG	NA	0.019 U	0.020 U	NA	NA
Toxaphene	MG/KG	NA	0.19 U	0.20 U	NA	NA
Herbicides						
2,4,5-T	MG/KG	NA	0.00733 U	0.0077 U	NA	NA
2,4,5-TP (Silvex)	MG/KG	NA	0.00733 U	0.0077 U	NA	NA
2,4-D	MG/KG	NA	0.00733 U	0.0077 U	NA	NA
2,4-DB	MG/KG	NA	0.00733 U	0.0077 U	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

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[LOGDATE] > #5/2011# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [UNITS] <> 'UG/L' AND [PRCODE] <> 'RCRA' AND [PRCODE] <> 'VDA'

TABLE 2B
VALIDATED SOIL SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-064D	DEC-065D	DEC-065D	DEC-065D	DEC-066
Sample ID		DEC-064D (29-29.5)	DEC-065D(9-10')	DEC-065D(14-15')	DEC-065D(34-35)	DEC-066S (1-2')
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		29.0-29.5	9.0-10.0	14.0-15.0	34.0-35.0	1.0-2.0
Date Sampled		05/12/11	05/24/11	05/24/11	05/24/11	05/09/11
Parameter	Units					
Herbicides						
Dalapon	MG/KG	NA	0.00733 U	0.0077 U	NA	NA
Dicamba	MG/KG	NA	0.00733 U	0.0077 U	NA	NA
Dichlorprop	MG/KG	NA	0.00733 U	0.00238 U	NA	NA
Dinoseb	MG/KG	NA	0.00733 U	0.0077 U	NA	NA
MCPA	MG/KG	NA	2.46 UJ	2.59 UJ	NA	NA
MCPB	MG/KG	NA	0.818 UJ	2.59 UJ	NA	NA
MCPP	MG/KG	NA	2.46 U	2.59 U	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	NA	0.037 U	0.038 U	NA	NA
Aroclor 1221	MG/KG	NA	0.037 U	0.038 U	NA	NA
Aroclor 1232	MG/KG	NA	0.037 U	0.038 U	NA	NA
Aroclor 1242	MG/KG	NA	0.037 U	0.038 U	NA	NA
Aroclor 1248	MG/KG	NA	0.037 U	0.038 U	NA	NA
Aroclor 1254	MG/KG	NA	0.037 U	0.038 U	NA	NA
Aroclor 1260	MG/KG	NA	0.037 U	0.038 U	NA	NA
Aroclor 1262	MG/KG	NA	0.037 U	0.038 U	NA	NA
Aroclor 1268	MG/KG	NA	0.037 U	0.038 U	NA	NA
Metals						
Aluminum	MG/KG	NA	7,470	10,100	NA	NA
Antimony	MG/KG	NA	0.66 U	0.90 U	NA	NA
Arsenic	MG/KG	NA	0.53 B	0.90 U	NA	NA
Barium	MG/KG	NA	47.9	113	NA	NA
Beryllium	MG/KG	NA	0.68	1.1	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

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Detection Limits shown are PQL

TABLE 2B
VALIDATED SOIL SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-064D	DEC-065D	DEC-065D	DEC-065D	DEC-066
Sample ID		DEC-064D (29-29.5)	DEC-065D(9-10')	DEC-065D(14-15')	DEC-065D(34-35)	DEC-066S (1-2')
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		29.0-29.5	9.0-10.0	14.0-15.0	34.0-35.0	1.0-2.0
Date Sampled		05/12/11	05/24/11	05/24/11	05/24/11	05/09/11
Parameter	Units					
Metals						
Cadmium	MG/KG	NA	0.17 U	0.23 U	NA	NA
Calcium	MG/KG	NA	2,490	6,070	NA	NA
Chromium	MG/KG	NA	22.8	32.7	NA	NA
Chromium VI	MG/KG	NA	4.4 U	4.5 U	NA	NA
Cobalt	MG/KG	NA	7.6	15.4	NA	NA
Copper	MG/KG	NA	13.8	29.8	NA	NA
Iron	MG/KG	NA	27,700	54,900	NA	NA
Lead	MG/KG	NA	6.8	10.5	NA	NA
Magnesium	MG/KG	NA	2,340	3,180	NA	NA
Manganese	MG/KG	NA	529	1,290	NA	NA
Mercury	MG/KG	NA	0.0063 B	0.0060 B	NA	NA
Nickel	MG/KG	NA	12.6	22.2	NA	NA
Potassium	MG/KG	NA	43.6	2,080	NA	NA
Selenium	MG/KG	NA	0.99 U	1.4 U	NA	NA
Silver	MG/KG	NA	0.99 U	1.4 U	NA	NA
Sodium	MG/KG	NA	9.0 B	360	NA	NA
Thallium	MG/KG	NA	2.7	3.4	NA	NA
Vanadium	MG/KG	NA	32.3	54.2	NA	NA
Zinc	MG/KG	NA	44.0	55.4	NA	NA
Miscellaneous Parameters						
Cyanide	MG/KG	NA	0.63 U	1.1 U	NA	NA
Moisture, Percent	%	7.4 J	10	13	19	22

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

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Detection Limits shown are PQL

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 [LOGDATE] > #5/1/2011# AND [MATRIX] = 'SO' AND { [SACODE] = 'N' OR [SACODE] = 'YD' } AND [UNITS] <> 'U/L' AND [PRCODE] <> 'RCRA' AND [PRCODE] <> 'VOA'

TABLE 2B
VALIDATED SOIL SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-066D	DEC-066D	SG-078	SG-079	SG-080
Sample ID		DEC-066D (24-25)	DEC-066D (29-30)	SG-78 (4-5')	SG-79 (7-8')	SG-80 (7-8')
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		24.0-25.0	29.0-30.0	4.0-5.0	7.0-8.0	7.0-8.0
Date Sampled		05/20/11	05/23/11	05/06/11	05/06/11	05/06/11
Parameter	Units					
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	0.20 U	NA	NA	NA	NA
2,2-oxybis(1-Chloropropane)	MG/KG	0.20 U	NA	NA	NA	NA
2,4,5-Trichlorophenol	MG/KG	0.41 U	NA	NA	NA	NA
2,4,6-Trichlorophenol	MG/KG	0.20 U	NA	NA	NA	NA
2,4-Dichlorophenol	MG/KG	0.20 U	NA	NA	NA	NA
2,4-Dimethylphenol	MG/KG	0.20 U	NA	NA	NA	NA
2,4-Dinitrophenol	MG/KG	0.41 UJ	NA	NA	NA	NA
2,4-Dinitrotoluene	MG/KG	0.20 U	NA	NA	NA	NA
2,6-Dinitrotoluene	MG/KG	0.20 U	NA	NA	NA	NA
2-Chloronaphthalene	MG/KG	0.20 U	NA	NA	NA	NA
2-Chlorophenol	MG/KG	0.20 U	NA	NA	NA	NA
2-Methylnaphthalene	MG/KG	0.20 UJ	NA	NA	NA	NA
2-Methylphenol (o-cresol)	MG/KG	0.20 U	NA	NA	NA	NA
2-Nitroaniline	MG/KG	0.41 U	NA	NA	NA	NA
2-Nitrophenol	MG/KG	0.20 U	NA	NA	NA	NA
3&4-Methylphenol	MG/KG	0.20 U	NA	NA	NA	NA
3,3-Dichlorobenzidine	MG/KG	0.20 U	NA	NA	NA	NA
3-Nitroaniline	MG/KG	0.41 U	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	MG/KG	0.41 U	NA	NA	NA	NA
4-Bromophenyl-phenylether	MG/KG	0.20 U	NA	NA	NA	NA
4-Chloro-3-methylphenol	MG/KG	0.20 U	NA	NA	NA	NA
4-Chloroaniline	MG/KG	0.20 U	NA	NA	NA	NA
4-Chlorophenyl-phenylether	MG/KG	0.20 U	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

Checked By: _____

Detection Limits shown are PQL

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[LOGDATE] > 05/12/2011 AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [UNITS] <> 'UG/L' AND [PRCODE] <> 'RCRA' AND [PRCODE] <> 'VDA'

TABLE 2B
VALIDATED SOIL SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-066D	DEC-066D	SG-078	SG-079	SG-080
Sample ID		DEC-066D (24-25)	DEC-066D (28-30)	SG-78 (4-5')	SG-79 (7-8')	SG-80 (7-8')
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		24.0-25.0	29.0-30.0	4.0-5.0	7.0-8.0	7.0-8.0
Date Sampled		05/20/11	05/23/11	05/06/11	05/06/11	05/06/11
Parameter	Units					
Semivolatile Organic Compounds						
4-Nitroaniline	MG/KG	0.41 U	NA	NA	NA	NA
4-Nitrophenol	MG/KG	0.41 U	NA	NA	NA	NA
Acenaphthene	MG/KG	0.20 U	NA	NA	NA	NA
Acenaphthylene	MG/KG	0.20 U	NA	NA	NA	NA
Acetophenone	MG/KG	0.20 U	NA	NA	NA	NA
Anthracene	MG/KG	0.20 U	NA	NA	NA	NA
Atrazine	MG/KG	0.20 U	NA	NA	NA	NA
Benzaldehyde	MG/KG	0.20 U	NA	NA	NA	NA
Benzo(a)anthracene	MG/KG	0.20 U	NA	NA	NA	NA
Benzo(a)pyrene	MG/KG	0.20 U	NA	NA	NA	NA
Benzo(b)fluoranthene	MG/KG	0.20 U	NA	NA	NA	NA
Benzo(g,h,i)perylene	MG/KG	0.20 U	NA	NA	NA	NA
Benzo(k)fluoranthene	MG/KG	0.20 U	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	MG/KG	0.20 U	NA	NA	NA	NA
bis(2-Chloroethyl)ether	MG/KG	0.20 U	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	MG/KG	0.091 J	NA	NA	NA	NA
Butylbenzylphthalate	MG/KG	0.20 U	NA	NA	NA	NA
Caprolactam	MG/KG	0.20 U	NA	NA	NA	NA
Carbazole	MG/KG	0.20 U	NA	NA	NA	NA
Chrysene	MG/KG	0.20 U	NA	NA	NA	NA
Dibenz(a,h)anthracene	MG/KG	0.20 U	NA	NA	NA	NA
Dibenzofuran	MG/KG	0.20 U	NA	NA	NA	NA
Diethylphthalate	MG/KG	0.20 U	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

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Detection Limits shown are PQL

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[LOGDATE] > 9/9/2011# AND [MATRIX] = 'SO' AND [[SACODE] = 'N' OR [SACODE] = 'FD'] AND [UNITS] <> 'UG/L' AND [PRCODE] <> 'RCRA' AND [PRCODE] <> 'VOA'

TABLE 2B
VALIDATED SOIL SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-066D	DEC-066D	SG-078	SG-079	SG-080
Sample ID		DEC-066D (24-25)	DEC-066D (29-30)	SG-78 (4-5)	SG-79 (7-8)	SG-80 (7-8)
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		24.0-25.0	29.0-30.0	4.0-5.0	7.0-8.0	7.0-8.0
Date Sampled		05/20/11	05/23/11	05/06/11	05/06/11	05/06/11
Parameter	Units					
Semivolatile Organic Compounds						
Dimethylphthalate	MG/KG	0.20 U	NA	NA	NA	NA
Di-n-butylphthalate	MG/KG	0.20 U	NA	NA	NA	NA
Di-n-octylphthalate	MG/KG	0.20 U	NA	NA	NA	NA
Fluoranthene	MG/KG	0.20 U	NA	NA	NA	NA
Fluorene	MG/KG	0.20 U	NA	NA	NA	NA
Hexachlorobenzene	MG/KG	0.20 U	NA	NA	NA	NA
Hexachlorobutadiene	MG/KG	0.20 U	NA	NA	NA	NA
Hexachlorocyclopentadiene	MG/KG	0.20 U	NA	NA	NA	NA
Hexachloroethane	MG/KG	0.20 U	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	MG/KG	0.20 U	NA	NA	NA	NA
Isophorone	MG/KG	0.20 U	NA	NA	NA	NA
Naphthalene	MG/KG	0.20 U	NA	NA	NA	NA
Nitrobenzene	MG/KG	0.20 UJ	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	MG/KG	0.20 U	NA	NA	NA	NA
N-Nitrosodiphenylamine	MG/KG	0.20 U	NA	NA	NA	NA
Pentachlorophenol	MG/KG	0.41 U	NA	NA	NA	NA
Phenanthrene	MG/KG	0.20 U	NA	NA	NA	NA
Phenol	MG/KG	0.20 U	NA	NA	NA	NA
Pyrene	MG/KG	0.20 U	NA	NA	NA	NA
Pesticide Organic Compounds						
4,4'-DDD	MG/KG	0.0040 U	NA	NA	NA	NA
4,4'-DDE	MG/KG	0.0040 U	NA	NA	NA	NA
4,4'-DDT	MG/KG	0.0040 U	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

Checked By _____

Detection Limits shown are PQL

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[LOGDATE] > 05/12/11# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [UNITS] <> 'UG/L' AND [PRCCODE] <> 'RCRA' AND [PRCCODE] <> 'VOC'

TABLE 2B
VALIDATED SOIL SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-066D	DEC-066D	SG-078	SG-079	SG-080
Sample ID		DEC-066D (24-25)	DEC-066D (29-30)	SG-78 (4-5')	SG-79 (7-8')	SG-80 (7-8')
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		24.0-25.0	29.0-30.0	4.0-5.0	7.0-8.0	7.0-8.0
Date Sampled		05/20/11	05/23/11	05/06/11	05/06/11	05/06/11
Parameter	Units					
Pesticide Organic Compounds						
Aldrin	MG/KG	0.0020 U	NA	NA	NA	NA
alpha-BHC	MG/KG	0.0020 U	NA	NA	NA	NA
alpha-Chlordane	MG/KG	0.0020 U	NA	NA	NA	NA
beta-BHC	MG/KG	0.0020 U	NA	NA	NA	NA
delta-BHC	MG/KG	0.0020 U	NA	NA	NA	NA
Dieldrin	MG/KG	0.0040 U	NA	NA	NA	NA
Endosulfan I	MG/KG	0.0020 U	NA	NA	NA	NA
Endosulfan II	MG/KG	0.0040 U	NA	NA	NA	NA
Endosulfan sulfate	MG/KG	0.0040 U	NA	NA	NA	NA
Endrin	MG/KG	0.0040 U	NA	NA	NA	NA
Endrin aldehyde	MG/KG	0.0040 U	NA	NA	NA	NA
Endrin ketone	MG/KG	0.0040 U	NA	NA	NA	NA
gamma-BHC (Lindane)	MG/KG	0.0020 U	NA	NA	NA	NA
gamma-Chlordane	MG/KG	0.0020 U	NA	NA	NA	NA
Heptachlor	MG/KG	0.0020 U	NA	NA	NA	NA
Heptachlor epoxide	MG/KG	0.0020 U	NA	NA	NA	NA
Methoxychlor	MG/KG	0.020 U	NA	NA	NA	NA
Toxaphene	MG/KG	0.20 U	NA	NA	NA	NA
Herbicides						
2,4,5-T	MG/KG	0.00885 U	NA	NA	NA	NA
2,4,5-TP (Silvex)	MG/KG	0.00885 U	NA	NA	NA	NA
2,4-D	MG/KG	0.00885 U	NA	NA	NA	NA
2,4-DB	MG/KG	0.00885 U	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

Checked By _____

Detection Limits shown are PQL

TABLE 2B
VALIDATED SOIL SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-066D	DEC-066D	SG-078	SG-079	SG-080
Sample ID		DEC-066D (24-25)	DEC-066D (29-30)	SG-78 (4-5')	SG-79 (7-8')	SG-80 (7-8')
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		24.0-25.0	29.0-30.0	4.0-5.0	7.0-8.0	7.0-8.0
Date Sampled		05/20/11	05/23/11	05/06/11	05/06/11	05/06/11
Parameter	Units					
Herbicides						
Dalapon	MG/KG	0.00885 U	NA	NA	NA	NA
Dicamba	MG/KG	0.00273 U	NA	NA	NA	NA
Dichlorprop	MG/KG	0.00885 U	NA	NA	NA	NA
Dinoseb	MG/KG	0.00885 U	NA	NA	NA	NA
MCPA	MG/KG	2.97 UJ	NA	NA	NA	NA
MCPB	MG/KG	1.86 UJ	NA	NA	NA	NA
MCPP	MG/KG	2.97 U	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	0.040 U	NA	NA	NA	NA
Aroclor 1221	MG/KG	0.040 U	NA	NA	NA	NA
Aroclor 1232	MG/KG	0.040 U	NA	NA	NA	NA
Aroclor 1242	MG/KG	0.040 U	NA	NA	NA	NA
Aroclor 1248	MG/KG	0.040 U	NA	NA	NA	NA
Aroclor 1254	MG/KG	0.040 U	NA	NA	NA	NA
Aroclor 1260	MG/KG	0.040 U	NA	NA	NA	NA
Aroclor 1262	MG/KG	0.040 U	NA	NA	NA	NA
Aroclor 1268	MG/KG	0.040 U	NA	NA	NA	NA
Metals						
Aluminum	MG/KG	4,610	NA	NA	NA	NA
Antimony	MG/KG	0.77 U	NA	NA	NA	NA
Arsenic	MG/KG	0.77 U	NA	NA	NA	NA
Barium	MG/KG	27.2	NA	NA	NA	NA
Beryllium	MG/KG	0.40	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

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Detection Limits shown are PQL

TABLE 2B
VALIDATED SOIL SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-066D	DEC-066D	SG-078	SG-079	SG-080
Sample ID		DEC-066D (24-25)	DEC-066D (28-30)	SG-78 (4-5')	SG-79 (7-8')	SG-80 (7-8')
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		24.0-25.0	29.0-30.0	4.0-5.0	7.0-8.0	7.0-8.0
Date Sampled		05/20/11	05/23/11	05/06/11	05/06/11	05/06/11
Parameter	Units					
Metals						
Cadmium	MG/KG	0.19 U	NA	NA	NA	NA
Calcium	MG/KG	1,580	NA	NA	NA	NA
Chromium	MG/KG	11.6	NA	NA	NA	NA
Chromium VI	MG/KG	4.8 U	NA	NA	NA	NA
Cobalt	MG/KG	4.8	NA	NA	NA	NA
Copper	MG/KG	8.3	NA	NA	NA	NA
Iron	MG/KG	10,100	NA	NA	NA	NA
Lead	MG/KG	3.2	NA	NA	NA	NA
Magnesium	MG/KG	1,990	NA	NA	NA	NA
Manganese	MG/KG	235	NA	NA	NA	NA
Mercury	MG/KG	0.0032 B	NA	NA	NA	NA
Nickel	MG/KG	8.8	NA	NA	NA	NA
Potassium	MG/KG	1,070	NA	NA	NA	NA
Selenium	MG/KG	1.2 U	NA	NA	NA	NA
Silver	MG/KG	1.2 U	NA	NA	NA	NA
Sodium	MG/KG	84.6	NA	NA	NA	NA
Thallium	MG/KG	2.5	NA	NA	NA	NA
Vanadium	MG/KG	15.4	NA	NA	NA	NA
Zinc	MG/KG	22.1	NA	NA	NA	NA
Miscellaneous Parameters						
Cyanide	MG/KG	0.72 U	NA	NA	NA	NA
Moisture, Percent	%	19	4.3 J	10	11	8.2 J

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

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Detection Limits shown are PQL

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[LOGDATE] > 9/9/2011 AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [UNITS] <> 'UG/L' AND [PRCODE] <> 'RCRA' AND [PRCODE] <> 'VQA'

TABLE 2B
VALIDATED SOIL SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-081	SG-082	SG-083	SG-084	SG-085
Sample ID		SG-81 (7-8')	SG-82 (7-8')	SG-83 (7-8')	SG-84 (7-8')	SG-85 (7-8')
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		7.0-8.0	7.0-8.0	7.0-8.0	7.0-8.0	7.0-8.0
Date Sampled		05/06/11	05/06/11	05/06/11	05/06/11	05/06/11
Parameter	Units					
Semivolatile Organic Compounds						
1,1-Biphenyl	MG/KG	NA	NA	NA	NA	NA
2,2-oxybis(1-Chloropropane)	MG/KG	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dichlorophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dimethylphenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrophenol	MG/KG	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	MG/KG	NA	NA	NA	NA	NA
2-Chloronaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Chlorophenol	MG/KG	NA	NA	NA	NA	NA
2-Methylnaphthalene	MG/KG	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	MG/KG	NA	NA	NA	NA	NA
2-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
2-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
3&4-Methylphenol	MG/KG	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	MG/KG	NA	NA	NA	NA	NA
3-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	MG/KG	NA	NA	NA	NA	NA
4-Chloroaniline	MG/KG	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

Checked By _____

Detection Limits shown are PQL

TABLE 2B
VALIDATED SOIL SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-081	SG-082	SG-083	SG-084	SG-085
Sample ID		SG-81 (7-8')	SG-82 (7-8')	SG-83 (7-8')	SG-84 (7-8')	SG-85 (7-8')
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		7.0-8.0	7.0-8.0	7.0-8.0	7.0-8.0	7.0-8.0
Date Sampled		05/06/11	05/06/11	05/06/11	05/06/11	05/06/11
Parameter	Units					
Semivolatile Organic Compounds						
4-Nitroaniline	MG/KG	NA	NA	NA	NA	NA
4-Nitrophenol	MG/KG	NA	NA	NA	NA	NA
Acenaphthene	MG/KG	NA	NA	NA	NA	NA
Acenaphthylene	MG/KG	NA	NA	NA	NA	NA
Acetophenone	MG/KG	NA	NA	NA	NA	NA
Anthracene	MG/KG	NA	NA	NA	NA	NA
Atrazine	MG/KG	NA	NA	NA	NA	NA
Benzaldehyde	MG/KG	NA	NA	NA	NA	NA
Benzo(a)anthracene	MG/KG	NA	NA	NA	NA	NA
Benzo(a)pyrene	MG/KG	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	MG/KG	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	MG/KG	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	MG/KG	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	MG/KG	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	MG/KG	NA	NA	NA	NA	NA
Butylbenzylphthalate	MG/KG	NA	NA	NA	NA	NA
Caprolactam	MG/KG	NA	NA	NA	NA	NA
Carbazole	MG/KG	NA	NA	NA	NA	NA
Chrysene	MG/KG	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	MG/KG	NA	NA	NA	NA	NA
Dibenzofuran	MG/KG	NA	NA	NA	NA	NA
Diethylphthalate	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

Checked By _____

Detection Limits shown are PQL

TABLE 2B
VALIDATED SOIL SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-081	SG-082	SG-083	SG-084	SG-085
Sample ID		SG-81 (7-8')	SG-82 (7-8')	SG-83 (7-8')	SG-84 (7-8')	SG-85 (7-8')
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		7.0-8.0	7.0-8.0	7.0-8.0	7.0-8.0	7.0-8.0
Date Sampled		05/06/11	05/06/11	05/06/11	05/06/11	05/06/11
Parameter	Units					
Semivolatile Organic Compounds						
Dimethylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-butylphthalate	MG/KG	NA	NA	NA	NA	NA
Di-n-octylphthalate	MG/KG	NA	NA	NA	NA	NA
Fluoranthene	MG/KG	NA	NA	NA	NA	NA
Fluorene	MG/KG	NA	NA	NA	NA	NA
Hexachlorobenzene	MG/KG	NA	NA	NA	NA	NA
Hexachlorobutadiene	MG/KG	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	MG/KG	NA	NA	NA	NA	NA
Hexachloroethane	MG/KG	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	MG/KG	NA	NA	NA	NA	NA
Isophorone	MG/KG	NA	NA	NA	NA	NA
Naphthalene	MG/KG	NA	NA	NA	NA	NA
Nitrobenzene	MG/KG	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	MG/KG	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	MG/KG	NA	NA	NA	NA	NA
Pentachlorophenol	MG/KG	NA	NA	NA	NA	NA
Phenanthrene	MG/KG	NA	NA	NA	NA	NA
Phenol	MG/KG	NA	NA	NA	NA	NA
Pyrene	MG/KG	NA	NA	NA	NA	NA
Pesticide Organic Compounds						
4,4'-DDD	MG/KG	NA	NA	NA	NA	NA
4,4'-DDE	MG/KG	NA	NA	NA	NA	NA
4,4'-DDT	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

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Detection Limits shown are PQL

TABLE 2B
VALIDATED SOIL SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-081	SG-082	SG-083	SG-084	SG-085
Sample ID		SG-81 (7-8')	SG-82 (7-8')	SG-83 (7-8')	SG-84 (7-8')	SG-85 (7-8')
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		7.0-8.0	7.0-8.0	7.0-8.0	7.0-8.0	7.0-8.0
Date Sampled		05/06/11	05/06/11	05/06/11	05/06/11	05/06/11
Parameter	Units					
Pesticide Organic Compounds						
Aldrin	MG/KG	NA	NA	NA	NA	NA
alpha-BHC	MG/KG	NA	NA	NA	NA	NA
alpha-Chlordane	MG/KG	NA	NA	NA	NA	NA
beta-BHC	MG/KG	NA	NA	NA	NA	NA
delta-BHC	MG/KG	NA	NA	NA	NA	NA
Dieldrin	MG/KG	NA	NA	NA	NA	NA
Endosulfan I	MG/KG	NA	NA	NA	NA	NA
Endosulfan II	MG/KG	NA	NA	NA	NA	NA
Endosulfan sulfate	MG/KG	NA	NA	NA	NA	NA
Endrin	MG/KG	NA	NA	NA	NA	NA
Endrin aldehyde	MG/KG	NA	NA	NA	NA	NA
Endrin ketone	MG/KG	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	MG/KG	NA	NA	NA	NA	NA
gamma-Chlordane	MG/KG	NA	NA	NA	NA	NA
Heptachlor	MG/KG	NA	NA	NA	NA	NA
Heptachlor epoxide	MG/KG	NA	NA	NA	NA	NA
Methoxychlor	MG/KG	NA	NA	NA	NA	NA
Toxaphene	MG/KG	NA	NA	NA	NA	NA
Herbicides						
2,4,5-T	MG/KG	NA	NA	NA	NA	NA
2,4,5-TP (Silvex)	MG/KG	NA	NA	NA	NA	NA
2,4-D	MG/KG	NA	NA	NA	NA	NA
2,4-DB	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

Checked By _____

Detection Limits shown are PQL

TABLE 2B
VALIDATED SOIL SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-081	SG-082	SG-083	SG-084	SG-085
Sample ID		SG-81 (7-8')	SG-82 (7-8')	SG-83 (7-8')	SG-84 (7-8')	SG-85 (7-8')
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		7.0-8.0	7.0-8.0	7.0-8.0	7.0-8.0	7.0-8.0
Date Sampled		05/06/11	05/06/11	05/06/11	05/06/11	05/06/11
Parameter	Units					
Herbicides						
Dalapon	MG/KG	NA	NA	NA	NA	NA
Dicamba	MG/KG	NA	NA	NA	NA	NA
Dichlorprop	MG/KG	NA	NA	NA	NA	NA
Dinoseb	MG/KG	NA	NA	NA	NA	NA
MCPA	MG/KG	NA	NA	NA	NA	NA
MCPB	MG/KG	NA	NA	NA	NA	NA
MCPB	MG/KG	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	MG/KG	NA	NA	NA	NA	NA
Aroclor 1221	MG/KG	NA	NA	NA	NA	NA
Aroclor 1232	MG/KG	NA	NA	NA	NA	NA
Aroclor 1242	MG/KG	NA	NA	NA	NA	NA
Aroclor 1248	MG/KG	NA	NA	NA	NA	NA
Aroclor 1254	MG/KG	NA	NA	NA	NA	NA
Aroclor 1260	MG/KG	NA	NA	NA	NA	NA
Aroclor 1262	MG/KG	NA	NA	NA	NA	NA
Aroclor 1268	MG/KG	NA	NA	NA	NA	NA
Metals						
Aluminum	MG/KG	NA	NA	NA	NA	NA
Antimony	MG/KG	NA	NA	NA	NA	NA
Arsenic	MG/KG	NA	NA	NA	NA	NA
Barium	MG/KG	NA	NA	NA	NA	NA
Beryllium	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

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Detection Limits shown are PQL

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[LOGDATE] > 05/06/2011 AND [MATRIX] = 'SO' AND ([SACCODE] = 'N' OR [SACCODE] = 'FD') AND [UNITS] <> 'UG/L' AND [PRCCODE] <> 'RCRA' AND [PRCCODE] <> 'VQA'

TABLE 2B
VALIDATED SOIL SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-081	SG-082	SG-083	SG-084	SG-085
Sample ID		SG-81 (7-8')	SG-82 (7-8')	SG-83 (7-8')	SG-84 (7-8')	SG-85 (7-8')
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		7.0-8.0	7.0-8.0	7.0-8.0	7.0-8.0	7.0-8.0
Date Sampled		05/06/11	05/06/11	05/06/11	05/06/11	05/06/11
Parameter	Units					
Metals						
Cadmium	MG/KG	NA	NA	NA	NA	NA
Calcium	MG/KG	NA	NA	NA	NA	NA
Chromium	MG/KG	NA	NA	NA	NA	NA
Chromium VI	MG/KG	NA	NA	NA	NA	NA
Cobalt	MG/KG	NA	NA	NA	NA	NA
Copper	MG/KG	NA	NA	NA	NA	NA
Iron	MG/KG	NA	NA	NA	NA	NA
Lead	MG/KG	NA	NA	NA	NA	NA
Magnesium	MG/KG	NA	NA	NA	NA	NA
Manganese	MG/KG	NA	NA	NA	NA	NA
Mercury	MG/KG	NA	NA	NA	NA	NA
Nickel	MG/KG	NA	NA	NA	NA	NA
Potassium	MG/KG	NA	NA	NA	NA	NA
Selenium	MG/KG	NA	NA	NA	NA	NA
Silver	MG/KG	NA	NA	NA	NA	NA
Sodium	MG/KG	NA	NA	NA	NA	NA
Thallium	MG/KG	NA	NA	NA	NA	NA
Vanadium	MG/KG	NA	NA	NA	NA	NA
Zinc	MG/KG	NA	NA	NA	NA	NA
Miscellaneous Parameters						
Cyanide	MG/KG	NA	NA	NA	NA	NA
Moisture, Percent	%	8.0 J	15	15	9.8 J	11

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

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Detection Limits shown are PQL

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[LOGDATE] > 06/1/2011 AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [UNITS] <> 'UG/L' AND [PRCODE] <> 'RORA' AND [PRCODE] <> 'VOA'

TABLE 2B
VALIDATED SOIL SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-086	SG-087
Sample ID		SG-86 (7-8')	SG-87 (7-8')
Matrix		Soil	Soil
Depth Interval (ft)		7.0-8.0	7.0-8.0
Date Sampled		05/06/11	05/06/11
Parameter	Units		
Semivolatile Organic Compounds			
1,1-Biphenyl	MG/KG	NA	NA
2,2-oxybis(1-Chloropropane)	MG/KG	NA	NA
2,4,5-Trichlorophenol	MG/KG	NA	NA
2,4,6-Trichlorophenol	MG/KG	NA	NA
2,4-Dichlorophenol	MG/KG	NA	NA
2,4-Dimethylphenol	MG/KG	NA	NA
2,4-Dinitrophenol	MG/KG	NA	NA
2,4-Dinitrotoluene	MG/KG	NA	NA
2,6-Dinitrotoluene	MG/KG	NA	NA
2-Chloronaphthalene	MG/KG	NA	NA
2-Chlorophenol	MG/KG	NA	NA
2-Methylnaphthalene	MG/KG	NA	NA
2-Methylphenol (o-cresol)	MG/KG	NA	NA
2-Nitroaniline	MG/KG	NA	NA
2-Nitrophenol	MG/KG	NA	NA
3&4-Methylphenol	MG/KG	NA	NA
3,3-Dichlorobenzidine	MG/KG	NA	NA
3-Nitroaniline	MG/KG	NA	NA
4,6-Dinitro-2-methylphenol	MG/KG	NA	NA
4-Bromophenyl-phenylether	MG/KG	NA	NA
4-Chloro-3-methylphenol	MG/KG	NA	NA
4-Chloroaniline	MG/KG	NA	NA
4-Chlorophenyl-phenylether	MG/KG	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

Checked By _____

Detection Limits shown are PQL

[LOGDATE] > 05/12/2011# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [UNITS] <> 'UG/L' AND [PRCODE] <> 'RGRA' AND [PRCODE] <> 'VGA'

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TABLE 2B
VALIDATED SOIL SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-086	SG-087
Sample ID		SG-86 (7-8')	SG-87 (7-8')
Matrix		Soil	Soil
Depth Interval (ft)		7.0-8.0	7.0-8.0
Date Sampled		05/06/11	05/06/11
Parameter	Units		
Semivolatile Organic Compounds			
4-Nitroaniline	MG/KG	NA	NA
4-Nitrophenol	MG/KG	NA	NA
Acenaphthene	MG/KG	NA	NA
Acenaphthylene	MG/KG	NA	NA
Acetophenone	MG/KG	NA	NA
Anthracene	MG/KG	NA	NA
Atrazine	MG/KG	NA	NA
Benzaldehyde	MG/KG	NA	NA
Benzo(a)anthracene	MG/KG	NA	NA
Benzo(a)pyrene	MG/KG	NA	NA
Benzo(b)fluoranthene	MG/KG	NA	NA
Benzo(g,h,i)perylene	MG/KG	NA	NA
Benzo(k)fluoranthene	MG/KG	NA	NA
bis(2-Chloroethoxy)methane	MG/KG	NA	NA
bis(2-Chloroethyl)ether	MG/KG	NA	NA
bis(2-Ethylhexyl)phthalate	MG/KG	NA	NA
Butylbenzylphthalate	MG/KG	NA	NA
Caprolactam	MG/KG	NA	NA
Carbazole	MG/KG	NA	NA
Chrysene	MG/KG	NA	NA
Dibenz(a,h)anthracene	MG/KG	NA	NA
Dibenzofuran	MG/KG	NA	NA
Diethylphthalate	MG/KG	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

Checked By _____

Detection Limits shown are PQL

TABLE 2B
VALIDATED SOIL SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-086	SG-087
Sample ID		SG-86 (7-8')	SG-87 (7-8')
Matrix		Soil	Soil
Depth Interval (ft)		7.0-8.0	7.0-8.0
Date Sampled		05/06/11	05/06/11
Parameter	Units		
Semivolatile Organic Compounds			
Dimethylphthalate	MG/KG	NA	NA
Di-n-butylphthalate	MG/KG	NA	NA
Di-n-octylphthalate	MG/KG	NA	NA
Fluoranthene	MG/KG	NA	NA
Fluorene	MG/KG	NA	NA
Hexachlorobenzene	MG/KG	NA	NA
Hexachlorobutadiene	MG/KG	NA	NA
Hexachlorocyclopentadiene	MG/KG	NA	NA
Hexachloroethane	MG/KG	NA	NA
Indeno(1,2,3-cd)pyrene	MG/KG	NA	NA
Isophorone	MG/KG	NA	NA
Naphthalene	MG/KG	NA	NA
Nitrobenzene	MG/KG	NA	NA
N-Nitroso-di-n-propylamine	MG/KG	NA	NA
N-Nitrosodiphenylamine	MG/KG	NA	NA
Pentachlorophenol	MG/KG	NA	NA
Phenanthrene	MG/KG	NA	NA
Phenol	MG/KG	NA	NA
Pyrene	MG/KG	NA	NA
Pesticide Organic Compounds			
4,4'-DDD	MG/KG	NA	NA
4,4'-DDE	MG/KG	NA	NA
4,4'-DDT	MG/KG	NA	NA

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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TABLE 2B
VALIDATED SOIL SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-086	SG-087
Sample ID		SG-86 (7-8')	SG-87 (7-8')
Matrix		Soil	Soil
Depth Interval (ft)		7.0-8.0	7.0-8.0
Date Sampled		05/06/11	05/06/11
Parameter	Units		
Pesticide Organic Compounds			
Aldrin	MG/KG	NA	NA
alpha-BHC	MG/KG	NA	NA
alpha-Chlordane	MG/KG	NA	NA
beta-BHC	MG/KG	NA	NA
delta-BHC	MG/KG	NA	NA
Dieldrin	MG/KG	NA	NA
Endosulfan I	MG/KG	NA	NA
Endosulfan II	MG/KG	NA	NA
Endosulfan sulfate	MG/KG	NA	NA
Endrin	MG/KG	NA	NA
Endrin aldehyde	MG/KG	NA	NA
Endrin ketone	MG/KG	NA	NA
gamma-BHC (Lindane)	MG/KG	NA	NA
gamma-Chlordane	MG/KG	NA	NA
Heptachlor	MG/KG	NA	NA
Heptachlor epoxide	MG/KG	NA	NA
Methoxychlor	MG/KG	NA	NA
Toxaphene	MG/KG	NA	NA
Herbicides			
2,4,5-T	MG/KG	NA	NA
2,4,5-TP (Silvex)	MG/KG	NA	NA
2,4-D	MG/KG	NA	NA
2,4-DB	MG/KG	NA	NA

Flags assigned during chemistry validation are shown.

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Checked By: _____

Detection Limits shown are PQL

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[LOGDATE] > #5/1/2011# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [UNITS] <> 'UG/L' AND [PRC CODE] <> 'ICRA' AND [PRC CODE] <> 'VOA'

TABLE 2B
VALIDATED SOIL SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-086	SG-087
Sample ID		SG-86 (7-8')	SG-87 (7-8')
Matrix		Soil	Soil
Depth Interval (ft)		7.0-8.0	7.0-8.0
Date Sampled		05/06/11	05/06/11
Parameter	Units		
Herbicides			
Dalapon	MG/KG	NA	NA
Dicamba	MG/KG	NA	NA
Dichlorprop	MG/KG	NA	NA
Dinoseb	MG/KG	NA	NA
MCPA	MG/KG	NA	NA
MCPB	MG/KG	NA	NA
MCPB	MG/KG	NA	NA
MCPB	MG/KG	NA	NA
Polychlorinated Biphenyls			
Aroclor 1016	MG/KG	NA	NA
Aroclor 1221	MG/KG	NA	NA
Aroclor 1232	MG/KG	NA	NA
Aroclor 1242	MG/KG	NA	NA
Aroclor 1248	MG/KG	NA	NA
Aroclor 1254	MG/KG	NA	NA
Aroclor 1260	MG/KG	NA	NA
Aroclor 1262	MG/KG	NA	NA
Aroclor 1268	MG/KG	NA	NA
Metals			
Aluminum	MG/KG	NA	NA
Antimony	MG/KG	NA	NA
Arsenic	MG/KG	NA	NA
Barium	MG/KG	NA	NA
Beryllium	MG/KG	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

Checked By: _____

Detection Limits shown are PQL

TABLE 2B
VALIDATED SOIL SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-086	SG-087
Sample ID		SG-86 (7-8')	SG-87 (7-8')
Matrix		Soil	Soil
Depth Interval (ft)		7.0-8.0	7.0-8.0
Date Sampled		05/06/11	05/06/11
Parameter	Units		
Metals			
Cadmium	MG/KG	NA	NA
Calcium	MG/KG	NA	NA
Chromium	MG/KG	NA	NA
Chromium VI	MG/KG	NA	NA
Cobalt	MG/KG	NA	NA
Copper	MG/KG	NA	NA
Iron	MG/KG	NA	NA
Lead	MG/KG	NA	NA
Magnesium	MG/KG	NA	NA
Manganese	MG/KG	NA	NA
Mercury	MG/KG	NA	NA
Nickel	MG/KG	NA	NA
Potassium	MG/KG	NA	NA
Selenium	MG/KG	NA	NA
Silver	MG/KG	NA	NA
Sodium	MG/KG	NA	NA
Thallium	MG/KG	NA	NA
Vanadium	MG/KG	NA	NA
Zinc	MG/KG	NA	NA
Miscellaneous Parameters			
Cyanide	MG/KG	NA	NA
Moisture, Percent	%	4.0 J	10

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

Checked By _____

Detection Limits shown are PQL

TABLE 3
VALIDATED SOIL TCLP SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-044D	DEC-066
Sample ID		DEC-044D (4-5')	DEC-066S (1-2')
Matrix		Soil	Soil
Depth Interval (ft)		4.0-5.0	1.0-2.0
Date Sampled		05/10/11	05/09/11
Parameter	Units		
TCLP Volatile Organic Compounds			
1,1-Dichloroethene	UG/L	5.0 U	5.0 U
1,2-Dichloroethane	UG/L	5.0 U	5.0 U
Benzene	UG/L	5.0 U	74
Carbon tetrachloride	UG/L	5.0 U	5.0 U
Chlorobenzene	UG/L	5.0 U	5.0 U
Chloroform	UG/L	5.0 U	2.6 J
Methyl ethyl ketone (2-Butanone)	UG/L	5.0 U	2.6 J
Tetrachloroethene	UG/L	8.2	260 D
Trichloroethene	UG/L	1.0 J	120
Vinyl chloride	UG/L	5.0 U	5.0 U
TCLP Semivolatile Organic Compounds			
1,4-Dichlorobenzene	UG/L	33 U	33 U
2,4,5-Trichlorophenol	UG/L	67 U	67 U
2,4,6-Trichlorophenol	UG/L	33 U	33 U
2,4-Dinitrotoluene	UG/L	33 U	33 U
2-Methylphenol (o-cresol)	UG/L	33 U	3,000 D
4-Methylphenol (p-cresol)	UG/L	33 U	8,700 D
Hexachlorobenzene	UG/L	33 U	33 U
Hexachlorobutadiene	UG/L	33 UJ	33 UJ
Hexachloroethane	UG/L	33 U	33 U
Nitrobenzene	UG/L	33 U	33 U
Pentachlorophenol	UG/L	67 U	67 U
Pyridine	UG/L	67 UJ	14 J

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

Checked By _____

Detection Limits shown are PQL

Advanced Selection: AMK-TEMP TCLP
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[LOGDATE] > #5/12011# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FO') AND [UNITS] <> 'MG/KG' AND [PARNAME] <> 'Moisture, Percent'

TABLE 3
VALIDATED SOIL TCLP SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-044D	DEC-066
Sample ID		DEC-044D (4-5')	DEC-066S (1-2')
Matrix		Soil	Soil
Depth Interval (ft)		4.0-5.0	1.0-2.0
Date Sampled		05/10/11	05/09/11
Parameter	Units		
TCLP Pesticide Organic Compounds			
Endrin	UG/L	0.33 U	0.33 U
gamma-BHC (Lindane)	UG/L	0.17 U	0.79 P
Heptachlor	UG/L	0.17 U	0.44 P
Heptachlor epoxide	UG/L	0.17 U	0.17 U
Methoxychlor	UG/L	1.7 U	1.7 U
Technical Chlordane	UG/L	8.3 U	8.3 U
Toxaphene	UG/L	17 U	17 U
TCLP Herbicides			
2,4,5-TP (Silvex)	UG/L	0.33 U	0.33 U
2,4-D	UG/L	3.3 U	3.3 U
TCLP Metals			
Arsenic	UG/L	20.0 U	20.0 U
Barium	UG/L	726	81.9 B
Cadmium	UG/L	1.8 B	1.3 B
Chromium	UG/L	0.98 B	1.4 B
Lead	UG/L	78.9	51.0
Mercury	UG/L	0.20 U	0.20 U
Selenium	UG/L	30.0 U	30.0 U
Silver	UG/L	30.0 U	30.0 U
RCRA Characteristics			
Corrosivity (as pH)	S.U.	7.8	5.6
Ignitability	DEG. F	200 U	200 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

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Detection Limits shown are PQL

Advanced Selection: AMK-TEMP TCLP
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[LOGDATE] > 4/5/2011# AND [MATRIX] = 'SO' AND { [SACODE] = 'N' OR [SACODE] = 'FD' } AND [UNITS] <> 'MG/KG' AND [PARNAME] <> 'Moisture, Percent'

TABLE 4A
VALIDATED GROUNDWATER SAMPLE RESULTS (VOCS)
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-004	DEC-006D	DEC-006DD	DEC-006DD	DEC-007
Sample ID		DEC-004	DEC-006D	DEC-006DD	DUP-062011	DEC-007
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/24/11	06/20/11	06/20/11	06/20/11	06/21/11
Parameter	Units				Field Duplicate (1-1)	
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	UG/L	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
1,1,1-Trichloroethane	UG/L	0.50 U	0.50 U	13	13	0.50 U
1,1,2,2-Tetrachloroethane	UG/L	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
1,1,2-Trichloroethane	UG/L	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
1,1-Dichloroethane	UG/L	0.25 U	0.25 U	5.4	5.0	2.8 J
1,1-Dichloroethene	UG/L	0.39 U	0.39 U	69 J	72 J	0.39 U
1,1-Dichloropropene	UG/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	UG/L	0.33 U	0.33 U	0.33 U	0.33 U	0.33 UJ
1,2,3-Trichloropropane	UG/L	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
1,2,4-Trichlorobenzene	UG/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
1,2,4-Trimethylbenzene	UG/L	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
1,2-Dibromo-3-chloropropane	UG/L	0.75 U	0.75 UJ	0.75 UJ	0.75 UJ	0.75 UJ
1,2-Dibromoethane (Ethylene dibromide)	UG/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	UG/L	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
1,2-Dichloroethane	UG/L	0.41 U	0.41 U	0.41 U	1.3 J	0.41 U
1,2-Dichloroethene (cis)	UG/L	4.8 J	26	16	16	7.9
1,2-Dichloroethene (trans)	UG/L	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U
1,2-Dichloropropane	UG/L	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
1,3-Dichlorobenzene	UG/L	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
1,3-Dichloropropane	UG/L	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
1,3-Dichloropropene (cis)	UG/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

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Detection Limits shown are MDL

TABLE 4A
VALIDATED GROUNDWATER SAMPLE RESULTS (VOCS)
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-004	DEC-006D	DEC-006DD	DEC-006DD	DEC-007
Sample ID		DEC-004	DEC-006D	DEC-006DD	DUP-062011	DEC-007
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/24/11	06/20/11	06/20/11	06/20/11	06/21/11
Parameter	Units				Field Duplicate (1-1)	
Volatile Organic Compounds						
1,3-Dichloropropene (trans)	UG/L	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
1,4-Dichlorobenzene	UG/L	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
1,4-Dioxane	UG/L	R	R	R	R	R
2,2-Dichloropropane	UG/L	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
2-Chlorotoluene	UG/L	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
2-Hexanone	UG/L	1.7 U	1.7 UJ	1.7 UJ	1.7 UJ	1.7 U
4-Chlorotoluene	UG/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
4-Isopropyltoluene (p-Cymene)	UG/L	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
4-Methyl-2-pentanone	UG/L	0.82 U	0.82 UJ	0.82 UJ	0.82 UJ	0.82 U
Acetone	UG/L	R	R	R	R	R
Benzene	UG/L	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Bromobenzene	UG/L	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
Bromochloromethane	UG/L	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
Bromodichloromethane	UG/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
Bromoform	UG/L	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U
Bromomethane	UG/L	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U
Carbon disulfide	UG/L	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
Carbon tetrachloride	UG/L	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
Chlorobenzene	UG/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
Chloroethane	UG/L	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
Chloroform	UG/L	0.33 U	4.6 J	0.33 U	0.33 U	2.7 J
Chloromethane	UG/L	0.26 UJ	0.26 U	0.26 U	0.26 U	0.26 U
Cyclohexane	UG/L	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are MDL

TABLE 4A
VALIDATED GROUNDWATER SAMPLE RESULTS (VOCs)
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-004	DEC-006D	DEC-006DD	DEC-006DD	DEC-007
Sample ID		DEC-004	DEC-006D	DEC-006DD	DUP-062011	DEC-007
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/24/11	06/20/11	06/20/11	06/20/11	06/21/11
Parameter	Units				Field Duplicate (1-1)	
Volatile Organic Compounds						
Dibromochloromethane	UG/L	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U
Dibromomethane	UG/L	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U
Dichlorodifluoromethane	UG/L	0.66 U	0.66 UJ	0.66 UJ	0.66 UJ	0.66 UJ
Ethylbenzene	UG/L	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Hexachlorobutadiene	UG/L	0.41 U	0.41 U	0.41 U	0.41 U	0.41 UJ
Iodomethane (Methyl iodide)	UG/L	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U
Isopropylbenzene (Cumene)	UG/L	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
Methyl acetate	UG/L	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
Methyl ethyl ketone (2-Butanone)	UG/L	R	R	R	R	R
Methyl tert-butyl ether	UG/L	0.24 U	0.24 U	2.6 J	2.6 J	0.24 U
Methylcyclohexane	UG/L	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U
Methylene chloride	UG/L	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
Naphthalene	UG/L	0.80 U	0.80 UJ	0.80 UJ	0.80 UJ	0.80 UJ
sec-Butylbenzene	UG/L	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
Styrene	UG/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
tert-Butylbenzene	UG/L	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
Tetrachloroethene	UG/L	1.5 J	6,600 D	410 D	420 D	1,200 D
Toluene	UG/L	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
Trichloroethene	UG/L	37	39	210 D	210 D	25
Trichlorofluoromethane	UG/L	0.54 U	0.54 UJ	0.54 UJ	0.54 UJ	0.54 U
Vinyl acetate	UG/L	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Vinyl chloride	UG/L	1.0 J	0.50 U	0.50 U	0.50 U	0.50 U
Xylene (total)	UG/L	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

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Detection Limits shown are MDL

TABLE 4A
VALIDATED GROUNDWATER SAMPLE RESULTS (VOCs)
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-007D	DEC-008	DEC-009	DEC-010	DEC-011
Sample ID		DEC-007D	DEC-008	DEC-009	DEC-010	DEC-011
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/21/11	06/23/11	06/23/11	06/21/11	06/21/11
Parameter	Units					
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	UG/L	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
1,1,1-Trichloroethane	UG/L	1.5 J	1.8 J	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	UG/L	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
1,1,2-Trichloroethane	UG/L	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
1,1-Dichloroethane	UG/L	1.2 J	3.4 J	6.5	28	0.25 U
1,1-Dichloroethene	UG/L	4.4 J	2.0 J	5.1	25	0.39 U
1,1-Dichloropropene	UG/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	UG/L	0.33 UJ	0.33 U	0.33 U	0.33 UJ	0.33 UJ
1,2,3-Trichloropropane	UG/L	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
1,2,4-Trichlorobenzene	UG/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
1,2,4-Trimethylbenzene	UG/L	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
1,2-Dibromo-3-chloropropane	UG/L	0.75 UJ	0.75 U	0.75 U	0.75 UJ	0.75 UJ
1,2-Dibromoethane (Ethylene dibromide)	UG/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	UG/L	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
1,2-Dichloroethane	UG/L	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
1,2-Dichloroethene (cis)	UG/L	4.8 J	41 J	51	8.5	0.48 U
1,2-Dichloroethene (trans)	UG/L	0.65 U	3.5 J	0.65 U	0.65 U	0.65 U
1,2-Dichloropropane	UG/L	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
1,3-Dichlorobenzene	UG/L	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
1,3-Dichloropropane	UG/L	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
1,3-Dichloropropene (cis)	UG/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are MDL

TABLE 4A
VALIDATED GROUNDWATER SAMPLE RESULTS (VOCS)
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-007D	DEC-008	DEC-009	DEC-010	DEC-011
Sample ID		DEC-007D	DEC-008	DEC-009	DEC-010	DEC-011
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/21/11	06/23/11	06/23/11	06/21/11	06/21/11
Parameter	Units					
Volatile Organic Compounds						
1,3-Dichloropropene (trans)	UG/L	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
1,4-Dichlorobenzene	UG/L	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
1,4-Dioxane	UG/L	R	R	R	R	R
2,2-Dichloropropane	UG/L	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
2-Chlorotoluene	UG/L	0.54 U	0.54 UJ	0.54 U	0.54 U	0.54 U
2-Hexanone	UG/L	1.7 U	1.7 U	1.7 UJ	1.7 U	1.7 U
4-Chlorotoluene	UG/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
4-Isopropyltoluene (p-Cymene)	UG/L	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
4-Methyl-2-pentanone	UG/L	0.82 U	0.82 U	0.82 UJ	0.82 U	0.82 U
Acetone	UG/L	R	R	R	R	R
Benzene	UG/L	0.33 U	0.33 UJ	0.33 U	0.33 U	0.33 U
Bromobenzene	UG/L	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
Bromochloromethane	UG/L	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
Bromodichloromethane	UG/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
Bromoform	UG/L	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U
Bromomethane	UG/L	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U
Carbon disulfide	UG/L	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
Carbon tetrachloride	UG/L	0.54 U	0.54 U	0.54 UJ	0.54 U	0.54 U
Chlorobenzene	UG/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
Chloroethane	UG/L	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
Chloroform	UG/L	0.33 U	1.6 J	0.33 U	0.33 U	0.33 U
Chloromethane	UG/L	0.26 U	0.26 U	0.26 UJ	0.26 U	0.26 U
Cyclohexane	UG/L	0.71 U	0.71 UJ	0.71 UJ	0.71 U	0.71 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are MDL

TABLE 4A
VALIDATED GROUNDWATER SAMPLE RESULTS (VOCs)
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-007D	DEC-008	DEC-009	DEC-010	DEC-011
Sample ID		DEC-007D	DEC-008	DEC-009	DEC-010	DEC-011
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/21/11	06/23/11	06/23/11	06/21/11	06/21/11
Parameter	Units					
Volatile Organic Compounds						
Dibromochloromethane	UG/L	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U
Dibromomethane	UG/L	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U
Dichlorodifluoromethane	UG/L	0.66 UJ	0.66 U	0.66 U	0.66 UJ	0.66 UJ
Ethylbenzene	UG/L	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Hexachlorobutadiene	UG/L	0.41 UJ	0.41 U	0.41 UJ	0.41 UJ	0.41 UJ
Iodomethane (Methyl iodide)	UG/L	0.63 U	0.63 U	0.63 UJ	0.63 U	0.63 U
Isopropylbenzene (Cumene)	UG/L	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
Methyl acetate	UG/L	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
Methyl ethyl ketone (2-Butanone)	UG/L	R	R	R	R	R
Methyl tert-butyl ether	UG/L	0.24 U	1.1 J	1.1 J	0.24 U	0.24 U
Methylcyclohexane	UG/L	0.76 U	0.76 UJ	0.76 U	0.76 U	0.76 U
Methylene chloride	UG/L	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
Naphthalene	UG/L	0.80 UJ	0.80 U	0.80 U	0.80 UJ	0.80 UJ
sec-Butylbenzene	UG/L	0.28 U	0.28 UJ	3.0 J	0.28 U	0.28 U
Styrene	UG/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
tert-Butylbenzene	UG/L	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
Tetrachloroethene	UG/L	340 D	1,300 D	180	20	13 J
Toluene	UG/L	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
Trichloroethene	UG/L	26	120	70	87	17 J
Trichlorofluoromethane	UG/L	0.54 U	1.4 J	0.54 UJ	0.54 U	0.54 U
Vinyl acetate	UG/L	0.35 U	0.35 U	0.35 UJ	0.35 U	0.35 U
Vinyl chloride	UG/L	0.50 U	19	54	0.50 U	0.50 U
Xylene (total)	UG/L	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are MDL

TABLE 4A
VALIDATED GROUNDWATER SAMPLE RESULTS (VOCS)
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-012	DEC-013	DEC-013	DEC-013D	DEC-014D
Sample ID		DEC-012	DEC-013	DUP-062311	DEC-013D	DEC-014D
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/22/11	06/23/11	06/23/11	06/23/11	06/23/11
Parameter	Units			Field Duplicate (1-1)		
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	UG/L	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
1,1,1-Trichloroethane	UG/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	UG/L	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
1,1,2-Trichloroethane	UG/L	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
1,1-Dichloroethane	UG/L	0.25 U	2.3 J	0.25 U	0.25 U	0.25 U
1,1-Dichloroethene	UG/L	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
1,1-Dichloropropene	UG/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	UG/L	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
1,2,3-Trichloropropane	UG/L	0.82 U	2.3 J	0.82 U	0.82 U	0.82 U
1,2,4-Trichlorobenzene	UG/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
1,2,4-Trimethylbenzene	UG/L	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
1,2-Dibromo-3-chloropropane	UG/L	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	UG/L	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
1,2-Dichloroethane	UG/L	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
1,2-Dichloroethene (cis)	UG/L	0.48 U	13 J	2.5 J	2.1 J	1.6 J
1,2-Dichloroethene (trans)	UG/L	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U
1,2-Dichloropropane	UG/L	0.61 U	0.61 U	0.61 U	0.61 UJ	0.61 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
1,3-Dichlorobenzene	UG/L	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
1,3-Dichloropropane	UG/L	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
1,3-Dichloropropene (cis)	UG/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are MDL

TABLE 4A
VALIDATED GROUNDWATER SAMPLE RESULTS (VOCs)
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-012	DEC-013	DEC-013	DEC-013D	DEC-014D
Sample ID		DEC-012	DEC-013	DUP-062311	DEC-013D	DEC-014D
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/22/11	06/23/11	06/23/11	06/23/11	06/23/11
Parameter	Units			Field Duplicate (1-1)		
Volatile Organic Compounds						
1,3-Dichloropropene (trans)	UG/L	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
1,4-Dichlorobenzene	UG/L	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
1,4-Dioxane	UG/L	R	R	R	R	R
2,2-Dichloropropane	UG/L	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
2-Chlorotoluene	UG/L	0.54 UJ	0.54 U	0.54 U	0.54 U	0.54 U
2-Hexanone	UG/L	1.7 U	1.7 UJ	1.7 U	1.7 U	1.7 UJ
4-Chlorotoluene	UG/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
4-Isopropyltoluene (p-Cymene)	UG/L	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
4-Methyl-2-pentanone	UG/L	0.82 U	0.82 UJ	0.82 U	0.82 U	0.82 UJ
Acetone	UG/L	R	R	R	R	R
Benzene	UG/L	0.33 UJ	0.33 U	0.33 U	0.33 UJ	0.33 U
Bromobenzene	UG/L	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
Bromochloromethane	UG/L	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
Bromodichloromethane	UG/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
Bromoform	UG/L	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U
Bromomethane	UG/L	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U
Carbon disulfide	UG/L	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
Carbon tetrachloride	UG/L	0.54 U	0.54 UJ	0.54 U	0.54 U	0.54 UJ
Chlorobenzene	UG/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
Chloroethane	UG/L	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
Chloroform	UG/L	0.33 U	0.33 U	4.8 J	4.8 J	0.33 U
Chloromethane	UG/L	0.26 U	0.26 UJ	0.26 U	0.26 U	0.26 UJ
Cyclohexane	UG/L	0.71 UJ	0.71 UJ	0.71 UJ	0.71 UJ	0.71 UJ

Flags assigned during chemistry validation are shown.

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Detection Limits shown are MDL

TABLE 4A
VALIDATED GROUNDWATER SAMPLE RESULTS (VOCS)
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-012	DEC-013	DEC-013	DEC-013D	DEC-014D
Sample ID		DEC-012	DEC-013	DUP-062311	DEC-013D	DEC-014D
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/22/11	06/23/11	06/23/11	06/23/11	06/23/11
Parameter	Units			Field Duplicate (1-1)		
Volatile Organic Compounds						
Dibromochloromethane	UG/L	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U
Dibromomethane	UG/L	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U
Dichlorodifluoromethane	UG/L	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U
Ethylbenzene	UG/L	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Hexachlorobutadiene	UG/L	0.41 U	0.41 UJ	0.41 U	0.41 U	0.41 UJ
Iodomethane (Methyl iodide)	UG/L	0.63 U	0.63 UJ	0.63 U	0.63 U	0.63 UJ
Isopropylbenzene (Cumene)	UG/L	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
Methyl acetate	UG/L	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
Methyl ethyl ketone (2-Butanone)	UG/L	R	R	R	R	R
Methyl tert-butyl ether	UG/L	0.24 U	2.3 J	0.24 U	0.24 U	3.8 J
Methylcyclohexane	UG/L	0.76 UJ	0.76 U	0.76 UJ	0.76 UJ	0.76 U
Methylene chloride	UG/L	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
Naphthalene	UG/L	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U
sec-Butylbenzene	UG/L	0.28 UJ	1.9 J	0.28 UJ	0.28 U	0.28 U
Styrene	UG/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
tert-Butylbenzene	UG/L	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
Tetrachloroethene	UG/L	270 D	2,100 D	200 D	190	26
Toluene	UG/L	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
Trichloroethene	UG/L	3.9 J	36	27	24	3.6 J
Trichlorofluoromethane	UG/L	0.54 U	0.54 UJ	0.54 U	0.54 U	0.54 UJ
Vinyl acetate	UG/L	0.35 U	0.35 UJ	0.35 U	0.35 U	0.35 UJ
Vinyl chloride	UG/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Xylene (total)	UG/L	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U

Flags assigned during chemistry validation are shown.

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Checked By _____

Detection Limits shown are MDL

TABLE 4A
VALIDATED GROUNDWATER SAMPLE RESULTS (VOCS)
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-014R	DEC-015	DEC-015D	DEC-022D	DEC-027
Sample ID		DEC-014R	DEC-015	DEC-015D	DEC-022D	DEC-027
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/23/11	06/22/11	06/22/11	06/22/11	06/24/11
Parameter	Units					
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	UG/L	9.5	0.41 U	0.41 U	0.41 U	0.41 U
1,1,1-Trichloroethane	UG/L	0.50 U	2.0 J	2.2 J	2.6 J	0.50 U
1,1,2,2-Tetrachloroethane	UG/L	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
1,1,2-Trichloroethane	UG/L	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
1,1-Dichloroethane	UG/L	0.25 U	6.9	2.8 J	5.6	0.25 U
1,1-Dichloroethene	UG/L	1.6 J	0.39 U	7.2	1.8 J	0.39 U
1,1-Dichloropropene	UG/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	UG/L	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
1,2,3-Trichloropropane	UG/L	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
1,2,4-Trichlorobenzene	UG/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
1,2,4-Trimethylbenzene	UG/L	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
1,2-Dibromo-3-chloropropane	UG/L	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	UG/L	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
1,2-Dichloroethane	UG/L	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
1,2-Dichloroethene (cis)	UG/L	39 J	8.8	9.5	42 J	48
1,2-Dichloroethene (trans)	UG/L	0.65 U	0.65 U	0.65 U	0.65 U	3.9 J
1,2-Dichloropropane	UG/L	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
1,3-Dichlorobenzene	UG/L	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
1,3-Dichloropropane	UG/L	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
1,3-Dichloropropene (cis)	UG/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

Checked By _____

Detection Limits shown are MDL

TABLE 4A
VALIDATED GROUNDWATER SAMPLE RESULTS (VOCs)
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-014R	DEC-015	DEC-015D	DEC-022D	DEC-027
Sample ID		DEC-014R	DEC-015	DEC-015D	DEC-022D	DEC-027
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/23/11	06/22/11	06/22/11	06/22/11	06/24/11
Parameter	Units					
Volatile Organic Compounds						
1,3-Dichloropropene (trans)	UG/L	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
1,4-Dichlorobenzene	UG/L	4.3 J	0.40 U	0.40 U	0.40 U	0.40 U
1,4-Dioxane	UG/L	R	R	R	R	R
2,2-Dichloropropane	UG/L	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
2-Chlorotoluene	UG/L	0.54 UJ	0.54 UJ	0.54 UJ	0.54 U	0.54 U
2-Hexanone	UG/L	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
4-Chlorotoluene	UG/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
4-Isopropyltoluene (p-Cymene)	UG/L	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
4-Methyl-2-pentanone	UG/L	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
Acetone	UG/L	R	R	R	R	R
Benzene	UG/L	0.33 UJ	0.33 UJ	0.33 UJ	0.33 U	0.33 U
Bromobenzene	UG/L	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
Bromochloromethane	UG/L	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
Bromodichloromethane	UG/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
Bromoform	UG/L	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U
Bromomethane	UG/L	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U
Carbon disulfide	UG/L	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
Carbon tetrachloride	UG/L	1.0 J	0.54 U	0.54 U	0.54 U	0.54 U
Chlorobenzene	UG/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
Chloroethane	UG/L	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
Chloroform	UG/L	6.2	9.2	0.33 U	3.5 J	0.33 U
Chloromethane	UG/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 UJ
Cyclohexane	UG/L	0.71 UJ	0.71 UJ	0.71 UJ	0.71 U	0.71 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

Checked By _____

Detection Limits shown are MDL

TABLE 4A
VALIDATED GROUNDWATER SAMPLE RESULTS (VOCS)
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-014R	DEC-015	DEC-015D	DEC-022D	DEC-027
Sample ID		DEC-014R	DEC-015	DEC-015D	DEC-022D	DEC-027
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/23/11	06/22/11	06/22/11	06/22/11	06/24/11
Parameter	Units					
Volatile Organic Compounds						
Dibromochloromethane	UG/L	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U
Dibromomethane	UG/L	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U
Dichlorodifluoromethane	UG/L	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U
Ethylbenzene	UG/L	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Hexachlorobutadiene	UG/L	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
Iodomethane (Methyl iodide)	UG/L	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U
Isopropylbenzene (Cumene)	UG/L	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
Methyl acetate	UG/L	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
Methyl ethyl ketone (2-Butanone)	UG/L	R	R	R	R	R
Methyl tert-butyl ether	UG/L	0.24 U	0.24 U	1.7 J	1.3 J	0.24 U
Methylcyclohexane	UG/L	0.76 UJ	0.76 UJ	0.76 UJ	0.76 UJ	0.76 U
Methylene chloride	UG/L	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
Naphthalene	UG/L	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U
sec-Butylbenzene	UG/L	0.28 UJ	0.28 UJ	0.28 UJ	0.28 UJ	0.28 U
Styrene	UG/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
tert-Butylbenzene	UG/L	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
Tetrachloroethene	UG/L	44,000 D	140	640 D	1,300 D	34
Toluene	UG/L	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
Trichloroethene	UG/L	300 J	13	42	94	750 D
Trichlorofluoromethane	UG/L	0.54 U	0.54 U	0.54 U	2.0 J	2.1 J
Vinyl acetate	UG/L	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Vinyl chloride	UG/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 UJ
Xylene (total)	UG/L	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are MDL

TABLE 4A
VALIDATED GROUNDWATER SAMPLE RESULTS (VOCs)
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-028	DEC-029	DEC-029D	DEC-030	DEC-030D
Sample ID		DEC-028	DEC-029	DEC-029D	DEC-030	DEC-030D
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/21/11	06/23/11	06/23/11	06/20/11	06/20/11
Parameter	Units					
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	UG/L	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
1,1,1-Trichloroethane	UG/L	0.50 U	0.50 U	0.50 U	0.50 U	4.2 J
1,1,2,2-Tetrachloroethane	UG/L	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
1,1,2-Trichloroethane	UG/L	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
1,1-Dichloroethane	UG/L	3.0 J	0.25 U	0.25 U	0.25 U	1.9 J
1,1-Dichloroethene	UG/L	1.5 J	0.39 U	0.39 U	0.39 U	47 J
1,1-Dichloropropene	UG/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	UG/L	0.33 UJ	0.33 U	0.33 U	0.33 U	0.33 U
1,2,3-Trichloropropane	UG/L	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
1,2,4-Trichlorobenzene	UG/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
1,2,4-Trimethylbenzene	UG/L	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
1,2-Dibromo-3-chloropropane	UG/L	0.75 UJ	0.75 U	0.75 U	0.75 UJ	0.75 UJ
1,2-Dibromoethane (Ethylene dibromide)	UG/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	UG/L	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
1,2-Dichloroethane	UG/L	0.41 U	0.41 U	7.8	0.41 U	0.41 U
1,2-Dichloroethene (cis)	UG/L	52	8.2 J	0.48 U	25	4.7 J
1,2-Dichloroethene (trans)	UG/L	1.9 J	0.65 U	0.65 U	0.65 U	0.65 U
1,2-Dichloropropane	UG/L	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
1,3-Dichlorobenzene	UG/L	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
1,3-Dichloropropane	UG/L	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
1,3-Dichloropropene (cis)	UG/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U

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Detection Limits shown are MDL

TABLE 4A
VALIDATED GROUNDWATER SAMPLE RESULTS (VOCs)
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-028	DEC-029	DEC-029D	DEC-030	DEC-030D
Sample ID		DEC-028	DEC-029	DEC-029D	DEC-030	DEC-030D
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/21/11	06/23/11	06/23/11	06/20/11	06/20/11
Parameter	Units					
Volatile Organic Compounds						
1,3-Dichloropropene (trans)	UG/L	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
1,4-Dichlorobenzene	UG/L	0.40 U	1.1 J	0.40 U	0.40 U	0.40 U
1,4-Dioxane	UG/L	R	R	R	R	R
2,2-Dichloropropane	UG/L	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
2-Chlorotoluene	UG/L	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
2-Hexanone	UG/L	1.7 U	1.7 UJ	1.7 U	1.7 UJ	1.7 UJ
4-Chlorotoluene	UG/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
4-Isopropyltoluene (p-Cymene)	UG/L	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
4-Methyl-2-pentanone	UG/L	0.82 U	0.82 UJ	0.82 U	0.82 UJ	0.82 UJ
Acetone	UG/L	R	R	R	R	R
Benzene	UG/L	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Bromobenzene	UG/L	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
Bromochloromethane	UG/L	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
Bromodichloromethane	UG/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
Bromoform	UG/L	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U
Bromomethane	UG/L	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U
Carbon disulfide	UG/L	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
Carbon tetrachloride	UG/L	0.54 U	0.54 UJ	0.54 U	0.54 U	0.54 U
Chlorobenzene	UG/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
Chloroethane	UG/L	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
Chloroform	UG/L	0.33 U	1.0 J	0.33 U	0.33 U	0.33 U
Chloromethane	UG/L	0.26 U	0.26 UJ	0.26 UJ	0.26 U	0.26 U
Cyclohexane	UG/L	0.71 U	0.71 UJ	0.71 U	0.71 U	0.71 U

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TABLE 4A
VALIDATED GROUNDWATER SAMPLE RESULTS (VOCS)
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-028	DEC-029	DEC-029D	DEC-030	DEC-030D
Sample ID		DEC-028	DEC-029	DEC-029D	DEC-030	DEC-030D
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/21/11	06/23/11	06/23/11	06/20/11	06/20/11
Parameter	Units					
Volatile Organic Compounds						
Dibromochloromethane	UG/L	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U
Dibromomethane	UG/L	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U
Dichlorodifluoromethane	UG/L	0.66 UJ	0.66 U	0.66 U	0.66 UJ	0.66 UJ
Ethylbenzene	UG/L	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Hexachlorobutadiene	UG/L	0.41 UJ	0.41 UJ	0.41 U	0.41 U	0.41 U
Iodomethane (Methyl iodide)	UG/L	0.63 U	0.63 UJ	0.63 U	0.63 U	0.63 U
Isopropylbenzene (Cumene)	UG/L	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
Methyl acetate	UG/L	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
Methyl ethyl ketone (2-Butanone)	UG/L	R	R	R	R	R
Methyl tert-butyl ether	UG/L	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Methylcyclohexane	UG/L	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U
Methylene chloride	UG/L	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
Naphthalene	UG/L	0.80 UJ	0.80 U	0.80 U	0.80 UJ	0.80 UJ
sec-Butylbenzene	UG/L	3.4 J	0.28 U	0.28 U	0.28 U	0.28 U
Styrene	UG/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
tert-Butylbenzene	UG/L	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
Tetrachloroethene	UG/L	2,300 D	5,700 D	20	2,000 D	43
Toluene	UG/L	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
Trichloroethene	UG/L	220 D	7.4	3.4 J	27	170
Trichlorofluoromethane	UG/L	0.54 U	0.54 UJ	0.54 U	0.54 UJ	0.54 UJ
Vinyl acetate	UG/L	0.35 U	0.35 UJ	0.35 U	0.35 U	0.35 U
Vinyl chloride	UG/L	0.50 U	0.50 U	0.50 UJ	0.50 U	0.50 U
Xylene (total)	UG/L	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are MDL

TABLE 4A
VALIDATED GROUNDWATER SAMPLE RESULTS (VOCs)
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-031	DEC-031D	DEC-032	DEC-033	DEC-039
Sample ID		DEC-031	DEC-031D	DEC-032	DEC-033	DEC-039
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/21/11	06/21/11	06/22/11	06/21/11	06/24/11
Parameter	Units					
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	UG/L	2.1 J	0.41 U	0.41 U	0.41 U	0.41 U
1,1,1-Trichloroethane	UG/L	0.50 U	0.50 U	0.50 U	0.50 U	3.6 J
1,1,2,2-Tetrachloroethane	UG/L	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
1,1,2-Trichloroethane	UG/L	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
1,1-Dichloroethane	UG/L	1.1 J	0.25 U	0.25 U	0.25 U	2.6 J
1,1-Dichloroethene	UG/L	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
1,1-Dichloropropene	UG/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	UG/L	0.33 U	0.33 U	0.33 U	0.33 UJ	0.33 U
1,2,3-Trichloropropane	UG/L	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
1,2,4-Trichlorobenzene	UG/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
1,2,4-Trimethylbenzene	UG/L	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
1,2-Dibromo-3-chloropropane	UG/L	0.75 UJ	0.75 UJ	0.75 U	0.75 UJ	0.75 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	UG/L	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
1,2-Dichloroethane	UG/L	0.41 U	86	0.41 U	0.41 U	0.41 U
1,2-Dichloroethene (cis)	UG/L	17	0.48 U	0.48 UJ	0.48 U	23
1,2-Dichloroethene (trans)	UG/L	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U
1,2-Dichloropropane	UG/L	0.61 U	0.61 U	0.61 UJ	0.61 U	0.61 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
1,3-Dichlorobenzene	UG/L	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
1,3-Dichloropropane	UG/L	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
1,3-Dichloropropene (cis)	UG/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U

Flags assigned during chemistry validation are shown.

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TABLE 4A
VALIDATED GROUNDWATER SAMPLE RESULTS (VOCs)
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-031	DEC-031D	DEC-032	DEC-033	DEC-039
Sample ID		DEC-031	DEC-031D	DEC-032	DEC-033	DEC-039
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/21/11	06/21/11	06/22/11	06/21/11	06/24/11
Parameter	Units					
Volatile Organic Compounds						
1,3-Dichloropropene (trans)	UG/L	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
1,4-Dichlorobenzene	UG/L	1.3 J	0.40 U	0.40 U	0.40 U	0.40 U
1,4-Dioxane	UG/L	R	R	R	R	R
2,2-Dichloropropane	UG/L	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
2-Chlorotoluene	UG/L	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
2-Hexanone	UG/L	1.7 UJ	1.7 UJ	1.7 U	1.7 U	1.7 U
4-Chlorotoluene	UG/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
4-Isopropyltoluene (p-Cymene)	UG/L	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
4-Methyl-2-pentanone	UG/L	0.82 UJ	0.82 UJ	0.82 U	0.82 U	0.82 U
Acetone	UG/L	R	R	R	R	R
Benzene	UG/L	0.33 U	0.33 U	0.33 UJ	0.33 U	0.33 U
Bromobenzene	UG/L	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
Bromochloromethane	UG/L	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
Bromodichloromethane	UG/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
Bromoform	UG/L	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U
Bromomethane	UG/L	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U
Carbon disulfide	UG/L	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
Carbon tetrachloride	UG/L	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
Chlorobenzene	UG/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
Chloroethane	UG/L	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
Chloroform	UG/L	2.1 J	0.33 U	0.33 U	0.33 U	0.33 U
Chloromethane	UG/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 UJ
Cyclohexane	UG/L	0.71 U	0.71 U	0.71 UJ	0.71 U	0.71 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are MDL

TABLE 4A
VALIDATED GROUNDWATER SAMPLE RESULTS (VOCS)
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-031	DEC-031D	DEC-032	DEC-033	DEC-039
Sample ID		DEC-031	DEC-031D	DEC-032	DEC-033	DEC-039
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/21/11	06/21/11	06/22/11	06/21/11	06/24/11
Parameter	Units					
Volatile Organic Compounds						
Dibromochloromethane	UG/L	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U
Dibromomethane	UG/L	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U
Dichlorodifluoromethane	UG/L	0.66 UJ	0.66 UJ	0.66 U	0.66 UJ	0.66 U
Ethylbenzene	UG/L	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Hexachlorobutadiene	UG/L	0.41 U	0.41 U	0.41 U	0.41 UJ	0.41 U
Iodomethane (Methyl iodide)	UG/L	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U
Isopropylbenzene (Cumene)	UG/L	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
Methyl acetate	UG/L	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
Methyl ethyl ketone (2-Butanone)	UG/L	R	R	R	R	R
Methyl tert-butyl ether	UG/L	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Methylcyclohexane	UG/L	0.76 U	0.76 U	0.76 UJ	0.76 U	0.76 U
Methylene chloride	UG/L	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
Naphthalene	UG/L	0.80 UJ	0.80 UJ	0.80 U	0.80 UJ	0.80 U
sec-Butylbenzene	UG/L	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
Styrene	UG/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
tert-Butylbenzene	UG/L	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
Tetrachloroethene	UG/L	6,100 D	16	3.0 J	0.65 U	58
Toluene	UG/L	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
Trichloroethene	UG/L	23	1.2 J	1.3 J	0.36 U	230 D
Trichlorofluoromethane	UG/L	0.54 UJ	0.54 UJ	0.54 U	0.54 U	24
Vinyl acetate	UG/L	0.35 U	0.35 U	0.35 U	0.35 U	NA
Vinyl chloride	UG/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 UJ
Xylene (total)	UG/L	0.36 U	0.36 U	0.36 U	0.36 U	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

Checked By: _____

Detection Limits shown are MDL

TABLE 4A
VALIDATED GROUNDWATER SAMPLE RESULTS (VOCs)
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-039	DEC-042	DEC-043	DEC-043D	DEC-044
Sample ID		DUP-062411	DEC-042	DEC-043	DEC-043D	DEC-044
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/24/11	06/23/11	06/22/11	06/22/11	06/23/11
Parameter	Units	Field Duplicate (1-1)				
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	UG/L	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
1,1,1-Trichloroethane	UG/L	0.50 U	2.9 J	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	UG/L	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
1,1,2-Trichloroethane	UG/L	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
1,1-Dichloroethane	UG/L	2.8 J	1.1 J	0.25 U	0.25 U	0.25 U
1,1-Dichloroethene	UG/L	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
1,1-Dichloropropene	UG/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	UG/L	0.33 U	0.33 U	0.33 UJ	0.33 UJ	0.33 U
1,2,3-Trichloropropane	UG/L	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
1,2,4-Trichlorobenzene	UG/L	0.26 U	0.26 U	0.26 UJ	0.26 UJ	0.26 U
1,2,4-Trimethylbenzene	UG/L	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
1,2-Dibromo-3-chloropropane	UG/L	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	UG/L	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
1,2-Dichloroethane	UG/L	0.41 U	0.41 U	0.41 U	9.4	0.41 U
1,2-Dichloroethene (cis)	UG/L	24	6.3 J	0.48 U	0.48 U	2.0 J
1,2-Dichloroethene (trans)	UG/L	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U
1,2-Dichloropropane	UG/L	0.61 U	0.61 UJ	0.61 U	0.61 U	0.61 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
1,3-Dichlorobenzene	UG/L	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
1,3-Dichloropropane	UG/L	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
1,3-Dichloropropene (cis)	UG/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are MDL

TABLE 4A
VALIDATED GROUNDWATER SAMPLE RESULTS (VOCs)
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-039	DEC-042	DEC-043	DEC-043D	DEC-044
Sample ID		DUP-062411	DEC-042	DEC-043	DEC-043D	DEC-044
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/24/11	06/23/11	06/22/11	06/22/11	06/23/11
Parameter	Units	Field Duplicate (1-1)				
Volatile Organic Compounds						
1,3-Dichloropropene (trans)	UG/L	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
1,4-Dichlorobenzene	UG/L	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
1,4-Dioxane	UG/L	R	R	R	R	R
2,2-Dichloropropane	UG/L	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
2-Chlorotoluene	UG/L	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
2-Hexanone	UG/L	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
4-Chlorotoluene	UG/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
4-Isopropyltoluene (p-Cymene)	UG/L	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
4-Methyl-2-pentanone	UG/L	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
Acetone	UG/L	R	R	R	R	R
Benzene	UG/L	0.33 U	0.33 UJ	0.33 U	0.33 U	0.33 U
Bromobenzene	UG/L	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
Bromochloromethane	UG/L	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
Bromodichloromethane	UG/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
Bromoform	UG/L	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U
Bromomethane	UG/L	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U
Carbon disulfide	UG/L	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
Carbon tetrachloride	UG/L	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
Chlorobenzene	UG/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
Chloroethane	UG/L	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
Chloroform	UG/L	0.33 U	1.4 J	0.33 U	0.33 U	0.33 U
Chloromethane	UG/L	0.26 UJ	0.26 U	0.26 U	0.26 U	0.26 U
Cyclohexane	UG/L	0.71 U	0.71 UJ	0.71 U	0.71 U	0.71 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are MDL

TABLE 4A
VALIDATED GROUNDWATER SAMPLE RESULTS (VOCS)
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-039	DEC-042	DEC-043	DEC-043D	DEC-044
Sample ID		DUP-062411	DEC-042	DEC-043	DEC-043D	DEC-044
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/24/11	06/23/11	06/22/11	06/22/11	06/23/11
Parameter	Units	Field Duplicate (1-1)				
Volatile Organic Compounds						
Dibromochloromethane	UG/L	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U
Dibromomethane	UG/L	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U
Dichlorodifluoromethane	UG/L	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U
Ethylbenzene	UG/L	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Hexachlorobutadiene	UG/L	0.41 U	0.41 U	0.41 UJ	0.41 UJ	0.41 U
Iodomethane (Methyl iodide)	UG/L	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U
Isopropylbenzene (Cumene)	UG/L	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
Methyl acetate	UG/L	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
Methyl ethyl ketone (2-Butanone)	UG/L	R	R	R	R	R
Methyl tert-butyl ether	UG/L	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Methylcyclohexane	UG/L	0.76 U	0.76 UJ	0.76 U	0.76 U	0.76 UJ
Methylene chloride	UG/L	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
Naphthalene	UG/L	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U
sec-Butylbenzene	UG/L	0.28 U	0.28 U	0.28 U	0.28 U	0.28 UJ
Styrene	UG/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
tert-Butylbenzene	UG/L	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
Tetrachloroethene	UG/L	59	62	12	9.0	1,500 D
Toluene	UG/L	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
Trichloroethene	UG/L	240 D	73	0.36 U	1.2 J	8.6
Trichlorofluoromethane	UG/L	26	23	0.54 U	0.54 U	0.54 U
Vinyl acetate	UG/L	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Vinyl chloride	UG/L	0.50 UJ	0.50 U	0.50 U	0.50 U	0.50 U
Xylene (total)	UG/L	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are MDL

TABLE 4A
VALIDATED GROUNDWATER SAMPLE RESULTS (VOCS)
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-044D	DEC-045	DEC-045D	DEC-046	DEC-047
Sample ID		DEC-044D	DEC-045	DEC-045D	DEC-046	DEC-047
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/23/11	06/21/11	06/21/11	06/21/11	06/21/11
Parameter	Units					
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	UG/L	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
1,1,1-Trichloroethane	UG/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	UG/L	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
1,1,2-Trichloroethane	UG/L	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
1,1-Dichloroethane	UG/L	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,1-Dichloroethene	UG/L	1.3 J	0.39 U	0.39 U	0.39 U	0.39 U
1,1-Dichloropropene	UG/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	UG/L	0.33 U	0.33 UJ	0.33 UJ	0.33 UJ	0.33 UJ
1,2,3-Trichloropropane	UG/L	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
1,2,4-Trichlorobenzene	UG/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
1,2,4-Trimethylbenzene	UG/L	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
1,2-Dibromo-3-chloropropane	UG/L	0.75 U	0.75 U	0.75 U	0.75 UJ	0.75 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	UG/L	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
1,2-Dichloroethane	UG/L	500 D	0.41 U	81	0.41 U	0.41 U
1,2-Dichloroethene (cis)	UG/L	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
1,2-Dichloroethene (trans)	UG/L	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U
1,2-Dichloropropane	UG/L	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
1,3-Dichlorobenzene	UG/L	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
1,3-Dichloropropane	UG/L	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
1,3-Dichloropropene (cis)	UG/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U

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Detection Limits shown are MDL

TABLE 4A
VALIDATED GROUNDWATER SAMPLE RESULTS (VOCs)
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-044D	DEC-045	DEC-045D	DEC-046	DEC-047
Sample ID		DEC-044D	DEC-045	DEC-045D	DEC-046	DEC-047
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/23/11	06/21/11	06/21/11	06/21/11	06/21/11
Parameter	Units					
Volatile Organic Compounds						
1,3-Dichloropropene (trans)	UG/L	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
1,4-Dichlorobenzene	UG/L	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
1,4-Dioxane	UG/L	R	R	R	R	R
2,2-Dichloropropane	UG/L	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
2-Chlorotoluene	UG/L	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
2-Hexanone	UG/L	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
4-Chlorotoluene	UG/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
4-Isopropyltoluene (p-Cymene)	UG/L	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
4-Methyl-2-pentanone	UG/L	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
Acetone	UG/L	R	R	R	R	R
Benzene	UG/L	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Bromobenzene	UG/L	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
Bromochloromethane	UG/L	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
Bromodichloromethane	UG/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
Bromoform	UG/L	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U
Bromomethane	UG/L	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U
Carbon disulfide	UG/L	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
Carbon tetrachloride	UG/L	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
Chlorobenzene	UG/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
Chloroethane	UG/L	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
Chloroform	UG/L	6.5	0.33 U	0.33 U	1.1 J	1.4 J
Chloromethane	UG/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
Cyclohexane	UG/L	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U

Flags assigned during chemistry validation are shown.

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Checked By: _____

Detection Limits shown are MDL

TABLE 4A
VALIDATED GROUNDWATER SAMPLE RESULTS (VOCs)
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-044D	DEC-045	DEC-045D	DEC-046	DEC-047
Sample ID		DEC-044D	DEC-045	DEC-045D	DEC-046	DEC-047
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/23/11	06/21/11	06/21/11	06/21/11	06/21/11
Parameter	Units					
Volatile Organic Compounds						
Dibromochloromethane	UG/L	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U
Dibromomethane	UG/L	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U
Dichlorodifluoromethane	UG/L	0.66 U	0.66 UJ	0.66 UJ	0.66 UJ	0.66 UJ
Ethylbenzene	UG/L	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Hexachlorobutadiene	UG/L	0.41 U	0.41 U	0.41 U	0.41 UJ	0.41 U
Iodomethane (Methyl iodide)	UG/L	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U
Isopropylbenzene (Cumene)	UG/L	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
Methyl acetate	UG/L	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
Methyl ethyl ketone (2-Butanone)	UG/L	R	R	R	R	R
Methyl tert-butyl ether	UG/L	0.24 U	0.24 U	0.24 U	0.24 U	19
Methylcyclohexane	UG/L	0.76 UJ	0.76 U	0.76 U	0.76 U	0.76 U
Methylene chloride	UG/L	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
Naphthalene	UG/L	0.80 U	0.80 UJ	0.80 UJ	5.7 J	0.80 UJ
sec-Butylbenzene	UG/L	0.28 UJ	0.28 U	0.28 U	0.28 U	0.28 U
Styrene	UG/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
tert-Butylbenzene	UG/L	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
Tetrachloroethene	UG/L	1.5 J	43	0.65 U	7.4	2.9 J
Toluene	UG/L	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
Trichloroethene	UG/L	0.36 U	0.36 U	0.36 U	1.5 J	0.36 U
Trichlorofluoromethane	UG/L	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
Vinyl acetate	UG/L	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Vinyl chloride	UG/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Xylene (total)	UG/L	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

Checked By: _____

Detection Limits shown are MDL

TABLE 4A
VALIDATED GROUNDWATER SAMPLE RESULTS (VOCS)
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-048	DEC-048	DEC-064	DEC-064D	DEC-065
Sample ID		DEC-048	DUP2-062411	DEC-064	DEC-064D	DEC-065
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/24/11	06/24/11	06/20/11	06/20/11	06/22/11
Parameter	Units		Field Duplicate (1-1)			
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	UG/L	0.41 U	0.41 U	0.41 UJ	0.41 U	0.41 U
1,1,1-Trichloroethane	UG/L	0.50 U	0.50 U	0.50 UJ	1.8 J	0.50 U
1,1,2,2-Tetrachloroethane	UG/L	0.42 U	0.42 U	0.42 UJ	0.42 U	0.42 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	0.82 U	0.82 U	0.82 UJ	0.82 U	0.82 U
1,1,2-Trichloroethane	UG/L	0.38 U	0.38 U	0.38 UJ	0.38 U	0.38 U
1,1-Dichloroethane	UG/L	0.25 U	0.25 U	0.25 UJ	1.3 J	0.25 U
1,1-Dichloroethene	UG/L	0.39 U	0.39 U	0.39 UJ	11	0.39 U
1,1-Dichloropropene	UG/L	0.50 U	0.50 U	0.50 UJ	0.50 U	0.50 U
1,2,3-Trichlorobenzene	UG/L	0.33 U	0.33 U	0.33 UJ	2.1 J	0.33 UJ
1,2,3-Trichloropropane	UG/L	0.82 U	0.82 U	0.82 UJ	0.82 U	0.82 U
1,2,4-Trichlorobenzene	UG/L	0.26 U	0.26 U	0.26 UJ	5.5	0.26 U
1,2,4-Trimethylbenzene	UG/L	1.5 J	1.7 J	0.40 UJ	0.40 U	0.40 U
1,2-Dibromo-3-chloropropane	UG/L	0.75 U	0.75 U	0.75 UJ	0.75 U	0.75 UJ
1,2-Dibromoethane (Ethylene dibromide)	UG/L	0.50 U	0.50 U	0.50 UJ	0.50 U	0.50 U
1,2-Dichlorobenzene	UG/L	0.33 U	0.33 U	0.33 UJ	0.33 U	0.33 U
1,2-Dichloroethane	UG/L	0.41 U	0.41 U	0.41 UJ	2.6 J	0.41 U
1,2-Dichloroethene (cis)	UG/L	0.48 U	0.48 U	2.3 J	2.0 J	0.48 U
1,2-Dichloroethene (trans)	UG/L	0.65 U	0.65 U	0.65 UJ	0.65 U	0.65 U
1,2-Dichloropropane	UG/L	0.61 U	0.61 U	0.61 UJ	0.61 U	0.61 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/L	0.45 U	0.45 U	0.45 UJ	0.45 U	0.45 U
1,3-Dichlorobenzene	UG/L	0.29 U	0.29 U	0.29 UJ	0.29 U	0.29 U
1,3-Dichloropropane	UG/L	0.22 U	0.22 U	0.22 UJ	0.22 U	0.22 U
1,3-Dichloropropene (cis)	UG/L	0.45 U	0.45 U	0.45 UJ	0.45 U	0.45 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

Checked By _____

Detection Limits shown are MDL

TABLE 4A
VALIDATED GROUNDWATER SAMPLE RESULTS (VOCS)
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-048	DEC-048	DEC-064	DEC-064D	DEC-065
Sample ID		DEC-048	DUP2-062411	DEC-064	DEC-064D	DEC-065
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/24/11	06/24/11	06/20/11	06/20/11	06/22/11
Parameter	Units		Field Duplicate (1-1)			
Volatile Organic Compounds						
1,3-Dichloropropene (trans)	UG/L	0.48 U	0.48 U	0.48 UJ	0.48 U	0.48 U
1,4-Dichlorobenzene	UG/L	0.40 U	0.40 U	0.40 UJ	0.40 U	0.40 U
1,4-Dioxane	UG/L	R	R	R	R	R
2,2-Dichloropropane	UG/L	0.30 U	0.30 U	0.30 UJ	0.30 U	0.30 U
2-Chlorotoluene	UG/L	0.54 U	0.54 U	0.54 UJ	0.54 U	0.54 U
2-Hexanone	UG/L	1.7 U	1.7 U	1.7 UJ	1.7 U	1.7 U
4-Chlorotoluene	UG/L	0.45 U	0.45 U	0.45 UJ	0.45 U	0.45 U
4-Isopropyltoluene (p-Cymene)	UG/L	0.46 U	0.46 U	0.46 UJ	0.46 U	0.46 U
4-Methyl-2-pentanone	UG/L	0.82 U	0.82 U	0.82 UJ	0.82 U	0.82 U
Acetone	UG/L	3.1 J	7.5 J	R	R	R
Benzene	UG/L	0.33 U	0.33 U	0.33 UJ	0.33 U	0.33 U
Bromobenzene	UG/L	0.36 U	0.36 U	0.36 UJ	0.36 U	0.36 U
Bromochloromethane	UG/L	0.43 U	0.43 U	0.43 UJ	0.43 U	0.43 U
Bromodichloromethane	UG/L	0.26 U	0.26 U	0.26 UJ	0.26 U	0.26 U
Bromoform	UG/L	0.77 U	0.77 U	0.77 UJ	0.77 U	0.77 U
Bromomethane	UG/L	0.80 U	0.80 U	0.80 UJ	0.80 U	0.80 U
Carbon disulfide	UG/L	0.34 U	0.34 U	0.34 UJ	0.34 U	0.34 U
Carbon tetrachloride	UG/L	0.54 U	0.54 U	0.54 UJ	0.54 U	0.54 U
Chlorobenzene	UG/L	0.26 U	0.26 U	0.26 UJ	0.26 U	0.26 U
Chloroethane	UG/L	0.48 U	0.48 U	0.48 UJ	0.48 U	0.48 U
Chloroform	UG/L	0.33 U	0.33 U	3.3 J	2.3 J	12
Chloromethane	UG/L	0.26 UJ	0.26 UJ	0.26 UJ	0.26 U	0.26 U
Cyclohexane	UG/L	0.71 U	0.71 U	0.71 UJ	0.71 U	0.71 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

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Detection Limits shown are MDL

TABLE 4A
VALIDATED GROUNDWATER SAMPLE RESULTS (VOCs)
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-048	DEC-048	DEC-064	DEC-064D	DEC-065
Sample ID		DEC-048	DUP2-062411	DEC-064	DEC-064D	DEC-065
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/24/11	06/24/11	06/20/11	06/20/11	06/22/11
Parameter	Units		Field Duplicate (1-1)			
Volatile Organic Compounds						
Dibromochloromethane	UG/L	0.57 U	0.57 U	0.57 UJ	0.57 U	0.57 U
Dibromomethane	UG/L	0.49 U	0.49 U	0.49 UJ	0.49 U	0.49 U
Dichlorodifluoromethane	UG/L	0.66 U	0.66 U	0.66 UJ	0.66 UJ	0.66 UJ
Ethylbenzene	UG/L	0.35 U	0.35 U	0.35 UJ	0.35 U	0.35 U
Hexachlorobutadiene	UG/L	0.41 U	0.41 U	0.41 UJ	0.41 U	0.41 UJ
Iodomethane (Methyl iodide)	UG/L	0.63 U	0.63 U	0.63 UJ	0.63 U	0.63 U
Isopropylbenzene (Cumene)	UG/L	0.38 U	0.38 U	0.38 UJ	0.38 U	0.38 U
Methyl acetate	UG/L	0.29 U	0.29 U	0.29 UJ	0.29 U	0.29 U
Methyl ethyl ketone (2-Butanone)	UG/L	13 J	18 J	R	R	R
Methyl tert-butyl ether	UG/L	0.24 U	0.24 U	0.24 UJ	1.7 J	0.24 U
Methylcyclohexane	UG/L	0.76 U	0.76 U	0.76 UJ	0.76 U	0.76 U
Methylene chloride	UG/L	0.41 U	0.41 U	0.41 UJ	0.41 U	0.41 U
Naphthalene	UG/L	2.2 J	2.4 J	0.80 UJ	0.80 UJ	0.80 UJ
sec-Butylbenzene	UG/L	0.28 U	0.28 U	0.28 UJ	0.28 U	0.28 U
Styrene	UG/L	0.50 U	0.50 U	0.50 UJ	0.50 U	0.50 U
tert-Butylbenzene	UG/L	0.37 U	0.37 U	0.37 UJ	0.37 U	0.37 U
Tetrachloroethene	UG/L	3.2 J	3.6 J	220 D	14	160
Toluene	UG/L	0.32 U	0.32 U	0.32 UJ	0.32 U	0.32 U
Trichloroethene	UG/L	2.6 J	1.4 J	6.8 J	160	3.6 J
Trichlorofluoromethane	UG/L	0.54 U	0.54 U	0.54 UJ	0.54 U	0.54 U
Vinyl acetate	UG/L	0.35 U	0.35 U	0.35 UJ	0.35 U	0.35 U
Vinyl chloride	UG/L	0.50 UJ	0.50 UJ	0.50 UJ	0.50 U	0.50 U
Xylene (total)	UG/L	0.36 U	0.36 U	0.36 UJ	0.36 U	0.36 U

Flags assigned during chemistry validation are shown.

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Checked By: _____

Detection Limits shown are MDL

TABLE 4A
VALIDATED GROUNDWATER SAMPLE RESULTS (VOCS)
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-065	DEC-065D	DEC-066	DEC-066D
Sample ID		DUP-062211	DEC-065D	DEC-066	DEC-066D
Matrix		Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-
Date Sampled		06/22/11	06/22/11	06/22/11	06/22/11
Parameter	Units	Field Duplicate (1-1)			
Volatile Organic Compounds					
1,1,1,2-Tetrachloroethane	UG/L	0.41 U	0.41 U	0.41 U	0.41 U
1,1,1-Trichloroethane	UG/L	0.50 U	22	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	UG/L	0.42 U	0.42 U	0.42 U	0.42 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	0.82 U	0.82 U	0.82 U	0.82 U
1,1,2-Trichloroethane	UG/L	0.38 U	0.38 U	0.38 U	0.38 U
1,1-Dichloroethane	UG/L	0.25 U	6.8	0.25 U	0.25 U
1,1-Dichloroethene	UG/L	0.39 U	120	0.39 U	0.39 U
1,1-Dichloropropene	UG/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	UG/L	0.33 U	0.33 UJ	0.33 U	0.33 U
1,2,3-Trichloropropane	UG/L	0.82 U	0.82 U	0.82 U	0.82 U
1,2,4-Trichlorobenzene	UG/L	0.26 U	0.26 U	0.26 U	0.26 U
1,2,4-Trimethylbenzene	UG/L	0.40 U	0.40 U	0.40 U	0.40 U
1,2-Dibromo-3-chloropropane	UG/L	0.75 U	0.75 UJ	0.75 U	0.75 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	UG/L	0.33 U	0.33 U	0.33 U	0.33 U
1,2-Dichloroethane	UG/L	0.41 U	0.41 U	0.41 U	23
1,2-Dichloroethene (cis)	UG/L	0.48 U	11	4.1 J	0.48 U
1,2-Dichloroethene (trans)	UG/L	0.65 U	0.65 U	0.65 U	0.65 U
1,2-Dichloropropane	UG/L	0.61 U	0.61 U	0.61 U	0.61 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/L	0.45 U	0.45 U	0.45 U	0.45 U
1,3-Dichlorobenzene	UG/L	0.29 U	0.29 U	0.29 U	0.29 U
1,3-Dichloropropane	UG/L	0.22 U	0.22 U	0.22 U	0.22 U
1,3-Dichloropropene (cis)	UG/L	0.45 U	0.45 U	0.45 U	0.45 U

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Detection Limits shown are MDL

TABLE 4A
VALIDATED GROUNDWATER SAMPLE RESULTS (VOCs)
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-065	DEC-065D	DEC-066	DEC-066D
Sample ID		DUP-062211	DEC-065D	DEC-066	DEC-066D
Matrix		Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-
Date Sampled		06/22/11	06/22/11	06/22/11	06/22/11
Parameter	Units	Field Duplicate (1-1)			
Volatile Organic Compounds					
1,3-Dichloropropene (trans)	UG/L	0.48 U	0.48 U	0.48 U	0.48 U
1,4-Dichlorobenzene	UG/L	0.40 U	0.40 U	0.40 U	0.40 U
1,4-Dioxane	UG/L	R	R	R	R
2,2-Dichloropropane	UG/L	0.30 U	0.30 U	0.30 U	0.30 U
2-Chlorotoluene	UG/L	0.54 UJ	0.54 U	0.54 U	0.54 U
2-Hexanone	UG/L	1.7 U	1.7 U	1.7 U	1.7 U
4-Chlorotoluene	UG/L	0.45 U	0.45 U	0.45 U	0.45 U
4-Isopropyltoluene (p-Cymene)	UG/L	0.46 U	0.46 U	0.46 U	0.46 U
4-Methyl-2-pentanone	UG/L	0.82 U	0.82 U	0.82 U	0.82 U
Acetone	UG/L	R	R	R	2.7 J
Benzene	UG/L	0.33 UJ	0.33 U	0.33 U	0.33 U
Bromobenzene	UG/L	0.36 U	0.36 U	0.36 U	0.36 U
Bromochloromethane	UG/L	0.43 U	0.43 U	0.43 U	0.43 U
Bromodichloromethane	UG/L	0.26 U	0.26 U	0.26 U	0.26 U
Bromoform	UG/L	0.77 U	0.77 U	0.77 U	0.77 U
Bromomethane	UG/L	0.80 U	0.80 U	0.80 U	0.80 U
Carbon disulfide	UG/L	0.34 U	0.34 U	0.34 U	0.34 U
Carbon tetrachloride	UG/L	0.54 U	0.54 U	0.54 U	0.54 U
Chlorobenzene	UG/L	0.26 U	0.26 U	0.26 U	0.26 U
Chloroethane	UG/L	0.48 U	0.48 U	0.48 U	0.48 U
Chloroform	UG/L	14	2.8 J	0.33 U	0.33 U
Chloromethane	UG/L	0.26 U	0.26 U	0.26 U	0.26 U
Cyclohexane	UG/L	0.71 UJ	0.71 U	0.71 U	0.71 U

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TABLE 4A
VALIDATED GROUNDWATER SAMPLE RESULTS (VOCS)
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-065	DEC-065D	DEC-066	DEC-066D
Sample ID		DUP-062211	DEC-065D	DEC-066	DEC-066D
Matrix		Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-
Date Sampled		06/22/11	06/22/11	06/22/11	06/22/11
Parameter	Units	Field Duplicate (1-1)			
Volatile Organic Compounds					
Dibromochloromethane	UG/L	0.57 U	0.57 U	0.57 U	0.57 U
Dibromomethane	UG/L	0.49 U	0.49 U	0.49 U	0.49 U
Dichlorodifluoromethane	UG/L	0.66 U	0.66 UJ	0.66 U	0.66 U
Ethylbenzene	UG/L	0.35 U	0.35 U	0.35 U	0.35 U
Hexachlorobutadiene	UG/L	0.41 U	0.41 UJ	0.41 U	0.41 U
Iodomethane (Methyl iodide)	UG/L	0.63 U	0.63 U	0.63 U	0.63 U
Isopropylbenzene (Cumene)	UG/L	0.38 U	0.38 U	0.38 U	0.38 U
Methyl acetate	UG/L	0.29 U	0.29 U	0.29 U	0.29 U
Methyl ethyl ketone (2-Butanone)	UG/L	R	R	R	R
Methyl tert-butyl ether	UG/L	0.24 U	0.24 U	0.24 U	0.24 U
Methylcyclohexane	UG/L	0.76 UJ	0.76 U	0.76 UJ	0.76 UJ
Methylene chloride	UG/L	0.41 U	0.41 U	0.41 U	0.41 U
Naphthalene	UG/L	0.80 U	0.80 UJ	0.80 U	0.80 U
sec-Butylbenzene	UG/L	0.28 UJ	0.28 U	0.28 UJ	0.28 UJ
Styrene	UG/L	0.50 U	0.50 U	0.50 U	0.50 U
tert-Butylbenzene	UG/L	0.37 U	0.37 U	0.37 U	0.37 U
Tetrachloroethene	UG/L	170	83	8.4	1.7 J
Toluene	UG/L	0.32 U	0.32 U	0.32 U	0.32 U
Trichloroethene	UG/L	2.3 J	670 D	2.1 J	0.36 U
Trichlorofluoromethane	UG/L	0.54 U	1.3 J	0.54 U	0.54 U
Vinyl acetate	UG/L	0.35 U	0.35 U	0.35 U	0.35 U
Vinyl chloride	UG/L	0.50 U	0.50 U	0.50 U	0.50 U
Xylene (total)	UG/L	0.36 U	0.36 U	0.36 U	0.36 U

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Detection Limits shown are MDL

TABLE 4B
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-031	DEC-031D	DEC-048	DEC-048
Sample ID		DEC-031	DEC-031D	DEC-048	DUP2-062411
Matrix		Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-
Date Sampled		06/21/11	06/21/11	06/24/11	06/24/11
Parameter	Units				Field Duplicate (1-1)
Semivolatile Organic Compounds					
1,1-Biphenyl	UG/L	5.0 U	5.0 U	5.0 U	0.68 J
2,2-oxybis(1-Chloropropane)	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
2,4,5-Trichlorophenol	UG/L	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dichlorophenol	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dimethylphenol	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dinitrophenol	UG/L	10 UJ	10 UJ	10 U	10 U
2,4-Dinitrotoluene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
2,6-Dinitrotoluene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
2-Chloronaphthalene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
2-Chlorophenol	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
2-Methylnaphthalene	UG/L	5.0 U	5.0 U	5.0 U	1.4 J
2-Methylphenol (o-cresol)	UG/L	5.0 UJ	5.0 UJ	5.0 U	5.0 U
2-Nitroaniline	UG/L	10 U	10 U	10 U	10 U
2-Nitrophenol	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
3&4-Methylphenol	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
3,3-Dichlorobenzidine	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
3-Nitroaniline	UG/L	10 U	10 U	10 U	10 U
4,6-Dinitro-2-methylphenol	UG/L	10 U	10 U	10 U	10 U
4-Bromophenyl-phenylether	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
4-Chloro-3-methylphenol	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
4-Chloroaniline	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
4-Chlorophenyl-phenylether	UG/L	5.0 U	5.0 U	5.0 U	5.0 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

Checked By: _____

Detection Limits shown are PQL

TABLE 4B
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-031	DEC-031D	DEC-048	DEC-048
Sample ID		DEC-031	DEC-031D	DEC-048	DUP2-062411
Matrix		Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-
Date Sampled		06/21/11	06/21/11	06/24/11	06/24/11
Parameter	Units				Field Duplicate (1-1)
Semivolatile Organic Compounds					
4-Nitroaniline	UG/L	10 U	10 U	10 U	10 U
4-Nitrophenol	UG/L	10 U	10 U	10 U	10 U
Acenaphthene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Acenaphthylene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Acetophenone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Anthracene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Atrazine	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzaldehyde	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(a)anthracene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(a)pyrene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(b)fluoranthene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(g,h,i)perylene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(k)fluoranthene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
bis(2-Chloroethoxy)methane	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
bis(2-Chloroethyl)ether	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
bis(2-Ethylhexyl)phthalate	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Butylbenzylphthalate	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Caprolactam	UG/L	5.0 UJ	5.0 UJ	5.0 U	5.0 U
Carbazole	UG/L	5.0 U	5.0 U	5.0 U	0.72 J
Chrysene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibenz(a,h)anthracene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibenzofuran	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Diethylphthalate	UG/L	5.0 U	5.0 U	5.0 U	5.0 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

Checked By: _____

Detection Limits shown are PQL

TABLE 4B
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-031	DEC-031D	DEC-048	DEC-048
Sample ID		DEC-031	DEC-031D	DEC-048	DUP2-062411
Matrix		Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-
Date Sampled		06/21/11	06/21/11	06/24/11	06/24/11
Parameter	Units				Field Duplicate (1-1)
Semivolatile Organic Compounds					
Dimethylphthalate	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Di-n-butylphthalate	UG/L	0.56 J	0.72 J	5.0 U	5.0 U
Di-n-octylphthalate	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Fluoranthene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Fluorene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Hexachlorobenzene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Hexachlorobutadiene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Hexachlorocyclopentadiene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Hexachloroethane	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Indeno(1,2,3-cd)pyrene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Isophorone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	UG/L	5.0 U	5.0 U	5.0 U	1.2 J
Nitrobenzene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
N-Nitroso-di-n-propylamine	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
N-Nitrosodiphenylamine	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Pentachlorophenol	UG/L	10 U	10 U	10 U	10 U
Phenanthrene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Phenol	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Pyrene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Pesticide Organic Compounds					
4,4'-DDD	UG/L	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDE	UG/L	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDT	UG/L	0.10 U	0.10 U	0.10 U	0.10 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

Checked By _____

Detection Limits shown are PQL

TABLE 4B
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-031	DEC-031D	DEC-048	DEC-048
Sample ID		DEC-031	DEC-031D	DEC-048	DUP2-062411
Matrix		Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-
Date Sampled		06/21/11	06/21/11	06/24/11	06/24/11
Parameter	Units				Field Duplicate (1-1)
Pesticide Organic Compounds					
Aldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U
alpha-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U
alpha-Chlordane	UG/L	0.050 U	0.050 U	0.050 U	0.050 U
beta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U
delta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U
Dieldrin	UG/L	0.10 U	0.10 U	0.10 U	0.10 U
Endosulfan I	UG/L	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan II	UG/L	0.10 U	0.10 U	0.10 U	0.10 U
Endosulfan sulfate	UG/L	0.10 U	0.10 U	0.10 U	0.10 U
Endrin	UG/L	0.10 U	0.10 U	0.10 U	0.10 U
Endrin aldehyde	UG/L	0.10 U	0.10 U	0.10 U	0.10 U
Endrin ketone	UG/L	0.10 U	0.10 U	0.10 U	0.10 U
gamma-BHC (Lindane)	UG/L	0.051 J	0.050 U	0.050 U	0.050 U
gamma-Chlordane	UG/L	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	UG/L	0.050 U	0.050 U	0.050 U	0.050 U
Methoxychlor	UG/L	0.50 U	0.50 U	0.50 U	0.50 U
Toxaphene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Polychlorinated Biphenyls					
Aroclor 1016	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor 1221	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor 1232	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor 1242	UG/L	1.0 U	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

Checked By _____

Detection Limits shown are PQL

TABLE 4B
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-031	DEC-031D	DEC-048	DEC-048
Sample ID		DEC-031	DEC-031D	DEC-048	DUP2-062411
Matrix		Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-
Date Sampled		06/21/11	06/21/11	06/24/11	06/24/11
Parameter	Units				Field Duplicate (1-1)
Polychlorinated Biphenyls					
Aroclor 1248	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor 1254	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor 1260	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor 1262	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor 1268	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Metals					
Aluminum	UG/L	154 B	464	200 U	200 U
Antimony	UG/L	20 U	20 U	20 U	20 U
Arsenic	UG/L	20 U	20 U	20 U	20 U
Barium	UG/L	48.5 B	36.8 B	95.0 B	95.4 B
Beryllium	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Cadmium	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Calcium	UG/L	61,200	111,000	66,300	65,900
Chromium	UG/L	20 U	2.0 B	0.79 B	20 U
Cobalt	UG/L	1.8 B	6.1 B	1.1 B	1.1 B
Copper	UG/L	30 U	30 U	30 U	30 U
Iron	UG/L	314	1,530	1,010 J	1,990 J
Lead	UG/L	10 U	10 U	10 U	10 U
Magnesium	UG/L	21,400	58,400	28,400	28,100
Manganese	UG/L	249	2,300	738	702
Mercury	UG/L	0.20 U	0.20 U	0.20 U	0.20 U
Nickel	UG/L	10.8 B	4.2 B	6.6 B	6.0 B
Potassium	UG/L	2,350	7,020	2,890	2,850

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Detection Limits shown are PQL

TABLE 4B
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-031	DEC-031D	DEC-048	DEC-048
Sample ID		DEC-031	DEC-031D	DEC-048	DUP2-062411
Matrix		Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-
Date Sampled		06/21/11	06/21/11	06/24/11	06/24/11
Parameter	Units				Field Duplicate (1-1)
Metals					
Selenium	UG/L	30.0 U	30.0 U	30.0 U	30.0 U
Silver	UG/L	30 U	30 U	30 U	30 U
Sodium	UG/L	71,000	102,000	76,000	75,500
Thallium	UG/L	20 U	20 U	20 U	20 U
Vanadium	UG/L	50 U	2.2 B	50 U	50 U
Zinc	UG/L	50 U	11.0 B	50 U	50 U
Miscellaneous Parameters					
Cyanide	UG/L	20 U	20 U	20 U	20 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

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Detection Limits shown are PQL

TABLE 5
VALIDATED PRODUCT SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-048
Sample ID		DEC-048
Matrix		LNAPL
Depth Interval (ft)		-
Date Sampled		06/24/11
Parameter	Units	
Volatile Organic Compounds		
1,1,1,2-Tetrachloroethane	UG/KG	630,000 U
1,1,1-Trichloroethane	UG/KG	630,000 U
1,1,2,2-Tetrachloroethane	UG/KG	630,000 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/KG	630,000 U
1,1,2-Trichloroethane	UG/KG	630,000 U
1,1-Dichloroethane	UG/KG	630,000 U
1,1-Dichloroethene	UG/KG	630,000 U
1,1-Dichloropropene	UG/KG	630,000 U
1,2,3-Trichlorobenzene	UG/KG	630,000 U
1,2,3-Trichloropropane	UG/KG	630,000 U
1,2,4-Trichlorobenzene	UG/KG	630,000 U
1,2,4-Trimethylbenzene	UG/KG	420,000 J
1,2-Dibromo-3-chloropropane	UG/KG	630,000 U
1,2-Dibromoethane (Ethylene dibromide)	UG/KG	630,000 U
1,2-Dichlorobenzene	UG/KG	630,000 U
1,2-Dichloroethane	UG/KG	630,000 U
1,2-Dichloroethene (cis)	UG/KG	630,000 U
1,2-Dichloroethene (trans)	UG/KG	630,000 U
1,2-Dichloropropane	UG/KG	630,000 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/KG	630,000 U
1,3-Dichlorobenzene	UG/KG	630,000 U
1,3-Dichloropropane	UG/KG	630,000 U
1,3-Dichloropropene (cis)	UG/KG	630,000 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

Checked By: _____

Detection Limits shown are PQL

TABLE 5
VALIDATED PRODUCT SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-048
Sample ID		DEC-048
Matrix		LNAPL
Depth Interval (ft)		-
Date Sampled		06/24/11
Parameter	Units	
Volatile Organic Compounds		
1,3-Dichloropropene (trans)	UG/KG	630,000 U
1,4-Dichlorobenzene	UG/KG	630,000 U
1,4-Dioxane	UG/KG	R
2,2-Dichloropropane	UG/KG	630,000 U
2-Chlorotoluene	UG/KG	630,000 U
2-Hexanone	UG/KG	630,000 UJ
4-Chlorotoluene	UG/KG	630,000 U
4-Isopropyltoluene (p-Cymene)	UG/KG	630,000 U
4-Methyl-2-pentanone	UG/KG	630,000 U
Acetone	UG/KG	R
Benzene	UG/KG	630,000 U
Bromobenzene	UG/KG	630,000 U
Bromochloromethane	UG/KG	630,000 U
Bromodichloromethane	UG/KG	630,000 U
Bromoform	UG/KG	630,000 U
Bromomethane	UG/KG	630,000 U
Carbon disulfide	UG/KG	630,000 U
Carbon tetrachloride	UG/KG	630,000 U
Chlorobenzene	UG/KG	630,000 U
Chloroethane	UG/KG	630,000 U
Chloroform	UG/KG	630,000 U
Chloromethane	UG/KG	630,000 U
Cyclohexane	UG/KG	630,000 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

Checked By: _____

Detection Limits shown are PQL

TABLE 5
VALIDATED PRODUCT SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-048
Sample ID		DEC-048
Matrix		LNAPL
Depth Interval (ft)		-
Date Sampled		06/24/11
Parameter	Units	
Volatile Organic Compounds		
Dibromochloromethane	UG/KG	630,000 U
Dibromomethane	UG/KG	630,000 U
Dichlorodifluoromethane	UG/KG	630,000 U
Ethylbenzene	UG/KG	630,000 U
Hexachlorobutadiene	UG/KG	630,000 U
Iodomethane (Methyl iodide)	UG/KG	630,000 U
Isopropylbenzene (Cumene)	UG/KG	630,000 U
Methyl acetate	UG/KG	630,000 U
Methyl ethyl ketone (2-Butanone)	UG/KG	R
Methyl tert-butyl ether	UG/KG	630,000 U
Methylcyclohexane	UG/KG	630,000 U
Methylene chloride	UG/KG	630,000 U
Naphthalene	UG/KG	630,000 U
n-Butylbenzene	UG/KG	630,000 U
n-Propylbenzene	UG/KG	630,000 U
sec-Butylbenzene	UG/KG	630,000 U
Styrene	UG/KG	630,000 U
tert-Butylbenzene	UG/KG	630,000 U
Tetrachloroethene	UG/KG	630,000 U
Toluene	UG/KG	630,000 U
Trichloroethene	UG/KG	630,000 U
Trichlorofluoromethane	UG/KG	630,000 U
Vinyl acetate	UG/KG	630,000 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

Checked By _____

Detection Limits shown are PQL

TABLE 5
VALIDATED PRODUCT SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-048
Sample ID		DEC-048
Matrix		LNAPL
Depth Interval (ft)		-
Date Sampled		06/24/11
Parameter	Units	
Volatile Organic Compounds		
Vinyl chloride	UG/KG	630,000 U
Xylene (total)	UG/KG	630,000 U
Semivolatile Organic Compounds		
1,1-Biphenyl	UG/KG	740,000
2,2-oxybis(1-Chloropropane)	UG/KG	500,000 UJ
2,4,5-Trichlorophenol	UG/KG	1,000,000 U
2,4,6-Trichlorophenol	UG/KG	500,000 U
2,4-Dichlorophenol	UG/KG	500,000 U
2,4-Dimethylphenol	UG/KG	500,000 U
2,4-Dinitrophenol	UG/KG	1,000,000 UJ
2,4-Dinitrotoluene	UG/KG	500,000 U
2,6-Dinitrotoluene	UG/KG	500,000 U
2-Chloronaphthalene	UG/KG	500,000 U
2-Chlorophenol	UG/KG	500,000 U
2-Methylnaphthalene	UG/KG	3,500,000
2-Methylphenol (o-cresol)	UG/KG	500,000 U
2-Nitroaniline	UG/KG	1,000,000 U
2-Nitrophenol	UG/KG	500,000 U
3&4-Methylphenol	UG/KG	500,000 U
3,3-Dichlorobenzidine	UG/KG	500,000 U
3-Nitroaniline	UG/KG	1,000,000 U
4,6-Dinitro-2-methylphenol	UG/KG	1,000,000 U
4-Bromophenyl-phenylether	UG/KG	500,000 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

Checked By: _____

Detection Limits shown are PQL

TABLE 5
VALIDATED PRODUCT SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-048
Sample ID		DEC-048
Matrix		LNAPL
Depth Interval (ft)		-
Date Sampled		06/24/11
Parameter	Units	
Semivolatile Organic Compounds		
4-Chloro-3-methylphenol	UG/KG	500,000 U
4-Chloroaniline	UG/KG	500,000 U
4-Chlorophenyl-phenylether	UG/KG	500,000 U
4-Nitroaniline	UG/KG	1,000,000 U
4-Nitrophenol	UG/KG	1,000,000 U
Acenaphthene	UG/KG	200,000 J
Acenaphthylene	UG/KG	500,000 U
Acetophenone	UG/KG	500,000 U
Anthracene	UG/KG	500,000 U
Atrazine	UG/KG	500,000 UJ
Benzaldehyde	UG/KG	500,000 UJ
Benzo(a)anthracene	UG/KG	500,000 U
Benzo(a)pyrene	UG/KG	500,000 U
Benzo(b)fluoranthene	UG/KG	500,000 U
Benzo(g,h,i)perylene	UG/KG	500,000 U
Benzo(k)fluoranthene	UG/KG	500,000 U
bis(2-Chloroethoxy)methane	UG/KG	500,000 U
bis(2-Chloroethyl)ether	UG/KG	500,000 U
bis(2-Ethylhexyl)phthalate	UG/KG	210,000 J
Butylbenzylphthalate	UG/KG	500,000 UJ
Caprolactam	UG/KG	500,000 U
Carbazole	UG/KG	500,000 U
Chrysene	UG/KG	500,000 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

Checked By: _____

Detection Limits shown are PQL

TABLE 5
VALIDATED PRODUCT SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-048
Sample ID		DEC-048
Matrix		LNAPL
Depth Interval (ft)		-
Date Sampled		06/24/11
Parameter	Units	
Semivolatile Organic Compounds		
Dibenz(a,h)anthracene	UG/KG	500,000 U
Dibenzofuran	UG/KG	500,000 U
Diethylphthalate	UG/KG	500,000 U
Dimethylphthalate	UG/KG	500,000 U
Di-n-butylphthalate	UG/KG	500,000 U
Di-n-octylphthalate	UG/KG	500,000 UJ
Fluoranthene	UG/KG	500,000 U
Fluorene	UG/KG	490,000 J
Hexachlorobenzene	UG/KG	500,000 U
Hexachlorobutadiene	UG/KG	500,000 U
Hexachlorocyclopentadiene	UG/KG	500,000 U
Hexachloroethane	UG/KG	500,000 U
Indeno(1,2,3-cd)pyrene	UG/KG	500,000 U
Isophorone	UG/KG	500,000 U
Naphthalene	UG/KG	610,000
Nitrobenzene	UG/KG	500,000 U
N-Nitroso-di-n-propylamine	UG/KG	500,000 UJ
N-Nitrosodiphenylamine	UG/KG	500,000 U
Pentachlorophenol	UG/KG	1,000,000 U
Phenanthrene	UG/KG	1,200,000
Phenol	UG/KG	500,000 U
Pyrene	UG/KG	130,000 J

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

TABLE 5
VALIDATED PRODUCT SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		DEC-048
Sample ID		DEC-048
Matrix		LNAPL
Depth Interval (ft)		-
Date Sampled		06/24/11
Parameter	Units	
Miscellaneous Parameters		
Fuel Oils	MG/KG	950,000
Specific Gravity	g/ML	0.8608

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TABLE 6
VALIDATED AIR SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		AA-028	AA-029	AA-030	SG-018	SG-019
Sample ID		AA-061311	AA-061411	AA-061511	SG-18	SG-19
Matrix		Outdoor Air	Outdoor Air	Outdoor Air	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/13/11	06/14/11	06/15/11	06/15/11	06/13/11
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	8.7	1.5 U	2.2 U	33.9 U	3.8
1,1,2,2-Tetrachloroethane	UG/M3	1.1 U	0.96 U	1.4 U	21.5 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	2.5 U	2.2 U	3.2 U	49.3 U	2.4 U
1,1-Dichloroethane	UG/M3	1.3 U	1.1 U	1.6 U	25.3 U	1.2 U
1,1-Dichloroethene	UG/M3	1.2 U	1.1 U	1.6 U	24.9 U	1.2 U
1,2,4-Trichlorobenzene	UG/M3	1.5 U	1.4 UJ	2.0 UJ	30.5 UJ	1.5 UJ
1,2,4-Trimethylbenzene	UG/M3	1.5 U	35.6	2.0 U	31.3	102
1,2-Dibromoethane (Ethylene dibromide)	UG/M3	2.5 U	2.2 U	3.2 U	49.3 U	2.4 U
1,2-Dichlorobenzene	UG/M3	1.8 U	1.7 U	2.4 U	37.0 U	1.8 U
1,2-Dichloroethane	UG/M3	0.63 U	0.57 U	0.81 U	12.6 U	0.61 U
1,2-Dichloroethene (cis)	UG/M3	1.2 U	1.1 U	1.6 U	24.9 U	1.2 U
1,2-Dichloroethene (trans)	UG/M3	1.2 U	1.1 U	1.6 U	24.9 U	1.2 U
1,2-Dichloropropane	UG/M3	1.4 U	1.3 U	1.9 U	29.0 U	1.4 U
1,2-Dichlorotetrafluoroethane	UG/M3	2.2 U	1.9 U	2.8 U	43.1 U	2.1 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	1.5 U	8.8	2.0 U	30.8 U	24.2
1,3-Butadiene	UG/M3	0.69 U	0.62 U	0.89 U	13.9 U	0.67 U
1,3-Dichlorobenzene	UG/M3	1.8 U	1.7 U	2.4 U	37.0 U	7.9
1,3-Dichloropropene (cis)	UG/M3	1.4 U	1.3 U	1.8 U	28.3 U	1.4 U
1,3-Dichloropropene (trans)	UG/M3	1.4 U	1.3 U	1.8 U	28.3 U	1.4 U
1,4-Dichlorobenzene	UG/M3	1.8 U	1.7 U	2.4 U	37.0 U	3.5
1,4-Dioxane	UG/M3	0.56 U	0.51 U	0.72 U	11.3 U	0.54 U
2,2,4-Trimethylpentane	UG/M3	1.5 U	1.3 U	1.9 U	29.3 U	399 J
4-Methyl-2-pentanone	UG/M3	1.3 U	1.1 U	1.6 U	25.6 U	1.2 U

Flags assigned during chemistry validation are shown.

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Checked By _____

Detection Limits shown are PQL

TABLE 6
VALIDATED AIR SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		AA-028	AA-029	AA-030	SG-018	SG-019
Sample ID		AA-061311	AA-061411	AA-061511	SG-18	SG-19
Matrix		Outdoor Air	Outdoor Air	Outdoor Air	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/13/11	06/14/11	06/15/11	06/15/11	06/13/11
Parameter	Units					
Volatile Organic Compounds						
Benzene	UG/M3	0.50 U	0.45 U	0.64 U	10.0 U	85.8
Benzyl chloride	UG/M3	1.6 U	1.4 U	2.1 U	32.3 U	1.6 U
Bromodichloromethane	UG/M3	2.2 U	1.9 U	2.8 U	43.1 U	2.1 U
Bromoform	UG/M3	3.2 U	2.9 U	4.1 U	64.7 U	3.1 U
Bromomethane	UG/M3	1.2 U	1.1 U	1.6 U	24.3 U	1.2 U
Carbon tetrachloride	UG/M3	0.99 U	0.88 U	1.3 U	19.7 U	2.9
Chlorobenzene	UG/M3	1.4 U	1.3 U	1.9 U	29.0 U	1.4 U
Chloroethane	UG/M3	0.83 U	0.75 U	1.1 U	16.6 U	0.80 U
Chloroform	UG/M3	1.5 U	1.4 U	2.0 U	30.5 U	319
Chloromethane	UG/M3	0.65 U	0.58 U	0.83 U	12.9 U	0.62 U
Cyclohexane	UG/M3	1.0 U	0.94 U	1.3 U	20.9 U	535 J
Dibromochloromethane	UG/M3	2.6 U	2.3 U	3.3 U	52.4 U	2.5 U
Dichlorodifluoromethane	UG/M3	1.5 U	1.4 U	2.0 U	30.8 U	2.3
Ethanol	UG/M3	15.3	12.3	22.3	93.1	114 J
Ethylbenzene	UG/M3	1.4 U	1.2 U	1.6 J	27.1 U	62.7
Hexachlorobutadiene	UG/M3	3.4 U	3.0 U	4.3 UJ	67.8 UJ	3.3 U
Hexane	UG/M3	2.0	1.3	0.92 J	22.2 U	50.8
Methyl ethyl ketone (2-Butanone)	UG/M3	3.0	0.94	4.7	18.5 U	0.89 U
Methyl tert-butyl ether	UG/M3	1.1 U	1.0 U	1.4 U	22.5 U	1.1 U
Methylene chloride	UG/M3	6.8	2.0	5.8	21.9 U	1.1 U
Styrene	UG/M3	1.3 U	1.2 U	1.7 U	26.8 U	1.3 U
t-Butyl alcohol	UG/M3	1.4 U	1.3 U	1.8 U	28.5 U	1.4 U
Tetrachloroethene	UG/M3	18.2	0.95 U	1.4 U	2,660	1,200

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

Advanced Selection: AMK-TEMP AIR
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[LOGDATE] > #5/12/2011# AND [UNITS] = UG/M3 AND ([SACODE] = 'N' OR [SACODE] = 'FD')

TABLE 6
VALIDATED AIR SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		AA-028	AA-029	AA-030	SG-018	SG-019
Sample ID		AA-061311	AA-061411	AA-061511	SG-18	SG-19
Matrix		Outdoor Air	Outdoor Air	Outdoor Air	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/13/11	06/14/11	06/15/11	06/15/11	06/13/11
Parameter	Units					
Volatile Organic Compounds						
Toluene	UG/M3	6.8	7.1	20.4	23.7 U	63.5
Trichloroethene	UG/M3	0.85 U	0.76 U	1.1 U	29.8	0.81 U
Trichlorofluoromethane	UG/M3	1.7 U	1.5 U	2.2 U	33.9 U	1.6 U
Vinyl chloride	UG/M3	0.40 U	0.36 U	0.51 U	8.0 U	0.38 U
Xylene (total)	UG/M3	2.4 J	22.5	21.0	55.4	211

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TABLE 6
VALIDATED AIR SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-020	SG-021	SG-042	SG-043	SG-044
Sample ID		SG-20	SG-21	SG-42	SG-43	SG-44
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/13/11	06/13/11	06/14/11	06/15/11	06/14/11
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	3.1 U	2.0	16,900	33.9 U	28.0 J
1,1,2,2-Tetrachloroethane	UG/M3	2.0 U	1.0 U	2,640 U	21.5 U	20.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	4.6 U	2.3 U	6,060 U	49.3 U	45.8 U
1,1-Dichloroethane	UG/M3	2.3 U	1.2 U	3,110 U	25.3 U	23.5 U
1,1-Dichloroethene	UG/M3	2.3 U	1.2 U	3,070 U	24.9 U	23.2 U
1,2,4-Trichlorobenzene	UG/M3	2.8 UJ	1.4 UJ	3,750 U	30.5 UJ	28.3 U
1,2,4-Trimethylbenzene	UG/M3	122	15.9	3,790 U	30.8 U	28.6 U
1,2-Dibromoethane (Ethylene dibromide)	UG/M3	4.6 U	2.3 U	6,060 U	49.3 U	45.8 U
1,2-Dichlorobenzene	UG/M3	3.4 U	1.7 U	4,550 U	37.0 U	34.3 U
1,2-Dichloroethane	UG/M3	1.2 U	0.59 U	1,550 U	12.6 U	11.7 U
1,2-Dichloroethene (cis)	UG/M3	2.3 U	1.2 U	3,070 U	557	23.2 U
1,2-Dichloroethene (trans)	UG/M3	2.3 U	1.2 U	3,070 U	24.9 U	23.2 U
1,2-Dichloropropane	UG/M3	2.7 U	1.3 U	3,560 U	29.0 U	26.9 U
1,2-Dichlorotetrafluoroethane	UG/M3	4.0 U	2.0 U	5,300 U	43.1 U	40.0 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	29.1	1.4 U	3,790 U	30.8 U	28.6 U
1,3-Butadiene	UG/M3	1.3 U	0.64 U	1,700 U	13.9 U	12.9 U
1,3-Dichlorobenzene	UG/M3	3.4 U	4.4	4,550 U	37.0 U	34.3 U
1,3-Dichloropropene (cis)	UG/M3	2.6 U	1.3 U	3,490 U	28.3 U	26.3 U
1,3-Dichloropropene (trans)	UG/M3	2.6 U	1.3 U	3,490 U	28.3 U	26.3 U
1,4-Dichlorobenzene	UG/M3	2.8 J	1.5 J	4,550 U	37.0 U	34.3 U
1,4-Dioxane	UG/M3	1.0 U	0.52 U	1,390 U	11.3 U	10.5 U
2,2,4-Trimethylpentane	UG/M3	21.9	400 J	3,600 U	29.3 U	27.2 U
4-Methyl-2-pentanone	UG/M3	2.4 U	1.2 U	3,140 U	25.6 U	23.7 U

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TABLE 6
VALIDATED AIR SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-020	SG-021	SG-042	SG-043	SG-044
Sample ID		SG-20	SG-21	SG-42	SG-43	SG-44
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/13/11	06/13/11	06/14/11	06/15/11	06/14/11
Parameter	Units					
Volatile Organic Compounds						
Benzene	UG/M3	2.1	241	1,230 U	42.4	9.3 U
Benzyl chloride	UG/M3	3.0 U	1.5 U	3,980 U	32.3 U	30.0 U
Bromodichloromethane	UG/M3	4.0 U	2.0 U	5,300 U	43.1 U	40.0 U
Bromoform	UG/M3	6.0 U	3.0 U	7,960 U	64.7 U	51.9 J
Bromomethane	UG/M3	2.3 U	1.1 U	2,990 U	24.3 U	22.6 U
Carbon tetrachloride	UG/M3	1.8 U	0.92 U	2,420 U	19.7 U	18.3 U
Chlorobenzene	UG/M3	2.7 U	1.3 U	3,560 U	29.0 U	26.9 U
Chloroethane	UG/M3	1.5 U	0.77 U	2,050 U	16.6 U	15.4 U
Chloroform	UG/M3	54.2	25.6	3,750 U	30.5 U	28.3 U
Chloromethane	UG/M3	1.2 U	0.60 U	1,590 U	12.9 U	12.0 U
Cyclohexane	UG/M3	8.6	2,090	2,580 U	16,300	19.4 U
Dibromochloromethane	UG/M3	4.9 U	2.4 U	6,440 U	52.4 U	48.6 U
Dichlorodifluoromethane	UG/M3	2.9 U	1.2 J	3,790 U	30.8 U	28.6 U
Ethanol	UG/M3	183 J	89.4	7,200 U	116	62.0
Ethylbenzene	UG/M3	64.9	38.7	3,330 U	27.1 U	25.2 U
Hexachlorobutadiene	UG/M3	6.3 U	3.1 U	8,340 U	67.8 UJ	62.9 U
Hexane	UG/M3	191	1,500	2,730 U	8,000	20.6 U
Methyl ethyl ketone (2-Butanone)	UG/M3	1.7 U	9.9	2,270 U	18.5 U	17.2 U
Methyl tert-butyl ether	UG/M3	2.1 U	1.0 U	2,770 U	22.5 U	20.9 U
Methylene chloride	UG/M3	282	883	2,690 U	21.9 U	20.3 U
Styrene	UG/M3	2.5 U	2.4	3,300 U	26.8 U	13.0 J
t-Butyl alcohol	UG/M3	2.6 U	1.3 U	3,500 U	28.5 U	26.4 U
Tetrachloroethene	UG/M3	83.1	72.4	803,000	48,500	1,660

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

Checked By: _____

Detection Limits shown are PQL

TABLE 6
VALIDATED AIR SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-020	SG-021	SG-042	SG-043	SG-044
Sample ID		SG-20	SG-21	SG-42	SG-43	SG-44
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/13/11	06/13/11	06/14/11	06/15/11	06/14/11
Parameter	Units					
Volatile Organic Compounds						
Toluene	UG/M3	159	82.6	2,920 U	17.0 J	22.0 U
Trichloroethene	UG/M3	9.2	0.79 U	2,850	1,170	15.7 U
Trichlorofluoromethane	UG/M3	3.1 U	1.6 U	4,170 U	118	31.5 U
Vinyl chloride	UG/M3	0.74 U	0.37 U	985 U	687	7.4 U
Xylene (total)	UG/M3	317	80.5	6,670 U	54.2 U	50.3 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

Checked By _____

Detection Limits shown are PQL

TABLE 6
VALIDATED AIR SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-045	SG-046	SG-046	SG-047	SG-048
Sample ID		SG-45	DUP2-061411	SG-46	SG-47	SG-48
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/14/11	06/14/11	06/14/11	06/15/11	06/14/11
Parameter	Units		Field Duplicate (1-1)			
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	1,120 U	53.7	109	7.6 U	56.5 J
1,1,2,2-Tetrachloroethane	UG/M3	710 U	18.7 U	19.3 U	4.8 U	35.9 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	1,630 U	42.9 U	44.2 U	11.0 U	82.2 U
1,1-Dichloroethane	UG/M3	834 U	12.8 J	42.0	5.6 U	42.1 U
1,1-Dichloroethene	UG/M3	824 U	21.7 U	22.4 U	5.6 U	41.6 U
1,2,4-Trichlorobenzene	UG/M3	1,010 U	26.5 UJ	27.3 UJ	6.8 UJ	50.9 UJ
1,2,4-Trimethylbenzene	UG/M3	1,020 U	26.8 U	27.6 U	9.7	51.3 U
1,2-Dibromoethane (Ethylene dibromide)	UG/M3	1,630 U	42.9 U	44.2 U	11.0 U	82.2 U
1,2-Dichlorobenzene	UG/M3	1,220 U	32.2 U	33.1 U	8.3 U	61.7 U
1,2-Dichloroethane	UG/M3	417 U	11.0 U	11.3 U	2.8 U	21.1 U
1,2-Dichloroethene (cis)	UG/M3	824 U	21.7 U	17.7 J	5.6 U	41.6 U
1,2-Dichloroethene (trans)	UG/M3	824 U	21.7 U	22.4 U	5.6 U	41.6 U
1,2-Dichloropropane	UG/M3	957 U	25.2 U	25.9 U	6.5 U	48.3 U
1,2-Dichlorotetrafluoroethane	UG/M3	1,420 U	37.5 U	38.6 U	9.6 U	72.0 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	1,020 U	26.8 U	27.6 U	6.9 U	51.3 U
1,3-Butadiene	UG/M3	458 U	12.1 U	12.4 U	3.1 U	23.1 U
1,3-Dichlorobenzene	UG/M3	1,220 U	32.2 U	33.1 U	8.3 U	61.7 U
1,3-Dichloropropene (cis)	UG/M3	936 U	24.7 U	25.4 U	6.3 U	47.3 U
1,3-Dichloropropene (trans)	UG/M3	936 U	24.7 U	25.4 U	6.3 U	47.3 U
1,4-Dichlorobenzene	UG/M3	1,220 U	32.2 U	33.1 U	8.3 U	61.7 U
1,4-Dioxane	UG/M3	372 U	9.8 U	10.1 U	2.5 U	18.8 U
2,2,4-Trimethylpentane	UG/M3	967 U	25.5 U	26.2 U	6.5 U	48.8 U
4-Methyl-2-pentanone	UG/M3	845 U	22.2 U	22.9 U	5.7 U	42.7 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

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Detection Limits shown are PQL

TABLE 6
VALIDATED AIR SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-045	SG-046	SG-046	SG-047	SG-048
Sample ID		SG-45	DUP2-061411	SG-46	SG-47	SG-48
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/14/11	06/14/11	06/14/11	06/15/11	06/14/11
Parameter	Units		Field Duplicate (1-1)			
Volatile Organic Compounds						
Benzene	UG/M3	331 U	8.7 U	9.0 U	2.2 U	16.7 U
Benzyl chloride	UG/M3	1,070 U	28.1 U	29.0 U	7.2 U	54.0 U
Bromodichloromethane	UG/M3	1,420 U	37.5 U	38.6 U	9.6 U	72.0 U
Bromoform	UG/M3	1,830 J	54.5 J	58.0 U	14.5 U	108 U
Bromomethane	UG/M3	804 U	21.2 U	21.8 U	5.4 U	40.6 U
Carbon tetrachloride	UG/M3	651 U	17.2 U	17.7 U	6.1	32.9 U
Chlorobenzene	UG/M3	957 U	25.2 U	25.9 U	6.5 U	48.3 U
Chloroethane	UG/M3	550 U	14.5 U	14.9 U	3.7 U	27.8 U
Chloroform	UG/M3	1,010 U	26.5 U	27.3 U	19.3	50.9 U
Chloromethane	UG/M3	427 U	11.3 U	11.6 U	2.9 U	21.6 U
Cyclohexane	UG/M3	692 U	18.2 U	18.8 U	54.5	35.0 U
Dibromochloromethane	UG/M3	1,730 U	25.4 J	46.9 U	11.7 U	87.4 U
Dichlorodifluoromethane	UG/M3	1,020 U	26.8 U	27.6 U	6.9 U	51.4 U
Ethanol	UG/M3	1,930 U	58.7	52.4 U	63.7	105
Ethylbenzene	UG/M3	895 U	23.6 U	24.3 U	6.1 U	45.2 U
Hexachlorobutadiene	UG/M3	2,240 U	59.0 U	60.7 U	15.2 UJ	113 U
Hexane	UG/M3	733 U	30.0	19.9 U	90.6	37.0 U
Methyl ethyl ketone (2-Butanone)	UG/M3	611 U	16.1 U	16.6 U	23.2	30.8 U
Methyl tert-butyl ether	UG/M3	743 U	19.6 U	20.1 U	5.0 U	37.5 U
Methylene chloride	UG/M3	722 U	199	19.6 U	304	36.5 U
Styrene	UG/M3	885 U	16.8 J	14.2 J	6.0 U	44.7 U
t-Butyl alcohol	UG/M3	940 U	24.8 U	25.5 U	6.4 U	47.5 U
Tetrachloroethene	UG/M3	22,400	805	2,040	661	3,340

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

Checked By: _____

Detection Limits shown are PQL

TABLE 6
VALIDATED AIR SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-045	SG-046	SG-046	SG-047	SG-048
Sample ID		SG-45	DUP2-061411	SG-46	SG-47	SG-48
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/14/11	06/14/11	06/14/11	06/15/11	06/14/11
Parameter	Units		Field Duplicate (1-1)			
Volatile Organic Compounds						
Toluene	UG/M3	784 U	33.4	17.4 J	150	39.6 U
Trichloroethene	UG/M3	560 U	158	376	109	28.3 U
Trichlorofluoromethane	UG/M3	1,120 U	29.5 U	30.4 U	7.6 U	56.5 U
Vinyl chloride	UG/M3	265 U	7.0 U	7.2 U	1.8 U	13.4 U
Xylene (total)	UG/M3	1,790 U	47.2 U	48.6 U	35.3	90.5 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

Checked By _____

Detection Limits shown are PQL

TABLE 6
VALIDATED AIR SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-049	SG-055	SG-056	SG-057	SG-058
Sample ID		SG-49	SG-55	SG-56	SG-57	DUP-061511
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/14/11	06/13/11	06/15/11	06/15/11	06/15/11
Parameter	Units					Field Duplicate (1-1)
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	344	4.0	53.2 U	193 U	3,890 U
1,1,2,2-Tetrachloroethane	UG/M3	20.7 U	1.0 U	33.8 U	122 U	2,470 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	1,520	2.3 U	77.4 U	281 U	5,650 U
1,1-Dichloroethane	UG/M3	24.3 U	1.2 U	39.7 U	144 U	2,900 U
1,1-Dichloroethene	UG/M3	189	1.2 U	39.2 U	142 U	2,860 U
1,2,4-Trichlorobenzene	UG/M3	29.3 UJ	1.4 UJ	47.9 UJ	174 U	3,500 U
1,2,4-Trimethylbenzene	UG/M3	17.1 J	57.3	48.4 U	175 U	3,530 U
1,2-Dibromoethane (Ethylene dibromide)	UG/M3	47.4 U	2.3 U	77.4 U	281 U	5,650 U
1,2-Dichlorobenzene	UG/M3	35.5 U	1.7 U	58.1 U	210 U	4,240 U
1,2-Dichloroethane	UG/M3	12.1 U	0.59 U	19.8 U	71.9 U	1,450 U
1,2-Dichloroethene (cis)	UG/M3	437,000	1.2 U	1,980	142 U	2,860 U
1,2-Dichloroethene (trans)	UG/M3	1,420	1.2 U	20.9 J	142 U	2,860 U
1,2-Dichloropropane	UG/M3	27.8 U	1.3 U	45.5 U	165 U	3,320 U
1,2-Dichlorotetrafluoroethane	UG/M3	41.4 U	2.0 U	67.8 U	246 U	4,950 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	29.6 U	16.2	48.4 U	175 U	3,530 U
1,3-Butadiene	UG/M3	13.3 U	0.64 U	21.8 U	78.9 U	1,590 U
1,3-Dichlorobenzene	UG/M3	35.5 U	1.7 U	58.1 U	210 U	4,240 U
1,3-Dichloropropene (cis)	UG/M3	27.2 U	1.3 U	44.5 U	161 U	3,250 U
1,3-Dichloropropene (trans)	UG/M3	27.2 U	1.3 U	44.5 U	161 U	3,250 U
1,4-Dichlorobenzene	UG/M3	35.5 U	3.5	58.1 U	210 U	4,240 U
1,4-Dioxane	UG/M3	10.8 U	0.52 U	17.7 U	64.2 U	1,290 U
2,2,4-Trimethylpentane	UG/M3	28.1 U	45.8	46.0 U	167 U	3,360 U
4-Methyl-2-pentanone	UG/M3	24.6 U	24.9	40.2 U	146 U	2,930 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

Checked By: _____

Detection Limits shown are PQL

Advanced Selection: AMK-TEMP AIR
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 [LOGDATE] > #5/12/11# AND [UNITS] = 'UG/M3' AND ([SACODE] = 'N' OR [SACODE] = 'FD')

TABLE 6
VALIDATED AIR SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-049	SG-055	SG-056	SG-057	SG-058
Sample ID		SG-49	SG-55	SG-56	SG-57	DUP-061511
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/14/11	06/13/11	06/15/11	06/15/11	06/15/11
Parameter	Units					Field Duplicate (1-1)
Volatile Organic Compounds						
Benzene	UG/M3	48.0	51.0	15.7 U	57.0 U	1,150 U
Benzyl chloride	UG/M3	31.1 U	1.5 U	50.8 U	184 U	3,710 U
Bromodichloromethane	UG/M3	41.4 U	2.0 U	67.8 U	246 U	4,950 U
Bromoform	UG/M3	62.2 U	3.0 U	102 U	368 U	6,410 J
Bromomethane	UG/M3	23.4 U	1.1 U	38.2 U	139 U	2,790 U
Carbon tetrachloride	UG/M3	2,430	0.92 U	31.0 U	112 U	2,260 U
Chlorobenzene	UG/M3	27.8 U	1.3 U	45.5 U	165 U	3,320 U
Chloroethane	UG/M3	16.0 U	0.77 U	26.1 U	94.7 U	1,910 U
Chloroform	UG/M3	793	1.4 U	47.9 U	174 U	3,500 U
Chloromethane	UG/M3	12.4 U	0.60 U	20.3 U	73.7 U	1,480 U
Cyclohexane	UG/M3	20.1 U	53.9	32.9 U	119 U	2,400 U
Dibromochloromethane	UG/M3	50.3 U	2.4 U	82.3 U	298 U	6,010 U
Dichlorodifluoromethane	UG/M3	29.6 U	1.4 U	48.4 U	175 U	3,530 U
Ethanol	UG/M3	94.3	476	130	333 U	6,710 U
Ethylbenzene	UG/M3	26.0 U	89.3	42.6 U	154 U	3,110 U
Hexachlorobutadiene	UG/M3	65.1 U	3.1 U	106 UJ	386 U	7,770 U
Hexane	UG/M3	21.3 U	16.6	34.8 U	126 U	2,540 U
Methyl ethyl ketone (2-Butanone)	UG/M3	17.8 U	20.4	65.5	105 U	2,120 U
Methyl tert-butyl ether	UG/M3	21.6 U	1.0 U	35.3 U	128 U	2,580 U
Methylene chloride	UG/M3	21.0 U	8.5	66.0	125 U	2,510 U
Styrene	UG/M3	25.8 U	3.5	42.1 U	153 U	3,070 U
t-Butyl alcohol	UG/M3	27.4 U	1.3 U	44.7 U	162 U	3,260 U
Tetrachloroethene	UG/M3	13,100,000	584	88,900	10,800	154,000

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

Checked By: _____

Detection Limits shown are PQL

Advanced Selection: AMK-TEMP AIR
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[LOGDATE] > 9/5/2011# AND [UNITS] = 'UG/M3' AND ([SACODE] = 'N' OR [SACODE] = 'FD')

TABLE 6
VALIDATED AIR SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-049	SG-055	SG-056	SG-057	SG-058
Sample ID		SG-49	SG-55	SG-56	SG-57	DUP-061511
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/14/11	06/13/11	06/15/11	06/15/11	06/15/11
Parameter	Units					Field Duplicate (1-1)
Volatile Organic Compounds						
Toluene	UG/M3	11.7 J	453	37.3 U	78.1 J	2,720 U
Trichloroethene	UG/M3	230,000	105	3,090	96.4 U	1,940 U
Trichlorofluoromethane	UG/M3	32.6 U	1.6 U	53.2 U	5,270	3,890 U
Vinyl chloride	UG/M3	1,450	0.37 U	12.6 U	45.6 U	919 U
Xylene (total)	UG/M3	59.6	339	85.2 U	309 U	6,220 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

Checked By: _____

Detection Limits shown are PQL

TABLE 6
VALIDATED AIR SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-058	SG-059	SG-060	SG-060	SG-061
Sample ID		SG-58	SG-59	DUP-061411	SG-60	SG-61
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/15/11	06/15/11	06/14/11	06/14/11	06/15/11
Parameter	Units			Field Duplicate (1-1)		
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	3,890 U	31.5 U	188	15,000	35.0 U
1,1,2,2-Tetrachloroethane	UG/M3	2,470 U	20.0 U	19.3 U	1,230 U	22.2 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	5,650 U	45.8 U	44.2 U	2,830 U	50.9 U
1,1-Dichloroethane	UG/M3	2,900 U	23.5 U	22.6 U	1,450 U	26.1 U
1,1-Dichloroethene	UG/M3	2,860 U	23.2 U	22.4 U	1,430 U	25.8 U
1,2,4-Trichlorobenzene	UG/M3	3,500 U	28.3 UJ	27.3 UJ	1,750 UJ	31.5 UJ
1,2,4-Trimethylbenzene	UG/M3	3,530 U	28.6 U	19.2 J	1,760 U	22.0 J
1,2-Dibromoethane (Ethylene dibromide)	UG/M3	5,650 U	45.8 U	44.2 U	2,830 U	50.9 U
1,2-Dichlorobenzene	UG/M3	4,240 U	34.3 U	33.1 U	2,120 U	38.2 U
1,2-Dichloroethane	UG/M3	1,450 U	11.7 U	11.3 U	724 U	13.0 U
1,2-Dichloroethene (cis)	UG/M3	2,860 U	23.2 U	67.8	6,560	25.8 U
1,2-Dichloroethene (trans)	UG/M3	2,860 U	23.2 U	22.4 U	1,430 U	25.8 U
1,2-Dichloropropane	UG/M3	3,320 U	26.9 U	25.9 U	1,660 U	29.9 U
1,2-Dichlorotetrafluoroethane	UG/M3	4,950 U	40.0 U	38.6 U	2,470 U	44.5 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	3,530 U	28.6 U	27.6 U	1,760 U	31.8 U
1,3-Butadiene	UG/M3	1,590 U	12.9 U	12.4 U	795 U	14.3 U
1,3-Dichlorobenzene	UG/M3	4,240 U	34.3 U	33.1 U	2,120 U	38.2 U
1,3-Dichloropropene (cis)	UG/M3	3,250 U	26.3 U	25.4 U	1,630 U	29.3 U
1,3-Dichloropropene (trans)	UG/M3	3,250 U	26.3 U	25.4 U	1,630 U	29.3 U
1,4-Dichlorobenzene	UG/M3	4,240 U	34.3 U	33.1 U	2,120 U	38.2 U
1,4-Dioxane	UG/M3	1,290 U	10.5 U	10.1 U	647 U	11.6 U
2,2,4-Trimethylpentane	UG/M3	3,360 U	27.2 U	26.2 U	1,680 U	30.2 U
4-Methyl-2-pentanone	UG/M3	2,930 U	23.7 U	22.9 U	1,470 U	26.4 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

Checked By: _____

Detection Limits shown are PQL

Advanced Selection: AMK-TEMP AIR
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[LOGDATE] > #5/12/11# AND [UNITS] = 'UG/M3' AND ([SACODE] = 'N' OR [SACODE] = 'FD')

TABLE 6
VALIDATED AIR SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-058	SG-059	SG-060	SG-060	SG-061
Sample ID		SG-58	SG-59	DUP-061411	SG-60	SG-61
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/15/11	06/15/11	06/14/11	06/14/11	06/15/11
Parameter	Units			Field Duplicate (1-1)		
Volatile Organic Compounds						
Benzene	UG/M3	1,150 U	9.3 U	9.0 U	574 U	10.3 U
Benzyl chloride	UG/M3	3,710 U	30.0 U	29.0 U	1,850 U	33.4 U
Bromodichloromethane	UG/M3	4,950 U	40.0 U	38.6 U	2,470 U	44.5 U
Bromoform	UG/M3	7,420 U	60.1 U	58.0 U	3,710 U	66.8 U
Bromomethane	UG/M3	2,790 U	22.6 U	21.8 U	1,400 U	25.1 U
Carbon tetrachloride	UG/M3	2,260 U	18.3 U	17.7 U	793 J	20.4 U
Chlorobenzene	UG/M3	3,320 U	26.9 U	25.9 U	1,660 U	29.9 U
Chloroethane	UG/M3	1,910 U	15.4 U	14.9 U	954 U	17.2 U
Chloroform	UG/M3	3,500 U	28.3 U	170	14,200	31.5 U
Chloromethane	UG/M3	1,480 U	12.0 U	11.6 U	742 U	13.4 U
Cyclohexane	UG/M3	2,400 U	19.4 U	18.8 U	1,200 U	63.6
Dibromochloromethane	UG/M3	6,010 U	48.6 U	46.9 U	3,000 U	54.1 U
Dichlorodifluoromethane	UG/M3	3,530 U	28.6 U	27.6 U	1,770 U	31.8 U
Ethanol	UG/M3	6,710 U	31.3 J	61.4	1,850 J	93.7
Ethylbenzene	UG/M3	3,110 U	25.2 U	24.3 U	1,550 U	28.0 U
Hexachlorobutadiene	UG/M3	7,770 U	62.9 UJ	60.7 U	3,890 U	70.0 UJ
Hexane	UG/M3	2,540 U	20.6 U	19.9 U	3,900	22.9 U
Methyl ethyl ketone (2-Butanone)	UG/M3	2,120 U	17.2 U	16.6 U	1,060 U	19.1 U
Methyl tert-butyl ether	UG/M3	2,580 U	20.9 U	20.1 U	1,290 U	23.2 U
Methylene chloride	UG/M3	2,510 U	45.7	19.6 U	3,040	22.6 U
Styrene	UG/M3	3,070 U	24.9 U	24.0 U	1,540 U	27.7 U
t-Butyl alcohol	UG/M3	3,260 U	35.5	25.5 U	1,630 U	29.4 U
Tetrachloroethene	UG/M3	176,000	2,580	1,100,000	48,200,000	79,800

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

Checked By: _____

Detection Limits shown are PQL

Advanced Selection: AMK-TEMP AIR
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TABLE 6
VALIDATED AIR SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-058	SG-059	SG-060	SG-060	SG-061
Sample ID		SG-58	SG-59	DUP-061411	SG-60	SG-61
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/15/11	06/15/11	06/14/11	06/14/11	06/15/11
Parameter	Units			Field Duplicate (1-1)		
Volatile Organic Compounds						
Toluene	UG/M3	2,720 U	22.0 U	21.3 U	1,360 U	16.3 J
Trichloroethene	UG/M3	1,940 U	15.7 U	2,640	220,000	94.7
Trichlorofluoromethane	UG/M3	3,890 U	31.5 U	30.4 U	1,940 U	35.0 U
Vinyl chloride	UG/M3	919 U	7.4 U	7.2 U	459 U	8.3 U
Xylene (total)	UG/M3	6,220 U	40.4 J	48.6 U	3,110 U	65.4

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

Checked By _____

Detection Limits shown are PQL

TABLE 6
VALIDATED AIR SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-062	SG-063	SG-063	SG-078	SG-079
Sample ID		SG-62	DUP2-061511	SG-63	SG-78	SG-79
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/14/11	06/15/11	06/15/11	06/13/11	06/13/11
Parameter	Units		Field Duplicate (1-1)			
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	8.6	30.4 U	3.0 U	1.6 U	29.7
1,1,2,2-Tetrachloroethane	UG/M3	1.0 U	19.3 U	1.9 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	2.3 U	44.2 U	4.4 U	2.3 U	2.4 U
1,1-Dichloroethane	UG/M3	1.2 U	29.8	38.9	1.2 U	1.2 U
1,1-Dichloroethene	UG/M3	1.2 U	22.4 U	2.2 U	1.2 U	1.2 U
1,2,4-Trichlorobenzene	UG/M3	1.4 UJ	27.3 UJ	2.7 UJ	1.4 UJ	1.5 UJ
1,2,4-Trimethylbenzene	UG/M3	44.7	27.6 U	4.6	53.7	180
1,2-Dibromoethane (Ethylene dibromide)	UG/M3	2.3 U	44.2 U	4.4 U	2.3 U	2.4 U
1,2-Dichlorobenzene	UG/M3	1.7 U	33.1 U	5.0	1.7 U	1.8 U
1,2-Dichloroethane	UG/M3	0.59 U	11.3 U	1.1 U	0.59 U	0.61 U
1,2-Dichloroethene (cis)	UG/M3	1.2 U	134	108	1.2 U	1.2 U
1,2-Dichloroethene (trans)	UG/M3	1.2 U	22.4 U	15.3	1.2 U	1.2 U
1,2-Dichloropropane	UG/M3	1.3 U	25.9 U	2.6 U	1.3 U	1.4 U
1,2-Dichlorotetrafluoroethane	UG/M3	2.0 U	38.6 U	3.9 U	2.0 U	2.1 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	10.2	27.6 U	2.8 U	14.9	47.4
1,3-Butadiene	UG/M3	0.64 U	12.4 U	1.2 U	0.64 U	0.67 U
1,3-Dichlorobenzene	UG/M3	1.7 U	33.1 U	3.3 U	1.7 U	4.0
1,3-Dichloropropene (cis)	UG/M3	1.3 U	25.4 U	2.5 U	1.3 U	1.4 U
1,3-Dichloropropene (trans)	UG/M3	1.3 U	25.4 U	2.5 U	1.3 U	1.4 U
1,4-Dichlorobenzene	UG/M3	1.7 U	33.1 U	3.3 U	6.9	7.3
1,4-Dioxane	UG/M3	0.52 U	10.1 U	1.0 U	0.52 U	0.54 U
2,2,4-Trimethylpentane	UG/M3	0.91 J	26.2 U	119	69.0	52.3
4-Methyl-2-pentanone	UG/M3	1.2 U	22.9 U	2.3 U	1.2 U	1.2 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

Checked By: _____

Detection Limits shown are PQL

Advanced Selection: AMK-TEMP AIR
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[LOGDATE] > #5/1/2011# AND [UNITS] = 'UGMS' AND ([SACODE] = 'N' OR [SACODE] = 'PD')

TABLE 6
VALIDATED AIR SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-062	SG-063	SG-063	SG-078	SG-079
Sample ID		SG-62	DUP2-061511	SG-63	SG-78	SG-79
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/14/11	06/15/11	06/15/11	06/13/11	06/13/11
Parameter	Units		Field Duplicate (1-1)			
Volatile Organic Compounds						
Benzene	UG/M3	2.8	41.2	49.1	110	93.2
Benzyl chloride	UG/M3	1.5 U	29.0 U	2.9 U	1.5 U	1.6 U
Bromodichloromethane	UG/M3	2.0 U	38.6 U	3.9 U	2.0 U	2.1 U
Bromoform	UG/M3	3.0 U	58.0 U	5.8 U	3.0 U	3.1 U
Bromomethane	UG/M3	1.1 U	21.8 U	2.2 U	1.1 U	1.2 U
Carbon tetrachloride	UG/M3	0.92 U	17.7 U	1.8 U	0.92 U	1.2
Chlorobenzene	UG/M3	1.3 U	25.9 U	2.6 U	1.3 U	1.4 U
Chloroethane	UG/M3	0.77 U	43.2	11.4	0.77 U	0.80 U
Chloroform	UG/M3	1.4 U	27.3 U	2.7 U	1.4 U	1.5 U
Chloromethane	UG/M3	0.60 U	11.6 U	1.2 U	0.60 U	0.62 U
Cyclohexane	UG/M3	0.97 U	3,300	3,600	43.2	430 J
Dibromochloromethane	UG/M3	2.4 U	46.9 U	4.7 U	2.4 U	2.5 U
Dichlorodifluoromethane	UG/M3	1.4 U	27.6 U	2.8 U	25.3	1.5 U
Ethanol	UG/M3	66.7	52.4 U	48.0	266 J	292
Ethylbenzene	UG/M3	38.9	24.3 U	2.4 U	110	127
Hexachlorobutadiene	UG/M3	3.1 U	60.7 UJ	6.1 UJ	3.1 U	3.3 U
Hexane	UG/M3	1.7	19.9 U	91.6	56.0	24.5
Methyl ethyl ketone (2-Butanone)	UG/M3	10.8	16.6 U	53.5	23.1	5.2
Methyl tert-butyl ether	UG/M3	1.0 U	20.1 U	2.0 U	1.0 U	1.1 U
Methylene chloride	UG/M3	1.0 U	19.6 U	2.0 U	1.0 U	1.1 U
Styrene	UG/M3	1.2 U	24.0 U	2.4 U	4.8	1.3 U
t-Butyl alcohol	UG/M3	1.3 U	25.5 U	2.6 U	1.3 U	3.4
Tetrachloroethene	UG/M3	35.0	258	208	48.4	21,000

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

Checked By: _____

Detection Limits shown are PQL

Advanced Selection: AMK-TEMP AIR
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[LOGDATE] > #5/1/2011# AND [UNITS] = UG/M3 AND ([SACODE] = 'V' OR [SACODE] = 'FD')

TABLE 6
VALIDATED AIR SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-062	SG-063	SG-063	SG-078	SG-079
Sample ID		SG-62	DUP2-061511	SG-63	SG-78	SG-79
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/14/11	06/15/11	06/15/11	06/13/11	06/13/11
Parameter	Units		Field Duplicate (1-1)			
Volatile Organic Compounds						
Toluene	UG/M3	121	21.3 U	6.4	1,090	467
Trichloroethene	UG/M3	71.6	56.2	62.2	0.79 U	0.81 U
Trichlorofluoromethane	UG/M3	2.8	30.4 U	3.0 U	1.6 U	1.6 U
Vinyl chloride	UG/M3	0.37 U	666	48.7	0.37 U	0.38 U
Xylene (total)	UG/M3	173	48.6 U	4.5 J	352	474

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

Checked By: _____

Detection Limits shown are PQL

Advanced Selection: AMK-TEMP AIR
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TABLE 6
VALIDATED AIR SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-080	SG-081	SG-082	SG-084	SG-085
Sample ID		SG-80	SG-81	SG-82	SG-84	SG-85
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/14/11	06/14/11	06/14/11	06/15/11	06/15/11
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	32.6 U	27.8 J	32.6 U	4,030 U	97.2 U
1,1,2,2-Tetrachloroethane	UG/M3	20.7 U	19.3 U	20.7 U	2,560 U	61.6 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	47.4 U	44.2 U	47.4 U	5,860 U	141 U
1,1-Dichloroethane	UG/M3	24.3 U	22.6 U	24.3 U	3,000 U	72.4 U
1,1-Dichloroethene	UG/M3	24.0 U	22.4 U	24.0 U	2,970 U	71.5 U
1,2,4-Trichlorobenzene	UG/M3	29.3 UJ	27.3 UJ	29.3 UJ	3,620 U	87.4 UJ
1,2,4-Trimethylbenzene	UG/M3	33.4	20.2 J	17.1 J	3,660 U	59.9 J
1,2-Dibromoethane (Ethylene dibromide)	UG/M3	47.4 U	44.2 U	47.4 U	5,860 U	141 U
1,2-Dichlorobenzene	UG/M3	35.5 U	33.1 U	35.5 U	4,390 U	106 U
1,2-Dichloroethane	UG/M3	12.1 U	11.3 U	12.1 U	1,500 U	36.2 U
1,2-Dichloroethene (cis)	UG/M3	24.0 U	22.4 U	24.0 U	2,970 U	71.5 U
1,2-Dichloroethene (trans)	UG/M3	24.0 U	22.4 U	24.0 U	2,970 U	71.5 U
1,2-Dichloropropane	UG/M3	27.8 U	25.9 U	27.8 U	3,440 U	83.0 U
1,2-Dichlorotetrafluoroethane	UG/M3	41.4 U	38.6 U	41.4 U	5,130 U	124 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	29.6 U	27.6 U	29.6 U	3,660 U	88.2 U
1,3-Butadiene	UG/M3	13.3 U	12.4 U	13.3 U	1,650 U	39.7 U
1,3-Dichlorobenzene	UG/M3	35.5 U	33.1 U	35.5 U	4,390 U	106 U
1,3-Dichloropropene (cis)	UG/M3	27.2 U	25.4 U	27.2 U	3,370 U	81.3 U
1,3-Dichloropropene (trans)	UG/M3	27.2 U	25.4 U	27.2 U	3,370 U	81.3 U
1,4-Dichlorobenzene	UG/M3	35.5 U	33.1 U	35.5 U	4,390 U	106 U
1,4-Dioxane	UG/M3	10.8 U	10.1 U	10.8 U	1,340 U	32.3 U
2,2,4-Trimethylpentane	UG/M3	28.1 U	26.2 U	28.1 U	3,480 U	83.9 U
4-Methyl-2-pentanone	UG/M3	24.6 U	22.9 U	24.6 U	3,040 U	73.3 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

Checked By: _____

Detection Limits shown are PQL

Advanced Selection: AMK-TEMP AIR
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 [LOGDATE] > #6/12/2011# AND [UNITS] = UG/M3 AND ([SACODE] = 'N' OR [SACODE] = 'FD')

TABLE 6
VALIDATED AIR SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-080	SG-081	SG-082	SG-084	SG-085
Sample ID		SG-80	SG-81	SG-82	SG-84	SG-85
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/14/11	06/14/11	06/14/11	06/15/11	06/15/11
Parameter	Units					
Volatile Organic Compounds						
Benzene	UG/M3	9.6 U	9.0 U	9.6 U	1,190 U	28.7 U
Benzyl chloride	UG/M3	31.1 U	29.0 U	31.1 U	3,840 U	92.7 U
Bromodichloromethane	UG/M3	41.4 U	38.6 U	41.4 U	5,130 U	124 U
Bromoform	UG/M3	62.2 U	58.0 U	62.2 U	7,690 U	185 U
Bromomethane	UG/M3	23.4 U	21.8 U	23.4 U	2,890 U	69.8 U
Carbon tetrachloride	UG/M3	18.9 U	17.7 U	18.9 U	2,340 U	56.5 U
Chlorobenzene	UG/M3	27.8 U	25.9 U	27.8 U	3,440 U	83.0 U
Chloroethane	UG/M3	16.0 U	14.9 U	16.0 U	1,980 U	47.7 U
Chloroform	UG/M3	29.3 U	27.3 U	29.3 U	3,620 U	87.4 U
Chloromethane	UG/M3	12.4 U	11.6 U	12.4 U	1,540 U	37.1 U
Cyclohexane	UG/M3	20.1 U	18.8 U	20.1 U	2,490 U	60.1 U
Dibromochloromethane	UG/M3	50.3 U	46.9 U	50.3 U	6,220 U	150 U
Dichlorodifluoromethane	UG/M3	29.6 U	27.6 U	29.6 U	3,660 U	88.3 U
Ethanol	UG/M3	12,200 J	65.7	71.8	6,960 U	259
Ethylbenzene	UG/M3	26.0 U	24.3 U	26.0 U	3,220 U	77.7 U
Hexachlorobutadiene	UG/M3	65.1 U	60.7 U	65.1 U	8,050 U	194 UJ
Hexane	UG/M3	21.3 U	19.9 U	21.3 U	2,640 U	581
Methyl ethyl ketone (2-Butanone)	UG/M3	17.8 U	16.6 U	17.8 U	2,200 U	53.0 U
Methyl tert-butyl ether	UG/M3	21.6 U	20.1 U	21.6 U	2,670 U	64.5 U
Methylene chloride	UG/M3	37.9	19.6 U	21.0 U	2,820	1,690
Styrene	UG/M3	25.8 U	24.0 U	25.8 U	3,180 U	76.8 U
t-Butyl alcohol	UG/M3	27.4 U	25.5 U	27.4 U	3,380 U	81.6 U
Tetrachloroethene	UG/M3	1,670	22,100	6,370	282,000	7,460

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

Checked By: _____

Detection Limits shown are PQL

Advanced Selection: AMK-TEMP AIR
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[LOGDATE] > #5/1/2011# AND [UNITS] = 'UG/M3' AND { [SACODE] = 'N' OR [SACODE] = 'FD' }

TABLE 6
VALIDATED AIR SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-080	SG-081	SG-082	SG-084	SG-085
Sample ID		SG-80	SG-81	SG-82	SG-84	SG-85
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/14/11	06/14/11	06/14/11	06/15/11	06/15/11
Parameter	Units					
Volatile Organic Compounds						
Toluene	UG/M3	171	63.7	152	2,820 U	198
Trichloroethene	UG/M3	74.9	776	208	2,010 U	114
Trichlorofluoromethane	UG/M3	32.6 U	30.4 U	32.6 U	4,030 U	256
Vinyl chloride	UG/M3	7.7 U	7.2 U	7.7 U	952 U	23.0 U
Xylene (total)	UG/M3	191	113	184	6,440 U	155 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

Checked By: _____

Detection Limits shown are PQL

TABLE 6
VALIDATED AIR SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-086	SG-087
Sample ID		SG-86	SG-87
Matrix		Soil Gas	Soil Gas
Depth Interval (ft)		-	-
Date Sampled		06/15/11	06/15/11
Parameter	Units		
Volatile Organic Compounds			
1,1,1-Trichloroethane	UG/M3	295 J	97.2 U
1,1,2,2-Tetrachloroethane	UG/M3	264 U	61.6 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	606 U	141 U
1,1-Dichloroethane	UG/M3	311 U	72.4 U
1,1-Dichloroethene	UG/M3	1,290	71.5 U
1,2,4-Trichlorobenzene	UG/M3	375 UJ	87.4 UJ
1,2,4-Trimethylbenzene	UG/M3	379 U	88.2 U
1,2-Dibromoethane (Ethylene dibromide)	UG/M3	606 U	141 U
1,2-Dichlorobenzene	UG/M3	455 U	106 U
1,2-Dichloroethane	UG/M3	155 U	36.2 U
1,2-Dichloroethene (cis)	UG/M3	307 U	71.5 U
1,2-Dichloroethene (trans)	UG/M3	307 U	71.5 U
1,2-Dichloropropane	UG/M3	356 U	169
1,2-Dichlorotetrafluoroethane	UG/M3	530 U	124 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	379 U	88.2 U
1,3-Butadiene	UG/M3	170 U	39.7 U
1,3-Dichlorobenzene	UG/M3	455 U	106 U
1,3-Dichloropropene (cis)	UG/M3	349 U	81.3 U
1,3-Dichloropropene (trans)	UG/M3	349 U	81.3 U
1,4-Dichlorobenzene	UG/M3	455 U	106 U
1,4-Dioxane	UG/M3	139 U	32.3 U
2,2,4-Trimethylpentane	UG/M3	360 U	83.9 U
4-Methyl-2-pentanone	UG/M3	314 U	73.3 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

Checked By _____

Detection Limits shown are PQL

Location ID		SG-086	SG-087
Sample ID		SG-86	SG-87
Matrix		Soil Gas	Soil Gas
Depth interval (ft)		-	-
Date Sampled		06/15/11	06/15/11
Parameter	Units		
Volatile Organic Compounds			
Benzene	UG/M3	123 U	28.7 U
Benzyl chloride	UG/M3	398 U	92.7 U
Bromodichloromethane	UG/M3	530 U	124 U
Bromoform	UG/M3	796 U	185 U
Bromomethane	UG/M3	299 U	69.8 U
Carbon tetrachloride	UG/M3	242 U	56.5 U
Chlorobenzene	UG/M3	356 U	83.0 U
Chloroethane	UG/M3	205 U	47.7 U
Chloroform	UG/M3	375 U	87.4 U
Chloromethane	UG/M3	159 U	37.1 U
Cyclohexane	UG/M3	258 U	60.1 U
Dibromochloromethane	UG/M3	644 U	150 U
Dichlorodifluoromethane	UG/M3	379 U	88.3 U
Ethanol	UG/M3	3,840	1,310
Ethylbenzene	UG/M3	333 U	77.7 U
Hexachlorobutadiene	UG/M3	834 UJ	194 UJ
Hexane	UG/M3	978	1,960
Methyl ethyl ketone (2-Butanone)	UG/M3	227 U	53.0 U
Methyl tert-butyl ether	UG/M3	277 U	64.5 U
Methylene chloride	UG/M3	3,140	6,640
Styrene	UG/M3	330 U	76.8 U
t-Butyl alcohol	UG/M3	350 U	81.6 U
Tetrachloroethene	UG/M3	69,500	2,190

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

Checked By _____

Detection Limits shown are PQL

TABLE 6
VALIDATED AIR SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-086	SG-087
Sample ID		SG-86	SG-87
Matrix		Soil Gas	Soil Gas
Depth Interval (ft)		-	-
Date Sampled		06/15/11	06/15/11
Parameter	Units		
Volatile Organic Compounds			
Toluene	UG/M3	222 J	264
Trichloroethene	UG/M3	899	48.6 U
Trichlorofluoromethane	UG/M3	417 U	97.2 U
Vinyl chloride	UG/M3	98.5 U	23.0 U
Xylene (total)	UG/M3	667 U	155 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

Checked By: _____

Detection Limits shown are PQL

TABLE 7
VALIDATED FIELD QC SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		FIELDQC	FIELDQC
Sample ID		TRIP BLANK	TB
Matrix		Water Quality	Water Quality
Depth Interval (ft)		-	-
Date Sampled		06/20/11	06/22/11
Parameter	Units	Trip Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds			
1,1,1,2-Tetrachloroethane	UG/L	5.0 U	5.0 U
1,1,1-Trichloroethane	UG/L	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	UG/L	5.0 U	5.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	5.0 U	5.0 U
1,1,2-Trichloroethane	UG/L	5.0 U	5.0 U
1,1-Dichloroethane	UG/L	5.0 U	5.0 U
1,1-Dichloroethene	UG/L	5.0 U	5.0 U
1,1-Dichloropropene	UG/L	5.0 U	5.0 U
1,2,3-Trichlorobenzene	UG/L	5.0 UJ	5.0 U
1,2,3-Trichloropropane	UG/L	5.0 U	5.0 U
1,2,4-Trichlorobenzene	UG/L	5.0 U	5.0 U
1,2,4-Trimethylbenzene	UG/L	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane	UG/L	5.0 U	5.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	5.0 U	5.0 U
1,2-Dichlorobenzene	UG/L	5.0 U	5.0 U
1,2-Dichloroethane	UG/L	5.0 U	5.0 U
1,2-Dichloroethene (cis)	UG/L	5.0 U	5.0 U
1,2-Dichloroethene (trans)	UG/L	5.0 U	5.0 U
1,2-Dichloropropane	UG/L	5.0 U	5.0 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/L	5.0 U	5.0 U
1,3-Dichlorobenzene	UG/L	5.0 U	5.0 U
1,3-Dichloropropane	UG/L	5.0 U	5.0 U
1,3-Dichloropropene (cis)	UG/L	5.0 U	5.0 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

Checked By _____

Detection Limits shown are PQL

TABLE 7
VALIDATED FIELD QC SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		FIELDQC	FIELDQC
Sample ID		TRIP BLANK	TB
Matrix		Water Quality	Water Quality
Depth Interval (ft)		-	-
Date Sampled		06/20/11	06/22/11
Parameter	Units	Trip Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds			
1,3-Dichloropropene (trans)	UG/L	5.0 U	5.0 U
1,4-Dichlorobenzene	UG/L	5.0 U	5.0 U
1,4-Dioxane	UG/L	R	R
2,2-Dichloropropane	UG/L	5.0 U	5.0 U
2-Chlorotoluene	UG/L	5.0 U	5.0 U
2-Hexanone	UG/L	5.0 U	5.0 UJ
4-Chlorotoluene	UG/L	5.0 U	5.0 U
4-Isopropyltoluene (p-Cymene)	UG/L	5.0 U	5.0 U
4-Methyl-2-pentanone	UG/L	5.0 U	5.0 UJ
Acetone	UG/L	R	R
Benzene	UG/L	5.0 U	5.0 U
Bromobenzene	UG/L	5.0 U	5.0 U
Bromochloromethane	UG/L	5.0 U	5.0 U
Bromodichloromethane	UG/L	5.0 U	5.0 U
Bromoform	UG/L	5.0 U	5.0 U
Bromomethane	UG/L	5.0 U	5.0 U
Carbon disulfide	UG/L	5.0 U	5.0 U
Carbon tetrachloride	UG/L	5.0 U	5.0 UJ
Chlorobenzene	UG/L	5.0 U	5.0 U
Chloroethane	UG/L	5.0 U	5.0 U
Chloroform	UG/L	5.0 U	5.0 U
Chloromethane	UG/L	5.0 U	5.0 UJ
Cyclohexane	UG/L	5.0 U	5.0 UJ

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

Checked By _____

Detection Limits shown are PQL

TABLE 7
VALIDATED FIELD QC SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		FIELDQC	FIELDQC
Sample ID		TRIP BLANK	TB
Matrix		Water Quality	Water Quality
Depth Interval (ft)		-	-
Date Sampled		06/20/11	06/22/11
Parameter	Units	Trip Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds			
Dibromochloromethane	UG/L	5.0 U	5.0 U
Dibromomethane	UG/L	5.0 U	5.0 U
Dichlorodifluoromethane	UG/L	5.0 UJ	5.0 U
Ethylbenzene	UG/L	5.0 U	5.0 U
Hexachlorobutadiene	UG/L	5.0 U	5.0 UJ
Iodomethane (Methyl iodide)	UG/L	5.0 U	5.0 UJ
Isopropylbenzene (Cumene)	UG/L	5.0 U	5.0 U
Methyl acetate	UG/L	5.0 U	5.0 U
Methyl ethyl ketone (2-Butanone)	UG/L	R	R
Methyl tert-butyl ether	UG/L	5.0 U	5.0 U
Methylcyclohexane	UG/L	5.0 U	5.0 U
Methylene chloride	UG/L	5.0 U	5.0 U
Naphthalene	UG/L	5.0 UJ	5.0 U
sec-Butylbenzene	UG/L	5.0 U	5.0 U
Styrene	UG/L	5.0 U	5.0 U
tert-Butylbenzene	UG/L	5.0 U	5.0 U
Tetrachloroethene	UG/L	5.0 U	5.0 U
Toluene	UG/L	5.0 U	5.0 U
Trichloroethene	UG/L	5.0 U	5.0 U
Trichlorofluoromethane	UG/L	5.0 U	5.0 UJ
Vinyl acetate	UG/L	5.0 U	5.0 U
Vinyl chloride	UG/L	5.0 U	5.0 U
Xylene (total)	UG/L	5.0 U	5.0 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/9/11

Checked By: _____

Detection Limits shown are PQL

ATTACHMENT A

VALIDATED FORM 1's

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-014D 31-32

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K0842 Mod. Ref No.: _____ SDG No.: SK0842
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0842-03B
Sample wt/vol: 5.10 (g/mL) G Lab File ID: V5M8810.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/23/2011
% Moisture: not dec. 26 Date Analyzed: 05/28/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/Kg</u>	Q
75-71-8	Dichlorodifluoromethane	6.7	U
74-87-3	Chloromethane	6.7	U
75-01-4	Vinyl chloride	6.7	U
74-83-9	Bromomethane	6.7	U
75-00-3	Chloroethane	6.7	U
75-69-4	Trichlorofluoromethane	6.7	U
75-35-4	1,1-Dichloroethene	6.7	U
67-64-1	Acetone	6.7	U <i>R</i>
74-88-4	Iodomethane	6.7	U
75-15-0	Carbon disulfide	6.7	U
75-09-2	Methylene chloride	6.7	U
156-60-5	trans-1,2-Dichloroethene	6.7	U
1634-04-4	Methyl tert-butyl ether	6.7	U
75-34-3	1,1-Dichloroethane	6.7	U
108-05-4	Vinyl acetate	6.7	U
78-93-3	2-Butanone	6.7	U <i>R</i>
156-59-2	cis-1,2-Dichloroethene	6.7	U
594-20-7	2,2-Dichloropropane	6.7	U
74-97-5	Bromochloromethane	6.7	U
67-66-3	Chloroform	6.7	U
71-55-6	1,1,1-Trichloroethane	6.7	U
563-58-6	1,1-Dichloropropene	6.7	U
56-23-5	Carbon tetrachloride	6.7	U
107-06-2	1,2-Dichloroethane	6.7	U
71-43-2	Benzene	6.7	U
79-01-6	Trichloroethene	6.7	U
78-87-5	1,2-Dichloropropane	6.7	U
74-95-3	Dibromomethane	6.7	U
75-27-4	Bromodichloromethane	6.7	U
10061-01-5	cis-1,3-Dichloropropene	6.7	U
108-10-1	4-Methyl-2-pentanone	6.7	U
108-88-3	Toluene	6.7	U
10061-02-6	trans-1,3-Dichloropropene	6.7	U
79-00-5	1,1,2-Trichloroethane	6.7	U
142-28-9	1,3-Dichloropropane	6.7	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-014D 31-32

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K0842 Mod. Ref No.: _____ SDG No.: SK0842
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0842-03B
Sample wt/vol: 5.10 (g/mL) G Lab File ID: V5M8810.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/23/2011
% Moisture: not dec. 26 Date Analyzed: 05/28/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{G/KG}$	Q
127-18-4	Tetrachloroethene	6.7	U
591-78-6	2-Hexanone	6.7	U
124-48-1	Dibromochloromethane	6.7	U
106-93-4	1,2-Dibromoethane	6.7	U
108-90-7	Chlorobenzene	6.7	U
630-20-6	1,1,1,2-Tetrachloroethane	6.7	U
100-41-4	Ethylbenzene	6.7	U
1330-20-7	m,p-Xylene	6.7	U
95-47-6	o-Xylene	6.7	U
1330-20-7	Xylene (Total)	6.7	U
100-42-5	Styrene	6.7	U
75-25-2	Bromoform	6.7	U
98-82-8	Isopropylbenzene	6.7	U
79-34-5	1,1,2,2-Tetrachloroethane	6.7	U
108-86-1	Bromobenzene	6.7	U
96-18-4	1,2,3-Trichloropropane	6.7	U
103-65-1	n-Propylbenzene	6.7	U
95-49-8	2-Chlorotoluene	6.7	U
108-67-8	1,3,5-Trimethylbenzene	6.7	U
106-43-4	4-Chlorotoluene	6.7	U
98-06-6	tert-Butylbenzene	6.7	U
95-63-6	1,2,4-Trimethylbenzene	6.7	U
135-98-8	sec-Butylbenzene	6.7	U
99-87-6	4-Isopropyltoluene	6.7	U
541-73-1	1,3-Dichlorobenzene	6.7	U
106-46-7	1,4-Dichlorobenzene	6.7	U
104-51-8	n-Butylbenzene	6.7	U
95-50-1	1,2-Dichlorobenzene	6.7	U
96-12-8	1,2-Dibromo-3-chloropropane	6.7	U
120-82-1	1,2,4-Trichlorobenzene	6.7	U
87-68-3	Hexachlorobutadiene	6.7	U
87-61-6	1,2,3-Trichlorobenzene	6.7	U
91-20-3	Naphthalene	6.7	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.7	U
123-91-1	1,4-Dioxane	130	U R

Handwritten signature
8/2/11

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-014D 31-32

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: K0842 Mod. Ref No.: _____ SDG No.: SK0842
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0842-03B
 Sample wt/vol: 5.10 (g/mL) G Lab File ID: V5M8810.D
 Level: (TRACE/LOW/MED) LOW Date Received: 05/23/2011
 % Moisture: not dec. 26 Date Analyzed: 05/28/2011
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) $\mu\text{G/KG}$	Q
110-82-7	Cyclohexane	6.7	U
79-20-9	Methyl acetate	6.7	U
108-87-2	Methylcyclohexane	6.7	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-014D 31-32

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K0842 Mod. Ref No.: _____ SDG No.: SK0842
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0842-03B
Sample wt/vol: 5.10 (g/mL) G Lab File ID: V5M8810.D
Level: (TRACE or LOW/MED) LOW Date Received: 05/23/2011
% Moisture: not dec. 26 Date Analyzed: 05/28/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) pG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-029D
(75-76')

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0791-12B
Sample wt/vol: 5.30 (g/mL) G Lab File ID: V8A3717.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/12/2011
% Moisture: not dec. 16 Date Analyzed: 05/12/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{G/KG}$	Q
75-71-8	Dichlorodifluoromethane	5.6	U
74-87-3	Chloromethane	5.6	U
75-01-4	Vinyl chloride	5.6	U
74-83-9	Bromomethane	5.6	U
75-00-3	Chloroethane	5.6	U
75-69-4	Trichlorofluoromethane	5.6	U
75-35-4	1,1-Dichloroethene	5.6	U
67-64-1	Acetone	5.6	U R
74-88-4	Iodomethane	5.6	U
75-15-0	Carbon disulfide	5.6	U
75-09-2	Methylene chloride	5.6	U
156-60-5	trans-1,2-Dichloroethene	5.6	U
1634-04-4	Methyl tert-butyl ether	5.6	U
75-34-3	1,1-Dichloroethane	5.6	U
108-05-4	Vinyl acetate	5.6	U
78-93-3	2-Butanone	5.6	U R
156-59-2	cis-1,2-Dichloroethene	5.6	U
594-20-7	2,2-Dichloropropane	5.6	U
74-97-5	Bromochloromethane	5.6	U
67-66-3	Chloroform	5.6	U
71-55-6	1,1,1-Trichloroethane	5.6	U
563-58-6	1,1-Dichloropropene	2.3	U
56-23-5	Carbon tetrachloride	5.6	U
107-06-2	1,2-Dichloroethane	5.6	U
71-43-2	Benzene	5.6	U
79-01-6	Trichloroethene	5.6	U
78-87-5	1,2-Dichloropropane	5.6	U
74-95-3	Dibromomethane	5.6	U
75-27-4	Bromodichloromethane	5.6	U
10061-01-5	cis-1,3-Dichloropropene	5.6	U
108-10-1	4-Methyl-2-pentanone	5.6	U
108-88-3	Toluene	5.6	U
10061-02-6	trans-1,3-Dichloropropene	5.6	U
79-00-5	1,1,2-Trichloroethane	5.6	U
142-28-9	1,3-Dichloropropane	5.6	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-029D
(75-76')

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0791-12B
Sample wt/vol: 5.30 (g/mL) G Lab File ID: V8A3717.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/12/2011
% Moisture: not dec. 16 Date Analyzed: 05/12/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{G/KG}$	Q
127-18-4	Tetrachloroethene	5.6	U
591-78-6	2-Hexanone	5.6	U
124-48-1	Dibromochloromethane	5.6	U
106-93-4	1,2-Dibromoethane	5.6	U
108-90-7	Chlorobenzene	5.6	U
630-20-6	1,1,1,2-Tetrachloroethane	5.6	U
100-41-4	Ethylbenzene	5.6	U
1330-20-7	m,p-Xylene	5.6	U
95-47-6	o-Xylene	5.6	U
1330-20-7	Xylene (Total)	5.6	U
100-42-5	Styrene	5.6	U
75-25-2	Bromoform	5.6	U
98-82-8	Isopropylbenzene	5.6	U
79-34-5	1,1,2,2-Tetrachloroethane	5.6	U
108-86-1	Bromobenzene	5.6	U
96-18-4	1,2,3-Trichloropropane	5.6	U
103-65-1	n-Propylbenzene	5.6	U
95-49-8	2-Chlorotoluene	5.6	U
108-67-8	1,3,5-Trimethylbenzene	5.6	U
106-43-4	4-Chlorotoluene	5.6	U
98-06-6	tert-Butylbenzene	5.6	U
95-63-6	1,2,4-Trimethylbenzene	5.6	U
135-98-8	sec-Butylbenzene	5.6	U
99-87-6	4-Isopropyltoluene	5.6	U
541-73-1	1,3-Dichlorobenzene	5.6	U
106-46-7	1,4-Dichlorobenzene	5.6	U
104-51-8	n-Butylbenzene	5.6	U
95-50-1	1,2-Dichlorobenzene	5.6	U
96-12-8	1,2-Dibromo-3-chloropropane	5.6	U
120-82-1	1,2,4-Trichlorobenzene	5.6	U
87-68-3	Hexachlorobutadiene	5.6	U
87-61-6	1,2,3-Trichlorobenzene	5.6	U
91-20-3	Naphthalene	5.6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.6	U
123-91-1	1,4-Dioxane	110	U-R

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-029D
(75-76')

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0791-12B
Sample wt/vol: 5.30 (g/mL) G Lab File ID: V8A3717.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/12/2011
% Moisture: not dec. 16 Date Analyzed: 05/12/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	µG/KG
110-82-7	Cyclohexane	5.6	U
79-20-9	Methyl acetate	5.6	U
108-87-2	Methylcyclohexane	5.6	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DEC-029D
(75-76')

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0791-12B
Sample wt/vol: 5.30 (g/mL) G Lab File ID: V8A3717.D
Level: (TRACE or LOW/MED) LOW Date Received: 05/12/2011
% Moisture: not dec. 16 Date Analyzed: 05/12/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	Unknown (10.48027)	10.480	17	J
02	Unknown (10.60567)	10.606	7.2	J
03	Unknown (10.72785)	10.728	26	J
04	Unknown (10.98507)	10.985	50	J
05	Unknown (11.17477)	11.175	24	J
06	Unknown (11.33553)	11.336	7.0	J
07	Unknown (11.39663)	11.397	8.5	J
08	Unknown (12.06862)	12.069	8.3	J

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-030D
(3.5-4.5')

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0791-11A
Sample wt/vol: 5.40 (g/mL) G Lab File ID: V8A3693.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/10/2011
% Moisture: not dec. 6.8 Date Analyzed: 05/11/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/KG	Q
75-71-8	Dichlorodifluoromethane	4.9	U
74-87-3	Chloromethane	4.9	U
75-01-4	Vinyl chloride	4.9	U
74-83-9	Bromomethane	4.9	U
75-00-3	Chloroethane	4.9	U
75-69-4	Trichlorofluoromethane	4.9	U
75-35-4	1,1-Dichloroethene	4.9	U
67-64-1	Acetone	4.9	U R
74-88-4	Iodomethane	4.9	U
75-15-0	Carbon disulfide	4.9	U
75-09-2	Methylene chloride	4.9	U
156-60-5	trans-1,2-Dichloroethene	4.9	U
1634-04-4	Methyl tert-butyl ether	4.9	U
75-34-3	1,1-Dichloroethane	4.9	U
108-05-4	Vinyl acetate	4.9	U
78-93-3	2-Butanone	4.9	U R
156-59-2	cis-1,2-Dichloroethene	4.9	U
594-20-7	2,2-Dichloropropane	4.9	U
74-97-5	Bromochloromethane	4.9	U
67-66-3	Chloroform	4.9	U
71-55-6	1,1,1-Trichloroethane	4.9	U
563-58-6	1,1-Dichloropropene	4.9	U
56-23-5	Carbon tetrachloride	4.9	U
107-06-2	1,2-Dichloroethane	4.9	U
71-43-2	Benzene	4.9	U
79-01-6	Trichloroethene	4.9	U
78-87-5	1,2-Dichloropropane	4.9	U
74-95-3	Dibromomethane	4.9	U
75-27-4	Bromodichloromethane	4.9	U
10061-01-5	cis-1,3-Dichloropropene	4.9	U
108-10-1	4-Methyl-2-pentanone	4.9	U
108-88-3	Toluene	4.9	U
10061-02-6	trans-1,3-Dichloropropene	4.9	U
79-00-5	1,1,2-Trichloroethane	4.9	U
142-28-9	1,3-Dichloropropane	4.9	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-030D
(3.5-4.5')

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0791-11A
Sample wt/vol: 5.40 (g/mL) G Lab File ID: V8A3693.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/10/2011
% Moisture: not dec. 6.8 Date Analyzed: 05/11/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{G/KG}$	Q
127-18-4	Tetrachloroethene	4.9	U
591-78-6	2-Hexanone	4.9	U
124-48-1	Dibromochloromethane	4.9	U
106-93-4	1,2-Dibromoethane	4.9	U
108-90-7	Chlorobenzene	4.9	U
630-20-6	1,1,1,2-Tetrachloroethane	4.9	U
100-41-4	Ethylbenzene	4.9	U
1330-20-7	m,p-Xylene	4.9	U
95-47-6	o-Xylene	4.9	U
1330-20-7	Xylene (Total)	4.9	U
100-42-5	Styrene	7.0	
75-25-2	Bromoform	4.9	U
98-82-8	Isopropylbenzene	4.9	U
79-34-5	1,1,2,2-Tetrachloroethane	4.9	U
108-86-1	Bromobenzene	4.9	U
96-18-4	1,2,3-Trichloropropane	4.9	U
103-65-1	n-Propylbenzene	4.9	U
95-49-8	2-Chlorotoluene	4.9	U
108-67-8	1,3,5-Trimethylbenzene	4.9	U
106-43-4	4-Chlorotoluene	4.9	U
98-06-6	tert-Butylbenzene	4.9	U
95-63-6	1,2,4-Trimethylbenzene	4.9	U
135-98-8	sec-Butylbenzene	4.9	U
99-87-6	4-Isopropyltoluene	4.9	U
541-73-1	1,3-Dichlorobenzene	4.9	U
106-46-7	1,4-Dichlorobenzene	4.9	U
104-51-8	n-Butylbenzene	4.9	U
95-50-1	1,2-Dichlorobenzene	4.9	U
96-12-8	1,2-Dibromo-3-chloropropane	4.9	U
120-82-1	1,2,4-Trichlorobenzene	4.9	U
87-68-3	Hexachlorobutadiene	4.9	U
87-61-6	1,2,3-Trichlorobenzene	4.9	U
91-20-3	Naphthalene	4.9	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	4.9	U
123-91-1	1,4-Dioxane	100	U-R

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-030D
(3.5-4.5')

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0791-11A
Sample wt/vol: 5.40 (g/mL) G Lab File ID: V8A3693.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/10/2011
% Moisture: not dec. 6.8 Date Analyzed: 05/11/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µG/KG	
110-82-7	Cyclohexane		4.9	U
79-20-9	Methyl acetate		4.9	U
108-87-2	Methylcyclohexane		4.9	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-030D
(3.5-4.5')

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0791-11A
Sample wt/vol: 5.40 (g/mL) G Lab File ID: V8A3693.D
Level: (TRACE or LOW/MED) LOW Date Received: 05/10/2011
% Moisture: not dec. 6.8 Date Analyzed: 05/11/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-043D
(80-81')

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K0842 Mod. Ref No.: _____ SDG No.: SK0842
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0842-01B
Sample wt/vol: 5.60 (g/mL) G Lab File ID: V8A3837.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/16/2011
% Moisture: not dec. 12 Date Analyzed: 05/17/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{G/KG}$	Q
75-71-8	Dichlorodifluoromethane	5.1	U
74-87-3	Chloromethane	5.1	U
75-01-4	Vinyl chloride	5.1	U
74-83-9	Bromomethane	5.1	U
75-00-3	Chloroethane	5.1	U
75-69-4	Trichlorofluoromethane	5.1	U
75-35-4	1,1-Dichloroethene	5.1	U
67-64-1	Acetone	5.7	5
74-88-4	Iodomethane	5.1	U
75-15-0	Carbon disulfide	5.1	U
75-09-2	Methylene chloride	5.1	U
156-60-5	trans-1,2-Dichloroethene	5.1	U
1634-04-4	Methyl tert-butyl ether	5.1	U
75-34-3	1,1-Dichloroethane	5.1	U
108-05-4	Vinyl acetate	5.1	U
78-93-3	2-Butanone	5.1	U-R
156-59-2	cis-1,2-Dichloroethene	5.1	U
594-20-7	2,2-Dichloropropane	5.1	U
74-97-5	Bromochloromethane	5.1	U
67-66-3	Chloroform	5.1	U
71-55-6	1,1,1-Trichloroethane	5.1	U
563-58-6	1,1-Dichloropropene	5.1	U
56-23-5	Carbon tetrachloride	5.1	U
107-06-2	1,2-Dichloroethane	5.1	U
71-43-2	Benzene	5.1	U
79-01-6	Trichloroethene	5.1	U
78-87-5	1,2-Dichloropropane	5.1	U
74-95-3	Dibromomethane	5.1	U
75-27-4	Bromodichloromethane	5.1	U
10061-01-5	cis-1,3-Dichloropropene	5.1	U
108-10-1	4-Methyl-2-pentanone	5.1	U
108-88-3	Toluene	5.1	U
10061-02-6	trans-1,3-Dichloropropene	5.1	U
79-00-5	1,1,2-Trichloroethane	5.1	U
142-28-9	1,3-Dichloropropane	5.1	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-043D
(80-81')

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K0842 Mod. Ref No.: _____ SDG No.: SK0842
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0842-01B
Sample wt/vol: 5.60 (g/mL) G Lab File ID: V8A3837.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/16/2011
% Moisture: not dec. 12 Date Analyzed: 05/17/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{G/KG}$	Q
127-18-4	Tetrachloroethene	5.1	U
591-78-6	2-Hexanone	5.1	U <i>5</i>
124-48-1	Dibromochloromethane	5.1	U
106-93-4	1,2-Dibromoethane	5.1	U
108-90-7	Chlorobenzene	5.1	U
630-20-6	1,1,1,2-Tetrachloroethane	5.1	U
100-41-4	Ethylbenzene	5.1	U
1330-20-7	m,p-Xylene	5.1	U
95-47-6	o-Xylene	5.1	U
1330-20-7	Xylene (Total)	5.1	U
100-42-5	Styrene	5.1	U
75-25-2	Bromoform	5.1	U
98-82-8	Isopropylbenzene	5.1	U
79-34-5	1,1,2,2-Tetrachloroethane	5.1	U
108-86-1	Bromobenzene	5.1	U
96-18-4	1,2,3-Trichloropropane	5.1	U
103-65-1	n-Propylbenzene	5.1	U
95-49-8	2-Chlorotoluene	5.1	U
108-67-8	1,3,5-Trimethylbenzene	5.1	U
106-43-4	4-Chlorotoluene	5.1	U
98-06-6	tert-Butylbenzene	5.1	U
95-63-6	1,2,4-Trimethylbenzene	5.1	U
135-98-8	sec-Butylbenzene	5.1	U
99-87-6	4-Isopropyltoluene	5.1	U
541-73-1	1,3-Dichlorobenzene	5.1	U
106-46-7	1,4-Dichlorobenzene	5.1	U
104-51-8	n-Butylbenzene	5.1	U <i>5</i>
95-50-1	1,2-Dichlorobenzene	5.1	U
96-12-8	1,2-Dibromo-3-chloropropane	5.1	U
120-82-1	1,2,4-Trichlorobenzene	5.1	U
87-68-3	Hexachlorobutadiene	5.1	U
87-61-6	1,2,3-Trichlorobenzene	5.1	U
91-20-3	Naphthalene	5.1	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.1	U
123-91-1	1,4-Dioxane	100	U <i>R</i>

Handwritten: 8/2/11

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-043D
(80-81')

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K0842 Mod. Ref No.: _____ SDG No.: SK0842
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0842-01B
Sample wt/vol: 5.60 (g/mL) G Lab File ID: V8A3837.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/16/2011
% Moisture: not dec. 12 Date Analyzed: 05/17/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/KG	Q
110-82-7	Cyclohexane	5.1	U
79-20-9	Methyl acetate	5.1	U
108-87-2	Methylcyclohexane	5.1	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-043D
(80-81')

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K0842 Mod. Ref No.: _____ SDG No.: SK0842
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0842-01B
Sample wt/vol: 5.60 (g/mL) G Lab File ID: V8A3837.D
Level: (TRACE or LOW/MED) LOW Date Received: 05/16/2011
% Moisture: not dec. 12 Date Analyzed: 05/17/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DEC-044D (4-5')

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K0807 Mod. Ref No.: _____ SDG No.: SK0807
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0807-02B
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1151.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/12/2011
% Moisture: not dec. Date Analyzed: 05/15/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
75-01-4	Vinyl chloride	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
78-93-3	2-Butanone	5.0	U
67-66-3	Chloroform	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	1.0	J
127-18-4	Tetrachloroethene	8.2	
108-90-7	Chlorobenzene	5.0	U

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-064D
(29-29.5)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K0842 Mod. Ref No.: _____ SDG No.: SK0842
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0842-02B
Sample wt/vol: 5.30 (g/mL) G Lab File ID: V8A3838.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/16/2011
% Moisture: not dec. 7.4 Date Analyzed: 05/17/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{G/KG}$	Q
75-71-8	Dichlorodifluoromethane	5.1	U
74-87-3	Chloromethane	5.1	U
75-01-4	Vinyl chloride	5.1	U
74-83-9	Bromomethane	5.1	U
75-00-3	Chloroethane	5.1	U
75-69-4	Trichlorofluoromethane	5.1	U
75-35-4	1,1-Dichloroethene	5.1	U
67-64-1	Acetone	4.3	J
74-88-4	Iodomethane	5.1	U
75-15-0	Carbon disulfide	5.1	U
75-09-2	Methylene chloride	5.1	U
156-60-5	trans-1,2-Dichloroethene	5.1	U
1634-04-4	Methyl tert-butyl ether	5.1	U
75-34-3	1,1-Dichloroethane	5.1	U
108-05-4	Vinyl acetate	5.1	U
78-93-3	2-Butanone	5.1	U R
156-59-2	cis-1,2-Dichloroethene	5.1	U
594-20-7	2,2-Dichloropropane	5.1	U
74-97-5	Bromochloromethane	5.1	U
67-66-3	Chloroform	5.1	U
71-55-6	1,1,1-Trichloroethane	5.1	U
563-58-6	1,1-Dichloropropene	5.1	U
56-23-5	Carbon tetrachloride	5.1	U
107-06-2	1,2-Dichloroethane	5.1	U
71-43-2	Benzene	5.1	U
79-01-6	Trichloroethene	5.1	U
78-87-5	1,2-Dichloropropane	5.1	U
74-95-3	Dibromomethane	5.1	U
75-27-4	Bromodichloromethane	5.1	U
10061-01-5	cis-1,3-Dichloropropene	5.1	U
108-10-1	4-Methyl-2-pentanone	5.1	U
108-88-3	Toluene	5.1	U
10061-02-6	trans-1,3-Dichloropropene	5.1	U
79-00-5	1,1,2-Trichloroethane	5.1	U
142-28-9	1,3-Dichloropropane	5.1	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-064D
(29-29.5)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K0842 Mod. Ref No.: _____ SDG No.: SK0842
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0842-02B
Sample wt/vol: 5.30 (g/mL) G Lab File ID: V8A3838.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/16/2011
% Moisture: not dec. 7.4 Date Analyzed: 05/17/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{G/KG}$	Q
127-18-4	Tetrachloroethene	5.1	U
591-78-6	2-Hexanone	5.1	U-3
124-48-1	Dibromochloromethane	5.1	U
106-93-4	1,2-Dibromoethane	5.1	U
108-90-7	Chlorobenzene	5.1	U
630-20-6	1,1,1,2-Tetrachloroethane	5.1	U
100-41-4	Ethylbenzene	5.1	U
1330-20-7	m,p-Xylene	5.1	U
95-47-6	o-Xylene	5.1	U
1330-20-7	Xylene (Total)	5.1	U
100-42-5	Styrene	5.1	U
75-25-2	Bromoform	5.1	U
98-82-8	Isopropylbenzene	5.1	U
79-34-5	1,1,2,2-Tetrachloroethane	5.1	U
108-86-1	Bromobenzene	5.1	U
96-18-4	1,2,3-Trichloropropane	5.1	U
103-65-1	n-Propylbenzene	5.1	U
95-49-8	2-Chlorotoluene	5.1	U
108-67-8	1,3,5-Trimethylbenzene	5.1	U
106-43-4	4-Chlorotoluene	5.1	U
98-06-6	tert-Butylbenzene	5.1	U
95-63-6	1,2,4-Trimethylbenzene	5.1	U
135-98-8	sec-Butylbenzene	5.1	U
99-87-6	4-Isopropyltoluene	5.1	U
541-73-1	1,3-Dichlorobenzene	5.1	U
106-46-7	1,4-Dichlorobenzene	5.1	U
104-51-8	n-Butylbenzene	5.1	U-3
95-50-1	1,2-Dichlorobenzene	5.1	U
96-12-8	1,2-Dibromo-3-chloropropane	5.1	U
120-82-1	1,2,4-Trichlorobenzene	5.1	U
87-68-3	Hexachlorobutadiene	5.1	U
87-61-6	1,2,3-Trichlorobenzene	5.1	U
91-20-3	Naphthalene	5.1	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.1	U
123-91-1	1,4-Dioxane	100	U-R

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
DEC-064D
(29-29.5)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K0842 Mod. Ref No.: _____ SDG No.: SK0842
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0842-02B
Sample wt/vol: 5.30 (g/mL) G Lab File ID: V8A3838.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/16/2011
% Moisture: not dec. 7.4 Date Analyzed: 05/17/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>µG/KG</u>	Q
110-82-7	Cyclohexane	5.1	U
79-20-9	Methyl acetate	5.1	U
108-87-2	Methylcyclohexane	5.1	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-064D
(29-29.5)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K0842 Mod. Ref No.: _____ SDG No.: SK0842
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0842-02B
Sample wt/vol: 5.30 (g/mL) G Lab File ID: V8A3838.D
Level: (TRACE or LOW/MED) LOW Date Received: 05/16/2011
% Moisture: not dec. 7.4 Date Analyzed: 05/17/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-065D(9-10')

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K0910 Mod. Ref No.: _____ SDG No.: SK0910
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0910-03B
Sample wt/vol: 5.00 (g/mL) G Lab File ID: V8A3871.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/27/2011
% Moisture: not dec. 10 Date Analyzed: 05/31/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{G/KG}$	Q
75-71-8	Dichlorodifluoromethane	5.6	U
74-87-3	Chloromethane	5.6	U
75-01-4	Vinyl chloride	5.6	U
74-83-9	Bromomethane	5.6	U
75-00-3	Chloroethane	5.6	U
75-69-4	Trichlorofluoromethane	5.6	U
75-35-4	1,1-Dichloroethene	5.6	U
67-64-1	Acetone	2.4	J
74-88-4	Iodomethane	5.6	U
75-15-0	Carbon disulfide	5.6	U
75-09-2	Methylene chloride	3.1	J
156-60-5	trans-1,2-Dichloroethene	5.6	U
1634-04-4	Methyl tert-butyl ether	5.6	U
75-34-3	1,1-Dichloroethane	5.6	U
108-05-4	Vinyl acetate	5.6	U
78-93-3	2-Butanone	5.6	U R
156-59-2	cis-1,2-Dichloroethene	5.6	U
594-20-7	2,2-Dichloropropane	5.6	U
74-97-5	Bromochloromethane	5.6	U
67-66-3	Chloroform	5.6	U
71-55-6	1,1,1-Trichloroethane	5.6	U
563-58-6	1,1-Dichloropropene	5.6	U
56-23-5	Carbon tetrachloride	5.6	U
107-06-2	1,2-Dichloroethane	5.6	U
71-43-2	Benzene	5.6	U
79-01-6	Trichloroethene	5.6	U
78-87-5	1,2-Dichloropropane	5.6	U
74-95-3	Dibromomethane	5.6	U
75-27-4	Bromodichloromethane	5.6	U
10061-01-5	cis-1,3-Dichloropropene	5.6	U
108-10-1	4-Methyl-2-pentanone	5.6	U
108-88-3	Toluene	5.6	U
10061-02-6	trans-1,3-Dichloropropene	5.6	U
79-00-5	1,1,2-Trichloroethane	5.6	U
142-28-9	1,3-Dichloropropane	5.6	U

*Check
8/31/11*

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-065D(9-10')

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K0910 Mod. Ref No.: _____ SDG No.: SK0910
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0910-03B
Sample wt/vol: 5.00 (g/mL) G Lab File ID: V8A3871.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/27/2011
% Moisture: not dec. 10 Date Analyzed: 05/31/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{G/KG}$	Q
127-18-4	Tetrachloroethene	5.6	U
591-78-6	2-Hexanone	5.6	U
124-48-1	Dibromochloromethane	5.6	U
106-93-4	1,2-Dibromoethane	5.6	U
108-90-7	Chlorobenzene	5.6	U
630-20-6	1,1,1,2-Tetrachloroethane	5.6	U
100-41-4	Ethylbenzene	5.6	U
1330-20-7	m,p-Xylene	5.6	U
95-47-6	o-Xylene	5.6	U
1330-20-7	Xylene (Total)	5.6	U
100-42-5	Styrene	5.6	U
75-25-2	Bromoform	5.6	U
98-82-8	Isopropylbenzene	5.6	U
79-34-5	1,1,2,2-Tetrachloroethane	5.6	U
108-86-1	Bromobenzene	5.6	U
96-18-4	1,2,3-Trichloropropane	5.6	U
103-65-1	n-Propylbenzene	5.6	U
95-49-8	2-Chlorotoluene	5.6	U
108-67-8	1,3,5-Trimethylbenzene	5.6	U
106-43-4	4-Chlorotoluene	5.6	U
98-06-6	tert-Butylbenzene	5.6	U
95-63-6	1,2,4-Trimethylbenzene	5.6	U
135-98-8	sec-Butylbenzene	5.6	U
99-87-6	4-Isopropyltoluene	5.6	U
541-73-1	1,3-Dichlorobenzene	5.6	U
106-46-7	1,4-Dichlorobenzene	5.6	U
104-51-8	n-Butylbenzene	5.6	U
95-50-1	1,2-Dichlorobenzene	5.6	U
96-12-8	1,2-Dibromo-3-chloropropane	5.6	U-3
120-82-1	1,2,4-Trichlorobenzene	5.6	U
87-68-3	Hexachlorobutadiene	5.6	U
87-61-6	1,2,3-Trichlorobenzene	5.6	U
91-20-3	Naphthalene	5.6	U-5
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.6	U
123-91-1	1,4-Dioxane	110	U-2

Handwritten: 8/3/11

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-065D(9-10')

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K0910 Mod. Ref No.: _____ SDG No.: SK0910
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0910-03B
Sample wt/vol: 5.00 (g/mL) G Lab File ID: V8A3871.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/27/2011
% Moisture: not dec. 10 Date Analyzed: 05/31/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µG/KG	
110-82-7	Cyclohexane		5.6	U
79-20-9	Methyl acetate		5.6	U
108-87-2	Methylcyclohexane		5.6	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-065D(9-10')

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K0910 Mod. Ref No.: _____ SDG No.: SK0910
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0910-03B
Sample wt/vol: 5.00 (g/mL) G Lab File ID: V8A3871.D
Level: (TRACE or LOW/MED) LOW Date Received: 05/27/2011
% Moisture: not dec. 10 Date Analyzed: 05/31/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) µG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-065D(14-15')

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K0910 Mod. Ref No.: _____ SDG No.: SK0910
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0910-04B
Sample wt/vol: 5.20 (g/mL) G Lab File ID: V8A3872.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/27/2011
% Moisture: not dec. 13 Date Analyzed: 05/31/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{g/Kg}$	Q
75-71-8	Dichlorodifluoromethane	5.5	U
74-87-3	Chloromethane	5.5	U
75-01-4	Vinyl chloride	5.5	U
74-83-9	Bromomethane	5.5	U
75-00-3	Chloroethane	5.5	U
75-69-4	Trichlorofluoromethane	5.5	U
75-35-4	1,1-Dichloroethene	5.5	U
67-64-1	Acetone	2.8	J
74-88-4	Iodomethane	5.5	U
75-15-0	Carbon disulfide	5.5	U
75-09-2	Methylene chloride	4.1	J
156-60-5	trans-1,2-Dichloroethene	5.5	U
1634-04-4	Methyl tert-butyl ether	5.5	U
75-34-3	1,1-Dichloroethane	5.5	U
108-05-4	Vinyl acetate	5.5	U
78-93-3	2-Butanone	5.5	U R
156-59-2	cis-1,2-Dichloroethene	5.5	U
594-20-7	2,2-Dichloropropane	5.5	U
74-97-5	Bromochloromethane	5.5	U
67-66-3	Chloroform	5.5	U
71-55-6	1,1,1-Trichloroethane	5.5	U
563-58-6	1,1-Dichloropropene	5.5	U
56-23-5	Carbon tetrachloride	5.5	U
107-06-2	1,2-Dichloroethane	5.5	U
71-43-2	Benzene	5.5	U
79-01-6	Trichloroethene	5.5	U
78-87-5	1,2-Dichloropropane	5.5	U
74-95-3	Dibromomethane	5.5	U
75-27-4	Bromodichloromethane	5.5	U
10061-01-5	cis-1,3-Dichloropropene	5.5	U
108-10-1	4-Methyl-2-pentanone	5.5	U
108-88-3	Toluene	5.5	U
10061-02-6	trans-1,3-Dichloropropene	5.5	U
79-00-5	1,1,2-Trichloroethane	5.5	U
142-28-9	1,3-Dichloropropane	5.5	U

Check 5/31/11

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-065D(14-15')

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K0910 Mod. Ref No.: _____ SDG No.: SK0910
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0910-04B
Sample wt/vol: 5.20 (g/mL) G Lab File ID: V8A3872.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/27/2011
% Moisture: not dec. 13 Date Analyzed: 05/31/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{G/KG}$	Q
127-18-4	Tetrachloroethene	5.5	U
591-78-6	2-Hexanone	5.5	U
124-48-1	Dibromochloromethane	5.5	U
106-93-4	1,2-Dibromoethane	5.5	U
108-90-7	Chlorobenzene	5.5	U
630-20-6	1,1,1,2-Tetrachloroethane	5.5	U
100-41-4	Ethylbenzene	5.5	U
1330-20-7	m,p-Xylene	5.5	U
95-47-6	o-Xylene	5.5	U
1330-20-7	Xylene (Total)	5.5	U
100-42-5	Styrene	5.5	U
75-25-2	Bromoform	5.5	U
98-82-8	Isopropylbenzene	5.5	U
79-34-5	1,1,2,2-Tetrachloroethane	5.5	U
108-86-1	Bromobenzene	5.5	U
96-18-4	1,2,3-Trichloropropane	5.5	U
103-65-1	n-Propylbenzene	5.5	U
95-49-8	2-Chlorotoluene	5.5	U
108-67-8	1,3,5-Trimethylbenzene	5.5	U
106-43-4	4-Chlorotoluene	5.5	U
98-06-6	tert-Butylbenzene	5.5	U
95-63-6	1,2,4-Trimethylbenzene	5.5	U
135-98-8	sec-Butylbenzene	5.5	U
99-87-6	4-Isopropyltoluene	5.5	U
541-73-1	1,3-Dichlorobenzene	5.5	U
106-46-7	1,4-Dichlorobenzene	5.5	U
104-51-8	n-Butylbenzene	5.5	U
95-50-1	1,2-Dichlorobenzene	5.5	U
96-12-8	1,2-Dibromo-3-chloropropane	5.5	U-3
120-82-1	1,2,4-Trichlorobenzene	5.5	U
87-68-3	Hexachlorobutadiene	5.5	U
87-61-6	1,2,3-Trichlorobenzene	5.5	U
91-20-3	Naphthalene	5.5	U-5
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.5	U
123-91-1	1,4-Dioxane	110	U-R

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
DEC-065D(14-15')

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K0910 Mod. Ref No.: _____ SDG No.: SK0910
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0910-04B
Sample wt/vol: 5.20 (g/mL) G Lab File ID: V8A3872.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/27/2011
% Moisture: not dec. 13 Date Analyzed: 05/31/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{G/KG}$	Q
110-82-7	Cyclohexane	5.5	U
79-20-9	Methyl acetate	5.5	U
108-87-2	Methylcyclohexane	5.5	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-065D(14-15')

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K0910 Mod. Ref No.: _____ SDG No.: SK0910
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0910-04B
Sample wt/vol: 5.20 (g/mL) G Lab File ID: V8A3872.D
Level: (TRACE or LOW/MED) LOW Date Received: 05/27/2011
% Moisture: not dec. 13 Date Analyzed: 05/31/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
DEC-065D(34-35)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K0910 Mod. Ref No.: _____ SDG No.: SK0910
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0910-05B
Sample wt/vol: 5.40 (g/mL) G Lab File ID: V5M8821.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/25/2011
% Moisture: not dec. 19 Date Analyzed: 05/28/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{G/KG}$	Q
75-71-8	Dichlorodifluoromethane	5.7	U
74-87-3	Chloromethane	5.7	U
75-01-4	Vinyl chloride	5.7	U
74-83-9	Bromomethane	5.7	U
75-00-3	Chloroethane	5.7	U
75-69-4	Trichlorofluoromethane	5.7	U
75-35-4	1,1-Dichloroethene	5.7	U
67-64-1	Acetone	9.7	5
74-88-4	Iodomethane	5.7	U
75-15-0	Carbon disulfide	5.7	U
75-09-2	Methylene chloride	5.7	U
156-60-5	trans-1,2-Dichloroethene	5.7	U
1634-04-4	Methyl tert-butyl ether	5.7	U
75-34-3	1,1-Dichloroethane	5.7	U
108-05-4	Vinyl acetate	5.7	U
78-93-3	2-Butanone	5.7	U R
156-59-2	cis-1,2-Dichloroethene	5.7	U
594-20-7	2,2-Dichloropropane	5.7	U
74-97-5	Bromochloromethane	5.7	U
67-66-3	Chloroform	5.7	U
71-55-6	1,1,1-Trichloroethane	5.7	U
563-58-6	1,1-Dichloropropene	5.7	U
56-23-5	Carbon tetrachloride	5.7	U
107-06-2	1,2-Dichloroethane	5.7	U
71-43-2	Benzene	5.7	U
79-01-6	Trichloroethene	5.7	U
78-87-5	1,2-Dichloropropane	5.7	U
74-95-3	Dibromomethane	5.7	U
75-27-4	Bromodichloromethane	5.7	U
10061-01-5	cis-1,3-Dichloropropene	5.7	U
108-10-1	4-Methyl-2-pentanone	5.7	U
108-88-3	Toluene	5.7	U
10061-02-6	trans-1,3-Dichloropropene	5.7	U
79-00-5	1,1,2-Trichloroethane	5.7	U
142-28-9	1,3-Dichloropropane	5.7	U

Check 4/2/11

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-065D(34-35)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K0910 Mod. Ref No.: _____ SDG No.: SK0910
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0910-05B
Sample wt/vol: 5.40 (g/mL) G Lab File ID: V5M8821.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/25/2011
% Moisture: not dec. 19 Date Analyzed: 05/28/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{G/KG}$	Q
127-18-4	Tetrachloroethene	5.7	U
591-78-6	2-Hexanone	5.7	U
124-48-1	Dibromochloromethane	5.7	U
106-93-4	1,2-Dibromoethane	5.7	U
108-90-7	Chlorobenzene	5.7	U
630-20-6	1,1,1,2-Tetrachloroethane	5.7	U
100-41-4	Ethylbenzene	5.7	U
1330-20-7	m,p-Xylene	5.7	U
95-47-6	o-Xylene	5.7	U
1330-20-7	Xylene (Total)	5.7	U
100-42-5	Styrene	5.7	U
75-25-2	Bromoform	5.7	U
98-82-8	Isopropylbenzene	5.7	U
79-34-5	1,1,2,2-Tetrachloroethane	5.7	U
108-86-1	Bromobenzene	5.7	U
96-18-4	1,2,3-Trichloropropane	5.7	U
103-65-1	n-Propylbenzene	5.7	U
95-49-8	2-Chlorotoluene	5.7	U
108-67-8	1,3,5-Trimethylbenzene	5.7	U
106-43-4	4-Chlorotoluene	5.7	U
98-06-6	tert-Butylbenzene	5.7	U
95-63-6	1,2,4-Trimethylbenzene	5.7	U
135-98-8	sec-Butylbenzene	5.7	U
99-87-6	4-Isopropyltoluene	5.7	U
541-73-1	1,3-Dichlorobenzene	5.7	U
106-46-7	1,4-Dichlorobenzene	5.7	U
104-51-8	n-Butylbenzene	5.7	U
95-50-1	1,2-Dichlorobenzene	5.7	U
96-12-8	1,2-Dibromo-3-chloropropane	5.7	U
120-82-1	1,2,4-Trichlorobenzene	5.7	U
87-68-3	Hexachlorobutadiene	5.7	U
87-61-6	1,2,3-Trichlorobenzene	5.7	U
91-20-3	Naphthalene	14	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.7	U
123-91-1	1,4-Dioxane	110	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-065D(34-35)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K0910 Mod. Ref No.: _____ SDG No.: SK0910
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0910-05B
Sample wt/vol: 5.40 (g/mL) G Lab File ID: V5M8821.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/25/2011
% Moisture: not dec. 19 Date Analyzed: 05/28/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	µG/KG
110-82-7	Cyclohexane	5.7	U
79-20-9	Methyl acetate	5.7	U
108-87-2	Methylcyclohexane	5.7	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
DEC-065D(34-35)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K0910 Mod. Ref No.: _____ SDG No.: SK0910
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0910-05B
Sample wt/vol: 5.40 (g/mL) G Lab File ID: V5M8821.D
Level: (TRACE or LOW/MED) LOW Date Received: 05/25/2011
% Moisture: not dec. 19 Date Analyzed: 05/28/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	928-68-7	2-Heptanone, 6-methyl-	11.886	12	NJ

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-066D (24-25)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K0910 Mod. Ref No.: _____ SDG No.: SK0910
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0910-01B
Sample wt/vol: 5.60 (g/mL) G Lab File ID: V5M8817.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/25/2011
% Moisture: not dec. 19 Date Analyzed: 05/28/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/KG	Q
75-71-8	Dichlorodifluoromethane	5.5	U
74-87-3	Chloromethane	5.5	U
75-01-4	Vinyl chloride	5.5	U
74-83-9	Bromomethane	5.5	U
75-00-3	Chloroethane	5.5	U
75-69-4	Trichlorofluoromethane	5.5	U
75-35-4	1,1-Dichloroethene	5.5	U
67-64-1	Acetone	5.5	U R
74-88-4	Iodomethane	5.5	U
75-15-0	Carbon disulfide	5.5	U
75-09-2	Methylene chloride	2.2	J
156-60-5	trans-1,2-Dichloroethene	5.5	U
1634-04-4	Methyl tert-butyl ether	5.5	U
75-34-3	1,1-Dichloroethane	5.5	U
108-05-4	Vinyl acetate	5.5	U
78-93-3	2-Butanone	5.5	U R
156-59-2	cis-1,2-Dichloroethene	5.5	U
594-20-7	2,2-Dichloropropane	5.5	U
74-97-5	Bromochloromethane	5.5	U
67-66-3	Chloroform	5.5	U
71-55-6	1,1,1-Trichloroethane	5.5	U
563-58-6	1,1-Dichloropropene	5.5	U
56-23-5	Carbon tetrachloride	5.5	U
107-06-2	1,2-Dichloroethane	5.5	U
71-43-2	Benzene	5.5	U
79-01-6	Trichloroethene	5.5	U
78-87-5	1,2-Dichloropropane	5.5	U
74-95-3	Dibromomethane	5.5	U
75-27-4	Bromodichloromethane	5.5	U
10061-01-5	cis-1,3-Dichloropropene	5.5	U
108-10-1	4-Methyl-2-pentanone	5.5	U
108-88-3	Toluene	5.5	U
10061-02-6	trans-1,3-Dichloropropene	5.5	U
79-00-5	1,1,2-Trichloroethane	5.5	U
142-28-9	1,3-Dichloropropane	5.5	U

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
DEC-066D (24-25)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K0910 Mod. Ref No.: _____ SDG No.: SK0910
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0910-01B
Sample wt/vol: 5.60 (g/mL) G Lab File ID: V5M8817.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/25/2011
% Moisture: not dec. 19 Date Analyzed: 05/28/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{G/KG}$	Q
127-18-4	Tetrachloroethene	2.2	J
591-78-6	2-Hexanone	5.5	U
124-48-1	Dibromochloromethane	5.5	U
106-93-4	1,2-Dibromoethane	5.5	U
108-90-7	Chlorobenzene	5.5	U
630-20-6	1,1,1,2-Tetrachloroethane	5.5	U
100-41-4	Ethylbenzene	5.5	U
1330-20-7	m,p-Xylene	5.5	U
95-47-6	o-Xylene	5.5	U
1330-20-7	Xylene (Total)	5.5	U
100-42-5	Styrene	5.5	U
75-25-2	Bromoform	5.5	U
98-82-8	Isopropylbenzene	5.5	U
79-34-5	1,1,2,2-Tetrachloroethane	5.5	U
108-86-1	Bromobenzene	5.5	U
96-18-4	1,2,3-Trichloropropane	5.5	U
103-65-1	n-Propylbenzene	5.5	U
95-49-8	2-Chlorotoluene	5.5	U
108-67-8	1,3,5-Trimethylbenzene	5.5	U
106-43-4	4-Chlorotoluene	5.5	U
98-06-6	tert-Butylbenzene	5.5	U
95-63-6	1,2,4-Trimethylbenzene	5.5	U
135-98-8	sec-Butylbenzene	5.5	U
99-87-6	4-Isopropyltoluene	5.5	U
541-73-1	1,3-Dichlorobenzene	5.5	U
106-46-7	1,4-Dichlorobenzene	5.5	U
104-51-8	n-Butylbenzene	5.5	U
95-50-1	1,2-Dichlorobenzene	5.5	U
96-12-8	1,2-Dibromo-3-chloropropane	5.5	U
120-82-1	1,2,4-Trichlorobenzene	5.5	U
87-68-3	Hexachlorobutadiene	5.5	U
87-61-6	1,2,3-Trichlorobenzene	5.5	U
91-20-3	Naphthalene	5.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.5	U
123-91-1	1,4-Dioxane	110	U R

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8/3/11*

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
DEC-066D (24-25)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K0910 Mod. Ref No.: _____ SDG No.: SK0910
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0910-01B
Sample wt/vol: 5.60 (g/mL) G Lab File ID: V5M8817.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/25/2011
% Moisture: not dec. 19 Date Analyzed: 05/28/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	µG/KG
110-82-7	Cyclohexane	5.5	U
79-20-9	Methyl acetate	5.5	U
108-87-2	Methylcyclohexane	5.5	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-066D (24-25)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K0910 Mod. Ref No.: _____ SDG No.: SK0910
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0910-01B
Sample wt/vol: 5.60 (g/mL) G Lab File ID: V5M8817.D
Level: (TRACE or LOW/MED) LOW Date Received: 05/25/2011
% Moisture: not dec. 19 Date Analyzed: 05/28/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-066D (29-30)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K0910 Mod. Ref No.: _____ SDG No.: SK0910
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0910-02B
Sample wt/vol: 5.20 (g/mL) G Lab File ID: V5M8818.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/25/2011
% Moisture: not dec. 4.3 Date Analyzed: 05/28/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{G/KG}$	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	2.1	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U R
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-066D (29-30)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K0910 Mod. Ref No.: _____ SDG No.: SK0910
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0910-02B
Sample wt/vol: 5.20 (g/mL) G Lab File ID: V5M8818.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/25/2011
% Moisture: not dec. 4.3 Date Analyzed: 05/28/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{g/Kg}$	Q
127-18-4	Tetrachloroethene	4.8	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-066D (29-30)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: K0910 Mod. Ref No.: _____ SDG No.: SK0910
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0910-02B
 Sample wt/vol: 5.20 (g/mL) G Lab File ID: V5M8818.D
 Level: (TRACE/LOW/MED) LOW Date Received: 05/25/2011
 % Moisture: not dec. 4.3 Date Analyzed: 05/28/2011
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/KG	Q
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U
108-87-2	Methylcyclohexane	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-066D (29-30)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K0910 Mod. Ref No.: _____ SDG No.: SK0910
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0910-02B
Sample wt/vol: 5.20 (g/mL) G Lab File ID: V5M8818.D
Level: (TRACE or LOW/MED) LOW Date Received: 05/25/2011
% Moisture: not dec. 4.3 Date Analyzed: 05/28/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) µG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DEC-066S (1-2')

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K0807 Mod. Ref No.: _____ SDG No.: SK0807
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0807-01B
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A3770.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/12/2011
% Moisture: not dec. Date Analyzed: 05/13/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
75-01-4	Vinyl chloride	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
78-93-3	2-Butanone	2.6	J
67-66-3	Chloroform	2.6	J
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	74	
79-01-6	Trichloroethene	120	
127-18-4	Tetrachloroethene	260-240	U
108-90-7	Chlorobenzene	5.0	U

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5/2/11*

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-066S
(1-2') DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K0807 Mod. Ref No.: _____ SDG No.: SK0807
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0807-01BDL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1152.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/12/2011
% Moisture: not dec. Date Analyzed: 05/15/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 2.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µG/L	
75-01-4	Vinyl chloride		10	U
75-35-4	1,1-Dichloroethene		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		2.3	DJ
56-23-5	Carbon tetrachloride		10	U
107-06-2	1,2-Dichloroethane		10	U
71-43-2	Benzene		72	D
79-01-6	Trichloroethene		140	D
127-18-4	Tetrachloroethene		260	D
108-90-7	Chlorobenzene		10	U

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8/2/11

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SG-78 (4-5')

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0791-02A
Sample wt/vol: 5.20 (g/mL) G Lab File ID: V8A3684.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/10/2011
% Moisture: not dec. 10 Date Analyzed: 05/11/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/Kg</u>	Q
75-71-8	Dichlorodifluoromethane	5.3	U
74-87-3	Chloromethane	5.3	U
75-01-4	Vinyl chloride	5.3	U
74-83-9	Bromomethane	5.3	U
75-00-3	Chloroethane	5.3	U
75-69-4	Trichlorofluoromethane	5.3	U
75-35-4	1,1-Dichloroethene	5.3	U
67-64-1	Acetone	4.5	J
74-88-4	Iodomethane	5.3	U
75-15-0	Carbon disulfide	5.3	U
75-09-2	Methylene chloride	5.3	U
156-60-5	trans-1,2-Dichloroethene	5.3	U
1634-04-4	Methyl tert-butyl ether	5.3	U
75-34-3	1,1-Dichloroethane	5.3	U
108-05-4	Vinyl acetate	5.3	U
78-93-3	2-Butanone	5.3	U
156-59-2	cis-1,2-Dichloroethene	5.3	U
594-20-7	2,2-Dichloropropane	5.3	U
74-97-5	Bromochloromethane	5.3	U
67-66-3	Chloroform	5.3	U
71-55-6	1,1,1-Trichloroethane	5.3	U
563-58-6	1,1-Dichloropropene	5.3	U
56-23-5	Carbon tetrachloride	5.3	U
107-06-2	1,2-Dichloroethane	5.3	U
71-43-2	Benzene	5.3	U
79-01-6	Trichloroethene	5.3	U
78-87-5	1,2-Dichloropropane	5.3	U
74-95-3	Dibromomethane	5.3	U
75-27-4	Bromodichloromethane	5.3	U
10061-01-5	cis-1,3-Dichloropropene	5.3	U
108-10-1	4-Methyl-2-pentanone	5.3	U
108-88-3	Toluene	5.3	U
10061-02-6	trans-1,3-Dichloropropene	5.3	U
79-00-5	1,1,2-Trichloroethane	5.3	U
142-28-9	1,3-Dichloropropane	5.3	U

Handwritten signature and date: 9/1/11

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SG-78 (4-5')

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0791-02A
Sample wt/vol: 5.20 (g/mL) G Lab File ID: V8A3684.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/10/2011
% Moisture: not dec. 10 Date Analyzed: 05/11/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{G/KG}$	Q
127-18-4	Tetrachloroethene	5.3	U
591-78-6	2-Hexanone	5.3	U
124-48-1	Dibromochloromethane	5.3	U
106-93-4	1,2-Dibromoethane	5.3	U
108-90-7	Chlorobenzene	5.3	U
630-20-6	1,1,1,2-Tetrachloroethane	5.3	U
100-41-4	Ethylbenzene	5.3	U
1330-20-7	m,p-Xylene	5.3	U
95-47-6	o-Xylene	5.3	U
1330-20-7	Xylene (Total)	5.3	U
100-42-5	Styrene	5.3	U
75-25-2	Bromoform	5.3	U
98-82-8	Isopropylbenzene	5.3	U
79-34-5	1,1,2,2-Tetrachloroethane	5.3	U
108-86-1	Bromobenzene	5.3	U
96-18-4	1,2,3-Trichloropropane	5.3	U
103-65-1	n-Propylbenzene	5.3	U
95-49-8	2-Chlorotoluene	5.3	U
108-67-8	1,3,5-Trimethylbenzene	5.3	U
106-43-4	4-Chlorotoluene	5.3	U
98-06-6	tert-Butylbenzene	5.3	U
95-63-6	1,2,4-Trimethylbenzene	5.3	U
135-98-8	sec-Butylbenzene	5.3	U
99-87-6	4-Isopropyltoluene	5.3	U
541-73-1	1,3-Dichlorobenzene	5.3	U
106-46-7	1,4-Dichlorobenzene	5.3	U
104-51-8	n-Butylbenzene	5.3	U
95-50-1	1,2-Dichlorobenzene	5.3	U
96-12-8	1,2-Dibromo-3-chloropropane	5.3	U
120-82-1	1,2,4-Trichlorobenzene	5.3	U
87-68-3	Hexachlorobutadiene	5.3	U
87-61-6	1,2,3-Trichlorobenzene	5.3	U
91-20-3	Naphthalene	5.3	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.3	U
123-91-1	1,4-Dioxane	110	U B

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SG-78 (4-5')

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0791-02A
Sample wt/vol: 5.20 (g/mL) G Lab File ID: V8A3684.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/10/2011
% Moisture: not dec. 10 Date Analyzed: 05/11/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µG/KG	
110-82-7	Cyclohexane		5.3	U
79-20-9	Methyl acetate		5.3	U
108-87-2	Methylcyclohexane		5.3	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SG-78 (4-5')

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0791-02A
Sample wt/vol: 5.20 (g/mL) G Lab File ID: V8A3684.D
Level: (TRACE or LOW/MED) LOW Date Received: 05/10/2011
% Moisture: not dec. 10 Date Analyzed: 05/11/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) µG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SG-79 (7-8')

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0791-01A
Sample wt/vol: 5.10 (g/mL) G Lab File ID: V8A3683.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/10/2011
% Moisture: not dec. 11 Date Analyzed: 05/11/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/KG	Q
75-71-8	Dichlorodifluoromethane	5.5	U
74-87-3	Chloromethane	5.5	U
75-01-4	Vinyl chloride	5.5	U
74-83-9	Bromomethane	5.5	U
75-00-3	Chloroethane	5.5	U
75-69-4	Trichlorofluoromethane	5.5	U
75-35-4	1,1-Dichloroethene	5.5	U
67-64-1	Acetone	7.6	3
74-88-4	Iodomethane	5.5	U
75-15-0	Carbon disulfide	5.5	U
75-09-2	Methylene chloride	5.5	U
156-60-5	trans-1,2-Dichloroethene	5.5	U
1634-04-4	Methyl tert-butyl ether	5.5	U
75-34-3	1,1-Dichloroethane	5.5	U
108-05-4	Vinyl acetate	5.5	U
78-93-3	2-Butanone	5.5	U-B
156-59-2	cis-1,2-Dichloroethene	5.5	U
594-20-7	2,2-Dichloropropane	5.5	U
74-97-5	Bromochloromethane	5.5	U
67-66-3	Chloroform	5.5	U
71-55-6	1,1,1-Trichloroethane	5.5	U
563-58-6	1,1-Dichloropropene	5.5	U
56-23-5	Carbon tetrachloride	5.5	U
107-06-2	1,2-Dichloroethane	5.5	U
71-43-2	Benzene	5.5	U
79-01-6	Trichloroethene	5.5	U
78-87-5	1,2-Dichloropropane	5.5	U
74-95-3	Dibromomethane	5.5	U
75-27-4	Bromodichloromethane	5.5	U
10061-01-5	cis-1,3-Dichloropropene	5.5	U
108-10-1	4-Methyl-2-pentanone	5.5	U
108-88-3	Toluene	5.5	U
10061-02-6	trans-1,3-Dichloropropene	5.5	U
79-00-5	1,1,2-Trichloroethane	5.5	U
142-28-9	1,3-Dichloropropane	5.5	U

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SG-79 (7-8')

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0791-01A
Sample wt/vol: 5.10 (g/mL) G Lab File ID: V8A3683.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/10/2011
% Moisture: not dec. 11 Date Analyzed: 05/11/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{G/KG}$	Q
127-18-4	Tetrachloroethene	5.5	U
591-78-6	2-Hexanone	5.5	U
124-48-1	Dibromochloromethane	5.5	U
106-93-4	1,2-Dibromoethane	5.5	U
108-90-7	Chlorobenzene	5.5	U
630-20-6	1,1,1,2-Tetrachloroethane	5.5	U
100-41-4	Ethylbenzene	5.5	U
1330-20-7	m,p-Xylene	5.5	U
95-47-6	o-Xylene	5.5	U
1330-20-7	Xylene (Total)	5.5	U
100-42-5	Styrene	5.5	U
75-25-2	Bromoform	5.5	U
98-82-8	Isopropylbenzene	5.5	U
79-34-5	1,1,2,2-Tetrachloroethane	5.5	U
108-86-1	Bromobenzene	5.5	U
96-18-4	1,2,3-Trichloropropane	5.5	U
103-65-1	n-Propylbenzene	5.5	U
95-49-8	2-Chlorotoluene	5.5	U
108-67-8	1,3,5-Trimethylbenzene	5.5	U
106-43-4	4-Chlorotoluene	5.5	U
98-06-6	tert-Butylbenzene	5.5	U
95-63-6	1,2,4-Trimethylbenzene	5.5	U
135-98-8	sec-Butylbenzene	5.5	U
99-87-6	4-Isopropyltoluene	5.5	U
541-73-1	1,3-Dichlorobenzene	5.5	U
106-46-7	1,4-Dichlorobenzene	5.5	U
104-51-8	n-Butylbenzene	5.5	U
95-50-1	1,2-Dichlorobenzene	5.5	U
96-12-8	1,2-Dibromo-3-chloropropane	5.5	U
120-82-1	1,2,4-Trichlorobenzene	5.5	U
87-68-3	Hexachlorobutadiene	5.5	U
87-61-6	1,2,3-Trichlorobenzene	5.5	U
91-20-3	Naphthalene	5.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.5	U
123-91-1	1,4-Dioxane	110	U R

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SG-79 (7-8')

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0791-01A
Sample wt/vol: 5.10 (g/mL) G Lab File ID: V8A3683.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/10/2011
% Moisture: not dec. 11 Date Analyzed: 05/11/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{G/KG}$	Q
110-82-7	Cyclohexane	5.5	U
79-20-9	Methyl acetate	5.5	U
108-87-2	Methylcyclohexane	5.5	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SG-79 (7-8')

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0791-01A
Sample wt/vol: 5.10 (g/mL) G Lab File ID: V8A3683.D
Level: (TRACE or LOW/MED) LOW Date Received: 05/10/2011
% Moisture: not dec. 11 Date Analyzed: 05/11/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SG-80 (7-8')

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0791-10A
Sample wt/vol: 5.50 (g/mL) G Lab File ID: V8A3692.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/10/2011
% Moisture: not dec. 8.2 Date Analyzed: 05/11/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{g/Kg}$	Q
75-71-8	Dichlorodifluoromethane	4.9	U
74-87-3	Chloromethane	4.9	U
75-01-4	Vinyl chloride	4.9	U
74-83-9	Bromomethane	4.9	U
75-00-3	Chloroethane	4.9	U
75-69-4	Trichlorofluoromethane	4.9	U
75-35-4	1,1-Dichloroethene	4.9	U
67-64-1	Acetone	3.9	J
74-88-4	Iodomethane	4.9	U
75-15-0	Carbon disulfide	4.9	U
75-09-2	Methylene chloride	4.9	U
156-60-5	trans-1,2-Dichloroethene	4.9	U
1634-04-4	Methyl tert-butyl ether	4.9	U
75-34-3	1,1-Dichloroethane	4.9	U
108-05-4	Vinyl acetate	4.9	U
78-93-3	2-Butanone	4.9	U-B
156-59-2	cis-1,2-Dichloroethene	4.9	U
594-20-7	2,2-Dichloropropane	4.9	U
74-97-5	Bromochloromethane	4.9	U
67-66-3	Chloroform	4.9	U
71-55-6	1,1,1-Trichloroethane	4.9	U
563-58-6	1,1-Dichloropropene	4.9	U
56-23-5	Carbon tetrachloride	4.9	U
107-06-2	1,2-Dichloroethane	4.9	U
71-43-2	Benzene	4.9	U
79-01-6	Trichloroethene	4.9	U
78-87-5	1,2-Dichloropropane	4.9	U
74-95-3	Dibromomethane	4.9	U
75-27-4	Bromodichloromethane	4.9	U
10061-01-5	cis-1,3-Dichloropropene	4.9	U
108-10-1	4-Methyl-2-pentanone	4.9	U
108-88-3	Toluene	4.9	U
10061-02-6	trans-1,3-Dichloropropene	4.9	U
79-00-5	1,1,2-Trichloroethane	4.9	U
142-28-9	1,3-Dichloropropane	4.9	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SG-80 (7-8')

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0791-10A
Sample wt/vol: 5.50 (g/mL) G Lab File ID: V8A3692.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/10/2011
% Moisture: not dec. 8.2 Date Analyzed: 05/11/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{G/KG}$	Q
127-18-4	Tetrachloroethene	4.9	U
591-78-6	2-Hexanone	4.9	U
124-48-1	Dibromochloromethane	4.9	U
106-93-4	1,2-Dibromoethane	4.9	U
108-90-7	Chlorobenzene	4.9	U
630-20-6	1,1,1,2-Tetrachloroethane	4.9	U
100-41-4	Ethylbenzene	4.9	U
1330-20-7	m,p-Xylene	4.9	U
95-47-6	o-Xylene	4.9	U
1330-20-7	Xylene (Total)	4.9	U
100-42-5	Styrene	4.9	U
75-25-2	Bromoform	4.9	U
98-82-8	Isopropylbenzene	4.9	U
79-34-5	1,1,2,2-Tetrachloroethane	4.9	U
108-86-1	Bromobenzene	4.9	U
96-18-4	1,2,3-Trichloropropane	4.9	U
103-65-1	n-Propylbenzene	4.9	U
95-49-8	2-Chlorotoluene	4.9	U
108-67-8	1,3,5-Trimethylbenzene	4.9	U
106-43-4	4-Chlorotoluene	4.9	U
98-06-6	tert-Butylbenzene	4.9	U
95-63-6	1,2,4-Trimethylbenzene	4.9	U
135-98-8	sec-Butylbenzene	4.9	U
99-87-6	4-Isopropyltoluene	4.9	U
541-73-1	1,3-Dichlorobenzene	4.9	U
106-46-7	1,4-Dichlorobenzene	4.9	U
104-51-8	n-Butylbenzene	4.9	U
95-50-1	1,2-Dichlorobenzene	4.9	U
96-12-8	1,2-Dibromo-3-chloropropane	4.9	U
120-82-1	1,2,4-Trichlorobenzene	4.9	U
87-68-3	Hexachlorobutadiene	4.9	U
87-61-6	1,2,3-Trichlorobenzene	4.9	U
91-20-3	Naphthalene	4.9	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	4.9	U
123-91-1	1,4-Dioxane	4.9	U-B

Handwritten signature/initials

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SG-80 (7-8')

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0791-10A
Sample wt/vol: 5.50 (g/mL) G Lab File ID: V8A3692.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/10/2011
% Moisture: not dec. 8.2 Date Analyzed: 05/11/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µG/KG	
110-82-7	Cyclohexane		4.9	U
79-20-9	Methyl acetate		4.9	U
108-87-2	Methylcyclohexane		4.9	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SG-80 (7-8')

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0791-10A
Sample wt/vol: 5.50 (g/mL) G Lab File ID: V8A3692.D
Level: (TRACE or LOW/MED) LOW Date Received: 05/10/2011
% Moisture: not dec. 8.2 Date Analyzed: 05/11/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SG-81 (7-8')

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0791-09A
Sample wt/vol: 5.20 (g/mL) G Lab File ID: V8A3691.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/10/2011
% Moisture: not dec. 8.0 Date Analyzed: 05/11/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/KG	Q
75-71-8	Dichlorodifluoromethane	5.2	U
74-87-3	Chloromethane	5.2	U
75-01-4	Vinyl chloride	5.2	U
74-83-9	Bromomethane	5.2	U
75-00-3	Chloroethane	5.2	U
75-69-4	Trichlorofluoromethane	5.2	U
75-35-4	1,1-Dichloroethene	5.2	U
67-64-1	Acetone	2.5	J
74-88-4	Iodomethane	5.2	U
75-15-0	Carbon disulfide	5.2	U
75-09-2	Methylene chloride	5.2	U
156-60-5	trans-1,2-Dichloroethene	5.2	U
1634-04-4	Methyl tert-butyl ether	5.2	U
75-34-3	1,1-Dichloroethane	5.2	U
108-05-4	Vinyl acetate	5.2	U
78-93-3	2-Butanone	5.2	U <i>B</i>
156-59-2	cis-1,2-Dichloroethene	5.2	U
594-20-7	2,2-Dichloropropane	5.2	U
74-97-5	Bromochloromethane	5.2	U
67-66-3	Chloroform	5.2	U
71-55-6	1,1,1-Trichloroethane	5.2	U
563-58-6	1,1-Dichloropropene	5.2	U
56-23-5	Carbon tetrachloride	5.2	U
107-06-2	1,2-Dichloroethane	5.2	U
71-43-2	Benzene	5.2	U
79-01-6	Trichloroethene	5.2	U
78-87-5	1,2-Dichloropropane	5.2	U
74-95-3	Dibromomethane	5.2	U
75-27-4	Bromodichloromethane	5.2	U
10061-01-5	cis-1,3-Dichloropropene	5.2	U
108-10-1	4-Methyl-2-pentanone	5.2	U
108-88-3	Toluene	5.2	U
10061-02-6	trans-1,3-Dichloropropene	5.2	U
79-00-5	1,1,2-Trichloroethane	5.2	U
142-28-9	1,3-Dichloropropane	5.2	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SG-81 (7-8')

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0791-09A
Sample wt/vol: 5.20 (g/mL) G Lab File ID: V8A3691.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/10/2011
% Moisture: not dec. 8.0 Date Analyzed: 05/11/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{G/KG}$	Q
127-18-4	Tetrachloroethene	5.2	U
591-78-6	2-Hexanone	5.2	U
124-48-1	Dibromochloromethane	5.2	U
106-93-4	1,2-Dibromoethane	5.2	U
108-90-7	Chlorobenzene	5.2	U
630-20-6	1,1,1,2-Tetrachloroethane	5.2	U
100-41-4	Ethylbenzene	5.2	U
1330-20-7	m,p-Xylene	5.2	U
95-47-6	o-Xylene	5.2	U
1330-20-7	Xylene (Total)	5.2	U
100-42-5	Styrene	5.2	U
75-25-2	Bromoform	5.2	U
98-82-8	Isopropylbenzene	5.2	U
79-34-5	1,1,2,2-Tetrachloroethane	5.2	U
108-86-1	Bromobenzene	5.2	U
96-18-4	1,2,3-Trichloropropane	5.2	U
103-65-1	n-Propylbenzene	5.2	U
95-49-8	2-Chlorotoluene	5.2	U
108-67-8	1,3,5-Trimethylbenzene	5.2	U
106-43-4	4-Chlorotoluene	5.2	U
98-06-6	tert-Butylbenzene	5.2	U
95-63-6	1,2,4-Trimethylbenzene	5.2	U
135-98-8	sec-Butylbenzene	5.2	U
99-87-6	4-Isopropyltoluene	5.2	U
541-73-1	1,3-Dichlorobenzene	5.2	U
106-46-7	1,4-Dichlorobenzene	5.2	U
104-51-8	n-Butylbenzene	5.2	U
95-50-1	1,2-Dichlorobenzene	5.2	U
96-12-8	1,2-Dibromo-3-chloropropane	5.2	U
120-82-1	1,2,4-Trichlorobenzene	5.2	U
87-68-3	Hexachlorobutadiene	5.2	U
87-61-6	1,2,3-Trichlorobenzene	5.2	U
91-20-3	Naphthalene	5.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.2	U
123-91-1	1,4-Dioxane	100	U R

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SG-81 (7-8')

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0791-09A
Sample wt/vol: 5.20 (g/mL) G Lab File ID: V8A3691.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/10/2011
% Moisture: not dec. 8.0 Date Analyzed: 05/11/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/KG
110-82-7	Cyclohexane	5.2	U
79-20-9	Methyl acetate	5.2	U
108-87-2	Methylcyclohexane	5.2	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SG-81 (7-8')

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0791-09A
Sample wt/vol: 5.20 (g/mL) G Lab File ID: V8A3691.D
Level: (TRACE or LOW/MED) LOW Date Received: 05/10/2011
% Moisture: not dec. 8.0 Date Analyzed: 05/11/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) µG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SG-82 (7-8')

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0791-08A
Sample wt/vol: 5.00 (g/mL) G Lab File ID: V8A3690.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/10/2011
% Moisture: not dec. 15 Date Analyzed: 05/11/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{G/KG}$	Q
75-71-8	Dichlorodifluoromethane	5.9	U
74-87-3	Chloromethane	5.9	U
75-01-4	Vinyl chloride	5.9	U
74-83-9	Bromomethane	5.9	U
75-00-3	Chloroethane	5.9	U
75-69-4	Trichlorofluoromethane	5.9	U
75-35-4	1,1-Dichloroethene	5.9	U
67-64-1	Acetone	2.9	J
74-88-4	Iodomethane	5.9	U
75-15-0	Carbon disulfide	5.9	U
75-09-2	Methylene chloride	5.9	U
156-60-5	trans-1,2-Dichloroethene	5.9	U
1634-04-4	Methyl tert-butyl ether	5.9	U
75-34-3	1,1-Dichloroethane	5.9	U
108-05-4	Vinyl acetate	5.9	U
78-93-3	2-Butanone	5.9	U <i>B</i>
156-59-2	cis-1,2-Dichloroethene	5.9	U
594-20-7	2,2-Dichloropropane	5.9	U
74-97-5	Bromochloromethane	5.9	U
67-66-3	Chloroform	5.9	U
71-55-6	1,1,1-Trichloroethane	5.9	U
563-58-6	1,1-Dichloropropene	5.9	U
56-23-5	Carbon tetrachloride	5.9	U
107-06-2	1,2-Dichloroethane	5.9	U
71-43-2	Benzene	5.9	U
79-01-6	Trichloroethene	5.9	U
78-87-5	1,2-Dichloropropane	5.9	U
74-95-3	Dibromomethane	5.9	U
75-27-4	Bromodichloromethane	5.9	U
10061-01-5	cis-1,3-Dichloropropene	5.9	U
108-10-1	4-Methyl-2-pentanone	5.9	U
108-88-3	Toluene	5.9	U
10061-02-6	trans-1,3-Dichloropropene	5.9	U
79-00-5	1,1,2-Trichloroethane	5.9	U
142-28-9	1,3-Dichloropropane	5.9	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SG-82 (7-8')

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0791-08A
Sample wt/vol: 5.00 (g/mL) G Lab File ID: V8A3690.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/10/2011
% Moisture: not dec. 15 Date Analyzed: 05/11/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{g/Kg}$	Q
127-18-4	Tetrachloroethene	1.4	J
591-78-6	2-Hexanone	5.9	U
124-48-1	Dibromochloromethane	5.9	U
106-93-4	1,2-Dibromoethane	5.9	U
108-90-7	Chlorobenzene	5.9	U
630-20-6	1,1,1,2-Tetrachloroethane	5.9	U
100-41-4	Ethylbenzene	5.9	U
1330-20-7	m,p-Xylene	5.9	U
95-47-6	o-Xylene	5.9	U
1330-20-7	Xylene (Total)	5.9	U
100-42-5	Styrene	5.9	U
75-25-2	Bromoform	5.9	U
98-82-8	Isopropylbenzene	5.9	U
79-34-5	1,1,2,2-Tetrachloroethane	5.9	U
108-86-1	Bromobenzene	5.9	U
96-18-4	1,2,3-Trichloropropane	5.9	U
103-65-1	n-Propylbenzene	5.9	U
95-49-8	2-Chlorotoluene	5.9	U
108-67-8	1,3,5-Trimethylbenzene	5.9	U
106-43-4	4-Chlorotoluene	5.9	U
98-06-6	tert-Butylbenzene	5.9	U
95-63-6	1,2,4-Trimethylbenzene	5.9	U
135-98-8	sec-Butylbenzene	5.9	U
99-87-6	4-Isopropyltoluene	5.9	U
541-73-1	1,3-Dichlorobenzene	5.9	U
106-46-7	1,4-Dichlorobenzene	5.9	U
104-51-8	n-Butylbenzene	5.9	U
95-50-1	1,2-Dichlorobenzene	5.9	U
96-12-8	1,2-Dibromo-3-chloropropane	5.9	U
120-82-1	1,2,4-Trichlorobenzene	5.9	U
87-68-3	Hexachlorobutadiene	5.9	U
87-61-6	1,2,3-Trichlorobenzene	5.9	U
91-20-3	Naphthalene	5.9	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.9	U
123-91-1	1,4-Dioxane	120	U R

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SG-82 (7-8')

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0791-08A
Sample wt/vol: 5.00 (g/mL) G Lab File ID: V8A3690.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/10/2011
% Moisture: not dec. 15 Date Analyzed: 05/11/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	µG/KG
110-82-7	Cyclohexane	5.9	U
79-20-9	Methyl acetate	5.9	U
108-87-2	Methylcyclohexane	5.9	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SG-82 (7-8')

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0791-08A
Sample wt/vol: 5.00 (g/mL) G Lab File ID: V8A3690.D
Level: (TRACE or LOW/MED) LOW Date Received: 05/10/2011
% Moisture: not dec. 15 Date Analyzed: 05/11/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SG-83 (7-8')

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0791-07A
Sample wt/vol: 5.10 (g/mL) G Lab File ID: V8A3716.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/10/2011
% Moisture: not dec. 15 Date Analyzed: 05/12/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{G/KG}$	Q
75-71-8	Dichlorodifluoromethane	5.8	U
74-87-3	Chloromethane	5.8	U
75-01-4	Vinyl chloride	5.8	U
74-83-9	Bromomethane	5.8	U
75-00-3	Chloroethane	5.8	U
75-69-4	Trichlorofluoromethane	5.8	U
75-35-4	1,1-Dichloroethene	5.8	U
67-64-1	Acetone	3.5	J
74-88-4	Iodomethane	5.8	U
75-15-0	Carbon disulfide	5.8	U
75-09-2	Methylene chloride	5.8	U
156-60-5	trans-1,2-Dichloroethene	5.8	U
1634-04-4	Methyl tert-butyl ether	5.8	U
75-34-3	1,1-Dichloroethane	5.8	U
108-05-4	Vinyl acetate	5.8	U
78-93-3	2-Butanone	5.8	U-B
156-59-2	cis-1,2-Dichloroethene	5.8	U
594-20-7	2,2-Dichloropropane	5.8	U
74-97-5	Bromochloromethane	5.8	U
67-66-3	Chloroform	5.8	U
71-55-6	1,1,1-Trichloroethane	5.8	U
563-58-6	1,1-Dichloropropene	5.8	U
56-23-5	Carbon tetrachloride	5.8	U
107-06-2	1,2-Dichloroethane	5.8	U
71-43-2	Benzene	5.8	U
79-01-6	Trichloroethene	5.8	U
78-87-5	1,2-Dichloropropane	5.8	U
74-95-3	Dibromomethane	5.8	U
75-27-4	Bromodichloromethane	5.8	U
10061-01-5	cis-1,3-Dichloropropene	5.8	U
108-10-1	4-Methyl-2-pentanone	5.8	U
108-88-3	Toluene	1.5	J
10061-02-6	trans-1,3-Dichloropropene	5.8	U
79-00-5	1,1,2-Trichloroethane	5.8	U
142-28-9	1,3-Dichloropropane	5.8	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SG-83 (7-8')

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0791-07A
Sample wt/vol: 5.10 (g/mL) G Lab File ID: V8A3716.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/10/2011
% Moisture: not dec. 15 Date Analyzed: 05/12/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{G/KG}$	Q
127-18-4	Tetrachloroethene	11	
591-78-6	2-Hexanone	5.8	U
124-48-1	Dibromochloromethane	5.8	U
106-93-4	1,2-Dibromoethane	5.8	U
108-90-7	Chlorobenzene	5.8	U
630-20-6	1,1,1,2-Tetrachloroethane	5.8	U
100-41-4	Ethylbenzene	5.8	U
1330-20-7	m,p-Xylene	5.8	U
95-47-6	o-Xylene	5.8	U
1330-20-7	Xylene (Total)	5.8	U
100-42-5	Styrene	5.8	U
75-25-2	Bromoform	5.8	U
98-82-8	Isopropylbenzene	5.8	U
79-34-5	1,1,2,2-Tetrachloroethane	5.8	U
108-86-1	Bromobenzene	5.8	U
96-18-4	1,2,3-Trichloropropane	5.8	U
103-65-1	n-Propylbenzene	5.8	U
95-49-8	2-Chlorotoluene	5.8	U
108-67-8	1,3,5-Trimethylbenzene	5.8	U
106-43-4	4-Chlorotoluene	5.8	U
98-06-6	tert-Butylbenzene	5.8	U
95-63-6	1,2,4-Trimethylbenzene	5.8	U
135-98-8	sec-Butylbenzene	5.8	U
99-87-6	4-Isopropyltoluene	5.8	U
541-73-1	1,3-Dichlorobenzene	5.8	U
106-46-7	1,4-Dichlorobenzene	5.8	U
104-51-8	n-Butylbenzene	5.8	U
95-50-1	1,2-Dichlorobenzene	5.8	U
96-12-8	1,2-Dibromo-3-chloropropane	5.8	U
120-82-1	1,2,4-Trichlorobenzene	5.8	U
87-68-3	Hexachlorobutadiene	5.8	U
87-61-6	1,2,3-Trichlorobenzene	5.8	U
91-20-3	Naphthalene	5.8	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.8	U
123-91-1	1,4-Dioxane	120	U R

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SG-83 (7-8')

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0791-07A
Sample wt/vol: 5.10 (g/mL) G Lab File ID: V8A3716.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/10/2011
% Moisture: not dec. 15 Date Analyzed: 05/12/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) μ G/KG	Q
110-82-7	Cyclohexane	5.8	U
79-20-9	Methyl acetate	5.8	U
108-87-2	Methylcyclohexane	5.8	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SG-83 (7-8')

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0791-07A
Sample wt/vol: 5.10 (g/mL) G Lab File ID: V8A3716.D
Level: (TRACE or LOW/MED) LOW Date Received: 05/10/2011
% Moisture: not dec. 15 Date Analyzed: 05/12/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) µG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SG-84 (7-8')

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0791-03A
Sample wt/vol: 5.50 (g/mL) G Lab File ID: V8A3685.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/10/2011
% Moisture: not dec. 9.8 Date Analyzed: 05/11/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/KG	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	3.5	J
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SG-84 (7-8')

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0791-03A
Sample wt/vol: 5.50 (g/mL) G Lab File ID: V8A3685.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/10/2011
% Moisture: not dec. 9.8 Date Analyzed: 05/11/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{G/KG}$	Q
127-18-4	Tetrachloroethene	14	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SG-84 (7-8')

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0791-03A
Sample wt/vol: 5.50 (g/mL) G Lab File ID: V8A3685.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/10/2011
% Moisture: not dec. 9.8 Date Analyzed: 05/11/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	µG/KG
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U
108-87-2	Methylcyclohexane	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SG-84 (7-8')

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0791-03A
Sample wt/vol: 5.50 (g/mL) G Lab File ID: V8A3685.D
Level: (TRACE or LOW/MED) LOW Date Received: 05/10/2011
% Moisture: not dec. 9.8 Date Analyzed: 05/11/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) µG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SG-85 (7-8')

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0791-04A
Sample wt/vol: 5.50 (g/mL) G Lab File ID: V8A3686.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/10/2011
% Moisture: not dec. 11 Date Analyzed: 05/11/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{G/KG}$	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	2.8	J
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U-R
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SG-85 (7-8')

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0791-04A
Sample wt/vol: 5.50 (g/mL) G Lab File ID: V8A3686.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/10/2011
% Moisture: not dec. 11 Date Analyzed: 05/11/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µG/KG	
127-18-4	Tetrachloroethene		5.0	U
591-78-6	2-Hexanone		5.0	U
124-48-1	Dibromochloromethane		5.0	U
106-93-4	1,2-Dibromoethane		5.0	U
108-90-7	Chlorobenzene		5.0	U
630-20-6	1,1,1,2-Tetrachloroethane		5.0	U
100-41-4	Ethylbenzene		5.0	U
1330-20-7	m,p-Xylene		5.0	U
95-47-6	o-Xylene		5.0	U
1330-20-7	Xylene (Total)		5.0	U
100-42-5	Styrene		5.0	U
75-25-2	Bromoform		5.0	U
98-82-8	Isopropylbenzene		5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		5.0	U
108-86-1	Bromobenzene		5.0	U
96-18-4	1,2,3-Trichloropropane		5.0	U
103-65-1	n-Propylbenzene		5.0	U
95-49-8	2-Chlorotoluene		5.0	U
108-67-8	1,3,5-Trimethylbenzene		5.0	U
106-43-4	4-Chlorotoluene		5.0	U
98-06-6	tert-Butylbenzene		5.0	U
95-63-6	1,2,4-Trimethylbenzene		5.0	U
135-98-8	sec-Butylbenzene		5.0	U
99-87-6	4-Isopropyltoluene		5.0	U
541-73-1	1,3-Dichlorobenzene		5.0	U
106-46-7	1,4-Dichlorobenzene		5.0	U
104-51-8	n-Butylbenzene		5.0	U
95-50-1	1,2-Dichlorobenzene		5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		5.0	U
120-82-1	1,2,4-Trichlorobenzene		5.0	U
87-68-3	Hexachlorobutadiene		5.0	U
87-61-6	1,2,3-Trichlorobenzene		5.0	U
91-20-3	Naphthalene		5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		5.0	U
123-91-1	1,4-Dioxane		100	U B

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SG-85 (7-8')

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0791-04A
Sample wt/vol: 5.50 (g/mL) G Lab File ID: V8A3686.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/10/2011
% Moisture: not dec. 11 Date Analyzed: 05/11/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	µG/KG
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U
108-87-2	Methylcyclohexane	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SG-85 (7-8')

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0791-04A
Sample wt/vol: 5.50 (g/mL) G Lab File ID: V8A3686.D
Level: (TRACE or LOW/MED) LOW Date Received: 05/10/2011
% Moisture: not dec. 11 Date Analyzed: 05/11/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) µG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SG-86 (7-8')

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM Case No.: K0791

Mod. Ref No.: SDG No.: SK0791

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: K0791-05A

Sample wt/vol: 5.20 (g/mL) G

Lab File ID: V8A3687.D

Level: (TRACE/LOW/MED) LOW

Date Received: 05/10/2011

% Moisture: not dec. 4.0

Date Analyzed: 05/11/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/KG	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	2.9	J
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U. R
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SG-86 (7-8')

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0791-05A
Sample wt/vol: 5.20 (g/mL) G Lab File ID: V8A3687.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/10/2011
% Moisture: not dec. 4.0 Date Analyzed: 05/11/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/KG	Q
127-18-4	Tetrachloroethene	1.4	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SG-86 (7-8')

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0791-05A
Sample wt/vol: 5.20 (g/mL) G Lab File ID: V8A3687.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/10/2011
% Moisture: not dec. 4.0 Date Analyzed: 05/11/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/KG	
110-82-7	Cyclohexane		5.0	U
79-20-9	Methyl acetate		5.0	U
108-87-2	Methylcyclohexane		5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SG-86 (7-8')

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0791-05A
Sample wt/vol: 5.20 (g/mL) G Lab File ID: V8A3687.D
Level: (TRACE or LOW/MED) LOW Date Received: 05/10/2011
% Moisture: not dec. 4.0 Date Analyzed: 05/11/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) µG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SG-87 (7-8')

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0791-06A
Sample wt/vol: 5.60 (g/mL) G Lab File ID: V8A3688.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/10/2011
% Moisture: not dec. 10 Date Analyzed: 05/11/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/KG	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	2.8	J
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U B
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SG-87 (7-8')

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0791-06A
Sample wt/vol: 5.60 (g/mL) G Lab File ID: V8A3688.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/10/2011
% Moisture: not dec. 10 Date Analyzed: 05/11/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{G/KG}$	Q
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	99	U R

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SG-87 (7-8')

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0791-06A
Sample wt/vol: 5.60 (g/mL) G Lab File ID: V8A3688.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/10/2011
% Moisture: not dec. 10 Date Analyzed: 05/11/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µG/KG	
110-82-7	Cyclohexane		5.0	U
79-20-9	Methyl acetate		5.0	U
108-87-2	Methylcyclohexane		5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SG-87 (7-8')

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0791-06A
Sample wt/vol: 5.60 (g/mL) G Lab File ID: V8A3688.D
Level: (TRACE or LOW/MED) LOW Date Received: 05/10/2011
% Moisture: not dec. 10 Date Analyzed: 05/11/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-029D
(75-76')

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0791-12A
Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3H3766.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 16 Decanted: (Y/N) N Date Received: 05/12/2011
Concentrated Extract Volume: 500 (uL) Date Extracted: 05/13/2011
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 05/18/2011
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	190	U
111-44-4	Bis (2-chloroethyl) ether	190	U
95-57-8	2-Chlorophenol	190	U
95-48-7	2-Methylphenol	190	U
108-60-1	2,2'-oxybis (1-Chloropropane)	190	U
621-64-7	N-Nitroso-di-n-propylamine	190	U
67-72-1	Hexachloroethane	190	U
98-95-3	Nitrobenzene	190	U
78-59-1	Isophorone	190	U
88-75-5	2-Nitrophenol	190	U
105-67-9	2,4-Dimethylphenol	190	U
120-83-2	2,4-Dichlorophenol	190	U
91-20-3	Naphthalene	190	U
106-47-8	4-Chloroaniline	190	U-3
111-91-1	Bis (2-chloroethoxy) methane	190	U
87-68-3	Hexachlorobutadiene	190	U
59-50-7	4-Chloro-3-methylphenol	190	U
91-57-6	2-Methylnaphthalene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	390	U
91-58-7	2-Chloronaphthalene	190	U
88-74-4	2-Nitroaniline	390	U
131-11-3	Dimethylphthalate	190	U
208-96-8	Acenaphthylene	190	U
606-20-2	2,6-Dinitrotoluene	190	U
99-09-2	3-Nitroaniline	390	U
83-32-9	Acenaphthene	190	U
51-28-5	2,4-Dinitrophenol	390	U
100-02-7	4-Nitrophenol	390	U-3
132-64-9	Dibenzofuran	190	U
121-14-2	2,4-Dinitrotoluene	190	U
84-66-2	Diethylphthalate	190	U
7005-72-3	4-Chlorophenyl-phenylether	190	U
86-73-7	Fluorene	190	U
100-01-6	4-Nitroaniline	390	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-029D
(75-76')

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0791-12A
Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3H3766.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 16 Decanted: (Y/N) N Date Received: 05/12/2011
Concentrated Extract Volume: 500 (uL) Date Extracted: 05/13/2011
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 05/18/2011
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
534-52-1	4,6-Dinitro-2-methylphenol	390	U
86-30-6	N-Nitrosodiphenylamine	190	U
101-55-3	4-Bromophenyl-phenylether	190	U
118-74-1	Hexachlorobenzene	190	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	190	U
120-12-7	Anthracene	190	U
86-74-8	Carbazole	190	U
84-74-2	Di-n-butylphthalate	190	U
206-44-0	Fluoranthene	190	U
129-00-0	Pyrene	190	U
85-68-7	Butylbenzylphthalate	190	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	190	U
218-01-9	Chrysene	190	U
117-81-7	Bis(2-ethylhexyl)phthalate	190	U
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
50-32-8	Benzo(a)pyrene	190	U
193-39-5	Indeno(1,2,3-cd)pyrene	190	U
53-70-3	Dibenzo(a,h)anthracene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
92-52-4	1,1'-Biphenyl	190	U
111-11-1	3-Methylphenol + 4-Methylphenol	190	U
98-86-2	Acetophenone	190	U
1912-24-9	Atrazine	190	U
100-52-7	Benzaldehyde	190	U
105-60-2	Caprolactam	190	U

Handwritten signature and date: 5/1/11

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-029D
(75-76')

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0791-12A
Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3H3766.D
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 16 Decanted: (Y/N) N Date Received: 05/12/2011
Concentrated Extract Volume: 500 (uL) Date Extracted: 05/13/2011
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 05/18/2011
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	Unknown (3.60670)	3.607	83	J
02	Unknown (3.68683)	3.687	110	J
03	57-10-3 n-Hexadecanoic acid	7.624	380	NJ
04	Unknown (8.20093)	8.201	330	J
05	Unknown (8.27038)	8.270	140	J
06	74685-33-9 3-Eicosene, (E)-	8.302	120	NJ
07	81803-09-0 Thieno[2,3-d]-1,3-thiaselene	8.890	250	NJ
08	Unknown (10.61558)	10.616	130	J

²EPA-designated Registry Number.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-030D
(3.5-4.5')

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0791-11A
Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3H3765.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 6.8 Decanted: (Y/N) N Date Received: 05/10/2011
Concentrated Extract Volume: 500 (uL) Date Extracted: 05/13/2011
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 05/18/2011
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	180	U
111-44-4	Bis (2-chloroethyl) ether	180	U
95-57-8	2-Chlorophenol	180	U
95-48-7	2-Methylphenol	180	U
108-60-1	2,2'-oxybis (1-Chloropropane)	180	U
621-64-7	N-Nitroso-di-n-propylamine	180	U
67-72-1	Hexachloroethane	180	U
98-95-3	Nitrobenzene	180	U
78-59-1	Isophorone	180	U
88-75-5	2-Nitrophenol	180	U
105-67-9	2,4-Dimethylphenol	180	U
120-83-2	2,4-Dichlorophenol	180	U
91-20-3	Naphthalene	180	U
106-47-8	4-Chloroaniline	180	U 3
111-91-1	Bis (2-chloroethoxy) methane	180	U
87-68-3	Hexachlorobutadiene	180	U
59-50-7	4-Chloro-3-methylphenol	180	U
91-57-6	2-Methylnaphthalene	180	U
77-47-4	Hexachlorocyclopentadiene	180	U
88-06-2	2,4,6-Trichlorophenol	180	U
95-95-4	2,4,5-Trichlorophenol	360	U
91-58-7	2-Chloronaphthalene	180	U
88-74-4	2-Nitroaniline	360	U
131-11-3	Dimethylphthalate	180	U
208-96-8	Acenaphthylene	180	U
606-20-2	2,6-Dinitrotoluene	180	U
99-09-2	3-Nitroaniline	360	U
83-32-9	Acenaphthene	180	U
51-28-5	2,4-Dinitrophenol	360	U
100-02-7	4-Nitrophenol	360	U 3
132-64-9	Dibenzofuran	180	U
121-14-2	2,4-Dinitrotoluene	180	U
84-66-2	Diethylphthalate	180	U
7005-72-3	4-Chlorophenyl-phenylether	180	U
86-73-7	Fluorene	180	U
100-01-6	4-Nitroaniline	360	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-030D
(3.5-4.5')

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0791-11A
Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3H3765.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 6.8 Decanted: (Y/N) N Date Received: 05/10/2011
Concentrated Extract Volume: 500 (uL) Date Extracted: 05/13/2011
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 05/18/2011
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
534-52-1	4,6-Dinitro-2-methylphenol	360	U
86-30-6	N-Nitrosodiphenylamine	180	U
101-55-3	4-Bromophenyl-phenylether	180	U
118-74-1	Hexachlorobenzene	180	U
87-86-5	Pentachlorophenol	360	U
85-01-8	Phenanthrene	46	J
120-12-7	Anthracene	180	U
86-74-8	Carbazole	180	U
84-74-2	Di-n-butylphthalate	130	J
206-44-0	Fluoranthene	110	J
129-00-0	Pyrene	160	J
85-68-7	Butylbenzylphthalate	180	U
91-94-1	3,3'-Dichlorobenzidine	180	U
56-55-3	Benzo(a)anthracene	73	J
218-01-9	Chrysene	83	J
117-81-7	Bis(2-ethylhexyl)phthalate	75	J
117-84-0	Di-n-octylphthalate	180	U
205-99-2	Benzo(b)fluoranthene	96	J
207-08-9	Benzo(k)fluoranthene	56	J
50-32-8	Benzo(a)pyrene	92	J
193-39-5	Indeno(1,2,3-cd)pyrene	58	J
53-70-3	Dibenzo(a,h)anthracene	23	J
191-24-2	Benzo(g,h,i)perylene	72	J
92-52-4	1,1'-Biphenyl	180	U
111-11-1	3-Methylphenol + 4-Methylphenol	180	U
98-86-2	Acetophenone	180	U
1912-24-9	Atrazine	180	U
100-52-7	Benzaldehyde	180	U
105-60-2	Caprolactam	180	U

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-030D
(3.5-4.5')

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0791-11A
Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3H3765.D
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 6.8 Decanted: (Y/N) N Date Received: 05/10/2011
Concentrated Extract Volume: 500 (uL) Date Extracted: 05/13/2011
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 05/18/2011
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	88-19-7	Benzenesulfonamide, 2-methyl	6.469	72	NJ
02	70-55-3	Benzenesulfonamide, 4-methyl	6.635	140	NJ

²EPA-designated Registry Number.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-044D (4-5')

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0807 Mod. Ref No.: _____ SDG No.: SK0807
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0807-02A
Sample wt/vol: 300 (g/mL) ML Lab File ID: S3H3750.D
Level: (LOW/MED) LOW Extraction: (Type) SEPF
% Moisture: _____ Decanted: (Y/N) _____ Date Received: 05/12/2011
Concentrated Extract Volume: 1000 (uL) Date Extracted: 05/17/2011
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 05/17/2011
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
106-46-7	1,4-Dichlorobenzene		33	U
95-48-7	2-Methylphenol		33	U
106-44-5	4-Methylphenol		33	U
67-72-1	Hexachloroethane		33	U
98-95-3	Nitrobenzene		33	U
87-68-3	Hexachlorobutadiene		33	U-5
88-06-2	2,4,6-Trichlorophenol		33	U
95-95-4	2,4,5-Trichlorophenol		67	U
121-14-2	2,4-Dinitrotoluene		33	U
118-74-1	Hexachlorobenzene		33	U
87-86-5	Pentachlorophenol		67	U
110-86-1	Pyridine		67	U-5

W. J. K.
8/2/11

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-065D(9-10')

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K0910 Mod. Ref No.: _____ SDG No.: SK0910
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0910-03A
Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3H4109.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 10 Decanted: (Y/N) N Date Received: 05/27/2011
Concentrated Extract Volume: 500 (uL) Date Extracted: 06/02/2011
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 06/06/2011
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	180	U
111-44-4	Bis(2-chloroethyl)ether	180	U
95-57-8	2-Chlorophenol	180	U
95-48-7	2-Methylphenol	180	U
108-60-1	2,2'-oxybis(1-Chloropropane)	180	U
621-64-7	N-Nitroso-di-n-propylamine	180	U
67-72-1	Hexachloroethane	180	U
98-95-3	Nitrobenzene	180	U-5
78-59-1	Isophorone	180	U
88-75-5	2-Nitrophenol	180	U
105-67-9	2,4-Dimethylphenol	180	U
120-83-2	2,4-Dichlorophenol	180	U
91-20-3	Naphthalene	180	U
106-47-8	4-Chloroaniline	180	U
111-91-1	Bis(2-chloroethoxy)methane	180	U
87-68-3	Hexachlorobutadiene	180	U
59-50-7	4-Chloro-3-methylphenol	180	U
91-57-6	2-Methylnaphthalene	180	U-5
77-47-4	Hexachlorocyclopentadiene	180	U
88-06-2	2,4,6-Trichlorophenol	180	U
95-95-4	2,4,5-Trichlorophenol	370	U
91-58-7	2-Chloronaphthalene	180	U
88-74-4	2-Nitroaniline	370	U
131-11-3	Dimethylphthalate	180	U
208-96-8	Acenaphthylene	180	U
606-20-2	2,6-Dinitrotoluene	180	U
99-09-2	3-Nitroaniline	370	U
83-32-9	Acenaphthene	180	U
51-28-5	2,4-Dinitrophenol	370	U-5
100-02-7	4-Nitrophenol	370	U
132-64-9	Dibenzofuran	180	U
121-14-2	2,4-Dinitrotoluene	180	U
84-66-2	Diethylphthalate	180	U
7005-72-3	4-Chlorophenyl-phenylether	180	U
86-73-7	Fluorene	180	U
100-01-6	4-Nitroaniline	370	U

Handwritten signature
8/4/11

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-065D(9-10')

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K0910 Mod. Ref No.: _____ SDG No.: SK0910
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0910-03A
Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3H4109.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 10 Decanted: (Y/N) N Date Received: 05/27/2011
Concentrated Extract Volume: 500 (uL) Date Extracted: 06/02/2011
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 06/06/2011
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
534-52-1	4,6-Dinitro-2-methylphenol	370	U
86-30-6	N-Nitrosodiphenylamine	180	U
101-55-3	4-Bromophenyl-phenylether	180	U
118-74-1	Hexachlorobenzene	180	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	180	U
120-12-7	Anthracene	180	U
86-74-8	Carbazole	180	U
84-74-2	Di-n-butylphthalate	180	U
206-44-0	Fluoranthene	180	U
129-00-0	Pyrene	180	U
85-68-7	Butylbenzylphthalate	180	U
91-94-1	3,3'-Dichlorobenzidine	180	U
56-55-3	Benzo(a)anthracene	180	U
218-01-9	Chrysene	180	U
117-81-7	Bis(2-ethylhexyl)phthalate	260	
117-84-0	Di-n-octylphthalate	180	U
205-99-2	Benzo(b)fluoranthene	180	U
207-08-9	Benzo(k)fluoranthene	180	U
50-32-8	Benzo(a)pyrene	180	U
193-39-5	Indeno(1,2,3-cd)pyrene	180	U
53-70-3	Dibenzo(a,h)anthracene	180	U
191-24-2	Benzo(g,h,i)perylene	180	U
92-52-4	1,1'-Biphenyl	180	U
111-11-1	3-Methylphenol + 4-Methylphenol	180	U
98-86-2	Acetophenone	180	U
1912-24-9	Atrazine	180	U
100-52-7	Benzaldehyde	180	U
105-60-2	Caprolactam	180	U

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-065D(9-10')

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K0910 Mod. Ref No.: _____ SDG No.: SK0910
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0910-03A
Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3H4109.D
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 10 Decanted: (Y/N) N Date Received: 05/27/2011
Concentrated Extract Volume: 500 (uL) Date Extracted: 06/02/2011
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 06/06/2011
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown (2.04600)	2.046	98	J
02	143-07-7	Dodecanoic acid	5.241	120	NJ
03	544-63-8	Tetradecanoic acid	5.988	110	NJ
04	57-10-3	n-Hexadecanoic acid	6.683	810	BNJ
05	127062-51-5	13-Hexyloxacyclotridec-10-en	6.998	320	NJ
06	17309-05-6	9,15-Octadecadienoic acid, m	7.078	240	NJ
07	56554-49-5	16-Octadecenoic acid, methyl	7.100	200	NJ
08	56554-35-9	9,17-Octadecadienal, (Z)-	7.228	260	NJ
09	57-11-4	Octadecanoic acid	7.303	210	NJ
10	301-02-0	9-Octadecenamide, (Z)-	7.869	920	NJ
11	1000131-10-3	Z,E-2,13-Octadecadien-1-ol	8.740	7600	NJ
12	112-84-5	13-Docosenamide, (Z)-	8.932	490	NJ
13	111-02-4	2,6,10,14,18,22-Tetracosahex	9.007	220	BNJ
14		Unknown (9.95235)	9.952	290	J

²EPA-designated Registry Number.

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-065D(14-15')

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K0910 Mod. Ref No.: _____ SDG No.: SK0910
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0910-04A
Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3H4110.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 13 Decanted: (Y/N) N Date Received: 05/27/2011
Concentrated Extract Volume: 500 (uL) Date Extracted: 06/02/2011
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 06/06/2011
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	190	U
111-44-4	Bis(2-chloroethyl)ether	190	U
95-57-8	2-Chlorophenol	190	U
95-48-7	2-Methylphenol	190	U
108-60-1	2,2'-oxybis(1-Chloropropane)	190	U
621-64-7	N-Nitroso-di-n-propylamine	190	U
67-72-1	Hexachloroethane	190	U
98-95-3	Nitrobenzene	190	U-3
78-59-1	Isophorone	190	U
88-75-5	2-Nitrophenol	190	U
105-67-9	2,4-Dimethylphenol	190	U
120-83-2	2,4-Dichlorophenol	190	U
91-20-3	Naphthalene	190	U
106-47-8	4-Chloroaniline	190	U
111-91-1	Bis(2-chloroethoxy)methane	190	U
87-68-3	Hexachlorobutadiene	190	U
59-50-7	4-Chloro-3-methylphenol	190	U
91-57-6	2-Methylnaphthalene	190	U-3
77-47-4	Hexachlorocyclopentadiene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	380	U
91-58-7	2-Chloronaphthalene	190	U
88-74-4	2-Nitroaniline	380	U
131-11-3	Dimethylphthalate	190	U
208-96-8	Acenaphthylene	190	U
606-20-2	2,6-Dinitrotoluene	190	U
99-09-2	3-Nitroaniline	380	U
83-32-9	Acenaphthene	190	U
51-28-5	2,4-Dinitrophenol	380	U-3
100-02-7	4-Nitrophenol	380	U
132-64-9	Dibenzofuran	190	U
121-14-2	2,4-Dinitrotoluene	190	U
84-66-2	Diethylphthalate	190	U
7005-72-3	4-Chlorophenyl-phenylether	190	U
86-73-7	Fluorene	190	U
100-01-6	4-Nitroaniline	380	U

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8/4/11

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-065D(14-15')

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K0910 Mod. Ref No.: _____ SDG No.: SK0910
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0910-04A
Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3H4110.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 13 Decanted: (Y/N) N Date Received: 05/27/2011
Concentrated Extract Volume: 500 (uL) Date Extracted: 06/02/2011
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 06/06/2011
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
534-52-1	4,6-Dinitro-2-methylphenol	380	U
86-30-6	N-Nitrosodiphenylamine	190	U
101-55-3	4-Bromophenyl-phenylether	190	U
118-74-1	Hexachlorobenzene	190	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	190	U
120-12-7	Anthracene	190	U
86-74-8	Carbazole	190	U
84-74-2	Di-n-butylphthalate	190	U
206-44-0	Fluoranthene	190	U
129-00-0	Pyrene	190	U
85-68-7	Butylbenzylphthalate	190	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	190	U
218-01-9	Chrysene	190	U
117-81-7	Bis(2-ethylhexyl)phthalate	73	J
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
50-32-8	Benzo(a)pyrene	190	U
193-39-5	Indeno(1,2,3-cd)pyrene	190	U
53-70-3	Dibenzo(a,h)anthracene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
92-52-4	1,1'-Biphenyl	190	U
111-11-1	3-Methylphenol + 4-Methylphenol	190	U
98-86-2	Acetophenone	190	U
1912-24-9	Atrazine	190	U
100-52-7	Benzaldehyde	190	U
105-60-2	Caprolactam	190	U

1K -- FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-065D(14-15')

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K0910 Mod. Ref No.: _____ SDG No.: SK0910
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0910-04A
Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3H4110.D
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 13 Decanted: (Y/N) N Date Received: 05/27/2011
Concentrated Extract Volume: 500 (uL) Date Extracted: 06/02/2011
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 06/06/2011
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	143-07-7	Dodecanoic acid	5.246	100	NJ
02	57-10-3	n-Hexadecanoic acid	6.683	630	BNJ
03	60-33-3	9,12-Octadecadienoic acid (Z)	7.228	200	NJ
04	57-11-4	Octadecanoic acid	7.297	170	NJ
05		Unknown	7.356	88	J
06	141-02-4	2,6,10,14,18,22-Tetracosahex	9.007	230	BNJ

²EPA-designated Registry Number.

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8/4/11

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-066D (24-25)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K0910 Mod. Ref No.: _____ SDG No.: SK0910
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0910-01A
Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3H4108.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 19 Decanted: (Y/N) N Date Received: 05/25/2011
Concentrated Extract Volume: 500 (uL) Date Extracted: 06/02/2011
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 06/06/2011
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
108-95-2	Phenol	200	U
111-44-4	Bis(2-chloroethyl)ether	200	U
95-57-8	2-Chlorophenol	200	U
95-48-7	2-Methylphenol	200	U
108-60-1	2,2'-oxybis(1-Chloropropane)	200	U
621-64-7	N-Nitroso-di-n-propylamine	200	U
67-72-1	Hexachloroethane	200	U
98-95-3	Nitrobenzene	200	U-5
78-59-1	Isophorone	200	U
88-75-5	2-Nitrophenol	200	U
105-67-9	2,4-Dimethylphenol	200	U
120-83-2	2,4-Dichlorophenol	200	U
91-20-3	Naphthalene	200	U
106-47-8	4-Chloroaniline	200	U
111-91-1	Bis(2-chloroethoxy)methane	200	U
87-68-3	Hexachlorobutadiene	200	U
59-50-7	4-Chloro-3-methylphenol	200	U
91-57-6	2-Methylnaphthalene	200	U-5
77-47-4	Hexachlorocyclopentadiene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	410	U
91-58-7	2-Chloronaphthalene	200	U
88-74-4	2-Nitroaniline	410	U
131-11-3	Dimethylphthalate	200	U
208-96-8	Acenaphthylene	200	U
606-20-2	2,6-Dinitrotoluene	200	U
99-09-2	3-Nitroaniline	410	U
83-32-9	Acenaphthene	200	U
51-28-5	2,4-Dinitrophenol	410	U-5
100-02-7	4-Nitrophenol	410	U
132-64-9	Dibenzofuran	200	U
121-14-2	2,4-Dinitrotoluene	200	U
84-66-2	Diethylphthalate	200	U
7005-72-3	4-Chlorophenyl-phenylether	200	U
86-73-7	Fluorene	200	U
100-01-6	4-Nitroaniline	410	U

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-066D (24-25)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K0910 Mod. Ref No.: _____ SDG No.: SK0910
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0910-01A
Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3H4108.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 19 Decanted: (Y/N) N Date Received: 05/25/2011
Concentrated Extract Volume: 500 (uL) Date Extracted: 06/02/2011
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 06/06/2011
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
534-52-1	4,6-Dinitro-2-methylphenol	410	U
86-30-6	N-Nitrosodiphenylamine	200	U
101-55-3	4-Bromophenyl-phenylether	200	U
118-74-1	Hexachlorobenzene	200	U
87-86-5	Pentachlorophenol	410	U
85-01-8	Phenanthrene	200	U
120-12-7	Anthracene	200	U
86-74-8	Carbazole	200	U
84-74-2	Di-n-butylphthalate	200	U
206-44-0	Fluoranthene	200	U
129-00-0	Pyrene	200	U
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo (a) anthracene	200	U
218-01-9	Chrysene	200	U
117-81-7	Bis (2-ethylhexyl) phthalate	91	J
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo (b) fluoranthene	200	U
207-08-9	Benzo (k) fluoranthene	200	U
50-32-8	Benzo (a) pyrene	200	U
193-39-5	Indeno (1,2,3-cd) pyrene	200	U
53-70-3	Dibenzo (a,h) anthracene	200	U
191-24-2	Benzo (g,h,i) perylene	200	U
92-52-4	1,1'-Biphenyl	200	U
111-11-1	3-Methylphenol + 4-Methylphenol	200	U
98-86-2	Acetophenone	200	U
1912-24-9	Atrazine	200	U
100-52-7	Benzaldehyde	200	U
105-60-2	Caprolactam	200	U

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-066D (24-25)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K0910 Mod. Ref No.: _____ SDG No.: SK0910
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0910-01A
Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3H4108.D
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 19 Decanted: (Y/N) N Date Received: 05/25/2011
Concentrated Extract Volume: 500 (uL) Date Extracted: 06/02/2011
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 06/06/2011
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	143-07-7	Dodecanoic acid	5.251	220	NJ
02	544-63-8	Tetradecanoic acid	5.988	160	NJ
03	1000130-71-3	1,5-Dodecadiene	6.602	82	NJ
04	57-10-3	n-Hexadecanoic acid	6.688	950	BNJ
05		Unknown (7.22208)	7.222	110	J
06	57-11-4	Octadecanoic acid	7.302	250	NJ
07		Unknown (8.22640)	8.226	98	J
08	1560-92-5	Hexadecane, 2-methyl-	8.611	100	NJ
09		Unknown (8.92622)	8.926	140	J
10	111-02-4	2,6,10,14,18,22-Tetracosahex	9.006	510	BNJ

²EPA-designated Registry Number.

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8/4/11*

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-066S (1-2')

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0807 Mod. Ref No.: _____ SDG No.: SK0807
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0807-01A
Sample wt/vol: 300 (g/mL) ML Lab File ID: S3H3749.D
Level: (LOW/MED) LOW Extraction: (Type) SEPF
% Moisture: _____ Decanted: (Y/N) _____ Date Received: 05/12/2011
Concentrated Extract Volume: 1000 (uL) Date Extracted: 05/17/2011
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 05/17/2011
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
106-46-7	1,4-Dichlorobenzene	33	U
95-48-7	2-Methylphenol	3000 2500	U D
106-44-5	4-Methylphenol	8700 6000	U D
67-72-1	Hexachloroethane	33	U
98-95-3	Nitrobenzene	33	U
87-68-3	Hexachlorobutadiene	33	U 3
88-06-2	2,4,6-Trichlorophenol	33	U
95-95-4	2,4,5-Trichlorophenol	67	U
121-14-2	2,4-Dinitrotoluene	33	U
118-74-1	Hexachlorobenzene	33	U
87-86-5	Pentachlorophenol	67	U
110-86-1	Pyridine	14	U 5

CLF
8/3/11

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-066S
(1-2') DL

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0807 Mod. Ref No.: _____ SDG No.: SK0807
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0807-01ADL
Sample wt/vol: 300 (g/mL) ML Lab File ID: S3H3767.D
Level: (LOW/MED) LOW Extraction: (Type) SEPF
% Moisture: _____ Decanted: (Y/N) _____ Date Received: 05/12/2011
Concentrated Extract Volume: 1000 (uL) Date Extracted: 05/17/2011
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 05/18/2011
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 50.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
106-46-7	1,4-Dichlorobenzene	1700	U
95-48-7	2-Methylphenol	3000	D
106-44-5	4-Methylphenol	8700	D
67-72-1	Hexachloroethane	1700	U
98-95-3	Nitrobenzene	1700	U
87-68-3	Hexachlorobutadiene	1700	U
88-06-2	2,4,6-Trichlorophenol	1700	U
95-95-4	2,4,5-Trichlorophenol	3300	U
121-14-2	2,4-Dinitrotoluene	1700	U
118-74-1	Hexachlorobenzene	1700	U
87-86-5	Pentachlorophenol	3300	U
110-86-1	Pyridine	3300	U

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5/21/11

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-029D
(75-76')

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0791-12A
Sample wt/vol: 30.6 (g/mL) G Lab File ID: E5H0498F.D/E5H0498R.D
% Moisture: 16 Decanted: (Y/N) N Date Received: 05/12/2011
Extraction: (Type) SONC Date Extracted: 05/13/2011
Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/13/2011
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µG/KG	
319-84-6	alpha-BHC	2.0	U	
319-85-7	beta-BHC	2.0	U	
319-86-8	delta-BHC	2.0	U	
58-89-9	gamma-BHC (Lindane)	2.0	U	
76-44-8	Heptachlor	2.0	U	
309-00-2	Aldrin	2.0	U	
1024-57-3	Heptachlor epoxide	2.0	U	
959-98-8	Endosulfan I	2.0	U	
60-57-1	Dieldrin	3.8	U	
72-55-9	4,4'-DDE	3.8	U	
72-20-8	Endrin	3.8	U	
33213-65-9	Endosulfan II	3.8	U	
72-54-8	4,4'-DDD	3.8	U	
1031-07-8	Endosulfan sulfate	3.8	U	
50-29-3	4,4'-DDT	3.8	U	
72-43-5	Methoxychlor	20	U	
53494-70-5	Endrin ketone	3.8	U	
7421-93-4	Endrin aldehyde	3.8	U	
5103-71-9	alpha-Chlordane	2.0	U	
5103-74-2	gamma-Chlordane	2.0	U	
8001-35-2	Toxaphene	200	U	

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-030D
(3.5-4.5')

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0791-11A
Sample wt/vol: 30.4 (g/mL) G Lab File ID: E5H0497F.D/E5H0497R.D
% Moisture: 6.8 Decanted: (Y/N) N Date Received: 05/10/2011
Extraction: (Type) SONC Date Extracted: 05/13/2011
Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/13/2011
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µG/KG	
319-84-6	alpha-BHC	1.8	U	U
319-85-7	beta-BHC	1.8	U	U
319-86-8	delta-BHC	1.8	U	U
58-89-9	gamma-BHC (Lindane)	1.8	U	U
76-44-8	Heptachlor	1.8	U	U
309-00-2	Aldrin	1.8	U	U
1024-57-3	Heptachlor epoxide	1.8	U	U
959-98-8	Endosulfan I	1.8	U	U
60-57-1	Dieldrin	5.2		
72-55-9	4,4'-DDE	3.5	U	U
72-20-8	Endrin	1.8	PJ	R
33213-65-9	Endosulfan II	3.5	U	U
72-54-8	4,4'-DDD	3.5	U	U
1031-07-8	Endosulfan sulfate	3.5	U	U
50-29-3	4,4'-DDT	3.5	U	U
72-43-5	Methoxychlor	18	U	U
53494-70-5	Endrin ketone	3.5	U	U
7421-93-4	Endrin aldehyde	3.5	U	U
5103-71-9	alpha-Chlordane	17		S
5103-74-2	gamma-Chlordane	14		S
8001-35-2	Toxaphene	180	U	U

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-065D(9-10')

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K0910 Mod. Ref No.: _____ SDG No.: SK0910
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0910-03A
Sample wt/vol: 30.2 (g/mL) G Lab File ID: E5H0917F.D/E5H0917R.D
% Moisture: 10 Decanted: (Y/N) N Date Received: 05/27/2011
Extraction: (Type) SONC Date Extracted: 05/31/2011
Concentrated Extract Volume: 10000 (uL) Date Analyzed: 06/03/2011
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/KG	
319-84-6	alpha-BHC	1.9	U	U
319-85-7	beta-BHC	1.9	U	U
319-86-8	delta-BHC	1.9	U	U
58-89-9	gamma-BHC (Lindane)	1.9	U	U
76-44-8	Heptachlor	1.9	U	U
309-00-2	Aldrin	1.9	U	U
1024-57-3	Heptachlor epoxide	1.9	U	U
959-98-8	Endosulfan I	1.9	U	U
60-57-1	Dieldrin	3.7	U	U
72-55-9	4,4'-DDE	3.7	U	U
72-20-8	Endrin	3.7	U	U
33213-65-9	Endosulfan II	3.7	U	U
72-54-8	4,4'-DDD	3.7	U	U
1031-07-8	Endosulfan sulfate	3.7	U	U
50-29-3	4,4'-DDT	3.7	U	U
72-43-5	Methoxychlor	19	U	U
53494-70-5	Endrin ketone	3.7	U	U
7421-93-4	Endrin aldehyde	3.7	U	U
5103-71-9	alpha-Chlordane	1.9	U	U
5103-74-2	gamma-Chlordane	1.9	U	U
8001-35-2	Toxaphene	190	U	U

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-065D(14-15')

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K0910 Mod. Ref No.: _____ SDG No.: SK0910
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0910-04A
Sample wt/vol: 30.0 (g/mL) G Lab File ID: E5H0918F.D/E5H0918R.D
% Moisture: 13 Decanted: (Y/N) N Date Received: 05/27/2011
Extraction: (Type) SONC Date Extracted: 05/31/2011
Concentrated Extract Volume: 10000 (uL) Date Analyzed: 06/03/2011
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µG/KG	
319-84-6	alpha-BHC	2.0	U	
319-85-7	beta-BHC	2.0	U	
319-86-8	delta-BHC	2.0	U	
58-89-9	gamma-BHC (Lindane)	2.0	U	
76-44-8	Heptachlor	2.0	U	
309-00-2	Aldrin	2.0	U	
1024-57-3	Heptachlor epoxide	2.0	U	
959-98-8	Endosulfan I	2.0	U	
60-57-1	Dieldrin	3.8	U	
72-55-9	4,4'-DDE	3.8	U	
72-20-8	Endrin	3.8	U	
33213-65-9	Endosulfan II	3.8	U	
72-54-8	4,4'-DDD	3.8	U	
1031-07-8	Endosulfan sulfate	3.8	U	
50-29-3	4,4'-DDT	3.8	U	
72-43-5	Methoxychlor	20	U	
53494-70-5	Endrin ketone	3.8	U	
7421-93-4	Endrin aldehyde	3.8	U	
5103-71-9	alpha-Chlordane	2.0	U	
5103-74-2	gamma-Chlordane	2.0	U	
8001-35-2	Toxaphene	200	U	

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-066D (24-25)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K0910 Mod. Ref No.: _____ SDG No.: SK0910
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0910-01A
Sample wt/vol: 30.6 (g/mL) G Lab File ID: E5H0916F.D/E5H0916R.D
% Moisture: 19 Decanted: (Y/N) N Date Received: 05/25/2011
Extraction: (Type) SONC Date Extracted: 05/31/2011
Concentrated Extract Volume: 10000 (uL) Date Analyzed: 06/03/2011
Injection Volume: 1.0 (uL) GPC Factor: 1.0 Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>µG/KG</u>	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	4.0	U
72-55-9	4,4'-DDE	4.0	U
72-20-8	Endrin	4.0	U
33213-65-9	Endosulfan II	4.0	U
72-54-8	4,4'-DDD	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
50-29-3	4,4'-DDT	4.0	U
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	4.0	U
7421-93-4	Endrin aldehyde	4.0	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U

1H - FORM I ARO
 AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-029D
 (75-76')

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract: _____
 Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0791-12A
 Sample wt/vol: 30.6 (g/mL) G Lab File ID: E2K2861F.D/E2K2861R.D
 % Moisture: 16 Decanted: (Y/N) N Date Received: 05/12/2011
 Extraction: (Type) SONC Date Extracted: 05/13/2011
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/13/2011
 Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y
 Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µG/KG	
12674-11-2	Aroclor-1016	38		U
11104-28-2	Aroclor-1221	38		U
11141-16-5	Aroclor-1232	38		U
53469-21-9	Aroclor-1242	38		U
12672-29-6	Aroclor-1248	38		U
11097-69-1	Aroclor-1254	38		U
11096-82-5	Aroclor-1260	38		U
37324-23-5	Aroclor-1262	38		U
11100-14-4	Aroclor-1268	38		U

1H - FORM I ARO
 AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-030D
 (3.5-4.5')

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract: _____
 Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0791-11A
 Sample wt/vol: 30.4 (g/mL) G Lab File ID: E2K2860F.D/E2K2860R.D
 % Moisture: 6.8 Decanted: (Y/N) N Date Received: 05/10/2011
 Extraction: (Type) SONC Date Extracted: 05/13/2011
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/13/2011
 Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y
 Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µG/KG	
12674-11-2	Aroclor-1016	35		U
11104-28-2	Aroclor-1221	35		U
11141-16-5	Aroclor-1232	35		U
53469-21-9	Aroclor-1242	35		U
12672-29-6	Aroclor-1248	35		U
11097-69-1	Aroclor-1254	35		U
11096-82-5	Aroclor-1260	35		U
37324-23-5	Aroclor-1262	35		U
11100-14-4	Aroclor-1268	35		U

1H - FORM I ARO
 AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-065D(9-10¹)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: K0910 Mod. Ref No.: _____ SDG No.: SK0910
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0910-03A
 Sample wt/vol: 30.2 (g/mL) G Lab File ID: E2K3496F.D/E2K3496R.D
 % Moisture: 10 Decanted: (Y/N) N Date Received: 05/27/2011
 Extraction: (Type) SONC Date Extracted: 05/31/2011
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 06/06/2011
 Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y
 Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µG/KG	
12674-11-2	Aroclor-1016	37		U
11104-28-2	Aroclor-1221	37		U
11141-16-5	Aroclor-1232	37		U
53469-21-9	Aroclor-1242	37		U
12672-29-6	Aroclor-1248	37		U
11097-69-1	Aroclor-1254	37		U
11096-82-5	Aroclor-1260	37		U
37324-23-5	Aroclor-1262	37		U
11100-14-4	Aroclor-1268	37		U

1H - FORM I ARO
 AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-065D(14-15')

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: K0910 Mod. Ref No.: _____ SDG No.: SK0910
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0910-04A
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: E2K3497F.D/E2K3497R.D
 % Moisture: 13 Decanted: (Y/N) N Date Received: 05/27/2011
 Extraction: (Type) SONC Date Extracted: 05/31/2011
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 06/06/2011
 Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y
 Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µG/KG	
12674-11-2	Aroclor-1016	38		U
11104-28-2	Aroclor-1221	38		U
11141-16-5	Aroclor-1232	38		U
53469-21-9	Aroclor-1242	38		U
12672-29-6	Aroclor-1248	38		U
11097-69-1	Aroclor-1254	38		U
11096-82-5	Aroclor-1260	38		U
37324-23-5	Aroclor-1262	38		U
11100-14-4	Aroclor-1268	38		U

1H - FORM I ARO
 AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-066D (24-25)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: K0910 Mod. Ref No.: _____ SDG No.: SK0910
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K0910-01A
 Sample wt/vol: 30.6 (g/mL) G Lab File ID: E2K3495F.D/E2K3495R.D
 % Moisture: 19 Decanted: (Y/N) N Date Received: 05/25/2011
 Extraction: (Type) SONC Date Extracted: 05/31/2011
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 06/06/2011
 Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y
 Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µG/KG	
12674-11-2	Aroclor-1016	40		U
11104-28-2	Aroclor-1221	40		U
11141-16-5	Aroclor-1232	40		U
53469-21-9	Aroclor-1242	40		U
12672-29-6	Aroclor-1248	40		U
11097-69-1	Aroclor-1254	40		U
11096-82-5	Aroclor-1260	40		U
37324-23-5	Aroclor-1262	40		U
11100-14-4	Aroclor-1268	40		U

1 - FORM I HERB
CHLORINATED HERBICIDE ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-044D (4-5')

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K0807 Mod. Ref No.: _____ SDG No.: SK0807
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0807-02A
Sample wt/vol: 300 (g/mL) ML Lab File ID: E4G5965F.D/E4G5965R.D
% Moisture: _____ Decanted: (Y/N) _____ Date Received: 05/12/2011
Extraction: (Type) SEPF Date Extracted: 05/17/2011
Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/18/2011
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/L
94-75-7	2,4-D	3.3	U
93-72-1	2,4,5-TP (Silvex)	0.33	U

1 - FORM I HERB
CHLORINATED HERBICIDE ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-066S (1-2')

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K0807 Mod. Ref No.: _____ SDG No.: SK0807
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0807-01A
Sample wt/vol: 300 (g/mL) ML Lab File ID: E4G5964F.D/E4G5964R.D
% Moisture: _____ Decanted: (Y/N) _____ Date Received: 05/12/2011
Extraction: (Type) SEPF Date Extracted: 05/17/2011
Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/18/2011
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/L	
94-75-7	2,4-D		3.3	U
93-72-1	2,4,5-TP (Silvex)		0.33	U

FORM I - ANALYSIS DATA SHEET
SW846 8151A

DEC-029D (75-76')

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 28361
 Client: Mitkem Laboratories Project: See Chain of Custody
 Project Number: K0791 Received: 05/11/11 14:36
 Matrix: Soil Laboratory ID: SB28614-01 File ID: 2861401H.D
 Sampled: 05/11/11 10:00 Prepared: 05/19/11 08:14 Analyzed: 05/20/11 09:44
 % Solids: 88.67 Preparation: SW846 3550B/C Initial/Final: 15.4413 g / 10 ml
 Batch: 1109381 Sequence: S104432 Calibration: 1105036 Instrument: HPS19
 Injection Volume (uL): 2.00

CAS NO.	COMPOUND	DILUTION	CONC. (µg/kg dry)	Q
93-76-5	2,4,5-T	1	3.16	U
93-72-1	2,4,5-TP (Silvex)	1	2.04	U
94-75-7	2,4-D	1	1.62	U
94-82-6	2,4-DB	1	2.24	U
75-99-0	Dalapon	1	1.93	U
1918-00-9	Dicamba	1	1.70	U
120-36-5	Dichlorprop	1	2.27	U
88-85-7	Dinoseb	1	2.20	U
94-74-6	MCPA	1	802	U
94-81-5	MCPB	1	819	U
93-65-2	MCP	1	754	U

FORM I - ANALYSIS DATA SHEET

SW846 8151A

DEC-030D(3.5-4.5')

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 28361
 Client: Mitekem Laboratories Project: See Chain of Custody
 Project Number: K0791 Received: 05/09/11 12:30
 Matrix: Soil Laboratory ID: SB28361-01 File ID: 2836101H.D
 Sampled: 05/06/11 10:30 Prepared: 05/13/11 08:54 Analyzed: 05/16/11 12:33
 % Solids: 91.33 Preparation: SW846 3550B/C Initial/Final: 15.3573 g / 10 ml
 Batch: 1108883 Sequence: S104214 Calibration: 1105036 Instrument: IIPS19
 Injection Volume (uL): 2.00

CAS NO.	COMPOUND	DILUTION	CONC. (µg/kg dry)	Q
93-76-5	2,4,5-T	1	3.08	U
93-72-1	2,4,5-TP (Silvex)	1	1.99	U
94-75-7	2,4-D	1	1.58	U
94-82-6	2,4-DB	1	2.18	U
75-99-0	Dalapon	1	3.41	U
1918-00-9	Dicamba	1	1.66	U
120-36-5	Dichlorprop	1	2.21	U
88-85-7	Dinoseb	1	2.15	U
94-74-6	MCPA	1	783	U
94-81-5	MCPB	1	799	U
93-65-2	MCPB	1	736	U

FORM I - ANALYSIS DATA SHEET

SW846 8151A

DEC-065D (9-10')

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 29135
 Client: Mitekem Laboratories Project: See Chain of Custody
 Project Number: K0910 Received: 05/27/11 13:05
 Matrix: Soil Laboratory ID: SB29247-01 File ID: 29247011.D
 Sampled: 05/24/11 13:00 Prepared: 06/02/11 08:06 Analyzed: 06/03/11 14:25
 % Solids: 90.56 Preparation: SW846 3545A Initial/Final: 15.131 g / 10 ml
 Batch: 1110394 Sequence: S104910 Calibration: 1105036 Instrument: IIPS19
 Injection Volume (uL): 2.00

CAS NO.	COMPOUND	DILUTION	CONC. (µg/kg dry)	Q
93-76-5	2,4,5-T	1	3.15	U
93-72-1	2,4,5-TP (Silvex)	1	2.03	U
94-75-7	2,4-D	1	1.62	U
94-82-6	2,4-DB	1	2.24	U
75-99-0	Dalapon	1	1.93	U
1918-00-9	Dicamba	1	1.70	U
120-36-5	Dichlorprop	1	2.26	U
88-85-7	Dinoseb	1	2.20	U
94-74-6	MCPA	1	802	U ⁵
94-81-5	MCPB	1	818	U ⁵
93-65-2	MCPP	1	753	U

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FORM I - ANALYSIS DATA SHEET

SW846 8151A

DEC-065D (14-15')

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 29135
 Client: Mitek Laboratories Project: See Chain of Custody
 Project Number: K0910 Received: 05/27/11 13:05
 Matrix: Soil Laboratory ID: SB29247-02 File ID: 2924702H.D
 Sampled: 05/24/11 13:40 Prepared: 06/02/11 08:06 Analyzed: 06/03/11 14:41
 % Solids: 86.85 Preparation: SW846 3545A Initial/Final: 15.0195 g / 10 ml
 Batch: 1110394 Sequence: S104910 Calibration: 1105036 Instrument: HPS19
 Injection Volume (uL): 2.00

CAS NO.	COMPOUND	DILUTION	CONC. (µg/kg dry)	Q
93-76-5	2,4,5-T	1	3.31	U
93-72-1	2,4,5-TP (Silvex)	1	2.14	U
94-75-7	2,4-D	1	1.70	U
94-82-6	2,4-DB	1	2.35	U
75-99-0	Dalapon	1	2.03	U
1918-00-9	Dicamba	1	1.79	U
120-36-5	Dichlorprop	1	2.38	U
88-85-7	Dinoseb	1	2.31	U
94-74-6	MCPA	1	842	U <i>3</i>
94-81-5	MCPB	1	859	U <i>3</i>
93-65-2	MCPB	1	791	U

*Check
5/4/11*

FORM I - ANALYSIS DATA SHEET
SW846 8151A

DEC-066D (24-25)

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 29135
 Client: Mitekem Laboratories Project: See Chain of Custody
 Project Number: K0910 Received: 05/24/11 15:15
 Matrix: Soil Laboratory ID: SB29135-01 File ID: 2913501H.D
 Sampled: 05/20/11 15:00 Prepared: 06/02/11 08:06 Analyzed: 06/03/11 13:39
 % Solids: 75.47 Preparation: SW846 3545A Initial/Final: 15.0492 g / 10 ml
 Batch: 1110394 Sequence: S104910 Calibration: 1105036 Instrument: IIPS19
 Injection Volume (uL): 2.00

CAS NO.	COMPOUND	DILUTION	CONC. (µg/kg dry)	Q
93-76-5	2,4,5-T	1	3.81	U
93-72-1	2,4,5-TP (Silvex)	1	2.45	U
94-75-7	2,4-D	1	1.96	U
94-82-6	2,4-DB	1	2.70	U
75-99-0	Dalapon	1	2.33	U
1918-00-9	Dicamba	1	2.05	U
120-36-5	Dichlorprop	1	2.73	U
88-85-7	Dinoseb	1	2.65	U
94-74-6	MCPA	1	1430	U 3
94-81-5	MCPB	1	1860	U 3
93-65-2	MCPB	1	909	U

Check
8/4/11

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-044D (4-5')

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: K0807 Mod. Ref No.: _____ SDG No.: SK0807
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0807-02A
 Sample wt/vol: 300 (g/mL) ML Lab File ID: E5H0584F.D/E5H0584R.D
 % Moisture: _____ Decanted: (Y/N) _____ Date Received: 05/12/2011
 Extraction: (Type) SEPF Date Extracted: 05/17/2011
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/18/2011
 Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µg/L	
58-89-9	gamma-BHC (Lindane)		0.17	U
76-44-8	Heptachlor		0.17	U
1024-57-3	Heptachlor epoxide		0.17	U
72-20-8	Endrin		0.33	U
72-43-5	Methoxychlor		1.7	U
8001-35-2	Toxaphene		17	U
12789-03-6	Chlordane (technical)		8.3	U

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-066S (1-2')

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K0807 Mod. Ref No.: _____ SDG No.: SK0807
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0807-01A
Sample wt/vol: 300 (g/mL) ML Lab File ID: E5H0583F.D/E5H0583R.D
% Moisture: _____ Decanted: (Y/N) _____ Date Received: 05/12/2011
Extraction: (Type) SEPF Date Extracted: 05/17/2011
Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/18/2011
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/L	
58-89-9	gamma-BHC (Lindane)	0.79	P	R
76-44-8	Heptachlor	0.44	P	R
1024-57-3	Heptachlor epoxide	0.17	U	
72-20-8	Endrin	0.33	U	
72-43-5	Methoxychlor	1.7	U	
8001-35-2	Toxaphene	17	U	
12789-03-6	Chlordane (technical)	8.3	U	

Check
8/3/11

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

DEC-029D (75-76')

Lab Name: Spectrum Analytical, Inc.Contract: 250626 USLab Code: MITKEM

Case No.: _____

SAS No.: _____

SDG No.: SK0791Matrix (soil/water): SOILLab Sample ID: K0791-12Level (low/med): MEDDate Received: 05/12/2011% Solids: 83.8Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2270			P
7440-36-0	Antimony	0.24	U		P
7440-38-2	Arsenic	0.70			P
7440-39-3	Barium	19.3			P
7440-41-7	Beryllium	0.15	B		P
7440-43-9	Cadmium	0.048	B		P
7440-70-2	Calcium	566			P
7440-47-3	Chromium	4.7			P
7440-48-4	Cobalt	2.9			P
7440-50-8	Copper	6.4			P
7439-89-6	Iron	4730			P
7439-92-1	Lead	1.4			P
7439-95-4	Magnesium	1220			P
7439-96-5	Manganese	242			P
7439-97-6	Mercury	0.0030	U		CV
7440-02-0	Nickel	5.6			P
7440-09-7	Potassium	290			P
7782-49-2	Selenium	0.41	U		P
7440-22-4	Silver	0.041	U		P
7440-23-5	Sodium	69.2			P
7440-28-0	Thallium	0.14	U		P
7440-62-2	Vanadium	5.1			P
7440-66-6	Zinc	10.0			P
57-12-5	Cyanide	0.48	U		CA

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

DEC-030D (3.5-4.5')

Lab Name: Spectrum Analytical, Inc.Contract: 250626 USLab Code: MITKEM

Case No.: _____

SAS No.: _____

SDG No.: SK0791Matrix (soil/water): SOILLab Sample ID: K0791-11Level (low/med): MEDDate Received: 05/10/2011% Solids: 93.2Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6760			P
7440-36-0	Antimony	0.25	U		P
7440-38-2	Arsenic	2.5			P
7440-39-3	Barium	59.9			P
7440-41-7	Beryllium	0.46			P
7440-43-9	Cadmium	0.49			P
7440-70-2	Calcium	1210			P
7440-47-3	Chromium	27.3			P
7440-48-4	Cobalt	7.0			P
7440-50-8	Copper	23.7			P
7439-89-6	Iron	23100			P
7439-92-1	Lead	74.2			P
7439-95-4	Magnesium	2080			P
7439-96-5	Manganese	421			P
7439-97-6	Mercury	0.32			CV
7440-02-0	Nickel	12.2			P
7440-09-7	Potassium	1270			P
7782-49-2	Selenium	0.49	B		P
7440-22-4	Silver	0.042	U		P
7440-23-5	Sodium	79.9			P
7440-28-0	Thallium	0.14	U		P
7440-62-2	Vanadium	23.4			P
7440-66-6	Zinc	61.5			P
57-12-5	Cyanide	0.48	U		CA

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

DEC-044D (4-5')

Lab Name: Spectrum Analytical, Inc.Contract: 250626 USLab Code: MITKEM

Case No.: _____

SAS No.: _____

SDG No.: SK0807Matrix (soil/water): WATERLab Sample ID: K0807-02Level (low/med): MEDDate Received: 05/12/2011% Solids: 0.0Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	726			P
7440-43-9	Cadmium	1.8	B		P
7440-47-3	Chromium	0.98	B		P
7439-92-1	Lead	78.9			P
7439-97-6	Mercury	0.028	U		CV
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

DEC-065D(9-10')

Lab Name: Spectrum Analytical, Inc.Contract: 250626USLab Code: MITKEM

Case No.: _____

SAS No.: _____

SDG No.: SK0910Matrix (soil/water): SOILLab Sample ID: K0910-03Level (low/med): MEDDate Received: 05/27/2011% Solids: 89.8Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7470			P
7440-36-0	Antimony	0.25	U		P
7440-38-2	Arsenic	0.53	B		P
7440-39-3	Barium	47.9			P
7440-41-7	Beryllium	0.68			P
7440-43-9	Cadmium	0.0099	U		P
7440-70-2	Calcium	2490			P
7440-47-3	Chromium	22.8			P
7440-48-4	Cobalt	7.6			P
7440-50-8	Copper	13.8			P
7439-89-6	Iron	27700			P
7439-92-1	Lead	6.8			P
7439-95-4	Magnesium	2340			P
7439-96-5	Manganese	529			P
7439-97-6	Mercury	0.0063	B		CV
7440-02-0	Nickel	12.6			P
7440-09-7	Potassium	43.6			P
7782-49-2	Selenium	0.42	U		P
7440-22-4	Silver	0.042	U		P
7440-23-5	Sodium	9.0	B		P
7440-28-0	Thallium	2.7			P
7440-62-2	Vanadium	32.3			P
7440-66-6	Zinc	44.0			P
57-12-5	Cyanide	0.28	U		CA

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

DEC-065D(14-15')

Lab Name: Spectrum Analytical, Inc.

Contract: 250626US

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SK0910

Matrix (soil/water): SOIL

Lab Sample ID: K0910-04

Level (low/med): MED

Date Received: 05/27/2011

% Solids: 86.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10100			P
7440-36-0	Antimony	0.34	U		P
7440-38-2	Arsenic	0.37	U		P
7440-39-3	Barium	113			P
7440-41-7	Beryllium	1.1			P
7440-43-9	Cadmium	0.014	U		P
7440-70-2	Calcium	6070			P
7440-47-3	Chromium	32.7			P
7440-48-4	Cobalt	15.4			P
7440-50-8	Copper	29.8			P
7439-89-6	Iron	54900			P
7439-92-1	Lead	10.5			P
7439-95-4	Magnesium	3180			P
7439-96-5	Manganese	1290			P
7439-97-6	Mercury	0.0060	B		CV
7440-02-0	Nickel	22.2			P
7440-09-7	Potassium	2080			P
7782-49-2	Selenium	0.58	U		P
7440-22-4	Silver	0.058	U		P
7440-23-5	Sodium	360			P
7440-28-0	Thallium	3.4			P
7440-62-2	Vanadium	54.2			P
7440-66-6	Zinc	55.4			P
57-12-5	Cyanide	0.51	U		CA

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

DEC-066D (24-25)

Lab Name: Spectrum Analytical, Inc.Contract: 250626USLab Code: MITKEM

Case No.: _____

SAS No.: _____

SDG No.: SK0910Matrix (soil/water): SOILLab Sample ID: K0910-01Level (low/med): MEDDate Received: 05/25/2011% Solids: 81.3Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4610			P
7440-36-0	Antimony	0.29	U		P
7440-38-2	Arsenic	0.32	U		P
7440-39-3	Barium	27.2			P
7440-41-7	Beryllium	0.40			P
7440-43-9	Cadmium	0.012	U		P
7440-70-2	Calcium	1580			P
7440-47-3	Chromium	11.6			P
7440-48-4	Cobalt	4.8			P
7440-50-8	Copper	8.3			P
7439-89-6	Iron	10100			P
7439-92-1	Lead	3.2			P
7439-95-4	Magnesium	1990			P
7439-96-5	Manganese	235			P
7439-97-6	Mercury	0.0032	B		CV
7440-02-0	Nickel	8.8			P
7440-09-7	Potassium	1070			P
7782-49-2	Selenium	0.49	U		P
7440-22-4	Silver	0.049	U		P
7440-23-5	Sodium	84.6			P
7440-28-0	Thallium	2.5			P
7440-62-2	Vanadium	15.4			P
7440-66-6	Zinc	22.1			P
57-12-5	Cyanide	0.33	U		CA

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

DEC-066S (1-2')

Lab Name: Spectrum Analytical, Inc.Contract: 250626 USLab Code: MITKEM

Case No.: _____

SAS No.: _____

SDG No.: SK0807Matrix (soil/water): WATERLab Sample ID: K0807-01Level (low/med): MEDDate Received: 05/12/2011% Solids: 0.0Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	81.9	B		P
7440-43-9	Cadmium	1.3	B		P
7440-47-3	Chromium	1.4	B		P
7439-92-1	Lead	51.0			P
7439-97-6	Mercury	0.028	U		CV
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P

Comments:

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

17-Jun-

Client: URS Corporation
Client Sample ID: DEC-066D (24-25)
Lab ID: K0910-01

Project: Klink Cosmo Meeker
Collection Date: 05/20/11 15:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							SW7196_S
Chromium, Hexavalent	ND		4.8	mg/Kg		1 06/09/2011 12:00	59894

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

17-Jun-

Client: URS Corporation
Client Sample ID: DEC-065D(9-10')
Lab ID: K0910-03

Project: Klink Cosmo Meeker
Collection Date: 05/24/11 13:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SWB46 7196A -- CR+ by Colorimetric Method				SW7196_S
Chromium, Hexavalent	ND	4.4 mg/Kg	106/09/2011 12:15	59894

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

17-Jun-

Client: URS Corporation
Client Sample ID: DEC-065D(14-15")
Lab ID: K0910-04

Project: Klink Cosmo Meeker
Collection Date: 05/24/11 13:40

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method				SW7196_S
Chromium, Hexavalent	ND	4.5 mg/Kg	106/09/2011 12:30	59694

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Mitkem Laboratories

Date: 27-May-11

Client: URS Corporation
Client Sample ID: DEC-029D (75-76')
Lab ID: K0791-12

Project: Klink Cosmo Meeker
Collection Date: 05/11/11 10:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							SW7196_S
Chromium, Hexavalent	ND		4.7	mg/Kg		105/17/2011 12:00	59232
SW846 9012B -- Total Cyanide							SW9012_S
Cyanide	ND		1.1	mg/Kg		105/16/2011 12:30	59188

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Mitkem Laboratories

Date: 27-May-11

Client: URS Corporation
Client Sample ID: DEC-030D (3.5-4.5')
Lab ID: K0791-11

Project: Klink Cosmo Meeker
Collection Date: 05/06/11 10:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							SW7196_S
Chromium, Hexavalent	ND		4.1	mg/Kg	1	05/17/2011 11:50	59232
SW846 9012B -- Total Cyanide							SW9012_S
Cyanide	ND		1.1	mg/Kg	1	05/16/2011 12:28	59188

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Mitkem Laboratories

Date: 19-May-11

Client: URS Corporation
Client Sample ID: DEC-044D (4-5)
Lab ID: K0807-02

Project: Klink Cosmo Meeker
Collection Date: 05/10/11 14:30

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 1010 -- FLASHPOINT by Pensky-Martens Closed-Cup Method				SW1010_S
Ignitability	NO FLASH @ 165	200 °F	105/17/2011 12:30	R58515
SW846 7.3.3.2 -- Reactive Cyanide Released from Wastes				SW7.3.3.2_S
Reactive Cyanide	ND	1.2 mg/Kg	105/18/2011 16:11	59248
SW846 7.3.4.2 -- Reactive Sulfide Released from Wastes				SW7.3.4.2_S
Reactive Sulfide	ND	1.2 mg/Kg	105/18/2011 14:21	59252
SW846 9045C -- Soil and Waste pH				SW9045_S
pH	7.8	1.0 S.U.	105/18/2011 15:20	R58553

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Mitkem Laboratories

Date: 19-May-11

Client: URS Corporation
Client Sample ID: DEC-066S (1-2)
Lab ID: K0807-01

Project: Klink Cosmo Meeker
Collection Date: 05/09/11 15:10

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 1010 -- FLASHPOINT by Pensky-Martens Closed-Cup Method				SW1010_S
Ignitability	NO FLASH @ 165	200 °F	1 05/17/2011 12:05	R58515
SW846 7.3.3.2 -- Reactive Cyanide Released from Wastes				SW7.3.3.2_S
Reactive Cyanide	ND	1.2 mg/Kg	1 05/18/2011 16:09	59248
SW846 7.3.4.2 -- Reactive Sulfide Released from Wastes				SW7.3.4.2_S
Reactive Sulfide	ND	1.2 mg/Kg	1 05/18/2011 14:12	59252
SW846 9045C -- Soil and Waste pH				SW9045_S
pH	5.6	1.0 S.U.	1 05/18/2011 15:15	R58553

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-004

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-16A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1950.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/06/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	1.0	J
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U R
156-59-2	cis-1,2-Dichloroethene	4.8	J
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	37	
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-004

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-16A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1950.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/06/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{g/L}$	Q
127-18-4	Tetrachloroethene	1.5	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U-R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

OK
8/9/11

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-004

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-16A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1950.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/06/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µG/L	
108-87-2	Methylcyclohexane		5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-004

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-16A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1950.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/06/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-006D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-06A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1763.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/28/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/L</u>	<u>Q</u>
75-71-8	Dichlorodifluoromethane	5.0	U-5
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U-5
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U-R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U-R
156-59-2	cis-1,2-Dichloroethene	26	
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	4.6	J
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	39	
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U-5
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
DEC-006D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-06A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1763.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/28/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
127-18-4	Tetrachloroethene	6600 3900	ED
591-78-6	2-Hexanone	5.0	U-5
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U-5
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U-5
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U-R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

Handwritten signature and date: 8/13/11

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-006D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-06A
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1763.D
 Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
 % Moisture: not dec. Date Analyzed: 06/28/2011
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µG/L	
108-87-2	Methylcyclohexane		5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-006D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-06A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1763.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/28/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-006DDL

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM

Case No.: K1102

Mod. Ref No.:

SDG No.: SK1102

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: K1102-06ADL

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V6I1796.D

Level: (TRACE/LOW/MED) LOW

Date Received: 06/24/2011

% Moisture: not dec.

Date Analyzed: 06/29/2011

GC Column: DB-624

ID: 0.25

(mm)

Dilution Factor: 50.0

Soil Extract Volume:

(uL)

Soil Aliquot Volume:

(uL)

Purge Volume: 5.0

(mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/L	
75-71-8	Dichlorodifluoromethane		250	U-3
74-87-3	Chloromethane		250	U
75-01-4	Vinyl chloride		250	U
74-83-9	Bromomethane		250	U
75-00-3	Chloroethane		250	U
75-69-4	Trichlorofluoromethane		250	U
75-35-4	1,1-Dichloroethene		250	U
67-64-1	Acetone		250	U R
74-88-4	Iodomethane		250	U
75-15-0	Carbon disulfide		250	U
75-09-2	Methylene chloride		250	U
156-60-5	trans-1,2-Dichloroethene		250	U
1634-04-4	Methyl tert-butyl ether		250	U
75-34-3	1,1-Dichloroethane		250	U
108-05-4	Vinyl acetate		250	U
78-93-3	2-Butanone		250	U R
156-59-2	cis-1,2-Dichloroethene		250	U
594-20-7	2,2-Dichloropropane		250	U
74-97-5	Bromochloromethane		250	U
67-66-3	Chloroform		250	U
71-55-6	1,1,1-Trichloroethane		250	U
563-58-6	1,1-Dichloropropene		250	U
56-23-5	Carbon tetrachloride		250	U
107-06-2	1,2-Dichloroethane		250	U
71-43-2	Benzene		250	U
79-01-6	Trichloroethene		250	U
78-87-5	1,2-Dichloropropane		250	U
74-95-3	Dibromomethane		250	U
75-27-4	Bromodichloromethane		250	U
10061-01-5	cis-1,3-Dichloropropene		250	U
108-10-1	4-Methyl-2-pentanone		250	U
108-88-3	Toluene		250	U
10061-02-6	trans-1,3-Dichloropropene		250	U
79-00-5	1,1,2-Trichloroethane		250	U
142-28-9	1,3-Dichloropropane		250	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-006DDL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-06ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1796.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/29/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 50.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	6600	D
591-78-6	2-Hexanone	250	U
124-48-1	Dibromochloromethane	250	U
106-93-4	1,2-Dibromoethane	250	U
108-90-7	Chlorobenzene	250	U
630-20-6	1,1,1,2-Tetrachloroethane	250	U
100-41-4	Ethylbenzene	250	U
1330-20-7	m,p-Xylene	250	U
95-47-6	o-Xylene	250	U
1330-20-7	Xylene (Total)	250	U
100-42-5	Styrene	250	U
75-25-2	Bromoform	250	U
98-82-8	Isopropylbenzene	250	U
79-34-5	1,1,2,2-Tetrachloroethane	250	U
108-86-1	Bromobenzene	250	U
96-18-4	1,2,3-Trichloropropane	250	U
95-49-8	2-Chlorotoluene	250	U
108-67-8	1,3,5-Trimethylbenzene	250	U
106-43-4	4-Chlorotoluene	250	U
98-06-6	tert-Butylbenzene	250	U
95-63-6	1,2,4-Trimethylbenzene	250	U
135-98-8	sec-Butylbenzene	250	U
99-87-6	4-Isopropyltoluene	250	U
541-73-1	1,3-Dichlorobenzene	250	U
106-46-7	1,4-Dichlorobenzene	250	U
95-50-1	1,2-Dichlorobenzene	250	U
96-12-8	1,2-Dibromo-3-chloropropane	250	U
120-82-1	1,2,4-Trichlorobenzene	250	U
87-68-3	Hexachlorobutadiene	250	U
87-61-6	1,2,3-Trichlorobenzene	250	U-3
91-20-3	Naphthalene	250	U-3
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	250	U
123-91-1	1,4-Dioxane	5000	U R
110-82-7	Cyclohexane	250	U
79-20-9	Methyl acetate	250	U

Copy 5/8/11

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-006DDL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-06ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1796.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/29/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 50.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/L	
108-87-2	Methylcyclohexane		250	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
DEC-006DDL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-06ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V611796.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/29/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 50.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

CLP
6/8/11

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-006DD

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-05A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1762.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/28/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{g/L}$	Q
75-71-8	Dichlorodifluoromethane	5.0	U-3
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U-3
75-35-4	1,1-Dichloroethene	69	3
67-64-1	Acetone	5.0	U-R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	2.6	J
75-34-3	1,1-Dichloroethane	5.4	
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U-R
156-59-2	cis-1,2-Dichloroethene	16	
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	13	
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	210 -250	20
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U-3
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

Handwritten signature and date: 6/28/11

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-006DD

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-05A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1762.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/28/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/L</u>	<u>Q</u>
127-18-4	Tetrachloroethene	<u>410</u> 540	<u>U</u>
591-78-6	2-Hexanone	5.0	<u>U</u>
124-48-1	Dibromochloromethane	5.0	<u>U</u>
106-93-4	1,2-Dibromoethane	5.0	<u>U</u>
108-90-7	Chlorobenzene	5.0	<u>U</u>
630-20-6	1,1,1,2-Tetrachloroethane	5.0	<u>U</u>
100-41-4	Ethylbenzene	5.0	<u>U</u>
1330-20-7	m,p-Xylene	5.0	<u>U</u>
95-47-6	o-Xylene	5.0	<u>U</u>
1330-20-7	Xylene (Total)	5.0	<u>U</u>
100-42-5	Styrene	5.0	<u>U</u>
75-25-2	Bromoform	5.0	<u>U</u>
98-82-8	Isopropylbenzene	5.0	<u>U</u>
79-34-5	1,1,2,2-Tetrachloroethane	5.0	<u>U</u>
108-86-1	Bromobenzene	5.0	<u>U</u>
96-18-4	1,2,3-Trichloropropane	5.0	<u>U</u>
95-49-8	2-Chlorotoluene	5.0	<u>U</u>
108-67-8	1,3,5-Trimethylbenzene	5.0	<u>U</u>
106-43-4	4-Chlorotoluene	5.0	<u>U</u>
98-06-6	tert-Butylbenzene	5.0	<u>U</u>
95-63-6	1,2,4-Trimethylbenzene	5.0	<u>U</u>
135-98-8	sec-Butylbenzene	5.0	<u>U</u>
99-87-6	4-Isopropyltoluene	5.0	<u>U</u>
541-73-1	1,3-Dichlorobenzene	5.0	<u>U</u>
106-46-7	1,4-Dichlorobenzene	5.0	<u>U</u>
95-50-1	1,2-Dichlorobenzene	5.0	<u>U</u>
96-12-8	1,2-Dibromo-3-chloropropane	5.0	<u>U</u>
120-82-1	1,2,4-Trichlorobenzene	5.0	<u>U</u>
87-68-3	Hexachlorobutadiene	5.0	<u>U</u>
87-61-6	1,2,3-Trichlorobenzene	5.0	<u>U</u>
91-20-3	Naphthalene	5.0	<u>U</u>
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	<u>U</u>
123-91-1	1,4-Dioxane	100	<u>U</u>
110-82-7	Cyclohexane	5.0	<u>U</u>
79-20-9	Methyl acetate	5.0	<u>U</u>

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-006DD

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-05A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1762.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/28/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/L	
108-87-2	Methylcyclohexane		5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-006DD

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-05A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1762.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/28/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-006DDDL

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM Case No.: K1102

Mod. Ref No.: SDG No.: SK1102

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: K1102-05ADL

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V6I1793.D

Level: (TRACE/LOW/MED) LOW

Date Received: 06/24/2011

% Moisture: not dec.

Date Analyzed: 06/29/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 5.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
75-71-8	Dichlorodifluoromethane	25	U 5
74-87-3	Chloromethane	25	U
75-01-4	Vinyl chloride	25	U
74-83-9	Bromomethane	25	U
75-00-3	Chloroethane	25	U
75-69-4	Trichlorofluoromethane	25	U
75-35-4	1,1-Dichloroethene	54	D
67-64-1	Acetone	25	U R
74-88-4	Iodomethane	25	U
75-15-0	Carbon disulfide	25	U
75-09-2	Methylene chloride	25	U
156-60-5	trans-1,2-Dichloroethene	25	U
1634-04-4	Methyl tert-butyl ether	25	U
75-34-3	1,1-Dichloroethane	25	U
108-05-4	Vinyl acetate	25	U
78-93-3	2-Butanone	25	U R
156-59-2	cis-1,2-Dichloroethene	12	DJ
594-20-7	2,2-Dichloropropane	25	U
74-97-5	Bromochloromethane	25	U
67-66-3	Chloroform	25	U
71-55-6	1,1,1-Trichloroethane	12	DJ
563-58-6	1,1-Dichloropropene	25	U
56-23-5	Carbon tetrachloride	25	U
107-06-2	1,2-Dichloroethane	25	U
71-43-2	Benzene	25	U
79-01-6	Trichloroethene	210	D
78-87-5	1,2-Dichloropropane	25	U
74-95-3	Dibromomethane	25	U
75-27-4	Bromodichloromethane	25	U
10061-01-5	cis-1,3-Dichloropropene	25	U
108-10-1	4-Methyl-2-pentanone	25	U
108-88-3	Toluene	25	U
10061-02-6	trans-1,3-Dichloropropene	25	U
79-00-5	1,1,2-Trichloroethane	25	U
142-28-9	1,3-Dichloropropane	25	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-006DDDL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-05ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1793.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/29/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 5.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
127-18-4	Tetrachloroethene	410	D
591-78-6	2-Hexanone	25	U
124-48-1	Dibromochloromethane	25	U
106-93-4	1,2-Dibromoethane	25	U
108-90-7	Chlorobenzene	25	U
630-20-6	1,1,1,2-Tetrachloroethane	25	U
100-41-4	Ethylbenzene	25	U
1330-20-7	m,p-Xylene	25	U
95-47-6	o-Xylene	25	U
1330-20-7	Xylene (Total)	25	U
100-42-5	Styrene	25	U
75-25-2	Bromoform	25	U
98-82-8	Isopropylbenzene	25	U
79-34-5	1,1,2,2-Tetrachloroethane	25	U
108-86-1	Bromobenzene	25	U
96-18-4	1,2,3-Trichloropropane	25	U
95-49-8	2-Chlorotoluene	25	U
108-67-8	1,3,5-Trimethylbenzene	25	U
106-43-4	4-Chlorotoluene	25	U
98-06-6	tert-Butylbenzene	25	U
95-63-6	1,2,4-Trimethylbenzene	25	U
135-98-8	sec-Butylbenzene	25	U
99-87-6	4-Isopropyltoluene	25	U
541-73-1	1,3-Dichlorobenzene	25	U
106-46-7	1,4-Dichlorobenzene	25	U
95-50-1	1,2-Dichlorobenzene	25	U
96-12-8	1,2-Dibromo-3-chloropropane	25	U
120-82-1	1,2,4-Trichlorobenzene	25	U
87-68-3	Hexachlorobutadiene	25	U
87-61-6	1,2,3-Trichlorobenzene	25	U-5
91-20-3	Naphthalene	25	U-5
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	25	U
123-91-1	1,4-Dioxane	500	U-12
110-82-7	Cyclohexane	25	U
79-20-9	Methyl acetate	25	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-006DDDL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-05ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1793.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/29/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 5.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/L	
108-87-2	Methylcyclohexane		25	U

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8/8/11

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-006DDDL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-05ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1793.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/29/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 5.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

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8/8/11

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC-006DD

CLIENT SAMPLE NO.

DUP-062011

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-07A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1764.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/28/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U-3
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U-3
75-35-4	1,1-Dichloroethene	72	3
67-64-1	Acetone	5.0	U-R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	2.6	J
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U-R
156-59-2	cis-1,2-Dichloroethene	16	
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	13	
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	1.3	J
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	210-240	2D
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U-3
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

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8/8/11

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC-006 DD

CLIENT SAMPLE NO.

DUP-062011

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM Case No.: K1102

Mod. Ref No.: SDG No.: SK1102

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: K1102-07A

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V1M1764.D

Level: (TRACE/LOW/MED) LOW

Date Received: 06/24/2011

% Moisture: not dec.

Date Analyzed: 06/28/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
127-18-4	Tetrachloroethene	420 570	ED
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U-R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

Copy 4/11

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC-006DD

CLIENT SAMPLE NO.

DUP-062011

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-07A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1764.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/28/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µG/L	
108-87-2	Methylcyclohexane		5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC-006DD

CLIENT SAMPLE NO.

DUP-062011

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-07A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1764.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/28/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{G/L}$ Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC-006 DD

CLIENT SAMPLE NO.

DUP-062011DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-07ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1794.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/29/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 5.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	25	U
74-87-3	Chloromethane	25	U
75-01-4	Vinyl chloride	25	U
74-83-9	Bromomethane	25	U
75-00-3	Chloroethane	25	U
75-69-4	Trichlorofluoromethane	25	U
75-35-4	1,1-Dichloroethene	54	D-3
67-64-1	Acetone	25	U R
74-88-4	Iodomethane	25	U
75-15-0	Carbon disulfide	25	U
75-09-2	Methylene chloride	25	U
156-60-5	trans-1,2-Dichloroethene	25	U
1634-04-4	Methyl tert-butyl ether	25	U
75-34-3	1,1-Dichloroethane	25	U
108-05-4	Vinyl acetate	25	U
78-93-3	2-Butanone	25	U R
156-59-2	cis-1,2-Dichloroethene	12	DJ
594-20-7	2,2-Dichloropropane	25	U
74-97-5	Bromochloromethane	25	U
67-66-3	Chloroform	25	U
71-55-6	1,1,1-Trichloroethane	12	DJ
563-58-6	1,1-Dichloropropene	25	U
56-23-5	Carbon tetrachloride	25	U
107-06-2	1,2-Dichloroethane	25	U
71-43-2	Benzene	25	U
79-01-6	Trichloroethene	210	D
78-87-5	1,2-Dichloropropane	25	U
74-95-3	Dibromomethane	25	U
75-27-4	Bromodichloromethane	25	U
10061-01-5	cis-1,3-Dichloropropene	25	U
108-10-1	4-Methyl-2-pentanone	25	U
108-88-3	Toluene	25	U
10061-02-6	trans-1,3-Dichloropropene	25	U
79-00-5	1,1,2-Trichloroethane	25	U
142-28-9	1,3-Dichloropropane	25	U

Handwritten signature and date: 8/31/11

DEC-006DD

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUP-062011DL

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM Case No.: K1102

Mod. Ref No.: SDG No.: SK1102

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: K1102-07ADL

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V611794.D

Level: (TRACE/LOW/MED) LOW

Date Received: 06/24/2011

% Moisture: not dec.

Date Analyzed: 06/29/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 5.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{g/L}$	Q
127-18-4	Tetrachloroethene	420	D
591-78-6	2-Hexanone	25	U
124-48-1	Dibromochloromethane	25	U
106-93-4	1,2-Dibromoethane	25	U
108-90-7	Chlorobenzene	25	U
630-20-6	1,1,1,2-Tetrachloroethane	25	U
100-41-4	Ethylbenzene	25	U
1330-20-7	m,p-Xylene	25	U
95-47-6	o-Xylene	25	U
1330-20-7	Xylene (Total)	25	U
100-42-5	Styrene	25	U
75-25-2	Bromoform	25	U
98-82-8	Isopropylbenzene	25	U
79-34-5	1,1,2,2-Tetrachloroethane	25	U
108-86-1	Bromobenzene	25	U
96-18-4	1,2,3-Trichloropropane	25	U
95-49-8	2-Chlorotoluene	25	U
108-67-8	1,3,5-Trimethylbenzene	25	U
106-43-4	4-Chlorotoluene	25	U
98-06-6	tert-Butylbenzene	25	U
95-63-6	1,2,4-Trimethylbenzene	25	U
135-98-8	sec-Butylbenzene	25	U
99-87-6	4-Isopropyltoluene	25	U
541-73-1	1,3-Dichlorobenzene	25	U
106-46-7	1,4-Dichlorobenzene	25	U
95-50-1	1,2-Dichlorobenzene	25	U
96-12-8	1,2-Dibromo-3-chloropropane	25	U
120-82-1	1,2,4-Trichlorobenzene	25	U
87-68-3	Hexachlorobutadiene	25	U
87-61-6	1,2,3-Trichlorobenzene	25	U
91-20-3	Naphthalene	25	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	25	U
123-91-1	1,4-Dioxane	500	U
110-82-7	Cyclohexane	25	U
79-20-9	Methyl acetate	25	U

DEC-006DD

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUP-062011DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-07ADL

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1794.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011

% Moisture: not dec. Date Analyzed: 06/29/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 5.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/L	
108-87-2	Methylcyclohexane		25	U

Signature
8/8/11

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC-006DD

CLIENT SAMPLE NO.

DUP-062011DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-07ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1794.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/29/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 5.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

Q
8/8/11

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-007

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-17A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1826.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/30/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{g/L}$	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	2.8	J
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	7.9	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	2.7	J
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	25	
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-007

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-17A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1826.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/30/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{g/L}$	Q
127-18-4	Tetrachloroethene	1200 1300	ED
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U 3
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U 3
87-61-6	1,2,3-Trichlorobenzene	5.0	U 3
91-20-3	Naphthalene	5.0	U 3
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	400	U R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

Copy 8/8/11

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-007

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-17A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1826.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/30/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µG/L	
108-87-2	Methylcyclohexane		5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-007

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-17A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1826.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/30/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-007DL

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM Case No.: K1102

Mod. Ref No.: SDG No.: SK1102

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: K1102-17ADL

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V6I1872.D

Level: (TRACE/LOW/MED) LOW

Date Received: 06/24/2011

% Moisture: not dec.

Date Analyzed: 07/01/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 10.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	50	U
74-87-3	Chloromethane	50	U
75-01-4	Vinyl chloride	50	U
74-83-9	Bromomethane	50	U
75-00-3	Chloroethane	50	U
75-69-4	Trichlorofluoromethane	50	U
75-35-4	1,1-Dichloroethene	50	U
67-64-1	Acetone	50	U
74-88-4	Iodomethane	50	U
75-15-0	Carbon disulfide	50	U
75-09-2	Methylene chloride	50	U
156-60-5	trans-1,2-Dichloroethene	50	U
1634-04-4	Methyl tert-butyl ether	50	U
75-34-3	1,1-Dichloroethane	50	U
108-05-4	Vinyl acetate	50	U
78-93-3	2-Butanone	50	U
156-59-2	cis-1,2-Dichloroethene	50	U
594-20-7	2,2-Dichloropropane	50	U
74-97-5	Bromochloromethane	50	U
67-66-3	Chloroform	50	U
71-55-6	1,1,1-Trichloroethane	50	U
563-58-6	1,1-Dichloropropene	50	U
56-23-5	Carbon tetrachloride	50	U
107-06-2	1,2-Dichloroethane	50	U
71-43-2	Benzene	50	U
79-01-6	Trichloroethene	22	DJ
78-87-5	1,2-Dichloropropane	50	U
74-95-3	Dibromomethane	50	U
75-27-4	Bromodichloromethane	50	U
10061-01-5	cis-1,3-Dichloropropene	50	U
108-10-1	4-Methyl-2-pentanone	50	U
108-88-3	Toluene	50	U
10061-02-6	trans-1,3-Dichloropropene	50	U
79-00-5	1,1,2-Trichloroethane	50	U
142-28-9	1,3-Dichloropropane	50	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-007DL

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM Case No.: K1102

Mod. Ref No.: SDG No.: SK1102

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: K1102-17ADL

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V6I1872.D

Level: (TRACE/LOW/MED) LOW

Date Received: 06/24/2011

% Moisture: not dec.

Date Analyzed: 07/01/2011

GC Column: DB-624

ID: 0.25

(mm)

Dilution Factor: 10.0

Soil Extract Volume:

(uL)

Soil Aliquot Volume:

(uL)

Purge Volume: 5.0

(mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
127-18-4	Tetrachloroethene	1200	D
591-78-6	2-Hexanone	50	U
124-48-1	Dibromochloromethane	50	U
106-93-4	1,2-Dibromoethane	50	U
108-90-7	Chlorobenzene	50	U
630-20-6	1,1,1,2-Tetrachloroethane	50	U
100-41-4	Ethylbenzene	50	U
1330-20-7	m,p-Xylene	50	U
95-47-6	o-Xylene	50	U
1330-20-7	Xylene (Total)	50	U
100-42-5	Styrene	50	U
75-25-2	Bromoform	50	U
98-82-8	Isopropylbenzene	50	U
79-34-5	1,1,2,2-Tetrachloroethane	50	U
108-86-1	Bromobenzene	50	U
96-18-4	1,2,3-Trichloropropane	50	U
95-49-8	2-Chlorotoluene	50	U
108-67-8	1,3,5-Trimethylbenzene	50	U
106-43-4	4-Chlorotoluene	50	U
98-06-6	tert-Butylbenzene	50	U
95-63-6	1,2,4-Trimethylbenzene	50	U
135-98-8	sec-Butylbenzene	50	U
99-87-6	4-Isopropyltoluene	50	U
541-73-1	1,3-Dichlorobenzene	50	U
106-46-7	1,4-Dichlorobenzene	50	U
95-50-1	1,2-Dichlorobenzene	50	U
96-12-8	1,2-Dibromo-3-chloropropane	50	U
120-82-1	1,2,4-Trichlorobenzene	50	U
87-68-3	Hexachlorobutadiene	50	U
87-61-6	1,2,3-Trichlorobenzene	50	U
91-20-3	Naphthalene	50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	50	U
123-91-1	1,4-Dioxane	1000	U R
110-82-7	Cyclohexane	50	U
79-20-9	Methyl acetate	50	U

Handwritten signature/initials

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-007DL

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM Case No.: K1102

Mod. Ref No.: SDG No.: SK1102

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: K1102-17ADL

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V6I1872.D

Level: (TRACE/LOW/MED) LOW

Date Received: 06/24/2011

% Moisture: not dec.

Date Analyzed: 07/01/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 10.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µG/L	
108-87-2	Methylcyclohexane		50	U

Handwritten signature/initials
4/2/11

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-007DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-17ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1872.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 07/01/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 10.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

OK
8/3/11

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-007D

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM Case No.: K1102

Mod. Ref No.: SDG No.: SK1102

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: K1102-19A

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V6I1828.D

Level: (TRACE/LOW/MED) LOW

Date Received: 06/24/2011

% Moisture: not dec.

Date Analyzed: 06/30/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{g/L}$	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	4.4	J
67-64-1	Acetone	5.0	U
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	1.2	J
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	4.8	J
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	1.5	J
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	26	
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-007D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-19A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1828.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/30/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{g/L}$	Q
127-18-4	Tetrachloroethene	340 390	U D
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U 3
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U 3
87-61-6	1,2,3-Trichlorobenzene	5.0	U 3
91-20-3	Naphthalene	5.0	U 3
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

*Copy
5/8/11*

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-007D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-19A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1828.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/30/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µG/L	
108-87-2	Methylcyclohexane		5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-007D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-19A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1828.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/30/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
DEC-007DDL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-19ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1866.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 07/01/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 4.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
75-71-8	Dichlorodifluoromethane	20	U
74-87-3	Chloromethane	20	U
75-01-4	Vinyl chloride	20	U
74-83-9	Bromomethane	20	U
75-00-3	Chloroethane	20	U
75-69-4	Trichlorofluoromethane	20	U
75-35-4	1,1-Dichloroethene	20	U
67-64-1	Acetone	20	U
74-88-4	Iodomethane	20	U
75-15-0	Carbon disulfide	20	U
75-09-2	Methylene chloride	20	U
156-60-5	trans-1,2-Dichloroethene	20	U
1634-04-4	Methyl tert-butyl ether	20	U
75-34-3	1,1-Dichloroethane	20	U
108-05-4	Vinyl acetate	20	U
78-93-3	2-Butanone	20	U
156-59-2	cis-1,2-Dichloroethene	20	U
594-20-7	2,2-Dichloropropane	20	U
74-97-5	Bromochloromethane	20	U
67-66-3	Chloroform	20	U
71-55-6	1,1,1-Trichloroethane	20	U
563-58-6	1,1-Dichloropropene	20	U
56-23-5	Carbon tetrachloride	20	U
107-06-2	1,2-Dichloroethane	20	U
71-43-2	Benzene	20	U
79-01-6	Trichloroethene	24	D
78-87-5	1,2-Dichloropropane	20	U
74-95-3	Dibromomethane	20	U
75-27-4	Bromodichloromethane	20	U
10061-01-5	cis-1,3-Dichloropropene	20	U
108-10-1	4-Methyl-2-pentanone	20	U
108-88-3	Toluene	20	U
10061-02-6	trans-1,3-Dichloropropene	20	U
79-00-5	1,1,2-Trichloroethane	20	U
142-28-9	1,3-Dichloropropane	20	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-007DDL

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM

Case No.: K1102

Mod. Ref No.:

SDG No.: SK1102

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: K1102-19ADL

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V6I1866.D

Level: (TRACE/LOW/MED) LOW

Date Received: 06/24/2011

% Moisture: not dec.

Date Analyzed: 07/01/2011

GC Column: DB-624

ID: 0.25

(mm)

Dilution Factor: 4.0

Soil Extract Volume:

(uL)

Soil Aliquot Volume:

(uL)

Purge Volume: 5.0

(mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/L	
127-18-4	Tetrachloroethene		340	D
591-78-6	2-Hexanone		20	U
124-48-1	Dibromochloromethane		20	U
106-93-4	1,2-Dibromoethane		20	U
108-90-7	Chlorobenzene		20	U
630-20-6	1,1,1,2-Tetrachloroethane		20	U
100-41-4	Ethylbenzene		20	U
1330-20-7	m,p-Xylene		20	U
95-47-6	o-Xylene		20	U
1330-20-7	Xylene (Total)		20	U
100-42-5	Styrene		20	U
75-25-2	Bromoform		20	U
98-82-8	Isopropylbenzene		20	U
79-34-5	1,1,2,2-Tetrachloroethane		20	U
108-86-1	Bromobenzene		20	U
96-18-4	1,2,3-Trichloropropane		20	U
95-49-8	2-Chlorotoluene		20	U
108-67-8	1,3,5-Trimethylbenzene		20	U
106-43-4	4-Chlorotoluene		20	U
98-06-6	tert-Butylbenzene		20	U
95-63-6	1,2,4-Trimethylbenzene		20	U
135-98-8	sec-Butylbenzene		20	U
99-87-6	4-Isopropyltoluene		20	U
541-73-1	1,3-Dichlorobenzene		20	U
106-46-7	1,4-Dichlorobenzene		20	U
95-50-1	1,2-Dichlorobenzene		20	U
96-12-8	1,2-Dibromo-3-chloropropane		20	U
120-82-1	1,2,4-Trichlorobenzene		20	U
87-68-3	Hexachlorobutadiene		20	U
87-61-6	1,2,3-Trichlorobenzene		20	U
91-20-3	Naphthalene		10	DJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		20	U
123-91-1	1,4-Dioxane		400	U
110-82-7	Cyclohexane		20	U
79-20-9	Methyl acetate		20	U

Handwritten signature and date: 8/6/11

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-007DDL

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM

Case No.: K1102

Mod. Ref No.:

SDG No.: SK1102

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: K1102-19ADL

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V6I1866.D

Level: (TRACE/LOW/MED) LOW

Date Received: 06/24/2011

% Moisture: not dec.

Date Analyzed: 07/01/2011

GC Column: DB-624

ID: 0.25

(mm)

Dilution Factor: 4.0

Soil Extract Volume:

(uL)

Soil Aliquot Volume:

(uL)

Purge Volume: 5.0

(mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/L	
108-87-2	Methylcyclohexane		20	U

Handwritten signature and date:
8/8/11

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
DEC-007DDL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-19ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1866.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 07/01/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 4.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

Q-152
8/11

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-008

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-09A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4342.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/02/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	19	
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	1.4	J
75-35-4	1,1-Dichloroethene	2.0	J
67-64-1	Acetone	5.0	U-12
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	3.5	J
1634-04-4	Methyl tert-butyl ether	1.1	J
75-34-3	1,1-Dichloroethane	3.4	J
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U-12
156-59-2	cis-1,2-Dichloroethene	41	J
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	1.6	J
71-55-6	1,1,1-Trichloroethane	1.8	J
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U-3
79-01-6	Trichloroethene	120	
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-008

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-09A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4342.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/02/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
127-18-4	Tetrachloroethene	1300 2300	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-008

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-09A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4342.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/02/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µG/L	
108-87-2	Methylcyclohexane	5.0	U	5

Handwritten: 8/9/11

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-008

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-09A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4342.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/02/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-008DL

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM

Case No.: K1110

Mod. Ref No.:

SDG No.: SK1110

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: K1110-09ADL

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V6I1908.D

Level: (TRACE/LOW/MED) LOW

Date Received: 06/27/2011

% Moisture: not dec.

Date Analyzed: 07/05/2011

GC Column: DB-624

ID: 0.25

(mm)

Dilution Factor: 25.0

Soil Extract Volume:

(uL)

Soil Aliquot Volume:

(uL)

Purge Volume: 5.0

(mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	µg/L	Q
75-71-8	Dichlorodifluoromethane		130	U
74-87-3	Chloromethane		130	U
75-01-4	Vinyl chloride		130	U
74-83-9	Bromomethane		130	U
75-00-3	Chloroethane		130	U
75-69-4	Trichlorofluoromethane		130	U
75-35-4	1,1-Dichloroethene		130	U
67-64-1	Acetone		130	U
74-88-4	Iodomethane		130	U
75-15-0	Carbon disulfide		130	U
75-09-2	Methylene chloride		130	U
156-60-5	trans-1,2-Dichloroethene		130	U
1634-04-4	Methyl tert-butyl ether		130	U
75-34-3	1,1-Dichloroethane		130	U
108-05-4	Vinyl acetate		130	U
78-93-3	2-Butanone		130	U
156-59-2	cis-1,2-Dichloroethene		38	DJ
594-20-7	2,2-Dichloropropane		130	U
74-97-5	Bromochloromethane		130	U
67-66-3	Chloroform		130	U
71-55-6	1,1,1-Trichloroethane		130	U
563-58-6	1,1-Dichloropropene		130	U
56-23-5	Carbon tetrachloride		130	U
107-06-2	1,2-Dichloroethane		130	U
71-43-2	Benzene		130	U
79-01-6	Trichloroethene		100	DJ
78-87-5	1,2-Dichloropropane		130	U
74-95-3	Dibromomethane		130	U
75-27-4	Bromodichloromethane		130	U
10061-01-5	cis-1,3-Dichloropropene		130	U
108-10-1	4-Methyl-2-pentanone		130	U
108-88-3	Toluene		130	U
10061-02-6	trans-1,3-Dichloropropene		130	U
79-00-5	1,1,2-Trichloroethane		130	U
142-28-9	1,3-Dichloropropane		130	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-008DL

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM Case No.: K1110

Mod. Ref No.: SDG No.: SK1110

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: K1110-09ADL

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V6I1908.D

Level: (TRACE/LOW/MED) LOW

Date Received: 06/27/2011

% Moisture: not dec.

Date Analyzed: 07/05/2011

GC Column: DB-624

ID: 0.25

(mm)

Dilution Factor: 25.0

Soil Extract Volume:

(uL)

Soil Aliquot Volume:

(uL)

Purge Volume: 5.0

(mL)

CAS NO.	COMPOUND	CONCENTRATION/UNITS: (ug/L or ug/Kg) μ G/L	Q
127-18-4	Tetrachloroethene	1300	D
591-78-6	2-Hexanone	130	U
124-48-1	Dibromochloromethane	130	U
106-93-4	1,2-Dibromoethane	130	U
108-90-7	Chlorobenzene	130	U
630-20-6	1,1,1,2-Tetrachloroethane	130	U
100-41-4	Ethylbenzene	130	U
1330-20-7	m,p-Xylene	130	U
95-47-6	o-Xylene	130	U
1330-20-7	Xylene (Total)	130	U
100-42-5	Styrene	130	U
75-25-2	Bromoform	130	U
98-82-8	Isopropylbenzene	130	U
79-34-5	1,1,2,2-Tetrachloroethane	130	U
108-86-1	Bromobenzene	130	U
96-18-4	1,2,3-Trichloropropane	130	U
95-49-8	2-Chlorotoluene	130	U
108-67-8	1,3,5-Trimethylbenzene	130	U
106-43-4	4-Chlorotoluene	130	U
98-06-6	tert-Butylbenzene	130	U
95-63-6	1,2,4-Trimethylbenzene	130	U
135-98-8	sec-Butylbenzene	130	U
99-87-6	4-Isopropyltoluene	130	U
541-73-1	1,3-Dichlorobenzene	130	U
106-46-7	1,4-Dichlorobenzene	130	U
95-50-1	1,2-Dichlorobenzene	130	U
96-12-8	1,2-Dibromo-3-chloropropane	130	U
120-82-1	1,2,4-Trichlorobenzene	130	U
87-68-3	Hexachlorobutadiene	130	U
87-61-6	1,2,3-Trichlorobenzene	130	U
91-20-3	Naphthalene	130	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	130	U
123-91-1	1,4-Dioxane	2500	U
110-82-7	Cyclohexane	130	U
79-20-9	Methyl acetate	130	U

*check
3/9/11*

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-008DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-09ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1908.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/05/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 25.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/L	
108-87-2	Methylcyclohexane		130	U

*check
8/19/11*

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-008DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-09ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1908.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/05/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 25.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

Cheng
8/9/11

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-009

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-10A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4381.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/05/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U-3
75-01-4	Vinyl chloride	54	
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U-3
75-35-4	1,1-Dichloroethene	5.1	
67-64-1	Acetone	5.0	U-R
74-88-4	Iodomethane	5.0	U-3
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	1.1	J
75-34-3	1,1-Dichloroethane	6.5	
108-05-4	Vinyl acetate	5.0	U-3
78-93-3	2-Butanone	5.0	U-R
156-59-2	cis-1,2-Dichloroethene	51	
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U-3
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	70	
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U-3
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-009

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-10A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4381.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/05/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{g/L}$	Q
127-18-4	Tetrachloroethene	180	
591-78-6	2-Hexanone	5.0	U-3
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	3.0	J
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U-3
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U-2
110-82-7	Cyclohexane	5.0	U-3
79-20-9	Methyl acetate	5.0	U

Handwritten signature/initials

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-009

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-10A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4381.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/05/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µG/L	
108-87-2	Methylcyclohexane		5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-009

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-10A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4381.D

Level: (TRACE or LOW/MED) LOW Date Received: 06/27/2011

% Moisture: not dec. Date Analyzed: 07/05/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	4912-92-9	1H-Indene, 2,3-dihydro-1,1-d	11.837	5.6	NJ
02	488-23-3	Benzene, 1,2,3,4-tetramethyl	11.934	7.7	NJ

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-010

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-16A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1825.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/30/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U 5
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	25	
67-64-1	Acetone	5.0	U 2
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	28	
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U 2
156-59-2	cis-1,2-Dichloroethene	8.5	
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	87	
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-010

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-16A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1825.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/30/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{g/L}$	Q
127-18-4	Tetrachloroethene	20	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U-3
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U-3
87-61-6	1,2,3-Trichlorobenzene	5.0	U-3
91-20-3	Naphthalene	5.0	U-3
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U-R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

Handwritten signature and date: 6/30/11

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-010

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-16A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1825.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/30/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µG/L	
108-87-2	Methylcyclohexane		5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-010

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-16A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1825.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/30/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-011

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-18A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1827.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/30/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ g/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U-5
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U-R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U-R
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	17	5
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-011

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM

Case No.: K1102

Mod. Ref No.:

SDG No.: SK1102

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: K1102-18A

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V6I1827.D

Level: (TRACE/LOW/MED) LOW

Date Received: 06/24/2011

% Moisture: not dec.

Date Analyzed: 06/30/2011

GC Column: DB-624

ID: 0.25

(mm)

Dilution Factor: 1.0

Soil Extract Volume:

(uL)

Soil Aliquot Volume:

(uL)

Purge Volume: 5.0

(mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ g/L	Q
127-18-4	Tetrachloroethene	13	5
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U-3
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U-3
87-61-6	1,2,3-Trichlorobenzene	5.0	U-3
91-20-3	Naphthalene	5.0	U-3
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-011

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-18A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1827.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/30/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µG/L	
108-87-2	Methylcyclohexane		5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-011

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-18A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1827.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/30/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-011RX

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM Case No.: K1102

Mod. Ref No.: SDG No.: SK1102

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: K1102-18ARE

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V8A4415.D

Level: (TRACE/LOW/MED) LOW

Date Received: 06/24/2011

% Moisture: not dec.

Date Analyzed: 07/06/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U R
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	20	
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-011RX

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM Case No.: K1102

Mod. Ref No.: SDG No.: SK1102

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: K1102-18ARE

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V8A4415.D

Level: (TRACE/LOW/MED) LOW

Date Received: 06/24/2011

% Moisture: not dec.

Date Analyzed: 07/06/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ g/L	Q
127-18-4	Tetrachloroethene	5.1	
591-78-6	2-Hexanone	5.0	U-5
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-011RX

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-18ARE
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4415.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 07/06/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µG/L	
108-87-2	Methylcyclohexane		5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-011RX

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-18ARE
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4415.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 07/06/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-012

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-23A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4336.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 07/02/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	3.9	J
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-012

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-23A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4336.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 07/02/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ g/L	Q
127-18-4	Tetrachloroethene	270 340	ED
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-012

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-23A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4336.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 07/02/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/L	
108-87-2	Methylcyclohexane		5.0	U. 3

Check 5/8/11

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-012

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-23A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4336.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 07/02/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-012DL

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM

Case No.: K1102

Mod. Ref No.:

SDG No.: SK1102

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: K1102-23ADL

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V6I1903.D

Level: (TRACE/LOW/MED) LOW

Date Received: 06/24/2011

% Moisture: not dec.

Date Analyzed: 07/05/2011

GC Column: DB-624

ID: 0.25

(mm)

Dilution Factor: 4.0

Soil Extract Volume:

(uL)

Soil Aliquot Volume:

(uL)

Purge Volume: 5.0

(mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
75-71-8	Dichlorodifluoromethane	20	U
74-87-3	Chloromethane	20	U
75-01-4	Vinyl chloride	20	U
74-83-9	Bromomethane	20	U
75-00-3	Chloroethane	20	U
75-69-4	Trichlorofluoromethane	20	U
75-35-4	1,1-Dichloroethene	20	U
67-64-1	Acetone	20	U R
74-88-4	Iodomethane	20	U
75-15-0	Carbon disulfide	20	U
75-09-2	Methylene chloride	20	U
156-60-5	trans-1,2-Dichloroethene	20	U
1634-04-4	Methyl tert-butyl ether	20	U
75-34-3	1,1-Dichloroethane	20	U
108-05-4	Vinyl acetate	20	U
78-93-3	2-Butanone	20	U R
156-59-2	cis-1,2-Dichloroethene	20	U
594-20-7	2,2-Dichloropropane	20	U
74-97-5	Bromochloromethane	20	U
67-66-3	Chloroform	20	U
71-55-6	1,1,1-Trichloroethane	20	U
563-58-6	1,1-Dichloropropene	20	U
56-23-5	Carbon tetrachloride	20	U
107-06-2	1,2-Dichloroethane	20	U
71-43-2	Benzene	1.8	DJ
79-01-6	Trichloroethene	3.4	DJ
78-87-5	1,2-Dichloropropane	20	U
74-95-3	Dibromomethane	20	U
75-27-4	Bromodichloromethane	20	U
10061-01-5	cis-1,3-Dichloropropene	20	U
108-10-1	4-Methyl-2-pentanone	20	U
108-88-3	Toluene	1.7	DJ
10061-02-6	trans-1,3-Dichloropropene	20	U
79-00-5	1,1,2-Trichloroethane	20	U
142-28-9	1,3-Dichloropropane	20	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-012DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-23ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1903.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 07/05/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 4.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µg/L	
127-18-4	Tetrachloroethene		270	D
591-78-6	2-Hexanone		20	U
124-48-1	Dibromochloromethane		20	U
106-93-4	1,2-Dibromoethane		20	U
108-90-7	Chlorobenzene		20	U
630-20-6	1,1,1,2-Tetrachloroethane		20	U
100-41-4	Ethylbenzene		20	U
1330-20-7	m,p-Xylene		3.7	DJ
95-47-6	o-Xylene		20	U
1330-20-7	Xylene (Total)		3.7	DJ
100-42-5	Styrene		20	U
75-25-2	Bromoform		20	U
98-82-8	Isopropylbenzene		20	U
79-34-5	1,1,2,2-Tetrachloroethane		20	U
108-86-1	Bromobenzene		20	U
96-18-4	1,2,3-Trichloropropane		20	U
95-49-8	2-Chlorotoluene		20	U
108-67-8	1,3,5-Trimethylbenzene		20	U
106-43-4	4-Chlorotoluene		20	U
98-06-6	tert-Butylbenzene		20	U
95-63-6	1,2,4-Trimethylbenzene		2.6	DJ
135-98-8	sec-Butylbenzene		20	U
99-87-6	4-Isopropyltoluene		20	U
541-73-1	1,3-Dichlorobenzene		20	U
106-46-7	1,4-Dichlorobenzene		20	U
95-50-1	1,2-Dichlorobenzene		20	U
96-12-8	1,2-Dibromo-3-chloropropane		20	U
120-82-1	1,2,4-Trichlorobenzene		20	U
87-68-3	Hexachlorobutadiene		8.0	DJ
87-61-6	1,2,3-Trichlorobenzene		20	U
91-20-3	Naphthalene		20	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		20	U
123-91-1	1,4-Dioxane		400	U
110-82-7	Cyclohexane		20	U
79-20-9	Methyl acetate		20	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-012DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-23ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1903.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 07/05/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 4.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µG/L	
108-87-2	Methylcyclohexane		20	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-012DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-23ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1903.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 07/05/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 4.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

OK
8/8/11

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-013

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-22A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4385.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/05/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{g/L}$	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U 3
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U 3
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U R
74-88-4	Iodomethane	5.0	U 3
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	2.3	J
75-34-3	1,1-Dichloroethane	2.3	J
108-05-4	Vinyl acetate	5.0	U 3
78-93-3	2-Butanone	5.0	U R
156-59-2	cis-1,2-Dichloroethene	13	3
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U 3
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	36	
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U 3
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-013

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM

Case No.: K1110

Mod. Ref No.:

SDG No.: SK1110

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: K1110-22A

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V8A4385.D

Level: (TRACE/LOW/MED) LOW

Date Received: 06/27/2011

% Moisture: not dec.

Date Analyzed: 07/05/2011

GC Column: DB-624

ID: 0.25

(mm)

Dilution Factor: 1.0

Soil Extract Volume:

(uL)

Soil Aliquot Volume:

(uL)

Purge Volume: 5.0

(mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ g/L	Q
127-18-4	Tetrachloroethene	2100 3400	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	2.3	J
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	1.9	J
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-013

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-22A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4385.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/05/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/L	
108-87-2	Methylcyclohexane		5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-013

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-22A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4385.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/05/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC-013

CLIENT SAMPLE NO.

DUP-062311

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-11A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4344.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/02/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ g/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U-R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U-R
156-59-2	cis-1,2-Dichloroethene	2.5	U-S
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	4.8	J
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	27	
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

check
8/9/11

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC-013
CLIENT SAMPLE NO.
DUP-062311

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-11A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4344.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/02/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{g/L}$	Q
127-18-4	Tetrachloroethene	200 -210	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U-3
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U-2
110-82-7	Cyclohexane	5.0	U-3
79-20-9	Methyl acetate	5.0	U

check
8/9/11


1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC-CA3

CLIENT SAMPLE NO.

DUP-062311

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-11A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4344.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/02/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/L	
108-87-2	Methylcyclohexane		5.0	U. 

Q1110
8/11/11

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC-013
CLIENT SAMPLE NO.
DUP-062311

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-11A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4344.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/02/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{G/L}$ Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC 013

CLIENT SAMPLE NO.

DUP-062311DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-11ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4379.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/05/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 2.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
67-64-1	Acetone	10	U
74-88-4	Iodomethane	10	U
75-15-0	Carbon disulfide	10	U
75-09-2	Methylene chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-butyl ether	10	U
75-34-3	1,1-Dichloroethane	10	U
108-05-4	Vinyl acetate	10	U
78-93-3	2-Butanone	10	U
156-59-2	cis-1,2-Dichloroethene	2.7	DJ
594-20-7	2,2-Dichloropropane	10	U
74-97-5	Bromochloromethane	10	U
67-66-3	Chloroform	4.3	DJ
71-55-6	1,1,1-Trichloroethane	10	U
563-58-6	1,1-Dichloropropene	10	U
56-23-5	Carbon tetrachloride	10	U
107-06-2	1,2-Dichloroethane	10	U
71-43-2	Benzene	10	U
79-01-6	Trichloroethene	27	D
78-87-5	1,2-Dichloropropane	10	U
74-95-3	Dibromomethane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
142-28-9	1,3-Dichloropropane	10	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
DUP-062311DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-11ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4379.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/05/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 2.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ g/L	Q
127-18-4	Tetrachloroethene	200	D
591-78-6	2-Hexanone	10	U <i>5</i>
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
630-20-6	1,1,1,2-Tetrachloroethane	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	m,p-Xylene	10	U
95-47-6	o-Xylene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-86-1	Bromobenzene	10	U
96-18-4	1,2,3-Trichloropropane	10	U
95-49-8	2-Chlorotoluene	10	U
108-67-8	1,3,5-Trimethylbenzene	10	U
106-43-4	4-Chlorotoluene	10	U
98-06-6	tert-Butylbenzene	10	U
95-63-6	1,2,4-Trimethylbenzene	10	U
135-98-8	sec-Butylbenzene	10	U
99-87-6	4-Isopropyltoluene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U <i>5</i>
87-61-6	1,2,3-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
123-91-1	1,4-Dioxane	200	U <i>R</i>
110-82-7	Cyclohexane	10	U <i>5</i>
79-20-9	Methyl acetate	10	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC-013
CLIENT SAMPLE NO.
DUP-062311DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-11ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4379.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/05/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 2.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/L	
108-87-2	Methylcyclohexane		10	U

Handwritten signature/initials
8/9/11

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC-013
CLIENT SAMPLE NO.
DUP-062311DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-11ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4379.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/05/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 2.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

Depot
8/9/11

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-013D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-07A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4265.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 06/30/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{g/L}$	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U R
156-59-2	cis-1,2-Dichloroethene	2.1	J
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	4.8	J
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U S
79-01-6	Trichloroethene	24	
78-87-5	1,2-Dichloropropane	5.0	U S
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-013D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-07A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4265.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 06/30/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
127-18-4	Tetrachloroethene	190	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U-B
110-82-7	Cyclohexane	5.0	U-3
79-20-9	Methyl acetate	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-013D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-07A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4265.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 06/30/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	µG/L
108-87-2	Methylcyclohexane	5.0	U-5

Handwritten signature and date 8/9/11

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-013D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-07A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4265.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 06/30/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-013DL

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM Case No.: K1110

Mod. Ref No.: SDG No.: SK1110

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: K1110-22ADL

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V6I1944.D

Level: (TRACE/LOW/MED) LOW

Date Received: 06/27/2011

% Moisture: not dec.

Date Analyzed: 07/06/2011

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 40.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
75-71-8	Dichlorodifluoromethane	200	U
74-87-3	Chloromethane	200	U-3
75-01-4	Vinyl chloride	200	U-3
74-83-9	Bromomethane	200	U
75-00-3	Chloroethane	200	U
75-69-4	Trichlorofluoromethane	200	U
75-35-4	1,1-Dichloroethene	200	U
67-64-1	Acetone	200	U R
74-88-4	Iodomethane	200	U
75-15-0	Carbon disulfide	200	U
75-09-2	Methylene chloride	200	U
156-60-5	trans-1,2-Dichloroethene	200	U
1634-04-4	Methyl tert-butyl ether	200	U
75-34-3	1,1-Dichloroethane	200	U
108-05-4	Vinyl acetate	200	U
78-93-3	2-Butanone	200	U R
156-59-2	cis-1,2-Dichloroethene	200	U
594-20-7	2,2-Dichloropropane	200	U
74-97-5	Bromochloromethane	200	U
67-66-3	Chloroform	200	U
71-55-6	1,1,1-Trichloroethane	200	U
563-58-6	1,1-Dichloropropene	200	U
56-23-5	Carbon tetrachloride	200	U
107-06-2	1,2-Dichloroethane	200	U
71-43-2	Benzene	200	U
79-01-6	Trichloroethene	200	U
78-87-5	1,2-Dichloropropane	200	U
74-95-3	Dibromomethane	200	U
75-27-4	Bromodichloromethane	200	U
10061-01-5	cis-1,3-Dichloropropene	200	U
108-10-1	4-Methyl-2-pentanone	200	U
108-88-3	Toluene	200	U
10061-02-6	trans-1,3-Dichloropropene	200	U
79-00-5	1,1,2-Trichloroethane	200	U
142-28-9	1,3-Dichloropropane	200	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-013DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-22ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1944.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/06/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 40.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
127-18-4	Tetrachloroethene	2100	D
591-78-6	2-Hexanone	200	U
124-48-1	Dibromochloromethane	200	U
106-93-4	1,2-Dibromoethane	200	U
108-90-7	Chlorobenzene	200	U
630-20-6	1,1,1,2-Tetrachloroethane	200	U
100-41-4	Ethylbenzene	200	U
1330-20-7	m,p-Xylene	200	U
95-47-6	o-Xylene	200	U
1330-20-7	Xylene (Total)	200	U
100-42-5	Styrene	200	U
75-25-2	Bromoform	200	U
98-82-8	Isopropylbenzene	200	U
79-34-5	1,1,2,2-Tetrachloroethane	200	U
108-86-1	Bromobenzene	200	U
96-18-4	1,2,3-Trichloropropane	200	U
95-49-8	2-Chlorotoluene	200	U
108-67-8	1,3,5-Trimethylbenzene	200	U
106-43-4	4-Chlorotoluene	200	U
98-06-6	tert-Butylbenzene	200	U
95-63-6	1,2,4-Trimethylbenzene	200	U
135-98-8	sec-Butylbenzene	200	U
99-87-6	4-Isopropyltoluene	200	U
541-73-1	1,3-Dichlorobenzene	200	U
106-46-7	1,4-Dichlorobenzene	200	U
95-50-1	1,2-Dichlorobenzene	200	U
96-12-8	1,2-Dibromo-3-chloropropane	200	U
120-82-1	1,2,4-Trichlorobenzene	200	U
87-68-3	Hexachlorobutadiene	200	U
87-61-6	1,2,3-Trichlorobenzene	200	U
91-20-3	Naphthalene	200	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	200	U
123-91-1	1,4-Dioxane	4000	U R
110-82-7	Cyclohexane	200	U
79-20-9	Methyl acetate	200	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-013DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-22ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1944.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/06/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 40.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µG/L	
108-87-2	Methylcyclohexane		200	U

Check 8/9/11

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-013DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-22ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1944.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/06/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 40.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

Handwritten signature/initials

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-014D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-13A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4382.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/05/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{g/L}$	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U-5
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U-5
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U-R
74-88-4	Iodomethane	5.0	U-5
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	3.8	J
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U-5
78-93-3	2-Butanone	5.0	U-R
156-59-2	cis-1,2-Dichloroethene	1.6	J
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U-5
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	3.6	J
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U-5
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-014D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-13A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4382.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/05/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
127-18-4	Tetrachloroethene	26	
591-78-6	2-Hexanone	5.0	U 3
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U 3
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U 3
110-82-7	Cyclohexane	5.0	U 3
79-20-9	Methyl acetate	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-014D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-13A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4382.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/05/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	µG/L
108-87-2	Methylcyclohexane	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-014D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-13A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4382.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/05/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-014R

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-12A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4345.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/02/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{g/L}$	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	1.6	J
67-64-1	Acetone	5.0	U R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U R
156-59-2	cis-1,2-Dichloroethene	39	5
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	6.2	
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	1.0	J
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U S
79-01-6	Trichloroethene	300	E S
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-014R

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-12A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4345.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/02/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ g/L	Q
127-18-4	Tetrachloroethene	44000 25000-	ND
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	9.5	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U-5
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U-5
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	4.3	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R
110-82-7	Cyclohexane	5.0	U-5
79-20-9	Methyl acetate	5.0	U

Handwritten signature and date: 8/9/11

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-014R

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-12A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4345.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/02/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/L	
108-87-2	Methylcyclohexane		5.0	U 3

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-014R

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-12A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4345.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/02/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

Handwritten signature and date: 8/9/11

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-014RDL

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM Case No.: K1110

Mod. Ref No.: SDG No.: SK1110

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: K1110-12ADL

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V8A4380.D

Level: (TRACE/LOW/MED) LOW

Date Received: 06/27/2011

% Moisture: not dec.

Date Analyzed: 07/05/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 500.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
75-71-8	Dichlorodifluoromethane	2500	U
74-87-3	Chloromethane	2500	U-3
75-01-4	Vinyl chloride	2500	U
74-83-9	Bromomethane	2500	U
75-00-3	Chloroethane	2500	U
75-69-4	Trichlorofluoromethane	2500	U-3
75-35-4	1,1-Dichloroethene	2500	U
67-64-1	Acetone	2500	U-R
74-88-4	Iodomethane	2500	U-3
75-15-0	Carbon disulfide	2500	U
75-09-2	Methylene chloride	2500	U
156-60-5	trans-1,2-Dichloroethene	2500	U
1634-04-4	Methyl tert-butyl ether	2500	U
75-34-3	1,1-Dichloroethane	2500	U
108-05-4	Vinyl acetate	2500	U-3
78-93-3	2-Butanone	2500	U-R
156-59-2	cis-1,2-Dichloroethene	2500	U
594-20-7	2,2-Dichloropropane	2500	U
74-97-5	Bromochloromethane	2500	U
67-66-3	Chloroform	2500	U
71-55-6	1,1,1-Trichloroethane	2500	U
563-58-6	1,1-Dichloropropene	2500	U
56-23-5	Carbon tetrachloride	2500	U-3
107-06-2	1,2-Dichloroethane	2500	U
71-43-2	Benzene	2500	U
79-01-6	Trichloroethene	2500	U
78-87-5	1,2-Dichloropropane	2500	U
74-95-3	Dibromomethane	2500	U
75-27-4	Bromodichloromethane	2500	U
10061-01-5	cis-1,3-Dichloropropene	2500	U
108-10-1	4-Methyl-2-pentanone	2500	U-3
108-88-3	Toluene	2500	U
10061-02-6	trans-1,3-Dichloropropene	2500	U
79-00-5	1,1,2-Trichloroethane	2500	U
142-28-9	1,3-Dichloropropane	2500	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-014RDL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-12ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4380.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/05/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 500.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{g/L}$	Q
127-18-4	Tetrachloroethene	44000	D
591-78-6	2-Hexanone	2500	U 3
124-48-1	Dibromochloromethane	2500	U
106-93-4	1,2-Dibromoethane	2500	U
108-90-7	Chlorobenzene	2500	U
630-20-6	1,1,1,2-Tetrachloroethane	2500	U
100-41-4	Ethylbenzene	2500	U
1330-20-7	m,p-Xylene	2500	U
95-47-6	o-Xylene	2500	U
1330-20-7	Xylene (Total)	2500	U
100-42-5	Styrene	2500	U
75-25-2	Bromoform	2500	U
98-82-8	Isopropylbenzene	2500	U
79-34-5	1,1,2,2-Tetrachloroethane	2500	U
108-86-1	Bromobenzene	2500	U
96-18-4	1,2,3-Trichloropropane	2500	U
95-49-8	2-Chlorotoluene	2500	U
108-67-8	1,3,5-Trimethylbenzene	2500	U
106-43-4	4-Chlorotoluene	2500	U
98-06-6	tert-Butylbenzene	2500	U
95-63-6	1,2,4-Trimethylbenzene	2500	U
135-98-8	sec-Butylbenzene	2500	U
99-87-6	4-Isopropyltoluene	2500	U
541-73-1	1,3-Dichlorobenzene	2500	U
106-46-7	1,4-Dichlorobenzene	2500	U
95-50-1	1,2-Dichlorobenzene	2500	U
96-12-8	1,2-Dibromo-3-chloropropane	2500	U
120-82-1	1,2,4-Trichlorobenzene	2500	U
87-68-3	Hexachlorobutadiene	2500	U 3
87-61-6	1,2,3-Trichlorobenzene	2500	U
91-20-3	Naphthalene	2500	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2500	U
123-91-1	1,4-Dioxane	50000	U 2
110-82-7	Cyclohexane	2500	U 3
79-20-9	Methyl acetate	2500	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-014RDL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-12ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4380.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/05/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 500.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/L	
108-87-2	Methylcyclohexane		2500	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-014RDL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-12ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4380.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/05/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 500.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

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1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-015

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-26A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4339.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 07/02/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ g/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U-R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	6.9	
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U-R
156-59-2	cis-1,2-Dichloroethene	8.8	
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	9.2	
71-55-6	1,1,1-Trichloroethane	2.0	J
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	13	
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-015

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-26A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4339.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 07/02/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{g/L}$	Q
127-18-4	Tetrachloroethene	140	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	400	U
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-015

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-26A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4339.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 07/02/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µG/L	
108-87-2	Methylcyclohexane		5.0	U.S.

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1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-015

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-26A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4339.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 07/02/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-015D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-27A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4340.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 07/02/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/L</u>	<u>Q</u>
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	7.2	
67-64-1	Acetone	5.0	U-R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	1.7	J
75-34-3	1,1-Dichloroethane	2.8	J
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U-R
156-59-2	cis-1,2-Dichloroethene	9.5	
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	2.2	J
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	42	
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-015D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-27A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4340.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 07/02/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
127-18-4	Tetrachloroethene	640 890	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-015D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-27A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4340.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 07/02/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µG/L	
108-87-2	Methylcyclohexane	5.0		U 5

Handwritten signature/initials

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-015D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-27A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4340.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 07/02/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-015DDL

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM Case No.: K1102

Mod. Ref No.: SDG No.: SK1102

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: K1102-27ADL

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V6I1905.D

Level: (TRACE/LOW/MED) LOW

Date Received: 06/24/2011

% Moisture: not dec.

Date Analyzed: 07/05/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 8.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
75-71-8	Dichlorodifluoromethane	40	U
74-87-3	Chloromethane	40	U
75-01-4	Vinyl chloride	40	U
74-83-9	Bromomethane	40	U
75-00-3	Chloroethane	40	U
75-69-4	Trichlorofluoromethane	40	U
75-35-4	1,1-Dichloroethene	40	U
67-64-1	Acetone	40	U-R
74-88-4	Iodomethane	40	U
75-15-0	Carbon disulfide	40	U
75-09-2	Methylene chloride	40	U
156-60-5	trans-1,2-Dichloroethene	40	U
1634-04-4	Methyl tert-butyl ether	40	U
75-34-3	1,1-Dichloroethane	40	U
108-05-4	Vinyl acetate	40	U
78-93-3	2-Butanone	40	U-R
156-59-2	cis-1,2-Dichloroethene	7.7	DJ
594-20-7	2,2-Dichloropropane	40	U
74-97-5	Bromochloromethane	40	U
67-66-3	Chloroform	40	U
71-55-6	1,1,1-Trichloroethane	40	U
563-58-6	1,1-Dichloropropene	40	U
56-23-5	Carbon tetrachloride	40	U
107-06-2	1,2-Dichloroethane	40	U
71-43-2	Benzene	40	U
79-01-6	Trichloroethene	36	DJ
78-87-5	1,2-Dichloropropane	40	U
74-95-3	Dibromomethane	40	U
75-27-4	Bromodichloromethane	40	U
10061-01-5	cis-1,3-Dichloropropene	40	U
108-10-1	4-Methyl-2-pentanone	40	U
108-88-3	Toluene	40	U
10061-02-6	trans-1,3-Dichloropropene	40	U
79-00-8	1,1,2-Trichloroethane	40	U
142-28-9	1,3-Dichloropropane	40	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-015DDL

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM

Case No.: K1102

Mod. Ref No.:

SDG No.: SK1102

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: K1102-27ADL

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V6I1905.D

Level: (TRACE/LOW/MED) LOW

Date Received: 06/24/2011

% Moisture: not dec.

Date Analyzed: 07/05/2011

GC Column: DB-624

ID: 0.25

(mm)

Dilution Factor: 8.0

Soil Extract Volume:

(uL)

Soil Aliquot Volume:

(uL)

Purge Volume: 5.0

(mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
127-18-4	Tetrachloroethene	640	D
591-78-6	2-Hexanone	40	U
124-48-1	Dibromochloromethane	40	U
106-93-4	1,2-Dibromoethane	40	U
108-90-7	Chlorobenzene	40	U
630-20-6	1,1,1,2-Tetrachloroethane	40	U
100-41-4	Ethylbenzene	40	U
1330-20-7	m,p-Xylene	40	U
95-47-6	o-Xylene	40	U
1330-20-7	Xylene (Total)	40	U
100-42-5	Styrene	40	U
75-25-2	Bromoform	40	U
98-82-8	Isopropylbenzene	40	U
79-34-5	1,1,2,2-Tetrachloroethane	40	U
108-86-1	Bromobenzene	40	U
96-18-4	1,2,3-Trichloropropane	40	U
95-49-8	2-Chlorotoluene	40	U
108-67-8	1,3,5-Trimethylbenzene	40	U
106-43-4	4-Chlorotoluene	40	U
98-06-6	tert-Butylbenzene	40	U
95-63-6	1,2,4-Trimethylbenzene	40	U
135-98-8	sec-Butylbenzene	40	U
99-87-6	4-Isopropyltoluene	40	U
541-73-1	1,3-Dichlorobenzene	40	U
106-46-7	1,4-Dichlorobenzene	40	U
95-50-1	1,2-Dichlorobenzene	40	U
96-12-8	1,2-Dibromo-3-chloropropane	40	U
120-82-1	1,2,4-Trichlorobenzene	40	U
87-68-3	Hexachlorobutadiene	40	U
87-61-6	1,2,3-Trichlorobenzene	40	U
91-20-3	Naphthalene	40	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	40	U
123-91-1	1,4-Dioxane	800	U-R
110-82-7	Cyclohexane	40	U
79-20-9	Methyl acetate	40	U

Check
8/8/11

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-015DDL

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM Case No.: K1102

Mod. Ref No.: SDG No.: SK1102

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: K1102-27ADL

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V6I1905.D

Level: (TRACE/LOW/MED) LOW

Date Received: 06/24/2011

% Moisture: not dec.

Date Analyzed: 07/05/2011

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 8.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µG/L	
108-87-2	Methylcyclohexane		40	U

copy 8/3/11

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-015DDL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-27ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1905.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 07/05/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 8.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

QPSX
8/8/11

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-022D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-01A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4228.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 06/29/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{g/L}$	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	2.0	J
75-35-4	1,1-Dichloroethene	1.8	J
67-64-1	Acetone	5.0	U <i>R</i>
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	1.3	J
75-34-3	1,1-Dichloroethane	5.6	
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U <i>R</i>
156-59-2	cis-1,2-Dichloroethene	42	
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	3.5	J
71-55-6	1,1,1-Trichloroethane	2.6	J
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	94	
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-022D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-01A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4228.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 06/29/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{g/L}$	Q
127-18-4	Tetrachloroethene	1300 1500	F/D
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U-R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-022D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-01A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4228.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 06/29/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/L	
108-87-2	Methylcyclohexane		5.0	U-5

Handwritten signature and date:
2/9/11

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-022D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-01A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4228.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 06/29/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-022DDL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-01ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4267.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 06/30/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 16.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{g/L}$	Q
75-71-8	Dichlorodifluoromethane	80	U
74-87-3	Chloromethane	80	U
75-01-4	Vinyl chloride	80	U
74-83-9	Bromomethane	80	U
75-00-3	Chloroethane	80	U
75-69-4	Trichlorofluoromethane	80	U
75-35-4	1,1-Dichloroethene	80	U
67-64-1	Acetone	80	U-R
74-88-4	Iodomethane	80	U
75-15-0	Carbon disulfide	80	U
75-09-2	Methylene chloride	80	U
156-60-5	trans-1,2-Dichloroethene	80	U
1634-04-4	Methyl tert-butyl ether	80	U
75-34-3	1,1-Dichloroethane	80	U
108-05-4	Vinyl acetate	80	U
78-93-3	2-Butanone	80	U-R
156-59-2	cis-1,2-Dichloroethene	39	DJ
594-20-7	2,2-Dichloropropane	80	U
74-97-5	Bromochloromethane	80	U
67-66-3	Chloroform	80	U
71-55-6	1,1,1-Trichloroethane	80	U
563-58-6	1,1-Dichloropropene	80	U
56-23-5	Carbon tetrachloride	80	U
107-06-2	1,2-Dichloroethane	80	U
71-43-2	Benzene	80	U-3
79-01-6	Trichloroethene	86	D
78-87-5	1,2-Dichloropropane	80	U-3
74-95-3	Dibromomethane	80	U
75-27-4	Bromodichloromethane	80	U
10061-01-5	cis-1,3-Dichloropropene	80	U
108-10-1	4-Methyl-2-pentanone	80	U
108-88-3	Toluene	80	U
10061-02-6	trans-1,3-Dichloropropene	80	U
79-00-5	1,1,2-Trichloroethane	80	U
142-28-9	1,3-Dichloropropane	80	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-022DDL

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM

Case No.: K1110

Mod. Ref No.:

SDG No.: SK1110

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: K1110-01ADL

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V8A4267.D

Level: (TRACE/LOW/MED) LOW

Date Received: 06/27/2011

% Moisture: not dec.

Date Analyzed: 06/30/2011

GC Column: DB-624

ID: 0.25

(mm)

Dilution Factor: 16.0

Soil Extract Volume:

(uL)

Soil Aliquot Volume:

(uL)

Purge Volume: 5.0

(mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µG/L	
127-18-4	Tetrachloroethene		1300	D
591-78-6	2-Hexanone		80	U
124-48-1	Dibromochloromethane		80	U
106-93-4	1,2-Dibromoethane		80	U
108-90-7	Chlorobenzene		80	U
630-20-6	1,1,1,2-Tetrachloroethane		80	U
100-41-4	Ethylbenzene		80	U
1330-20-7	m,p-Xylene		80	U
95-47-6	o-Xylene		80	U
1330-20-7	Xylene (Total)		80	U
100-42-5	Styrene		80	U
75-25-2	Bromoform		80	U
98-82-8	Isopropylbenzene		80	U
79-34-5	1,1,2,2-Tetrachloroethane		80	U
108-86-1	Bromobenzene		80	U
96-18-4	1,2,3-Trichloropropane		80	U
95-49-8	2-Chlorotoluene		80	U
108-67-8	1,3,5-Trimethylbenzene		80	U
106-43-4	4-Chlorotoluene		80	U
98-06-6	tert-Butylbenzene		80	U
95-63-6	1,2,4-Trimethylbenzene		80	U
135-98-8	sec-Butylbenzene		80	U
99-87-6	4-Isopropyltoluene		80	U
541-73-1	1,3-Dichlorobenzene		80	U
106-46-7	1,4-Dichlorobenzene		80	U
95-50-1	1,2-Dichlorobenzene		80	U
96-12-8	1,2-Dibromo-3-chloropropane		80	U
120-82-1	1,2,4-Trichlorobenzene		80	U
87-68-3	Hexachlorobutadiene		80	U
87-61-6	1,2,3-Trichlorobenzene		80	U
91-20-3	Naphthalene		80	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		80	U
123-91-1	1,4-Dioxane		1600	U-R
110-82-7	Cyclohexane		80	U-5
79-20-9	Methyl acetate		80	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-022DDL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-01ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4267.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 06/30/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 16.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
108-87-2	Methylcyclohexane	80	U <i>5</i>

Handwritten signature and date 8/19/11

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-022DDL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-01ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4267.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 06/30/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 16.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

Handwritten signature and date 8/9/11

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-027

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-18A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1952.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/06/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U 3
75-01-4	Vinyl chloride	5.0	U 3
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	2.1	J
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	3.9	J
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U R
156-59-2	cis-1,2-Dichloroethene	48	
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	750	ED
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-027

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-18A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1952.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/06/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{g/L}$	Q
127-18-4	Tetrachloroethene	34	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

Handwritten signature/initials

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
DEC-027

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-18A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1952.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/06/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) $\mu\text{G/L}$	Q
108-87-2	Methylcyclohexane	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-027

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-18A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V611952.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/06/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-027DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-18ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4451.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/07/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 10.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µg/L	
75-71-8	Dichlorodifluoromethane		50	U
74-87-3	Chloromethane		50	U
75-01-4	Vinyl chloride		50	U
74-83-9	Bromomethane		50	U
75-00-3	Chloroethane		50	U
75-69-4	Trichlorofluoromethane		50	U
75-35-4	1,1-Dichloroethene		50	U
67-64-1	Acetone		50	U
74-88-4	Iodomethane		50	U
75-15-0	Carbon disulfide		50	U
75-09-2	Methylene chloride		50	U
156-60-5	trans-1,2-Dichloroethene		50	U
1634-04-4	Methyl tert-butyl ether		50	U
75-34-3	1,1-Dichloroethane		50	U
108-05-4	Vinyl acetate		50	U
78-93-3	2-Butanone		50	U
156-59-2	cis-1,2-Dichloroethene		64	D
594-20-7	2,2-Dichloropropane		50	U
74-97-5	Bromochloromethane		50	U
67-66-3	Chloroform		50	U
71-55-6	1,1,1-Trichloroethane		50	U
563-58-6	1,1-Dichloropropene		50	U
56-23-5	Carbon tetrachloride		50	U
107-06-2	1,2-Dichloroethane		50	U
71-43-2	Benzene		50	U
79-01-6	Trichloroethene		750	D
78-87-5	1,2-Dichloropropane		50	U
74-95-3	Dibromomethane		50	U
75-27-4	Bromodichloromethane		50	U
10061-01-5	cis-1,3-Dichloropropene		50	U
108-10-1	4-Methyl-2-pentanone		50	U
108-88-3	Toluene		50	U
10061-02-6	trans-1,3-Dichloropropene		50	U
79-00-5	1,1,2-Trichloroethane		50	U
142-28-9	1,3-Dichloropropane		50	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-027DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-18ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4451.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/07/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 10.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/L	
127-18-4	Tetrachloroethene		33	DJ
591-78-6	2-Hexanone		50	U
124-48-1	Dibromochloromethane		50	U
106-93-4	1,2-Dibromoethane		50	U
108-90-7	Chlorobenzene		50	U
630-20-6	1,1,1,2-Tetrachloroethane		50	U
100-41-4	Ethylbenzene		50	U
1330-20-7	m,p-Xylene		50	U
95-47-6	o-Xylene		50	U
1330-20-7	Xylene (Total)		50	U
100-42-5	Styrene		50	U
75-25-2	Bromoform		50	U
98-82-8	Isopropylbenzene		50	U
79-34-5	1,1,2,2-Tetrachloroethane		50	U
108-86-1	Bromobenzene		50	U
96-18-4	1,2,3-Trichloropropane		50	U
95-49-8	2-Chlorotoluene		50	U
108-67-8	1,3,5-Trimethylbenzene		50	U
106-43-4	4-Chlorotoluene		50	U
98-06-6	tert-Butylbenzene		50	U
95-63-6	1,2,4-Trimethylbenzene		50	U
135-98-8	sec-Butylbenzene		50	U
99-87-6	4-Isopropyltoluene		50	U
541-73-1	1,3-Dichlorobenzene		50	U
106-46-7	1,4-Dichlorobenzene		50	U
95-50-1	1,2-Dichlorobenzene		50	U
96-12-8	1,2-Dibromo-3-chloropropane		50	U
120-82-1	1,2,4-Trichlorobenzene		50	U
87-68-3	Hexachlorobutadiene		50	U
87-61-6	1,2,3-Trichlorobenzene		50	U
91-20-3	Naphthalene		50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		50	U
123-91-1	1,4-Dioxane		1000	U
110-82-7	Cyclohexane		50	U
79-20-9	Methyl acetate		50	U

Copy 8/11

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-027DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-18ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4451.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/07/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 10.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/L	
108-87-2	Methylcyclohexane		50	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-027DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-18ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4451.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/07/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 10.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

Handwritten signature
8/9/11

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-028

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-20A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1829.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/30/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>µg/L</u>	<u>Q</u>
75-71-8	Dichlorodifluoromethane	5.0	U-3
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	1.5	J
67-64-1	Acetone	5.0	U-2
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	1.9	J
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	3.0	J
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U-2
156-59-2	cis-1,2-Dichloroethene	52	
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	220 270	U-2
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

Handwritten signature and date: 8/18/11

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-028

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-20A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1829.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/30/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{g/L}$	Q
127-18-4	Tetrachloroethene	2300 2400	U D
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	3.4	J
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U S
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U S
87-61-6	1,2,3-Trichlorobenzene	5.0	U S
91-20-3	Naphthalene	5.0	U S
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U B
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
DEC-028

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-20A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1829.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/30/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) <u>µG/L</u>	<u>Q</u>
108-87-2	Methylcyclohexane	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-028

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-20A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1829.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/30/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-028DL

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM Case No.: K1102

Mod. Ref No.: SDG No.: SK1102

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: K1102-20ADL

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V6I1873.D

Level: (TRACE/LOW/MED) LOW

Date Received: 06/24/2011

% Moisture: not dec.

Date Analyzed: 07/01/2011

GC Column: DB-624

ID: 0.25

(mm)

Dilution Factor: 20.0

Soil Extract Volume:

(uL)

Soil Aliquot Volume:

(uL)

Purge Volume: 5.0

(mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{g/L}$	Q
75-71-8	Dichlorodifluoromethane	100	U
74-87-3	Chloromethane	100	U <i>3</i>
75-01-4	Vinyl chloride	100	U <i>3</i>
74-83-9	Bromomethane	100	U <i>3</i>
75-00-3	Chloroethane	100	U
75-69-4	Trichlorofluoromethane	100	U
75-35-4	1,1-Dichloroethene	100	U
67-64-1	Acetone	100	U-R
74-88-4	Iodomethane	100	U
75-15-0	Carbon disulfide	100	U
75-09-2	Methylene chloride	100	U
156-60-5	trans-1,2-Dichloroethene	100	U
1634-04-4	Methyl tert-butyl ether	100	U
75-34-3	1,1-Dichloroethane	100	U
108-05-4	Vinyl acetate	100	U
78-93-3	2-Butanone	100	U-R
156-59-2	cis-1,2-Dichloroethene	40	DJ
594-20-7	2,2-Dichloropropane	100	U
74-97-5	Bromochloromethane	100	U
67-66-3	Chloroform	100	U
71-55-6	1,1,1-Trichloroethane	100	U
563-58-6	1,1-Dichloropropene	100	U
56-23-5	Carbon tetrachloride	100	U
107-06-2	1,2-Dichloroethane	100	U
71-43-2	Benzene	100	U
79-01-6	Trichloroethene	220	D
78-87-5	1,2-Dichloropropane	100	U
74-95-3	Dibromomethane	100	U
75-27-4	Bromodichloromethane	100	U
10061-01-5	cis-1,3-Dichloropropene	100	U
108-10-1	4-Methyl-2-pentanone	100	U
108-88-3	Toluene	100	U
10061-02-6	trans-1,3-Dichloropropene	100	U
79-00-5	1,1,2-Trichloroethane	100	U
142-28-9	1,3-Dichloropropane	100	U

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-028DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-20ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1873.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 07/01/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 20.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
127-18-4	Tetrachloroethene	2300	D
591-78-6	2-Hexanone	100	U
124-48-1	Dibromochloromethane	100	U
106-93-4	1,2-Dibromoethane	100	U
108-90-7	Chlorobenzene	100	U
630-20-6	1,1,1,2-Tetrachloroethane	100	U
100-41-4	Ethylbenzene	100	U
1330-20-7	m,p-Xylene	100	U
95-47-6	o-Xylene	100	U
1330-20-7	Xylene (Total)	100	U
100-42-5	Styrene	100	U
75-25-2	Bromoform	100	U
98-82-8	Isopropylbenzene	100	U
79-34-5	1,1,2,2-Tetrachloroethane	100	U
108-86-1	Bromobenzene	100	U
96-18-4	1,2,3-Trichloropropane	100	U
95-49-8	2-Chlorotoluene	100	U
108-67-8	1,3,5-Trimethylbenzene	100	U
106-43-4	4-Chlorotoluene	100	U
98-06-6	tert-Butylbenzene	100	U
95-63-6	1,2,4-Trimethylbenzene	100	U
135-98-8	sec-Butylbenzene	100	U
99-87-6	4-Isopropyltoluene	100	U
541-73-1	1,3-Dichlorobenzene	100	U
106-46-7	1,4-Dichlorobenzene	100	U
95-50-1	1,2-Dichlorobenzene	100	U
96-12-8	1,2-Dibromo-3-chloropropane	100	U
120-82-1	1,2,4-Trichlorobenzene	100	U
87-68-3	Hexachlorobutadiene	100	U
87-61-6	1,2,3-Trichlorobenzene	100	U
91-20-3	Naphthalene	100	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	100	U
123-91-1	1,4-Dioxane	2000	U R
110-82-7	Cyclohexane	100	U
79-20-9	Methyl acetate	100	U

CHALK
8/11

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-028DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-20ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1873.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 07/01/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 20.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µG/L	
108-87-2	Methylcyclohexane		100	U

Depx 8/1/11

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-028DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-20ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1873.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 07/01/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 20.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

Handwritten signature and date 8/2/11

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-029

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-14A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4383.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/05/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U <i>S</i>
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U <i>S</i>
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U <i>R</i>
74-88-4	Iodomethane	5.0	U <i>S</i>
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U <i>S</i>
78-93-3	2-Butanone	5.0	U <i>R</i>
156-59-2	cis-1,2-Dichloroethene	8.2	<i>S</i>
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	1.0	J
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U <i>S</i>
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	7.4	
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U <i>S</i>
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-029

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-14A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4383.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/05/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
127-18-4	Tetrachloroethene	5100 6500	U D
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	1.1	J
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-029

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-14A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4383.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/05/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/L	
108-87-2	Methylcyclohexane		5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-029

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-14A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4383.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/05/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-029DL

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM Case No.: K1110

Mod. Ref No.: SDG No.: SK1110

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: K1110-14ADL

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V6I1945.D

Level: (TRACE/LOW/MED) LOW

Date Received: 06/27/2011

% Moisture: not dec.

Date Analyzed: 07/06/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 100.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
75-71-8	Dichlorodifluoromethane	500	U
74-87-3	Chloromethane	500	U
75-01-4	Vinyl chloride	500	U
74-83-9	Bromomethane	500	U
75-00-3	Chloroethane	500	U
75-69-4	Trichlorofluoromethane	500	U
75-35-4	1,1-Dichloroethene	500	U
67-64-1	Acetone	500	U R
74-88-4	Iodomethane	500	U
75-15-0	Carbon disulfide	500	U
75-09-2	Methylene chloride	500	U
156-60-5	trans-1,2-Dichloroethene	500	U
1634-04-4	Methyl tert-butyl ether	500	U
75-34-3	1,1-Dichloroethane	500	U
108-05-4	Vinyl acetate	500	U
78-93-3	2-Butanone	500	U R
156-59-2	cis-1,2-Dichloroethene	500	U
594-20-7	2,2-Dichloropropane	500	U
74-97-5	Bromochloromethane	500	U
67-66-3	Chloroform	500	U
71-55-6	1,1,1-Trichloroethane	500	U
563-58-6	1,1-Dichloropropene	500	U
56-23-5	Carbon tetrachloride	500	U
107-06-2	1,2-Dichloroethane	500	U
71-43-2	Benzene	500	U
79-01-6	Trichloroethene	500	U
78-87-5	1,2-Dichloropropane	500	U
74-95-3	Dibromomethane	500	U
75-27-4	Bromodichloromethane	500	U
10061-01-5	cis-1,3-Dichloropropene	500	U
108-10-1	4-Methyl-2-pentanone	500	U
108-88-3	Toluene	500	U
10061-02-6	trans-1,3-Dichloropropene	500	U
79-00-5	1,1,2-Trichloroethane	500	U
142-28-9	1,3-Dichloropropane	500	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-029DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-14ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1945.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/06/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 100.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{g/L}$	Q
127-18-4	Tetrachloroethene	5700	D
591-78-6	2-Hexanone	500	U
124-48-1	Dibromochloromethane	500	U
106-93-4	1,2-Dibromoethane	500	U
108-90-7	Chlorobenzene	500	U
630-20-6	1,1,1,2-Tetrachloroethane	500	U
100-41-4	Ethylbenzene	500	U
1330-20-7	m,p-Xylene	500	U
95-47-6	o-Xylene	500	U
1330-20-7	Xylene (Total)	500	U
100-42-5	Styrene	500	U
75-25-2	Bromoform	500	U
98-82-8	Isopropylbenzene	500	U
79-34-5	1,1,2,2-Tetrachloroethane	500	U
108-86-1	Bromobenzene	500	U
96-18-4	1,2,3-Trichloropropane	500	U
95-49-8	2-Chlorotoluene	500	U
108-67-8	1,3,5-Trimethylbenzene	500	U
106-43-4	4-Chlorotoluene	500	U
98-06-6	tert-Butylbenzene	500	U
95-63-6	1,2,4-Trimethylbenzene	500	U
135-98-8	sec-Butylbenzene	500	U
99-87-6	4-Isopropyltoluene	500	U
541-73-1	1,3-Dichlorobenzene	500	U
106-46-7	1,4-Dichlorobenzene	500	U
95-50-1	1,2-Dichlorobenzene	500	U
96-12-8	1,2-Dibromo-3-chloropropane	500	U
120-82-1	1,2,4-Trichlorobenzene	500	U
87-68-3	Hexachlorobutadiene	500	U
87-61-6	1,2,3-Trichlorobenzene	500	U
91-20-3	Naphthalene	500	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	500	U
123-91-1	1,4-Dioxane	10000	U-12
110-82-7	Cyclohexane	500	U
79-20-9	Methyl acetate	500	U

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-029DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-14ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1945.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/06/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 100.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µG/L	
108-87-2	Methylcyclohexane		500	U

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1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-029DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-14ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V611945.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/06/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 100.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

Handwritten signature and date: 8/11/11

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-029D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-15A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1946.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/06/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U 3
75-01-4	Vinyl chloride	5.0	U 5
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U R
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	7.8	
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	3.4	J
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-029D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-15A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1946.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/06/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ g/L	Q
127-18-4	Tetrachloroethene	20	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-029D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-15A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1946.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/06/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µG/L	
108-87-2	Methylcyclohexane		5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-029D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-15A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1946.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/06/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-030D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-01A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1758.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/28/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{g/L}$	Q
75-71-8	Dichlorodifluoromethane	5.0	U 3
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U 3
75-35-4	1,1-Dichloroethene	47	3
67-64-1	Acetone	5.0	U 2
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	1.9	J
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U 2
156-59-2	cis-1,2-Dichloroethene	4.7	J
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	4.2	J
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	170	
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U 3
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-030D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-01A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1758.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/28/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{g/L}$	Q
127-18-4	Tetrachloroethene	43	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-030D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-01A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1758.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/28/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µG/L	
108-87-2	Methylcyclohexane		5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-030D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-01A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1758.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/28/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-030

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-02A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1759.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/28/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/L</u>	<u>Q</u>
75-71-8	Dichlorodifluoromethane	5.0	U-5
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U-5
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U-R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U-R
156-59-2	cis-1,2-Dichloroethene	25	
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	27	
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U-5
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-030

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-02A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1759.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/28/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{G/L}$	Q
127-18-4	Tetrachloroethene	2000 2100	ED
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

*Check
8/8/11*

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-030

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-02A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1759.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/28/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µG/L	
108-87-2	Methylcyclohexane		5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-030

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-02A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1759.D

Level: (TRACE or LOW/MED) LOW Date Received: 06/24/2011

% Moisture: not dec. Date Analyzed: 06/28/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown	17.917	6.7	J

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-030DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-02ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1795.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/29/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 25.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	130	U
74-87-3	Chloromethane	130	U
75-01-4	Vinyl chloride	130	U
74-83-9	Bromomethane	130	U
75-00-3	Chloroethane	130	U
75-69-4	Trichlorofluoromethane	130	U
75-35-4	1,1-Dichloroethene	130	U
67-64-1	Acetone	130	U R
74-88-4	Iodomethane	130	U
75-15-0	Carbon disulfide	130	U
75-09-2	Methylene chloride	130	U
156-60-5	trans-1,2-Dichloroethene	130	U
1634-04-4	Methyl tert-butyl ether	130	U
75-34-3	1,1-Dichloroethane	130	U
108-05-4	Vinyl acetate	130	U
78-93-3	2-Butanone	130	U R
156-59-2	cis-1,2-Dichloroethene	130	U
594-20-7	2,2-Dichloropropane	130	U
74-97-5	Bromochloromethane	130	U
67-66-3	Chloroform	130	U
71-55-6	1,1,1-Trichloroethane	130	U
563-58-6	1,1-Dichloropropene	130	U
56-23-5	Carbon tetrachloride	130	U
107-06-2	1,2-Dichloroethane	130	U
71-43-2	Benzene	130	U
79-01-6	Trichloroethene	130	U
78-87-5	1,2-Dichloropropane	130	U
74-95-3	Dibromomethane	130	U
75-27-4	Bromodichloromethane	130	U
10061-01-5	cis-1,3-Dichloropropene	130	U
108-10-1	4-Methyl-2-pentanone	130	U
108-88-3	Toluene	130	U
10061-02-6	trans-1,3-Dichloropropene	130	U
79-00-5	1,1,2-Trichloroethane	130	U
142-28-9	1,3-Dichloropropane	130	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-030DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-02ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1795.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/29/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 25.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
127-18-4	Tetrachloroethene	2000	D
591-78-6	2-Hexanone	130	U
124-48-1	Dibromochloromethane	130	U
106-93-4	1,2-Dibromoethane	130	U
108-90-7	Chlorobenzene	130	U
630-20-6	1,1,1,2-Tetrachloroethane	130	U
100-41-4	Ethylbenzene	130	U
1330-20-7	m,p-Xylene	130	U
95-47-6	o-Xylene	130	U
1330-20-7	Xylene (Total)	130	U
100-42-5	Styrene	130	U
75-25-2	Bromoform	130	U
98-82-8	Isopropylbenzene	130	U
79-34-5	1,1,2,2-Tetrachloroethane	130	U
108-86-1	Bromobenzene	130	U
96-18-4	1,2,3-Trichloropropane	130	U
95-49-8	2-Chlorotoluene	130	U
108-67-8	1,3,5-Trimethylbenzene	130	U
106-43-4	4-Chlorotoluene	130	U
98-06-6	tert-Butylbenzene	130	U
95-63-6	1,2,4-Trimethylbenzene	130	U
135-98-8	sec-Butylbenzene	130	U
99-87-6	4-Isopropyltoluene	130	U
541-73-1	1,3-Dichlorobenzene	130	U
106-46-7	1,4-Dichlorobenzene	130	U
95-50-1	1,2-Dichlorobenzene	130	U
96-12-8	1,2-Dibromo-3-chloropropane	130	U
120-82-1	1,2,4-Trichlorobenzene	130	U
87-68-3	Hexachlorobutadiene	130	U
87-61-6	1,2,3-Trichlorobenzene	130	U-3
91-20-3	Naphthalene	130	U-3
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	130	U
123-91-1	1,4-Dioxane	2500	U-R
110-82-7	Cyclohexane	130	U
79-20-9	Methyl acetate	130	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-030DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-02ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1795.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/29/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 25.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µG/L	
108-87-2	Methylcyclohexane		130	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-030DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-02ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1795.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/29/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 25.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

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1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-031

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-09A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: VIM1766.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/28/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/L	
75-71-8	Dichlorodifluoromethane		5.0	U
74-87-3	Chloromethane		5.0	U
75-01-4	Vinyl chloride		5.0	U
74-83-9	Bromomethane		5.0	U
75-00-3	Chloroethane		5.0	U
75-69-4	Trichlorofluoromethane		5.0	U
75-35-4	1,1-Dichloroethene		5.0	U
67-64-1	Acetone		5.0	U
74-88-4	Iodomethane		5.0	U
75-15-0	Carbon disulfide		5.0	U
75-09-2	Methylene chloride		5.0	U
156-60-5	trans-1,2-Dichloroethene		5.0	U
1634-04-4	Methyl tert-butyl ether		5.0	U
75-34-3	1,1-Dichloroethane		1.1	J
108-05-4	Vinyl acetate		5.0	U
78-93-3	2-Butanone		5.0	U
156-59-2	cis-1,2-Dichloroethene		17	
594-20-7	2,2-Dichloropropane		5.0	U
74-97-5	Bromochloromethane		5.0	U
67-66-3	Chloroform		2.1	J
71-55-6	1,1,1-Trichloroethane		5.0	U
563-58-6	1,1-Dichloropropene		5.0	U
56-23-5	Carbon tetrachloride		5.0	U
107-06-2	1,2-Dichloroethane		5.0	U
71-43-2	Benzene		5.0	U
79-01-6	Trichloroethene		23	
78-87-5	1,2-Dichloropropane		5.0	U
74-95-3	Dibromomethane		5.0	U
75-27-4	Bromodichloromethane		5.0	U
10061-01-5	cis-1,3-Dichloropropene		5.0	U
108-10-1	4-Methyl-2-pentanone		5.0	U
108-88-3	Toluene		5.0	U
10061-02-6	trans-1,3-Dichloropropene		5.0	U
79-00-5	1,1,2-Trichloroethane		5.0	U
142-28-9	1,3-Dichloropropane		5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
DEC-031

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-09A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1766.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/28/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{g/L}$	Q
127-18-4	Tetrachloroethene	6100 3900	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	2.1	J
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	1.3	J
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-031

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-09A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: VIM1766.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/28/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/L	
108-87-2	Methylcyclohexane		5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-031

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-09A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1766.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/28/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-031DL

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM Case No.: K1102

Mod. Ref No.: SDG No.: SK1102

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: K1102-09ADL

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V6I1797.D

Level: (TRACE/LOW/MED) LOW

Date Received: 06/24/2011

% Moisture: not dec.

Date Analyzed: 06/29/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 50.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{g/L}$	Q
75-71-8	Dichlorodifluoromethane	250	U X
74-87-3	Chloromethane	250	U
75-01-4	Vinyl chloride	250	U
74-83-9	Bromomethane	250	U
75-00-3	Chloroethane	250	U
75-69-4	Trichlorofluoromethane	250	U
75-35-4	1,1-Dichloroethene	250	U
67-64-1	Acetone	250	U-R
74-88-4	Iodomethane	250	U
75-15-0	Carbon disulfide	250	U
75-09-2	Methylene chloride	250	U
156-60-5	trans-1,2-Dichloroethene	250	U
1634-04-4	Methyl tert-butyl ether	250	U
75-34-3	1,1-Dichloroethane	250	U
108-05-4	Vinyl acetate	250	U
78-93-3	2-Butanone	250	U R
156-59-2	cis-1,2-Dichloroethene	250	U
594-20-7	2,2-Dichloropropane	250	U
74-97-5	Bromochloromethane	250	U
67-66-3	Chloroform	250	U
71-55-6	1,1,1-Trichloroethane	250	U
563-58-6	1,1-Dichloropropene	250	U
56-23-5	Carbon tetrachloride	250	U
107-06-2	1,2-Dichloroethane	250	U
71-43-2	Benzene	250	U
79-01-6	Trichloroethene	250	U
78-87-5	1,2-Dichloropropane	250	U
74-95-3	Dibromomethane	250	U
75-27-4	Bromodichloromethane	250	U
10061-01-5	cis-1,3-Dichloropropene	250	U
108-10-1	4-Methyl-2-pentanone	250	U
108-88-3	Toluene	250	U
10061-02-6	trans-1,3-Dichloropropene	250	U
79-00-5	1,1,2-Trichloroethane	250	U
142-28-9	1,3-Dichloropropane	250	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-031DL

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM Case No.: K1102

Mod. Ref No.: SDG No.: SK1102

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: K1102-09ADL

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V6I1797.D

Level: (TRACE/LOW/MED) LOW

Date Received: 06/24/2011

% Moisture: not dec.

Date Analyzed: 06/29/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 50.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{g/L}$	Q
127-18-4	Tetrachloroethene	6100	D
591-78-6	2-Hexanone	250	U
124-48-1	Dibromochloromethane	250	U
106-93-4	1,2-Dibromoethane	250	U
108-90-7	Chlorobenzene	250	U
630-20-6	1,1,1,2-Tetrachloroethane	250	U
100-41-4	Ethylbenzene	250	U
1330-20-7	m,p-Xylene	250	U
95-47-6	o-Xylene	250	U
1330-20-7	Xylene (Total)	250	U
100-42-5	Styrene	250	U
75-25-2	Bromoform	250	U
98-82-8	Isopropylbenzene	250	U
79-34-5	1,1,2,2-Tetrachloroethane	250	U
108-86-1	Bromobenzene	250	U
96-18-4	1,2,3-Trichloropropane	250	U
95-49-8	2-Chlorotoluene	250	U
108-67-8	1,3,5-Trimethylbenzene	250	U
106-43-4	4-Chlorotoluene	250	U
98-06-6	tert-Butylbenzene	250	U
95-63-6	1,2,4-Trimethylbenzene	250	U
135-98-8	sec-Butylbenzene	250	U
99-87-6	4-Isopropyltoluene	250	U
541-73-1	1,3-Dichlorobenzene	250	U
106-46-7	1,4-Dichlorobenzene	250	U
95-50-1	1,2-Dichlorobenzene	250	U
96-12-8	1,2-Dibromo-3-chloropropane	250	U
120-82-1	1,2,4-Trichlorobenzene	250	U
87-68-3	Hexachlorobutadiene	250	U
87-61-6	1,2,3-Trichlorobenzene	250	U-3
91-20-3	Naphthalene	250	U-3
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	250	U
123-91-1	1,4-Dioxane	5000	U-R
110-82-7	Cyclohexane	250	U
79-20-9	Methyl acetate	250	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
DEC-031DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-09ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1797.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/29/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 50.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µG/L	
108-87-2	Methylcyclohexane		250	U

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1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-031DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-09ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1797.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/29/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 50.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

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1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-031D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-08A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1765.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/28/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{g/L}$	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	86	
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	1.2	J
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-031D

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM

Case No.: K1102

Mod. Ref No.:

SDG No.: SK1102

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: K1102-08A

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V1M1765.D

Level: (TRACE/LOW/MED) LOW

Date Received: 06/24/2011

% Moisture: not dec.

Date Analyzed: 06/28/2011

GC Column: DB-624

ID: 0.25

(mm)

Dilution Factor: 1.0

Soil Extract Volume:

(uL)

Soil Aliquot Volume:

(uL)

Purge Volume: 5.0

(mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ g/L	Q
127-18-4	Tetrachloroethene	16	
591-78-6	2-Hexanone	5.0	U-3
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U-3
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U-3
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-031D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-08A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1765.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/28/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	µG/L
108-87-2	Methylcyclohexane	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-031D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-08A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1765.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/28/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-032

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM Case No.: K1110

Mod. Ref No.: SDG No.: SK1110

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: K1110-02A

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V8A4264.D

Level: (TRACE/LOW/MED) LOW

Date Received: 06/27/2011

% Moisture: not dec.

Date Analyzed: 06/30/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	1.3	J
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-032

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-02A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4264.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 06/30/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{g/L}$	Q
127-18-4	Tetrachloroethene	3.0	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

Handwritten signature and date: 8/9/11

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-032

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-02A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4264.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 06/30/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) $\mu\text{G/L}$	Q
108-87-2	Methylcyclohexane	5.0	U <i>5</i>

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1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-032

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-02A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4264.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 06/30/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-033

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-15A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1824.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/30/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{g/L}$	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-033

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-15A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1824.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/30/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U-3
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U-3
87-61-6	1,2,3-Trichlorobenzene	5.0	U-3
91-20-3	Naphthalene	5.0	U-3
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U-R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-033

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-15A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1824.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/30/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) <u>µg/L</u>	<u>Q</u>
108-87-2	Methylcyclohexane	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-033

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-15A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1824.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/30/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
DEC-039

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-17A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1951.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/06/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{g/L}$	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U-3
75-01-4	Vinyl chloride	5.0	U-3
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	24	
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	2.6	J
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U R
156-59-2	cis-1,2-Dichloroethene	23	
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	3.6	J
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	230-240	U
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-039

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-17A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1951.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/06/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{g/L}$	Q
127-18-4	Tetrachloroethene	58	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-039

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-17A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1951.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/06/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/L	
108-87-2	Methylcyclohexane		5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-039

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-17A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1951.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/06/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-039DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-17ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4450.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/07/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 2.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/L	
75-71-8	Dichlorodifluoromethane		10	U
74-87-3	Chloromethane		10	U
75-01-4	Vinyl chloride		10	U
74-83-9	Bromomethane		10	U
75-00-3	Chloroethane		10	U
75-69-4	Trichlorofluoromethane		20	D
75-35-4	1,1-Dichloroethene		10	U
67-64-1	Acetone		10	U
74-88-4	Iodomethane		10	U
75-15-0	Carbon disulfide		10	U
75-09-2	Methylene chloride		10	U
156-60-5	trans-1,2-Dichloroethene		10	U
1634-04-4	Methyl tert-butyl ether		10	U
75-34-3	1,1-Dichloroethane		3.0	DJ
108-05-4	Vinyl acetate		10	U
78-93-3	2-Butanone		10	U
156-59-2	cis-1,2-Dichloroethene		30	D
594-20-7	2,2-Dichloropropane		10	U
74-97-5	Bromochloromethane		10	U
67-66-3	Chloroform		10	U
71-55-6	1,1,1-Trichloroethane		4.1	DJ
563-58-6	1,1-Dichloropropene		10	U
56-23-5	Carbon tetrachloride		10	U
107-06-2	1,2-Dichloroethane		10	U
71-43-2	Benzene		10	U
79-01-6	Trichloroethene		230	D
78-87-5	1,2-Dichloropropane		10	U
74-95-3	Dibromomethane		10	U
75-27-4	Bromodichloromethane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
108-10-1	4-Methyl-2-pentanone		10	U
108-88-3	Toluene		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		10	U
142-28-9	1,3-Dichloropropane		10	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
DEC-039DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-17ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4450.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/07/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 2.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
127-18-4	Tetrachloroethene	49	D
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
630-20-6	1,1,1,2-Tetrachloroethane	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	m,p-Xylene	10	U
95-47-6	o-Xylene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-86-1	Bromobenzene	10	U
96-18-4	1,2,3-Trichloropropane	10	U
95-49-8	2-Chlorotoluene	10	U
108-67-8	1,3,5-Trimethylbenzene	10	U
106-43-4	4-Chlorotoluene	10	U
98-06-6	tert-Butylbenzene	10	U
95-63-6	1,2,4-Trimethylbenzene	10	U
135-98-8	sec-Butylbenzene	10	U
99-87-6	4-Isopropyltoluene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
87-61-6	1,2,3-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
123-91-1	1,4-Dioxane	200	U
110-82-7	Cyclohexane	10	U
79-20-9	Methyl acetate	10	U

Handwritten signature/initials

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-039DL

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM

Case No.: K1110

Mod. Ref No.:

SDG No.: SK1110

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: K1110-17ADL

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V8A4450.D

Level: (TRACE/LOW/MED) LOW

Date Received: 06/27/2011

% Moisture: not dec.

Date Analyzed: 07/07/2011

GC Column: DB-624

ID: 0.25

(mm)

Dilution Factor: 2.0

Soil Extract Volume:

(uL)

Soil Aliquot Volume:

(uL)

Purge Volume: 5.0

(mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µG/L	
108-87-2	Methylcyclohexane		10	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-039DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-17ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4450.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/07/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 2.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

Handwritten signature/initials

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC-39

CLIENT SAMPLE NO.

DUP-062411

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-20A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1954.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/06/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U 3
75-01-4	Vinyl chloride	5.0	U 3
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	26	
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	2.8	J
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U R
156-59-2	cis-1,2-Dichloroethene	24	
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	240	U D
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

Check
8/6/11

DEC-39

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUP-062411

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-20A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1954.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011

% Moisture: not dec. Date Analyzed: 07/06/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/L</u>	Q
127-18-4	Tetrachloroethene	59	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U - R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC-39

CLIENT SAMPLE NO.

DUP-062411

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-20A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1954.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/06/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	µG/L
108-87-2	Methylcyclohexane	5.0	U

DEC-39

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DUP-062411

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-20A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1954.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/06/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC-28

CLIENT SAMPLE NO.

DUP-062411DL

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM Case No.: K1110

Mod. Ref No.: SDG No.: SK1110

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: K1110-20ADL

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V8A4452.D

Level: (TRACE/LOW/MED) LOW

Date Received: 06/27/2011

% Moisture: not dec.

Date Analyzed: 07/07/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 2.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/L	
75-71-8	Dichlorodifluoromethane		10	U
74-87-3	Chloromethane		10	U
75-01-4	Vinyl chloride		10	U
74-83-9	Bromomethane		10	U
75-00-3	Chloroethane		10	U
75-69-4	Trichlorofluoromethane		20	D
75-35-4	1,1-Dichloroethene		10	U
67-64-1	Acetone		10	U-R
74-88-4	Iodomethane		10	U
75-15-0	Carbon disulfide		10	U
75-09-2	Methylene chloride		10	U
156-60-5	trans-1,2-Dichloroethene		10	U
1634-04-4	Methyl tert-butyl ether		10	U
75-34-3	1,1-Dichloroethane		10	U
108-05-4	Vinyl acetate		10	U
78-93-3	2-Butanone		10	U-R
156-59-2	cis-1,2-Dichloroethene		30	D
594-20-7	2,2-Dichloropropane		10	U
74-97-5	Bromochloromethane		10	U
67-66-3	Chloroform		10	U
71-55-6	1,1,1-Trichloroethane		4.1	DJ
563-58-6	1,1-Dichloropropene		10	U
56-23-5	Carbon tetrachloride		10	U
107-06-2	1,2-Dichloroethane		10	U
71-43-2	Benzene		10	U
79-01-6	Trichloroethene		240	D
78-87-5	1,2-Dichloropropane		10	U
74-95-3	Dibromomethane		10	U
75-27-4	Bromodichloromethane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
108-10-1	4-Methyl-2-pentanone		10	U
108-88-3	Toluene		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		10	U
142-28-9	1,3-Dichloropropane		10	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC 39
CLIENT SAMPLE NO.
DUP-062411DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-20ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4452.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/07/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 2.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µG/L	
127-18-4	Tetrachloroethene		50	D
591-78-6	2-Hexanone		10	U
124-48-1	Dibromochloromethane		10	U
106-93-4	1,2-Dibromoethane		10	U
108-90-7	Chlorobenzene		10	U
630-20-6	1,1,1,2-Tetrachloroethane		10	U
100-41-4	Ethylbenzene		10	U
1330-20-7	m,p-Xylene		10	U
95-47-6	o-Xylene		10	U
1330-20-7	Xylene (Total)		10	U
100-42-5	Styrene		10	U
75-25-2	Bromoform		10	U
98-82-8	Isopropylbenzene		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U
108-86-1	Bromobenzene		10	U
96-18-4	1,2,3-Trichloropropane		10	U
95-49-8	2-Chlorotoluene		10	U
108-67-8	1,3,5-Trimethylbenzene		10	U
106-43-4	4-Chlorotoluene		10	U
98-06-6	tert-Butylbenzene		10	U
95-63-6	1,2,4-Trimethylbenzene		10	U
135-98-8	sec-Butylbenzene		10	U
99-87-6	4-Isopropyltoluene		10	U
541-73-1	1,3-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		10	U
95-50-1	1,2-Dichlorobenzene		10	U
96-12-8	1,2-Dibromo-3-chloropropane		10	U
120-82-1	1,2,4-Trichlorobenzene		10	U
87-68-3	Hexachlorobutadiene		10	U
87-61-6	1,2,3-Trichlorobenzene		10	U
91-20-3	Naphthalene		10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		10	U
123-91-1	1,4-Dioxane		200	U-12
110-82-7	Cyclohexane		10	U
79-20-9	Methyl acetate		10	U

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8/9/11*

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC 31

CLIENT SAMPLE NO.

DUP-062411DL

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM

Case No.: K1110

Mod. Ref No.:

SDG No.: SK1110

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: K1110-20ADL

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V8A4452.D

Level: (TRACE/LOW/MED) LOW

Date Received: 06/27/2011

% Moisture: not dec.

Date Analyzed: 07/07/2011

GC Column: DB-624

ID: 0.25

(mm)

Dilution Factor: 2.0

Soil Extract Volume:

(uL)

Soil Aliquot Volume:

(uL)

Purge Volume: 5.0

(mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µG/L	
108-87-2	Methylcyclohexane		10	U

DEC 39

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DUP-062411DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-20ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4452.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/07/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 2.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

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8/11/11

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-042

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-08A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4266.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 06/30/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	23	
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U <i>12</i>
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	1.1	J
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U <i>12</i>
156-59-2	cis-1,2-Dichloroethene	6.3	<i>12</i>
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	1.4	J
71-55-6	1,1,1-Trichloroethane	2.9	J
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U <i>12</i>
79-01-6	Trichloroethene	73	
78-87-5	1,2-Dichloropropane	5.0	U <i>12</i>
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

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8/19/11*

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-042

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-08A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4266.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 06/30/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
127-18-4	Tetrachloroethene	62	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U-3
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-042

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-08A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4266.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 06/30/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µG/L	
108-87-2	Methylcyclohexane	5.0		U 3

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1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-042

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-08A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4266.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 06/30/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-043

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-28A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1913.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 07/05/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{g/L}$	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U R
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-043

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-28A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1913.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 07/05/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
127-18-4	Tetrachloroethene	12	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U-3
87-68-3	Hexachlorobutadiene	5.0	U-3
87-61-6	1,2,3-Trichlorobenzene	5.0	U-3
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U-R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

Change 8/8/11

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-043

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-28A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1913.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. _____ Date Analyzed: 07/05/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/L	
108-87-2	Methylcyclohexane		5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-043

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-28A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1913.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 07/05/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-043D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-24A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1912.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 07/05/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{g/L}$	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U-R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U-R
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	9.4	
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	1.2	J
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-043D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-24A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1912.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 07/05/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
127-18-4	Tetrachloroethene	9.0	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U-5
87-68-3	Hexachlorobutadiene	5.0	U-5
87-61-6	1,2,3-Trichlorobenzene	5.0	U-5
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

Copy 4/6/11

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
DEC-043D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-24A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1912.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 07/05/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µG/L	
108-87-2	Methylcyclohexane		5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-043D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-24A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1912.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 07/05/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-044

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-06A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4233.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 06/29/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{g/L}$	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	2.0	J
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	8.6	
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

Handwritten signature and date: 8/11/11

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
DEC-044

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-06A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4233.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 06/29/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
127-18-4	Tetrachloroethene	1500 2000-	ND
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

Check 6/11

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-044

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-06A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4233.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 06/29/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µG/L	
108-87-2	Methylcyclohexane	5.0		U

OK
8/24/11

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-044

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-06A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4233.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 06/29/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-044DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-06ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4269.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 06/30/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 20.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION/UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	100	U
74-87-3	Chloromethane	100	U
75-01-4	Vinyl chloride	100	U
74-83-9	Bromomethane	100	U
75-00-3	Chloroethane	100	U
75-69-4	Trichlorofluoromethane	100	U
75-35-4	1,1-Dichloroethene	100	U
67-64-1	Acetone	100	U R
74-88-4	Iodomethane	100	U
75-15-0	Carbon disulfide	100	U
75-09-2	Methylene chloride	100	U
156-60-5	trans-1,2-Dichloroethene	100	U
1634-04-4	Methyl tert-butyl ether	100	U
75-34-3	1,1-Dichloroethane	100	U
108-05-4	Vinyl acetate	100	U
78-93-3	2-Butanone	100	U R
156-59-2	cis-1,2-Dichloroethene	100	U S
594-20-7	2,2-Dichloropropane	100	U
74-97-5	Bromochloromethane	100	U
67-66-3	Chloroform	100	U
71-55-6	1,1,1-Trichloroethane	100	U
563-58-6	1,1-Dichloropropene	100	U
56-23-5	Carbon tetrachloride	100	U
107-06-2	1,2-Dichloroethane	100	U
71-43-2	Benzene	100	U S
79-01-6	Trichloroethene	100	U
78-87-5	1,2-Dichloropropane	100	U S
74-95-3	Dibromomethane	100	U
75-27-4	Bromodichloromethane	100	U
10061-01-5	cis-1,3-Dichloropropene	100	U
108-10-1	4-Methyl-2-pentanone	100	U
108-88-3	Toluene	100	U
10061-02-6	trans-1,3-Dichloropropene	100	U
79-00-5	1,1,2-Trichloroethane	100	U
142-28-9	1,3-Dichloropropane	100	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
DEC-044DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-06ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4269.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 06/30/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 20.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	1500	D
591-78-6	2-Hexanone	100	U
124-48-1	Dibromochloromethane	100	U
106-93-4	1,2-Dibromoethane	100	U
108-90-7	Chlorobenzene	100	U
630-20-6	1,1,1,2-Tetrachloroethane	100	U
100-41-4	Ethylbenzene	100	U
1330-20-7	m,p-Xylene	100	U
95-47-6	o-Xylene	100	U
1330-20-7	Xylene (Total)	100	U
100-42-5	Styrene	100	U
75-25-2	Bromoform	100	U
98-82-8	Isopropylbenzene	100	U
79-34-5	1,1,2,2-Tetrachloroethane	100	U
108-86-1	Bromobenzene	100	U
96-18-4	1,2,3-Trichloropropane	100	U
95-49-8	2-Chlorotoluene	100	U
108-67-8	1,3,5-Trimethylbenzene	100	U
106-43-4	4-Chlorotoluene	100	U
98-06-6	tert-Butylbenzene	100	U
95-63-6	1,2,4-Trimethylbenzene	100	U
135-98-8	sec-Butylbenzene	100	U
99-87-6	4-Isopropyltoluene	100	U
541-73-1	1,3-Dichlorobenzene	100	U
106-46-7	1,4-Dichlorobenzene	100	U
95-50-1	1,2-Dichlorobenzene	100	U
96-12-8	1,2-Dibromo-3-chloropropane	100	U
120-82-1	1,2,4-Trichlorobenzene	100	U
87-68-3	Hexachlorobutadiene	100	U
87-61-6	1,2,3-Trichlorobenzene	100	U
91-20-3	Naphthalene	100	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	100	U
123-91-1	1,4-Dioxane	2000	U
110-82-7	Cyclohexane	100	U
79-20-9	Methyl acetate	100	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
DEC-044DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-06ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4269.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 06/30/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 20.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/L	
108-87-2	Methylcyclohexane		100	U <i>✓</i>

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-044DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-06ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4269.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 06/30/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 20.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

Handwritten signature
8/9/11

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
DEC-044D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-05A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4232.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 06/29/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	1.3	J
67-64-1	Acetone	5.0	U R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U R
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	6.5	
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

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SP111*

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-044D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-05A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4232.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 06/29/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{G/L}$	Q
127-18-4	Tetrachloroethene	1.5	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U-S
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U-R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

Handwritten signature/initials

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-044D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-05A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4232.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 06/29/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µg/L	
108-87-2	Methylcyclohexane		5.0	U-5

Check
8/9/11

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-044D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-05A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4232.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 06/29/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-044DDL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-05ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4268.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 06/30/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 5.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) / ug/L	Q
75-71-8	Dichlorodifluoromethane	25	U
74-87-3	Chloromethane	25	U
75-01-4	Vinyl chloride	25	U
74-83-9	Bromomethane	25	U
75-00-3	Chloroethane	25	U
75-69-4	Trichlorofluoromethane	25	U
75-35-4	1,1-Dichloroethene	25	U
67-64-1	Acetone	25	U
74-88-4	Iodomethane	25	U
75-15-0	Carbon disulfide	25	U
75-09-2	Methylene chloride	25	U
156-60-5	trans-1,2-Dichloroethene	25	U
1634-04-4	Methyl tert-butyl ether	25	U
75-34-3	1,1-Dichloroethane	25	U
108-05-4	Vinyl acetate	25	U
78-93-3	2-Butanone	25	U
156-59-2	cis-1,2-Dichloroethene	25	U
594-20-7	2,2-Dichloropropane	25	U
74-97-5	Bromochloromethane	25	U
67-66-3	Chloroform	6.0	DJ
71-55-6	1,1,1-Trichloroethane	25	U
563-58-6	1,1-Dichloropropene	25	U
56-23-5	Carbon tetrachloride	25	U
107-06-2	1,2-Dichloroethane	500	D
71-43-2	Benzene	25	U
79-01-6	Trichloroethene	25	U
78-87-5	1,2-Dichloropropane	25	U
74-95-3	Dibromomethane	25	U
75-27-4	Bromodichloromethane	25	U
10061-01-5	cis-1,3-Dichloropropene	25	U
108-10-1	4-Methyl-2-pentanone	25	U
108-88-3	Toluene	25	U
10061-02-6	trans-1,3-Dichloropropene	25	U
79-00-5	1,1,2-Trichloroethane	25	U
142-28-9	1,3-Dichloropropane	25	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-044DDL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-05ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4268.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 06/30/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 5.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>µg/L</u>	Q
127-18-4	Tetrachloroethene	25	U
591-78-6	2-Hexanone	25	U
124-48-1	Dibromochloromethane	25	U
106-93-4	1,2-Dibromoethane	25	U
108-90-7	Chlorobenzene	25	U
630-20-6	1,1,1,2-Tetrachloroethane	25	U
100-41-4	Ethylbenzene	25	U
1330-20-7	m,p-Xylene	25	U
95-47-6	o-Xylene	25	U
1330-20-7	Xylene (Total)	25	U
100-42-5	Styrene	25	U
75-25-2	Bromoform	25	U
98-82-8	Isopropylbenzene	25	U
79-34-5	1,1,2,2-Tetrachloroethane	25	U
108-86-1	Bromobenzene	25	U
96-18-4	1,2,3-Trichloropropane	25	U
95-49-8	2-Chlorotoluene	25	U
108-67-8	1,3,5-Trimethylbenzene	25	U
106-43-4	4-Chlorotoluene	25	U
98-06-6	tert-Butylbenzene	25	U
95-63-6	1,2,4-Trimethylbenzene	25	U
135-98-8	sec-Butylbenzene	25	U
99-87-6	4-Isopropyltoluene	25	U
541-73-1	1,3-Dichlorobenzene	25	U
106-46-7	1,4-Dichlorobenzene	25	U
95-50-1	1,2-Dichlorobenzene	25	U
96-12-8	1,2-Dibromo-3-chloropropane	25	U
120-82-1	1,2,4-Trichlorobenzene	25	U
87-68-3	Hexachlorobutadiene	25	U
87-61-6	1,2,3-Trichlorobenzene	25	U
91-20-3	Naphthalene	25	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	25	U
123-91-1	1,4-Dioxane	500	U
110-82-7	Cyclohexane	25	U
79-20-9	Methyl acetate	25	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-044DDL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-05ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4268.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. _____ Date Analyzed: 06/30/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 5.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/L	
108-87-2	Methylcyclohexane		25	U <i>5</i>

ChpK
8/19/11

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-044DDL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-05ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4268.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 06/30/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 5.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

OK 8/19/11

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-045

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-11A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1798.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/29/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ g/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U <i>3</i>
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U <i>2</i>
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U <i>2</i>
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-045

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-11A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1798.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/29/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{g/L}$	Q
127-18-4	Tetrachloroethene	43	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U-3
91-20-3	Naphthalene	5.0	U-3
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U-3
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

6/29/11
8/13/11

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-045

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-11A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1798.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/29/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) $\mu\text{G/L}$	Q
108-87-2	Methylcyclohexane	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-045

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-11A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1798.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/29/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{G/L}$ Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-045D

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM

Case No.: K1102

Mod. Ref No.:

SDG No.: SK1102

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: K1102-10A

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V6I1791.D

Level: (TRACE/LOW/MED) LOW

Date Received: 06/24/2011

% Moisture: not dec.

Date Analyzed: 06/29/2011

GC Column: DB-624

ID: 0.25

(mm)

Dilution Factor: 1.0

Soil Extract Volume:

(uL)

Soil Aliquot Volume:

(uL)

Purge Volume: 5.0

(mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µg/L	
75-71-8	Dichlorodifluoromethane		5.0	U-5
74-87-3	Chloromethane		5.0	U
75-01-4	Vinyl chloride		5.0	U
74-83-9	Bromomethane		5.0	U
75-00-3	Chloroethane		5.0	U
75-69-4	Trichlorofluoromethane		5.0	U
75-35-4	1,1-Dichloroethene		5.0	U
67-64-1	Acetone		5.0	U-R
74-88-4	Iodomethane		5.0	U
75-15-0	Carbon disulfide		5.0	U
75-09-2	Methylene chloride		5.0	U
156-60-5	trans-1,2-Dichloroethene		5.0	U
1634-04-4	Methyl tert-butyl ether		5.0	U
75-34-3	1,1-Dichloroethane		5.0	U
108-05-4	Vinyl acetate		5.0	U
78-93-3	2-Butanone		5.0	U-R
156-59-2	cis-1,2-Dichloroethene		5.0	U
594-20-7	2,2-Dichloropropane		5.0	U
74-97-5	Bromochloromethane		5.0	U
67-66-3	Chloroform		5.0	U
71-55-6	1,1,1-Trichloroethane		5.0	U
563-58-6	1,1-Dichloropropene		5.0	U
56-23-5	Carbon tetrachloride		5.0	U
107-06-2	1,2-Dichloroethane		81	
71-43-2	Benzene		5.0	U
79-01-6	Trichloroethene		5.0	U
78-87-5	1,2-Dichloropropane		5.0	U
74-95-3	Dibromomethane		5.0	U
75-27-4	Bromodichloromethane		5.0	U
10061-01-5	cis-1,3-Dichloropropene		5.0	U
108-10-1	4-Methyl-2-pentanone		5.0	U
108-88-3	Toluene		5.0	U
10061-02-6	trans-1,3-Dichloropropene		5.0	U
79-00-5	1,1,2-Trichloroethane		5.0	U
142-28-9	1,3-Dichloropropane		5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
DEC-045D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-10A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1791.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/29/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U-3
91-20-3	Naphthalene	5.0	U-3
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	5.0	U
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-045D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-10A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1791.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/29/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µG/L	
108-87-2	Methylcyclohexane		5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-045D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-10A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1791.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/29/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-046

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-12A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1823.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/30/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{g/L}$	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	1.1	J
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	1.5	J
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-046

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-12A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1823.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/30/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
127-18-4	Tetrachloroethene	7.4	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.7	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U-R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-046

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-12A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1823.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/30/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) <u>µG/L</u>	<u>Q</u>
108-87-2	Methylcyclohexane	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-046

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-12A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1823.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. _____ Date Analyzed: 06/30/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-047

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-14A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1799.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/29/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{g/L}$	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	19	
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	1.4	J
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-047

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-14A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1799.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/29/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{g/L}$	Q
127-18-4	Tetrachloroethene	2.9	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

OK
8/8/11

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-047

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-14A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1799.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/29/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µG/L	
108-87-2	Methylcyclohexane		5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-047

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-14A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1799.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/29/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-048

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-19A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1953.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/06/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U-5
75-01-4	Vinyl chloride	5.0	U-5
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	9.1	U-5
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	13	U-5
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	2.6	J
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-048

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-19A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1953.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/06/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>µg/L</u>	Q
127-18-4	Tetrachloroethene	3.2	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	1.5	J
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	2.2	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

Copy 8/11

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-048

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-19A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1953.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/06/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µG/L	
108-87-2	Methylcyclohexane		5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-048

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-19A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1953.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/06/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

DEC-048

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUP2-062411

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-21A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1955.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011

% Moisture: not dec. Date Analyzed: 07/06/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U-3
75-01-4	Vinyl chloride	5.0	U-5
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	7.5	U-3
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	18	U-3
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	1.4	J
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC-048

CLIENT SAMPLE NO.

DUP2-062411

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-21A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1955.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/06/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
127-18-4	Tetrachloroethene	3.6	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	1.7	J
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	2.4	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC-048
CLIENT SAMPLE NO.

DUP2-062411

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-21A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1955.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/06/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µG/L	
108-87-2	Methylcyclohexane		5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

100-048
CLIENT SAMPLE NO.

DUP2-062411

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-21A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1955.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/06/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-064

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-04A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1761.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/28/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	2.3	J
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	3.3	J
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	6.8	U
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
DEC-064

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-04A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1761.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/28/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L		Q
127-18-4	Tetrachloroethene	300	300	ED
591-78-6	2-Hexanone		5.0	U
124-48-1	Dibromochloromethane		5.0	U
106-93-4	1,2-Dibromoethane		5.0	U
108-90-7	Chlorobenzene		5.0	U
630-20-6	1,1,1,2-Tetrachloroethane		5.0	U
100-41-4	Ethylbenzene		5.0	U
1330-20-7	m,p-Xylene		5.0	U
95-47-6	o-Xylene		5.0	U
1330-20-7	Xylene (Total)		5.0	U
100-42-5	Styrene		5.0	U
75-25-2	Bromoform		5.0	U
98-82-8	Isopropylbenzene		5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		5.0	U
108-86-1	Bromobenzene		5.0	U
96-18-4	1,2,3-Trichloropropane		5.0	U
95-49-8	2-Chlorotoluene		5.0	U
108-67-8	1,3,5-Trimethylbenzene		5.0	U
106-43-4	4-Chlorotoluene		5.0	U
98-06-6	tert-Butylbenzene		5.0	U
95-63-6	1,2,4-Trimethylbenzene		5.0	U
135-98-8	sec-Butylbenzene		5.0	U
99-87-6	4-Isopropyltoluene		5.0	U
541-73-1	1,3-Dichlorobenzene		5.0	U
106-46-7	1,4-Dichlorobenzene		5.0	U
95-50-1	1,2-Dichlorobenzene		5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		5.0	U
120-82-1	1,2,4-Trichlorobenzene		5.0	U
87-68-3	Hexachlorobutadiene		5.0	U
87-61-6	1,2,3-Trichlorobenzene		5.0	U
91-20-3	Naphthalene		5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		5.0	U
123-91-1	1,4-Dioxane		400	U
110-82-7	Cyclohexane		5.0	U
79-20-9	Methyl acetate		5.0	U

Handwritten: 8/3/11

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-064

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-04A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1761.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/28/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) $\mu\text{G/L}$	Q
108-87-2	Methylcyclohexane	5.0	U-3

Handwritten signature and date: 8/8/11

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-064

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-04A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1761.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/28/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-064DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-04ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1792.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/29/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 4.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
75-71-8	Dichlorodifluoromethane	20	U-3
74-87-3	Chloromethane	20	U
75-01-4	Vinyl chloride	20	U
74-83-9	Bromomethane	20	U
75-00-3	Chloroethane	20	U
75-69-4	Trichlorofluoromethane	20	U
75-35-4	1,1-Dichloroethene	20	U
67-64-1	Acetone	20	U-R
74-88-4	Iodomethane	20	U
75-15-0	Carbon disulfide	20	U
75-09-2	Methylene chloride	20	U
156-60-5	trans-1,2-Dichloroethene	20	U
1634-04-4	Methyl tert-butyl ether	20	U
75-34-3	1,1-Dichloroethane	20	U
108-05-4	Vinyl acetate	20	U
78-93-3	2-Butanone	20	U-R
156-59-2	cis-1,2-Dichloroethene	20	U
594-20-7	2,2-Dichloropropane	20	U
74-97-5	Bromochloromethane	20	U
67-66-3	Chloroform	20	U
71-55-6	1,1,1-Trichloroethane	20	U
563-58-6	1,1-Dichloropropene	20	U
56-23-5	Carbon tetrachloride	20	U
107-06-2	1,2-Dichloroethane	20	U
71-43-2	Benzene	20	U
79-01-6	Trichloroethene	4.0	DJ
78-87-5	1,2-Dichloropropane	20	U
74-95-3	Dibromomethane	20	U
75-27-4	Bromodichloromethane	20	U
10061-01-5	cis-1,3-Dichloropropene	20	U
108-10-1	4-Methyl-2-pentanone	20	U
108-88-3	Toluene	20	U
10061-02-6	trans-1,3-Dichloropropene	20	U
79-00-5	1,1,2-Trichloroethane	20	U
142-28-9	1,3-Dichloropropane	20	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-064DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-04ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V611792.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/29/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 4.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
127-18-4	Tetrachloroethene	220	D
591-78-6	2-Hexanone	20	U
124-48-1	Dibromochloromethane	20	U
106-93-4	1,2-Dibromoethane	20	U
108-90-7	Chlorobenzene	20	U
630-20-6	1,1,1,2-Tetrachloroethane	20	U
100-41-4	Ethylbenzene	20	U
1330-20-7	m,p-Xylene	20	U
95-47-6	o-Xylene	20	U
1330-20-7	Xylene (Total)	20	U
100-42-5	Styrene	20	U
75-25-2	Bromoform	20	U
98-82-8	Isopropylbenzene	20	U
79-34-5	1,1,2,2-Tetrachloroethane	20	U
108-86-1	Bromobenzene	20	U
96-18-4	1,2,3-Trichloropropane	20	U
95-49-8	2-Chlorotoluene	20	U
108-67-8	1,3,5-Trimethylbenzene	20	U
106-43-4	4-Chlorotoluene	20	U
98-06-6	tert-Butylbenzene	20	U
95-63-6	1,2,4-Trimethylbenzene	20	U
135-98-8	sec-Butylbenzene	20	U
99-87-6	4-Isopropyltoluene	20	U
541-73-1	1,3-Dichlorobenzene	20	U
106-46-7	1,4-Dichlorobenzene	20	U
95-50-1	1,2-Dichlorobenzene	20	U
96-12-8	1,2-Dibromo-3-chloropropane	20	U
120-82-1	1,2,4-Trichlorobenzene	20	U
87-68-3	Hexachlorobutadiene	20	U
87-61-6	1,2,3-Trichlorobenzene	20	U
91-20-3	Naphthalene	20	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	20	U
123-91-1	1,4-Dioxane	400	U
110-82-7	Cyclohexane	20	U
79-20-9	Methyl acetate	20	U

Handwritten signature and date:
8/8/11

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
DEC-064DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SR1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-04ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1792.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/29/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 4.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/L	
108-87-2	Methylcyclohexane		20	U

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OK
8/3/11

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-064DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-04ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1792.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/29/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 4.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

Q1102
8/8/11

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-064D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-03A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1790.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/29/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U-3
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	11	
67-64-1	Acetone	5.0	U-R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	1.7	J
75-34-3	1,1-Dichloroethane	1.3	J
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U-R
156-59-2	cis-1,2-Dichloroethene	2.0	J
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	2.3	J
71-55-6	1,1,1-Trichloroethane	1.8	J
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	2.6	J
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	160	
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-064D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-03A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1790.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/29/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
127-18-4	Tetrachloroethene	14	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.5	
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	2.1	J
91-20-3	Naphthalene	5.0	U-S
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U-R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

Handwritten signature/initials

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
DEC-064D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-03A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1790.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/29/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µG/L	
108-87-2	Methylcyclohexane		5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-064D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-03A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1790.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/29/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-065

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM Case No.: K1102

Mod. Ref No.:

SDG No.: SK1102

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: K1102-22A

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V6I1831.D

Level: (TRACE/LOW/MED) LOW

Date Received: 06/24/2011

% Moisture: not dec.

Date Analyzed: 06/30/2011

GC Column: DB-624

ID: 0.25

(mm)

Dilution Factor: 1.0

Soil Extract Volume:

(uL)

Soil Aliquot Volume:

(uL)

Purge Volume: 5.0

(mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U-3
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U-R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U-R
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	12	
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	3.6	J
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-065

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-22A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1831.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/30/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
127-18-4	Tetrachloroethene	160	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U-3
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U-3
87-61-6	1,2,3-Trichlorobenzene	5.0	U-3
91-20-3	Naphthalene	5.0	U-3
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U-R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
DEC-065

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-22A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1831.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/30/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µG/L	
108-87-2	Methylcyclohexane		5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-065

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-22A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1831.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/30/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC-065
CLIENT SAMPLE NO.
DUP-062211

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-25A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4338.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 07/02/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/L	
75-71-8	Dichlorodifluoromethane		5.0	U
74-87-3	Chloromethane		5.0	U
75-01-4	Vinyl chloride		5.0	U
74-83-9	Bromomethane		5.0	U
75-00-3	Chloroethane		5.0	U
75-69-4	Trichlorofluoromethane		5.0	U
75-35-4	1,1-Dichloroethene		5.0	U
67-64-1	Acetone		5.0	U R
74-88-4	Iodomethane		5.0	U
75-15-0	Carbon disulfide		5.0	U
75-09-2	Methylene chloride		5.0	U
156-60-5	trans-1,2-Dichloroethene		5.0	U
1634-04-4	Methyl tert-butyl ether		5.0	U
75-34-3	1,1-Dichloroethane		5.0	U
108-05-4	Vinyl acetate		5.0	U
78-93-3	2-Butanone		5.0	U R
156-59-2	cis-1,2-Dichloroethene		5.0	U
594-20-7	2,2-Dichloropropane		5.0	U
74-97-5	Bromochloromethane		5.0	U
67-66-3	Chloroform		14	
71-55-6	1,1,1-Trichloroethane		5.0	U
563-58-6	1,1-Dichloropropene		5.0	U
56-23-5	Carbon tetrachloride		5.0	U
107-06-2	1,2-Dichloroethane		5.0	U
71-43-2	Benzene		5.0	U 3
79-01-6	Trichloroethene		2.3	J
78-87-5	1,2-Dichloropropane		5.0	U
74-95-3	Dibromomethane		5.0	U
75-27-4	Bromodichloromethane		5.0	U
10061-01-5	cis-1,3-Dichloropropene		5.0	U
108-10-1	4-Methyl-2-pentanone		5.0	U
108-88-3	Toluene		5.0	U
10061-02-6	trans-1,3-Dichloropropene		5.0	U
79-00-5	1,1,2-Trichloroethane		5.0	U
142-28-9	1,3-Dichloropropane		5.0	U

DEC-065

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUP-062211

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-25A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4338.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011

% Moisture: not dec. Date Analyzed: 07/02/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{g/L}$	Q
127-18-4	Tetrachloroethene	170	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

DEC-065

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUP-062211

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-25A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4338.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 07/02/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/L	
108-87-2	Methylcyclohexane		5.0	U

OK 8/2/11

DEC-065

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DUP-062211

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-25A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4338.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 07/02/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-065D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-21A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V611830.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/30/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	1.3	J
75-35-4	1,1-Dichloroethene	120	
67-64-1	Acetone	5.0	U
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	6.8	
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	11	
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	2.8	J
71-55-6	1,1,1-Trichloroethane	22	
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

6/30/11
2/19/11

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
DEC-065D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-21A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1830.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/30/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
127-18-4	Tetrachloroethene	83	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U, S
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U, S
87-61-6	1,2,3-Trichlorobenzene	5.0	U, S
91-20-3	Naphthalene	5.0	U, S
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U, R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-065D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-21A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1830.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/30/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/L
108-87-2	Methylcyclohexane	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-065D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-21A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1830.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/30/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-065DDL

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM Case No.: K1102

Mod. Ref No.: SDG No.: SK1102

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: K1102-21ADL

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V8A4326.D

Level: (TRACE/LOW/MED) LOW

Date Received: 06/24/2011

% Moisture: not dec.

Date Analyzed: 07/01/2011

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 10.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µg/L	Q
75-71-8	Dichlorodifluoromethane	50	U
74-87-3	Chloromethane	50	U
75-01-4	Vinyl chloride	50	U
74-83-9	Bromomethane	50	U
75-00-3	Chloroethane	50	U
75-69-4	Trichlorofluoromethane	50	U
75-35-4	1,1-Dichloroethene	140	D
67-64-1	Acetone	<50	U-R
74-88-4	Iodomethane	50	U
75-15-0	Carbon disulfide	50	U
75-09-2	Methylene chloride	50	U
156-60-5	trans-1,2-Dichloroethene	50	U
1634-04-4	Methyl tert-butyl ether	50	U
75-34-3	1,1-Dichloroethane	50	U
108-05-4	Vinyl acetate	50	U
78-93-3	2-Butanone	50	U-R
156-59-2	cis-1,2-Dichloroethene	15	DJ
594-20-7	2,2-Dichloropropane	50	U
74-97-5	Bromochloromethane	50	U
67-66-3	Chloroform	50	U
71-55-6	1,1,1-Trichloroethane	26	DJ
563-58-6	1,1-Dichloropropene	50	U
56-23-5	Carbon tetrachloride	50	U
107-06-2	1,2-Dichloroethane	50	U
71-43-2	Benzene	50	U-S
79-01-6	Trichloroethene	670	D
78-87-5	1,2-Dichloropropane	50	U
74-95-3	Dibromomethane	50	U
75-27-4	Bromodichloromethane	50	U
10061-01-5	cis-1,3-Dichloropropene	50	U
108-10-1	4-Methyl-2-pentanone	50	U
108-88-3	Toluene	50	U
10061-02-6	trans-1,3-Dichloropropene	50	U
79-00-5	1,1,2-Trichloroethane	50	U
142-28-9	1,3-Dichloropropane	50	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
DEC-065DDL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-21ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4326.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 07/01/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 10.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	78	D
591-78-6	2-Hexanone	50	U
124-48-1	Dibromochloromethane	50	U
106-93-4	1,2-Dibromoethane	50	U
108-90-7	Chlorobenzene	50	U
630-20-6	1,1,1,2-Tetrachloroethane	50	U
100-41-4	Ethylbenzene	50	U
1330-20-7	m,p-Xylene	50	U
95-47-6	o-Xylene	50	U
1330-20-7	Xylene (Total)	50	U
100-42-5	Styrene	50	U
75-25-2	Bromoform	50	U
98-82-8	Isopropylbenzene	50	U
79-34-5	1,1,2,2-Tetrachloroethane	50	U
108-86-1	Bromobenzene	50	U
96-18-4	1,2,3-Trichloropropane	50	U
95-49-8	2-Chlorotoluene	50	U
108-67-8	1,3,5-Trimethylbenzene	50	U
106-43-4	4-Chlorotoluene	50	U
98-06-6	tert-Butylbenzene	50	U
95-63-6	1,2,4-Trimethylbenzene	50	U
135-98-8	sec-Butylbenzene	50	U
99-87-6	4-Isopropyltoluene	50	U
541-73-1	1,3-Dichlorobenzene	50	U
106-46-7	1,4-Dichlorobenzene	50	U
95-50-1	1,2-Dichlorobenzene	50	U
96-12-8	1,2-Dibromo-3-chloropropane	50	U
120-82-1	1,2,4-Trichlorobenzene	50	U
87-68-3	Hexachlorobutadiene	50	U
87-61-6	1,2,3-Trichlorobenzene	50	U
91-20-3	Naphthalene	50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	50	U
123-91-1	1,4-Dioxane	1000	U
110-82-7	Cyclohexane	50	U
79-20-9	Methyl acetate	50	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
DEC-065DDL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-21ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4326.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 07/01/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 10.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µG/L	
108-87-2	Methylcyclohexane		50	U

Handwritten signature and date:
8/2/11

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-065DDL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-21ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4326.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 07/01/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 10.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

Handwritten: 8/8/11

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
DEC-066

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-04A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4231.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 06/29/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	4.1	J
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	2.1	J
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
DEC-066

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-04A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4231.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 06/29/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
127-18-4	Tetrachloroethene	8.4	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U-3
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U-12
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

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1B -- FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-066

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-04A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4231.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 06/29/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µG/L	
108-87-2	Methylcyclohexane		5.0	U-3

*Check
8/9/11*

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-066

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-04A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4231.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 06/29/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-066D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-03A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4230.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 06/29/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{g/L}$	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	2.7	J
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U-12
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	23	
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-066D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-03A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4230.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 06/29/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
127-18-4	Tetrachloroethene	1.7	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U-3
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U-12
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-066D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-03A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4230.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 06/29/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	µG/L	
108-87-2	Methylcyclohexane		5.0	<u>U</u>

Handwritten signature and date:
8/9/11

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-066D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-03A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4230.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 06/29/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TRIP BLANK

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-13A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1787.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/29/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ g/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U-S
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U-R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U-R
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TRIP BLANK

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-13A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1787.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. Date Analyzed: 06/29/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ g/L	Q
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100-	U-R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TRIP BLANK

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-13A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I1787.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. _____ Date Analyzed: 06/29/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/L	
108-87-2	Methylcyclohexane		5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

TRIP BLANK

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-13A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V611787.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/24/2011
% Moisture: not dec. _____ Date Analyzed: 06/29/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM

Case No.: K1110

Mod. Ref No.:

SDG No.: SK1110

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: K1110-23A

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V8A4378.D

Level: (TRACE/LOW/MED) LOW

Date Received: 06/27/2011

% Moisture: not dec.

Date Analyzed: 07/05/2011

GC Column: DB-624

ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume:

(uL) Soil Aliquot Volume:

(uL)

Purge Volume: 5.0

(mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U S
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U S
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U R
74-88-4	Iodomethane	5.0	U S
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U S
108-05-4	Vinyl acetate	5.0	U R
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U S
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U S
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-23A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4378.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/05/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ g/L	Q
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U <i>5</i>
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U <i>5</i>
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U <i>R</i>
110-82-7	Cyclohexane	5.0	U <i>5</i>
79-20-9	Methyl acetate	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-23A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4378.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/05/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/L	
108-87-2	Methylcyclohexane		5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

TB

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-23A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8A4378.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/05/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-031

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-09D
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3H4446.D
Level: (LOW/MED) LOW Extraction: (Type) SEPF
% Moisture: _____ Decanted: (Y/N) _____ Date Received: 06/24/2011
Concentrated Extract Volume: 500 (uL) Date Extracted: 06/28/2011
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 06/30/2011
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	5.0	U
111-44-4	Bis(2-chloroethyl) ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
111-91-1	Bis(2-chloroethoxy) methane	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	10	U
131-11-3	Dimethylphthalate	5.0	U
208-96-8	Acenaphthylene	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene	5.0	U
51-28-5	2,4-Dinitrophenol	10	U
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
86-73-7	Fluorene	5.0	U
100-01-6	4-Nitroaniline	10	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-031

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-09D
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3H4446.D
Level: (LOW/MED) LOW Extraction: (Type) SEPF
% Moisture: _____ Decanted: (Y/N) _____ Date Received: 06/24/2011
Concentrated Extract Volume: 500 (uL) Date Extracted: 06/28/2011
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 06/30/2011
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-30-6	N-Nitrosodiphenylamine	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
86-74-8	Carbazole	5.0	U
84-74-2	Di-n-butylphthalate	0.56	J
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	Bis(2-ethylhexyl)phthalate	5.0	U
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U
92-52-4	1,1'-Biphenyl	5.0	U
111-11-1	3-Methylphenol + 4-Methylphenol	5.0	U
98-86-2	Acetophenone	5.0	U
1912-24-9	Atrazine	5.0	U
100-52-7	Benzaldehyde	5.0	U
105-60-2	Caprolactam	5.0	U-3

Handwritten signature and date 6/30/11

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DEC-031

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-09D
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3H4446.D
 Level: (TRACE or LOW/MED) LOW Extraction: (Type) SEPF
 % Moisture: _____ Decanted: (Y/N) _____ Date Received: 06/24/2011
 Concentrated Extract Volume: 500 (uL) Date Extracted: 06/28/2011
 Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 06/30/2011
 GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown	4.215	2.6	J
02	57-10-3	n-Hexadecanoic acid	7.815	11	NJ
03	57-11-4	Octadecanoic acid	8.440	3.0	NJ
04	112-84-5	13-Docosenamide, (Z)-	10.048	4.6	NJ

²EPA-designated Registry Number.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-031D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-08D
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3H4445.D
Level: (LOW/MED) LOW Extraction: (Type) SEPF
% Moisture: _____ Decanted: (Y/N) _____ Date Received: 06/24/2011
Concentrated Extract Volume: 500 (uL) Date Extracted: 06/28/2011
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 06/30/2011
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	5.0	U
111-44-4	Bis(2-chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U-5
108-60-1	2,2'-oxybis(1-Chloropropane)	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
111-91-1	Bis(2-chloroethoxy)methane	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	10	U
131-11-3	Dimethylphthalate	5.0	U
208-96-8	Acenaphthylene	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene	5.0	U
51-28-5	2,4-Dinitrophenol	10	U-5
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
86-73-7	Fluorene	5.0	U
100-01-6	4-Nitroaniline	10	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-031D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-08D
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3H4445.D
Level: (LOW/MED) LOW Extraction: (Type) SEPF
% Moisture: _____ Decanted: (Y/N) _____ Date Received: 06/24/2011
Concentrated Extract Volume: 500 (uL) Date Extracted: 06/28/2011
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 06/30/2011
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-30-6	N-Nitrosodiphenylamine	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
86-74-8	Carbazole	5.0	U
84-74-2	Di-n-butylphthalate	0.72	J
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	Bis(2-ethylhexyl)phthalate	5.0	U
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U
92-52-4	1,1'-Biphenyl	5.0	U
111-11-1	3-Methylphenol + 4-Methylphenol	5.0	U
98-86-2	Acetophenone	5.0	U
1912-24-9	Atrazine	5.0	U
100-52-7	Benzaldehyde	5.0	U
105-60-2	Caprolactam	5.0	U-5

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DEC-031D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-08D

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3H4445.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SEPF

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 06/24/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/28/2011

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 06/30/2011

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown	4.205	2.3	J
02	57-10-3	n-Hexadecanoic acid	7.811	8.3	NJ
03	112-84-5	13-Docosenamide, (Z)-	10.038	4.5	NJ

²EPA-designated Registry Number.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-048

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-19D
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3H4717.D
Level: (LOW/MED) LOW Extraction: (Type) SEPF
% Moisture: _____ Decanted: (Y/N) _____ Date Received: 06/27/2011
Concentrated Extract Volume: 500 (uL) Date Extracted: 07/01/2011
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 07/19/2011
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/L	Q
108-95-2	Phenol	5.0	U	
111-44-4	Bis(2-chloroethyl)ether	5.0	U	
95-57-8	2-Chlorophenol	5.0	U	
95-48-7	2-Methylphenol	5.0	U	
108-60-1	2,2'-oxybis(1-Chloropropane)	5.0	U	
621-64-7	N-Nitroso-di-n-propylamine	5.0	U	
67-72-1	Hexachloroethane	5.0	U	
98-95-3	Nitrobenzene	5.0	U	
78-59-1	Isophorone	5.0	U	
88-75-5	2-Nitrophenol	5.0	U	
105-67-9	2,4-Dimethylphenol	5.0	U	
120-83-2	2,4-Dichlorophenol	5.0	U	
91-20-3	Naphthalene	5.0	U	
106-47-8	4-Chloroaniline	5.0	U	
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	
87-68-3	Hexachlorobutadiene	5.0	U	
59-50-7	4-Chloro-3-methylphenol	5.0	U	
91-57-6	2-Methylnaphthalene	5.0	U	
77-47-4	Hexachlorocyclopentadiene	5.0	U	
88-06-2	2,4,6-Trichlorophenol	5.0	U	
95-95-4	2,4,5-Trichlorophenol	10	U	
91-58-7	2-Chloronaphthalene	5.0	U	
88-74-4	2-Nitroaniline	10	U	
131-11-3	Dimethylphthalate	5.0	U	
208-96-8	Acenaphthylene	5.0	U	
606-20-2	2,6-Dinitrotoluene	5.0	U	
99-09-2	3-Nitroaniline	10	U	
83-32-9	Acenaphthene	5.0	U	
51-28-5	2,4-Dinitrophenol	10	U	
100-02-7	4-Nitrophenol	10	U	
132-64-9	Dibenzofuran	5.0	U	
121-14-2	2,4-Dinitrotoluene	5.0	U	
84-66-2	Diethylphthalate	5.0	U	
7005-72-3	4-Chlorophenyl-phenylether	5.0	U	
86-73-7	Fluorene	5.0	U	
100-01-6	4-Nitroaniline	10	U	

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-048

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-19D
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3H4717.D
Level: (LOW/MED) LOW Extraction: (Type) SEPF
% Moisture: _____ Decanted: (Y/N) _____ Date Received: 06/27/2011
Concentrated Extract Volume: 500 (uL) Date Extracted: 07/01/2011
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 07/19/2011
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
534-52-1	4,6-Dinitro-2-methylphenol		10	U
86-30-6	N-Nitrosodiphenylamine		5.0	U
101-55-3	4-Bromophenyl-phenylether		5.0	U
118-74-1	Hexachlorobenzene		5.0	U
87-86-5	Pentachlorophenol		10	U
85-01-8	Phenanthrene		5.0	U
120-12-7	Anthracene		5.0	U
86-74-8	Carbazole		5.0	U
84-74-2	Di-n-butylphthalate		5.0	U
206-44-0	Fluoranthene		5.0	U
129-00-0	Pyrene		5.0	U
85-68-7	Butylbenzylphthalate		5.0	U
91-94-1	3,3'-Dichlorobenzidine		5.0	U
56-55-3	Benzo(a)anthracene		5.0	U
218-01-9	Chrysene		5.0	U
117-81-7	Bis(2-ethylhexyl)phthalate		5.0	U
117-84-0	Di-n-octylphthalate		5.0	U
205-99-2	Benzo(b)fluoranthene		5.0	U
207-08-9	Benzo(k)fluoranthene		5.0	U
50-32-8	Benzo(a)pyrene		5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene		5.0	U
53-70-3	Dibenzo(a,h)anthracene		5.0	U
191-24-2	Benzo(g,h,i)perylene		5.0	U
92-52-4	1,1'-Biphenyl		5.0	U
111-11-1	3-Methylphenol + 4-Methylphenol		5.0	U
98-86-2	Acetophenone		5.0	U
1912-24-9	Atrazine		5.0	U
100-52-7	Benzaldehyde		5.0	U
105-60-2	Caprolactam		5.0	U

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
DEC-048

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-19D
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3H4717.D
 Level: (TRACE or LOW/MED) LOW Extraction: (Type) SEPF
 % Moisture: _____ Decanted: (Y/N) _____ Date Received: 06/27/2011
 Concentrated Extract Volume: 500 (uL) Date Extracted: 07/01/2011
 Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 07/19/2011
 GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	2039-89-6	Benzene, 2-ethenyl-1,4-dimet	5.675	2.4	NJ

²EPA-designated Registry Number.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC-048

CLIENT SAMPLE NO.

DUP2-062411

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-21D
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3H4720.D
Level: (LOW/MED) LOW Extraction: (Type) SEPF
% Moisture: _____ Decanted: (Y/N) _____ Date Received: 06/27/2011
Concentrated Extract Volume: 500 (uL) Date Extracted: 07/01/2011
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 07/19/2011
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	5.0	U
111-44-4	Bis(2-chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	1.2	J
106-47-8	4-Chloroaniline	5.0	U
111-91-1	Bis(2-chloroethoxy)methane	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	1.4	J
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	10	U
131-11-3	Dimethylphthalate	5.0	U
208-96-8	Acenaphthylene	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene	5.0	U
51-28-5	2,4-Dinitrophenol	10	U
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
86-73-7	Fluorene	5.0	U
100-01-6	4-Nitroaniline	10	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUP2-062411

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-21D
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3H4720.D
Level: (LOW/MED) LOW Extraction: (Type) SEPF
% Moisture: _____ Decanted: (Y/N) _____ Date Received: 06/27/2011
Concentrated Extract Volume: 500 (uL) Date Extracted: 07/01/2011
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 07/19/2011
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
534-52-1	4,6-Dinitro-2-methylphenol	10	U	
86-30-6	N-Nitrosodiphenylamine	5.0	U	
101-55-3	4-Bromophenyl-phenylether	5.0	U	
118-74-1	Hexachlorobenzene	5.0	U	
87-86-5	Pentachlorophenol	10	U	
85-01-8	Phenanthrene	5.0	U	
120-12-7	Anthracene	5.0	U	
86-74-8	Carbazole	0.72	J	
84-74-2	Di-n-butylphthalate	5.0	U	
206-44-0	Fluoranthene	5.0	U	
129-00-0	Pyrene	5.0	U	
85-68-7	Butylbenzylphthalate	5.0	U	
91-94-1	3,3'-Dichlorobenzidine	5.0	U	
56-55-3	Benzo (a) anthracene	5.0	U	
218-01-9	Chrysene	5.0	U	
117-81-7	Bis (2-ethylhexyl) phthalate	5.0	U	
117-84-0	Di-n-octylphthalate	5.0	U	
205-99-2	Benzo (b) fluoranthene	5.0	U	
207-08-9	Benzo (k) fluoranthene	5.0	U	
50-32-8	Benzo (a) pyrene	5.0	U	
193-39-5	Indeno (1,2,3-cd) pyrene	5.0	U	
53-70-3	Dibenzo (a,h) anthracene	5.0	U	
191-24-2	Benzo (g,h,i) perylene	5.0	U	
92-52-4	1,1'-Biphenyl	0.68	J	
111-11-1	3-Methylphenol + 4-Methylphenol	5.0	U	
98-86-2	Acetophenone	5.0	U	
1912-24-9	Atrazine	5.0	U	
100-52-7	Benzaldehyde	5.0	U	
105-60-2	Caprolactam	5.0	U	

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC-048

CLIENT SAMPLE NO.
DUP2-062411

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-21D

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3H4720.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SEPF

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 06/27/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 07/01/2011

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 07/19/2011

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	3454-07-7	Benzene, 1-ethenyl-4-ethyl-	5.676	2.8	NJ
02	1680-51-9	Naphthalene, 1,2,3,4-tetrahy	6.381	2.0	NJ
03	582-16-1	Naphthalene, 2,7-dimethyl-	7.177	2.8	NJ
04	6510-65-2	1-Methylcarbazole	9.154	2.3	NJ
05		Unknown	12.882	6.5	J

²EPA-designated Registry Number.

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-031

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-09D
Sample wt/vol: 1000 (g/mL) ML Lab File ID: E5H1465F.D/E5H1465R.D
% Moisture: _____ Decanted: (Y/N) _____ Date Received: 06/24/2011
Extraction: (Type) SEPF Date Extracted: 06/28/2011
Concentrated Extract Volume: 10000 (uL) Date Analyzed: 06/30/2011
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/L	
319-84-6	alpha-BHC		0.050	U
319-85-7	beta-BHC		0.050	U
319-86-8	delta-BHC		0.050	U
58-89-9	gamma-BHC (Lindane)		0.051	U
76-44-8	Heptachlor		0.050	U
309-00-2	Aldrin		0.050	U
1024-57-3	Heptachlor epoxide		0.050	U
959-98-8	Endosulfan I		0.050	U
60-57-1	Dieldrin		0.10	U
72-55-9	4,4'-DDE		0.10	U
72-20-8	Endrin		0.10	U
33213-65-9	Endosulfan II		0.10	U
72-54-8	4,4'-DDD		0.10	U
1031-07-8	Endosulfan sulfate		0.10	U
50-29-3	4,4'-DDT		0.10	U
72-43-5	Methoxychlor		0.50	U
53494-70-5	Endrin ketone		0.10	U
7421-93-4	Endrin aldehyde		0.10	U
5103-71-9	alpha-Chlordane		0.050	U
5103-74-2	gamma-Chlordane		0.050	U
8001-35-2	Toxaphene		5.0	U

Handwritten signature and date: 8/10/11

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-031D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-08D

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E5H1464F.D/E5H1464R.D

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 06/24/2011

Extraction: (Type) SEPF Date Extracted: 06/28/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 06/30/2011

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>µg/L</u>	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-048

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-19D

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E4G6346F.D/E4G6346R.D

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 06/27/2011

Extraction: (Type) SEPF Date Extracted: 07/01/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/15/2011

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>µG/L</u>	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

DEC-048
CLIENT SAMPLE NO.
DUP2-062411

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-21D
Sample wt/vol: 1000 (g/mL) ML Lab File ID: E4G6349F.D/E4G6349R.D
% Moisture: _____ Decanted: (Y/N) _____ Date Received: 06/27/2011
Extraction: (Type) SEPF Date Extracted: 07/01/2011
Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/15/2011
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

1H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-031

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-09D
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: E2K4158F.D/E2K4158R.D
 % Moisture: _____ Decanted: (Y/N) _____ Date Received: 06/24/2011
 Extraction: (Type) SEPF Date Extracted: 06/28/2011
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 06/30/2011
 Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y
 Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/L</u>	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

1H - FORM I ARO
 AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-031D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1102-08D
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: E2K4157F.D/E2K4157R.D
 % Moisture: _____ Decanted: (Y/N) _____ Date Received: 06/24/2011
 Extraction: (Type) SEPF Date Extracted: 06/28/2011
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 06/30/2011
 Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y
 Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>µg/L</u>	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

1H - FORM I ARO
 AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-048

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-19D
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: E2K4506F.D/E2K4506R.D
 % Moisture: _____ Decanted: (Y/N) _____ Date Received: 06/27/2011
 Extraction: (Type) SEPF Date Extracted: 07/01/2011
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/15/2011
 Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y
 Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>µG/L</u>	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

1H - FORM I ARO
 AROCLOR ORGANICS ANALYSIS DATA SHEET

DEC 048
 CLIENT SAMPLE NO.
 DUP2-062411

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K1110-21D
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: E2K4509F.D/E2K4509R.D
 % Moisture: _____ Decanted: (Y/N) _____ Date Received: 06/27/2011
 Extraction: (Type) SEPF Date Extracted: 07/01/2011
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/15/2011
 Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y
 Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/L	
12674-11-2	Aroclor-1016		1.0	U
11104-28-2	Aroclor-1221		1.0	U
11141-16-5	Aroclor-1232		1.0	U
53469-21-9	Aroclor-1242		1.0	U
12672-29-6	Aroclor-1248		1.0	U
11097-69-1	Aroclor-1254		1.0	U
11096-82-5	Aroclor-1260		1.0	U
37324-23-5	Aroclor-1262		1.0	U
11100-14-4	Aroclor-1268		1.0	U

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

DEC-031

Lab Name: Spectrum Analytical, Inc.Contract: 250626USLab Code: MITKEM

Case No.: _____

SAS No.: _____

SDG No.: SK1102Matrix (soil/water): WATERLab Sample ID: K1102-09Level (low/med): MEDDate Received: 06/24/2011% Solids: 0.0Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	154	B		P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	48.5	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	61200			P
7440-47-3	Chromium	0.64	U		P
7440-48-4	Cobalt	1.8	B		P
7440-50-8	Copper	3.6	U		P
7439-89-6	Iron	314			P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	21400			P
7439-96-5	Manganese	249			P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	10.8	B		P
7440-09-7	Potassium	2350			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	71000			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	4.9	U		P
57-12-5	Cyanide	7.5	U		CA

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

DEC-031D

Lab Name: Spectrum Analytical, Inc.

Contract: 250626US

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SK1102

Matrix (soil/water): WATER

Lab Sample ID: K1102-08

Level (low/med): MED

Date Received: 06/24/2011

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	464			P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	36.8	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	111000			P
7440-47-3	Chromium	2.0	B		P
7440-48-4	Cobalt	6.1	B		P
7440-50-8	Copper	3.6	U		P
7439-89-6	Iron	1530			P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	58400			P
7439-96-5	Manganese	2300			P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	4.2	B		P
7440-09-7	Potassium	7020			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	102000			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	2.2	B		P
7440-66-6	Zinc	11.0	B		P
57-12-5	Cyanide	7.5	U		CA

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

DEC-048

Lab Name: Spectrum Analytical, Inc.Contract: 250626USLab Code: MITKEM

Case No.: _____

SAS No.: _____

SDG No.: SK1110Matrix (soil/water): WATERLab Sample ID: K1110-19Level (low/med): MEDDate Received: 06/27/2011% Solids: 0.0Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	66.0	U		P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	95.0	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	66300			P
7440-47-3	Chromium	0.79	B		P
7440-48-4	Cobalt	1.1	B		P
7440-50-8	Copper	3.6	U		P
7439-89-6	Iron	1010		5	P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	28400			P
7439-96-5	Manganese	738			P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	6.6	B		P
7440-09-7	Potassium	2890			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	76000			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	4.9	U		P
57-12-5	Cyanide	7.5	U		CA

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

DUP2-062411

Lab Name: Spectrum Analytical, Inc.Contract: 250626USLab Code: MITKEM

Case No.: _____

SAS No.: _____

SDG No.: SK1110Matrix (soil/water): WATERLab Sample ID: K1110-21Level (low/med): MEDDate Received: 06/27/2011% Solids: 0.0Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	66.0	U		P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	95.4	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	65900			P
7440-47-3	Chromium	0.64	U		P
7440-48-4	Cobalt	1.1	B		P
7440-50-8	Copper	3.6	U		P
7439-89-6	Iron	1990		5	P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	28100			P
7439-96-5	Manganese	702			P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	6.0	B		P
7440-09-7	Potassium	2850			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	75500			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	4.9	U		P
57-12-5	Cyanide	7.5	U		CA

Comments:

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-048

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1120 Mod. Ref No.: _____ SDG No.: SK1120
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K1120-01A
Sample wt/vol: 1.00 (g/mL) G Lab File ID: V8A4427.D
Level: (TRACE/LOW/MED) MED Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/06/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 500.0
Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{G/KG}$	Q
75-71-8	Dichlorodifluoromethane	630000	U
74-87-3	Chloromethane	630000	U
75-01-4	Vinyl chloride	630000	U
74-83-9	Bromomethane	630000	U
75-00-3	Chloroethane	630000	U
75-69-4	Trichlorofluoromethane	630000	U
75-35-4	1,1-Dichloroethene	630000	U
67-64-1	Acetone	630000	U R
74-88-4	Iodomethane	630000	U
75-15-0	Carbon disulfide	630000	U
75-09-2	Methylene chloride	630000	U
156-60-5	trans-1,2-Dichloroethene	630000	U
1634-04-4	Methyl tert-butyl ether	630000	U
75-34-3	1,1-Dichloroethane	630000	U
108-05-4	Vinyl acetate	630000	U
78-93-3	2-Butanone	630000	U R
156-59-2	cis-1,2-Dichloroethene	630000	U
594-20-7	2,2-Dichloropropane	630000	U
74-97-5	Bromochloromethane	630000	U
67-66-3	Chloroform	630000	U
71-55-6	1,1,1-Trichloroethane	630000	U
563-58-6	1,1-Dichloropropene	630000	U
56-23-5	Carbon tetrachloride	630000	U
107-06-2	1,2-Dichloroethane	630000	U
71-43-2	Benzene	630000	U
79-01-6	Trichloroethene	630000	U
78-87-5	1,2-Dichloropropane	630000	U
74-95-3	Dibromomethane	630000	U
75-27-4	Bromodichloromethane	630000	U
10061-01-5	cis-1,3-Dichloropropene	630000	U
108-10-1	4-Methyl-2-pentanone	630000	U
108-88-3	Toluene	630000	U
10061-02-6	trans-1,3-Dichloropropene	630000	U
79-00-5	1,1,2-Trichloroethane	630000	U
142-28-9	1,3-Dichloropropane	630000	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-048

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM Case No.: K1120

Mod. Ref No.: SDG No.: SK1120

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: K1120-01A

Sample wt/vol: 1.00 (g/mL) G

Lab File ID: V8A4427.D

Level: (TRACE/LOW/MED) MED

Date Received: 06/27/2011

% Moisture: not dec.

Date Analyzed: 07/06/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 500.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) μ G/KG	Q
127-18-4	Tetrachloroethene	630000	U
591-78-6	2-Hexanone	630000	U-5
124-48-1	Dibromochloromethane	630000	U
106-93-4	1,2-Dibromoethane	630000	U
108-90-7	Chlorobenzene	630000	U
630-20-6	1,1,1,2-Tetrachloroethane	630000	U
100-41-4	Ethylbenzene	630000	U
1330-20-7	m,p-Xylene	630000	U
95-47-6	o-Xylene	630000	U
1330-20-7	Xylene (Total)	630000	U
100-42-5	Styrene	630000	U
75-25-2	Bromoform	630000	U
98-82-8	Isopropylbenzene	630000	U
79-34-5	1,1,2,2-Tetrachloroethane	630000	U
108-86-1	Bromobenzene	630000	U
96-18-4	1,2,3-Trichloropropane	630000	U
103-65-1	n-Propylbenzene	630000	U
95-49-8	2-Chlorotoluene	630000	U
108-67-8	1,3,5-Trimethylbenzene	630000	U
106-43-4	4-Chlorotoluene	630000	U
98-06-6	tert-Butylbenzene	630000	U
95-63-6	1,2,4-Trimethylbenzene	420000	J
135-98-8	sec-Butylbenzene	630000	U
99-87-6	4-Isopropyltoluene	630000	U
541-73-1	1,3-Dichlorobenzene	630000	U
106-46-7	1,4-Dichlorobenzene	630000	U
104-51-8	n-Butylbenzene	630000	U
95-50-1	1,2-Dichlorobenzene	630000	U
96-12-8	1,2-Dibromo-3-chloropropane	630000	U
120-82-1	1,2,4-Trichlorobenzene	630000	U
87-68-3	Hexachlorobutadiene	630000	U
87-61-6	1,2,3-Trichlorobenzene	630000	U
91-20-3	Naphthalene	630000 600000	U U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	630000	U
123-91-1	1,4-Dioxane	13000000	U-R

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-048

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1120 Mod. Ref No.: _____ SDG No.: SK1120
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K1120-01A
Sample wt/vol: 1.00 (g/mL) G Lab File ID: V8A4427.D
Level: (TRACE/LOW/MED) MED Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/06/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 500.0
Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	µG/KG
110-82-7	Cyclohexane	630000	U
79-20-9	Methyl acetate	630000	U
108-87-2	Methylcyclohexane	630000	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-048

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1120 Mod. Ref No.: _____ SDG No.: SK1120
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K1120-01A
Sample wt/vol: 1.00 (g/mL) G Lab File ID: V8A4427.D
Level: (TRACE or LOW/MED) MED Date Received: 06/27/2011
% Moisture: not dec. Date Analyzed: 07/06/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 500.0
Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/KG Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	105-05-5	Benzene, 1,4-diethyl-	11.204	1100000	NJ
02	1587-04-8	Benzene, 1-methyl-2-(2-prope	11.676	1200000	NJ
03	934-10-1	3-Phenylbut-1-ene	12.364	1900000	NJ
04	119-64-2	Naphthalene, 1,2,3,4-tetrahy	12.519	1000000	NJ
05	4489-84-3	Benzene, (3-methyl-2-butenyl	12.699	1100000	NJ
06	56253-64-6	Benzene, (2-methyl-1-butenyl	12.789	1200000	NJ
07	1680-51-9	Naphthalene, 1,2,3,4-tetrahy	13.425	2200000	NJ
08		Unknown	13.724	1000000	J
09	91-57-6	Naphthalene, 2-methyl-	13.924	1800000	NJ
10	90-12-0	Naphthalene, 1-methyl-	14.110	1700000	NJ
11	581-42-0	Naphthalene, 2,6-dimethyl-	15.046	970000	NJ
12	581-40-8	Naphthalene, 2,3-dimethyl-	15.229	1300000	NJ

¹EPA-designated Registry Number.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-048

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM Case No.: K1120

Mod. Ref No.: SDG No.: SK1120

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: K1120-01A

Sample wt/vol: 1.0 (g/mL) G

Lab File ID: S3H4550.D

Level: (LOW/MED) LOW

Extraction: (Type) OTHER

% Moisture: Decanted: (Y/N)

Date Received: 06/27/2011

Concentrated Extract Volume: 10000 (uL)

Date Extracted: 07/07/2011

Injection Volume: 1.0 (uL) GPC Factor: 1.00

Date Analyzed: 07/07/2011

GPC Cleanup: (Y/N) N pH:

Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	500000	U
111-44-4	Bis(2-chloroethyl)ether	500000	U
95-57-8	2-Chlorophenol	500000	U
95-48-7	2-Methylphenol	500000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	500000	U
621-64-7	N-Nitroso-di-n-propylamine	500000	U
67-72-1	Hexachloroethane	500000	U
98-95-3	Nitrobenzene	500000	U
78-59-1	Isophorone	500000	U
88-75-5	2-Nitrophenol	500000	U
105-67-9	2,4-Dimethylphenol	500000	U
120-83-2	2,4-Dichlorophenol	500000	U
91-20-3	Naphthalene	610000	
106-47-8	4-Chloroaniline	500000	U
111-91-1	Bis(2-chloroethoxy)methane	500000	U
87-68-3	Hexachlorobutadiene	500000	U
59-50-7	4-Chloro-3-methylphenol	500000	U
91-57-6	2-Methylnaphthalene	3500000	
77-47-4	Hexachlorocyclopentadiene	500000	U
88-06-2	2,4,6-Trichlorophenol	500000	U
95-95-4	2,4,5-Trichlorophenol	1000000	U
91-58-7	2-Chloronaphthalene	500000	U
88-74-4	2-Nitroaniline	1000000	U
131-11-3	Dimethylphthalate	500000	U
208-96-8	Acenaphthylene	500000	U
606-20-2	2,6-Dinitrotoluene	500000	U
99-09-2	3-Nitroaniline	1000000	U
83-32-9	Acenaphthene	200000	J
51-28-5	2,4-Dinitrophenol	1000000	U
100-02-7	4-Nitrophenol	1000000	U
132-64-9	Dibenzofuran	500000	U
121-14-2	2,4-Dinitrotoluene	500000	U
84-66-2	Diethylphthalate	500000	U
7005-72-3	4-Chlorophenyl-phenylether	500000	U
86-73-7	Fluorene	490000	J
100-01-6	4-Nitroaniline	1000000	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-048

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1120 Mod. Ref No.: _____ SDG No.: SK1120
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K1120-01A
Sample wt/vol: 1.0 (g/mL) G Lab File ID: S3H4550.D
Level: (LOW/MED) LOW Extraction: (Type) OTHER
% Moisture: _____ Decanted: (Y/N) _____ Date Received: 06/27/2011
Concentrated Extract Volume: 10000 (uL) Date Extracted: 07/07/2011
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 07/07/2011
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
534-52-1	4,6-Dinitro-2-methylphenol	1000000	U
86-30-6	N-Nitrosodiphenylamine	500000	U
101-55-3	4-Bromophenyl-phenylether	500000	U
118-74-1	Hexachlorobenzene	500000	U
87-86-5	Pentachlorophenol	1000000	U
85-01-8	Phenanthrene	1200000	
120-12-7	Anthracene	500000	U
86-74-8	Carbazole	500000	U
84-74-2	Di-n-butylphthalate	500000	U
206-44-0	Fluoranthene	500000	U
129-00-0	Pyrene	130000	J
85-68-7	Butylbenzylphthalate	500000	U 3
91-94-1	3,3'-Dichlorobenzidine	500000	U
56-55-3	Benzo (a) anthracene	500000	U
218-01-9	Chrysene	500000	U
117-81-7	Bis (2-ethylhexyl) phthalate	210000	J
117-84-0	Di-n-octylphthalate	500000	U 3
205-99-2	Benzo (b) fluoranthene	500000	U
207-08-9	Benzo (k) fluoranthene	500000	U
50-32-8	Benzo (a) pyrene	500000	U
193-39-5	Indeno (1,2,3-cd) pyrene	500000	U
53-70-3	Dibenzo (a,h) anthracene	500000	U
191-24-2	Benzo (g,h,i) perylene	500000	U
92-52-4	1,1'-Biphenyl	740000	
111-11-1	3-Methylphenol + 4-Methylphenol	500000	U
98-86-2	Acetophenone	500000	U
1912-24-9	Atrazine	500000	U 3
100-52-7	Benzaldehyde	500000	U 3
105-60-2	Caprolactam	500000	U

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DEC-048

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1120 Mod. Ref No.: _____ SDG No.: SK1120
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K1120-01A
Sample wt/vol: 1.0 (g/mL) G Lab File ID: S3H4550.D
Level: (TRACE or LOW/MED) LOW Extraction: (Type) OTHER
% Moisture: _____ Decanted: (Y/N) _____ Date Received: 06/27/2011
Concentrated Extract Volume: 10000 (uL) Date Extracted: 07/07/2011
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 07/07/2011
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 5.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	493-02-7	Naphthalene, decahydro-, tra	2.558	6300000	NJ
02		Unknown (2.64842)	2.648	4200000	J
03	1120-21-4	Undecane	3.097	15000000	NJ
04	2958-76-1	Naphthalene, decahydro-2-met	3.257	7500000	NJ
05		Unknown (3.36962)	3.370	4600000	J
06		Unknown (3.61000)	3.610	4700000	J
07	7045-71-8	Undecane, 2-methyl-	3.706	4000000	NJ
08	112-40-3	Dodecane	4.048	1000000	NJ
09	6044-71-9	Dodecane, 6-methyl-	4.166	1700000	NJ
10	1680-51-9	Naphthalene, 1,2,3,4-tetrahy	4.518	1200000	NJ
11		Unknown (4.92417)	4.924	1100000	J
12	1127-76-0	Naphthalene, 1-ethyl-	5.357	1100000	NJ
13	581-42-0	Naphthalene, 2,6-dimethyl-	5.426	1400000	NJ
14	571-58-4	Naphthalene, 1,4-dimethyl-	5.496	1600000	NJ
15	582-16-1	Naphthalene, 2,7-dimethyl-	5.523	1800000	NJ
16	829-26-5	Naphthalene, 2,3,6-trimethyl	5.912	1100000	NJ
17	2245-38-7	Naphthalene, 1,6,7-trimethyl	6.164	2000000	NJ
18	3892-00-0	Pentadecane, 2,6,10-trimethy	6.543	3600000	NJ
19	1921-70-6	Pentadecane, 2,6,10,14-tetra	6.762	9500000	NJ
20	638-36-8	Hexadecane, 2,6,10,14-tetram	7.130	7000000	NJ

²EPA-designated Registry Number.

Analysis Report: Fuel Identification

Client: URS_BUFFALO

Project: Klink Cosmo Meeker

Analysis: Fuel ID

Lab ID

K1120-01A

Result(*)

Resembles Diesel Fuel/ #2 Fuel Oil

(*) Lab reference standards included:

Diesel Fuel/ #2 Fuel Oil

Motor Oil

#4 Fuel Oil

#5 Fuel Oil

#6 Fuel Oil

Unleaded Gasoline

Aviation Gasoline

Jet Fuel A

Kerosene

Creosote

Mineral Spirits

Hydraulic Oil

JP-4

JP-5

Transmission Fluid

Coal Tar

Transformer Oil

Sample Analysis

Work Order 11-0901

Sample	Description	Source	Taken/Time	Received
28562	K1120-01B	Spectrum Analytical, Inc.		6/29/11
Parameter	Results	MDL	Method	Analyzed/Time Tech
Specific Gravity @ 60°F	0.8608		ASTM 2710F	07/07/11 sjr

ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160700

Sample: SG-18		Lab ID: 10160700015	Collected: 06/15/11 13:19	Received: 06/17/11 10:00	Matrix: Air				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
Benzene	ND	ug/m3	10.0	4.9	30.8		06/28/11 20:25	71-43-2	
Benzyl chloride	ND	ug/m3	32.3	16.2	30.8		06/28/11 20:25	100-44-7	
Bromodichloromethane	ND	ug/m3	43.1	21.6	30.8		06/28/11 20:25	75-27-4	
Bromoform	ND	ug/m3	64.7	32.3	30.8		06/28/11 20:25	75-25-2	
Bromomethane	ND	ug/m3	24.3	12.2	30.8		06/28/11 20:25	74-83-9	
1,3-Butadiene	ND	ug/m3	13.9	6.9	30.8		06/28/11 20:25	106-99-0	
2-Butanone (MEK)	ND	ug/m3	18.5	9.2	30.8		06/28/11 20:25	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	28.5	5.7	30.8		06/28/11 20:25	75-65-0	
Carbon tetrachloride	ND	ug/m3	19.7	9.9	30.8		06/28/11 20:25	56-23-5	
Chlorobenzene	ND	ug/m3	29.0	14.5	30.8		06/28/11 20:25	108-90-7	
Chloroethane	ND	ug/m3	16.6	8.3	30.8		06/28/11 20:25	75-00-3	
Chloroform	ND	ug/m3	30.5	15.2	30.8		06/28/11 20:25	67-66-3	
Chloromethane	ND	ug/m3	12.9	6.5	30.8		06/28/11 20:25	74-87-3	
Cyclohexane	ND	ug/m3	20.9	10.5	30.8		06/28/11 20:25	110-82-7	
Dibromochloromethane	ND	ug/m3	52.4	26.2	30.8		06/28/11 20:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	49.3	24.6	30.8		06/28/11 20:25	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	37.0	18.5	30.8		06/28/11 20:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	37.0	18.5	30.8		06/28/11 20:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	37.0	18.5	30.8		06/28/11 20:25	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	30.8	15.4	30.8		06/28/11 20:25	75-71-8	
1,1-Dichloroethane	ND	ug/m3	25.3	12.6	30.8		06/28/11 20:25	75-34-3	
1,2-Dichloroethane	ND	ug/m3	12.6	6.5	30.8		06/28/11 20:25	107-06-2	
1,1-Dichloroethene	ND	ug/m3	24.9	12.5	30.8		06/28/11 20:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	24.9	12.5	30.8		06/28/11 20:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	24.9	12.5	30.8		06/28/11 20:25	156-60-5	
1,2-Dichloropropane	ND	ug/m3	29.0	14.5	30.8		06/28/11 20:25	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	28.3	14.2	30.8		06/28/11 20:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	28.3	14.2	30.8		06/28/11 20:25	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	43.1	21.6	30.8		06/28/11 20:25	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	11.3	2.3	30.8		06/28/11 20:25	123-91-1	
Ethanol	93.1	ug/m3	58.5	26.2	30.8		06/28/11 20:25	64-17-5	
Ethylbenzene	ND	ug/m3	27.1	13.6	30.8		06/28/11 20:25	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	67.8	33.9	30.8		06/28/11 20:25	87-68-3	
n-Hexane	ND	ug/m3	22.2	11.1	30.8		06/28/11 20:25	110-54-3	
Methylene Chloride	ND	ug/m3	21.9	10.9	30.8		06/28/11 20:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	25.6	12.8	30.8		06/28/11 20:25	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	22.5	11.2	30.8		06/28/11 20:25	1634-04-4	
Styrene	ND	ug/m3	26.8	13.4	30.8		06/28/11 20:25	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	21.5	10.8	30.8		06/28/11 20:25	79-34-5	
Tetrachloroethene	2660	ug/m3	21.2	10.5	30.8		06/28/11 20:25	127-18-4	
Toluene	ND	ug/m3	23.7	11.9	30.8		06/28/11 20:25	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	30.5	15.2	30.8		06/28/11 20:25	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	33.9	16.9	30.8		06/28/11 20:25	71-55-6	
Trichloroethene	29.8	ug/m3	16.9	8.6	30.8		06/28/11 20:25	79-01-6	
Trichlorofluoromethane	ND	ug/m3	33.9	16.9	30.8		06/28/11 20:25	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	49.3	24.6	30.8		06/28/11 20:25	76-13-1	

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ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160700

Sample: SG-18		Lab ID: 10160700015		Collected: 06/15/11 13:19		Received: 06/17/11 10:00		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
1,2,4-Trimethylbenzene	31.3	ug/m3	30.8	15.4	30.8		06/28/11 20:25	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	30.8	15.4	30.8		06/28/11 20:25	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	29.3	14.6	30.8		06/28/11 20:25	540-84-1	
Vinyl chloride	ND	ug/m3	8.0	4.0	30.8		06/28/11 20:25	75-01-4	
m&p-Xylene	55.4	ug/m3	54.2	27.1	30.8		06/28/11 20:25	179601-23-1	
o-Xylene	ND	ug/m3	27.1	13.6	30.8		06/28/11 20:25	95-47-6	



ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160440

Sample: SG-19		Lab ID: 10160440004	Collected: 06/13/11 13:14	Received: 06/15/11 09:40	Matrix: Air				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
Benzene	85.8	ug/m3	0.48	0.24	1.48		06/24/11 16:33	71-43-2	
Benzyl chloride	ND	ug/m3	1.6	0.78	1.48		06/24/11 16:33	100-44-7	
Bromodichloromethane	ND	ug/m3	2.1	1.0	1.48		06/24/11 16:33	75-27-4	
Bromoform	ND	ug/m3	3.1	1.6	1.48		06/24/11 16:33	75-25-2	
Bromomethane	ND	ug/m3	1.2	0.58	1.48		06/24/11 16:33	74-83-9	
1,3-Butadiene	ND	ug/m3	0.67	0.33	1.48		06/24/11 16:33	106-99-0	
2-Butanone (MEK)	ND	ug/m3	0.89	0.44	1.48		06/24/11 16:33	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	1.4	0.27	1.48		06/24/11 16:33	75-65-0	
Carbon tetrachloride	2.9	ug/m3	0.95	0.47	1.48		06/24/11 16:33	56-23-5	
Chlorobenzene	ND	ug/m3	1.4	0.70	1.48		06/24/11 16:33	108-90-7	
Chloroethane	ND	ug/m3	0.80	0.40	1.48		06/24/11 16:33	75-00-3	
Chloroform	319	ug/m3	39.3	19.6	39.66		06/27/11 14:35	67-66-3	
Chloromethane	ND	ug/m3	0.62	0.31	1.48		06/24/11 16:33	74-87-3	
Cyclohexane	535	ug/m3	1.0	0.50	1.48		06/24/11 16:33	110-82-7	
Dibromochloromethane	ND	ug/m3	2.5	1.3	1.48		06/24/11 16:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.4	1.2	1.48		06/24/11 16:33	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.8	0.89	1.48		06/24/11 16:33	95-50-1	
1,3-Dichlorobenzene	7.9	ug/m3	1.8	0.89	1.48		06/24/11 16:33	541-73-1	
1,4-Dichlorobenzene	3.5	ug/m3	1.8	0.89	1.48		06/24/11 16:33	106-46-7	
Dichlorodifluoromethane	2.3	ug/m3	1.5	0.74	1.48		06/24/11 16:33	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.2	0.61	1.48		06/24/11 16:33	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.61	0.31	1.48		06/24/11 16:33	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	0.60	1.48		06/24/11 16:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	0.60	1.48		06/24/11 16:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	0.60	1.48		06/24/11 16:33	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.4	0.70	1.48		06/24/11 16:33	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.4	0.68	1.48		06/24/11 16:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.4	0.68	1.48		06/24/11 16:33	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.1	1.0	1.48		06/24/11 16:33	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	0.54	0.11	1.48		06/24/11 16:33	123-91-1	
Ethanol	114	ug/m3	2.8	1.3	1.48		06/24/11 16:33	64-17-5	
Ethylbenzene	62.7	ug/m3	1.3	0.65	1.48		06/24/11 16:33	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	3.3	1.6	1.48		06/24/11 16:33	87-68-3	
n-Hexane	50.8	ug/m3	28.6	14.3	39.66		06/27/11 14:35	110-54-3	
Methylene Chloride	ND	ug/m3	1.1	0.53	1.48		06/24/11 16:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.2	0.61	1.48		06/24/11 16:33	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.1	0.54	1.48		06/24/11 16:33	1634-04-4	
Styrene	ND	ug/m3	1.3	0.64	1.48		06/24/11 16:33	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.0	0.52	1.48		06/24/11 16:33	79-34-5	
Tetrachloroethene	1200	ug/m3	27.3	13.5	39.66		06/27/11 14:35	127-18-4	
Toluene	63.5	ug/m3	1.1	0.57	1.48		06/24/11 16:33	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1.5	0.73	1.48		06/24/11 16:33	120-82-1	
1,1,1-Trichloroethane	3.8	ug/m3	1.6	0.81	1.48		06/24/11 16:33	71-55-6	
Trichloroethene	ND	ug/m3	0.81	0.41	1.48		06/24/11 16:33	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.6	0.81	1.48		06/24/11 16:33	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.4	1.2	1.48		06/24/11 16:33	76-13-1	

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10160440

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ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160440

Sample: SG-19		Lab ID: 10160440004	Collected: 06/13/11 13:14	Received: 06/15/11 09:40	Matrix: Air				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
1,2,4-Trimethylbenzene	102	ug/m3	1.5	0.74	1.48		06/24/11 16:33	95-63-6	
1,3,5-Trimethylbenzene	24.2	ug/m3	1.5	0.74	1.48		06/24/11 16:33	108-67-8	
2,2,4-Trimethylpentane	399	ug/m3	1.4	0.70	1.48		06/24/11 16:33	540-84-1	P'S
Vinyl chloride	ND	ug/m3	0.38	0.19	1.48		06/24/11 16:33	75-01-4	
m&p-Xylene	146	ug/m3	2.6	1.3	1.48		06/24/11 16:33	179601-23-1	
o-Xylene	65.0	ug/m3	1.3	0.65	1.48		06/24/11 16:33	95-47-6	

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ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160440

Sample: SG-20		Lab ID: 10160440005	Collected: 06/13/11 13:25		Received: 06/15/11 09:40		Matrix: Air		
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
Benzene	2.1	ug/m3	0.93	0.46	2.86		06/28/11 11:08	71-43-2	
Benzyl chloride	ND	ug/m3	3.0	1.5	2.86		06/28/11 11:08	100-44-7	
Bromodichloromethane	ND	ug/m3	4.0	2.0	2.86		06/28/11 11:08	75-27-4	
Bromoform	ND	ug/m3	6.0	3.0	2.86		06/28/11 11:08	75-25-2	
Bromomethane	ND	ug/m3	2.3	1.1	2.86		06/28/11 11:08	74-83-9	
1,3-Butadiene	ND	ug/m3	1.3	0.64	2.86		06/28/11 11:08	106-99-0	
2-Butanone (MEK)	ND	ug/m3	1.7	0.86	2.86		06/28/11 11:08	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	2.6	0.53	2.86		06/28/11 11:08	75-65-0	
Carbon tetrachloride	ND	ug/m3	1.8	0.92	2.86		06/28/11 11:08	56-23-5	
Chlorobenzene	ND	ug/m3	2.7	1.3	2.86		06/28/11 11:08	108-90-7	
Chloroethane	ND	ug/m3	1.5	0.77	2.86		06/28/11 11:08	75-00-3	
Chloroform	54.2	ug/m3	2.8	1.4	2.86		06/28/11 11:08	67-66-3	
Chloromethane	ND	ug/m3	1.2	0.60	2.86		06/28/11 11:08	74-87-3	
Cyclohexane	8.6	ug/m3	1.9	0.97	2.86		06/28/11 11:08	110-82-7	
Dibromochloromethane	ND	ug/m3	4.9	2.4	2.86		06/28/11 11:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	4.6	2.3	2.86		06/28/11 11:08	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	3.4	1.7	2.86		06/28/11 11:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	3.4	1.7	2.86		06/28/11 11:08	541-73-1	
1,4-Dichlorobenzene	2.8J	ug/m3	3.4	1.7	2.86		06/28/11 11:08	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	2.9	1.4	2.86		06/28/11 11:08	75-71-8	
1,1-Dichloroethane	ND	ug/m3	2.3	1.2	2.86		06/28/11 11:08	75-34-3	
1,2-Dichloroethane	ND	ug/m3	1.2	0.60	2.86		06/28/11 11:08	107-06-2	
1,1-Dichloroethene	ND	ug/m3	2.3	1.2	2.86		06/28/11 11:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	2.3	1.2	2.86		06/28/11 11:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	2.3	1.2	2.86		06/28/11 11:08	156-60-5	
1,2-Dichloropropane	ND	ug/m3	2.7	1.3	2.86		06/28/11 11:08	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	2.6	1.3	2.86		06/28/11 11:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	2.6	1.3	2.86		06/28/11 11:08	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	4.0	2.0	2.86		06/28/11 11:08	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	1.0	0.21	2.86		06/28/11 11:08	123-91-1	
Ethanol	183	ug/m3	5.4	2.4	2.86		06/28/11 11:08	64-17-5	SE
Ethylbenzene	64.9	ug/m3	2.5	1.3	2.86		06/28/11 11:08	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	6.3	3.1	2.86		06/28/11 11:08	87-68-3	
n-Hexane	191	ug/m3	2.1	1.0	2.86		06/28/11 11:08	110-54-3	
Methylene Chloride	282	ug/m3	2.0	1.0	2.86		06/28/11 11:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	2.4	1.2	2.86		06/28/11 11:08	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	2.1	1.0	2.86		06/28/11 11:08	1634-04-4	
Styrene	ND	ug/m3	2.5	1.2	2.86		06/28/11 11:08	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	2.0	1.0	2.86		06/28/11 11:08	79-34-5	
Tetrachloroethene	83.1	ug/m3	2.0	0.97	2.86		06/28/11 11:08	127-18-4	
Toluene	159	ug/m3	2.2	1.1	2.86		06/28/11 11:08	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	2.8	1.4	2.86		06/28/11 11:08	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	3.1	1.6	2.86		06/28/11 11:08	71-55-6	
Trichloroethene	9.2	ug/m3	1.6	0.80	2.86		06/28/11 11:08	79-01-6	
Trichlorofluoromethane	ND	ug/m3	3.1	1.6	2.86		06/28/11 11:08	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	4.6	2.3	2.86		06/28/11 11:08	76-13-1	

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ANALYTICAL RESULTS

Project: Klink Cosmo site

Pace Project No.: 10160440

Sample: SG-20		Lab ID: 10160440005	Collected: 06/13/11 13:25	Received: 06/15/11 09:40	Matrix: Air				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
1,2,4-Trimethylbenzene	122	ug/m3	2.9	1.4	2.86		06/28/11 11:08	95-63-6	
1,3,5-Trimethylbenzene	29.1	ug/m3	2.9	1.4	2.86		06/28/11 11:08	108-67-8	
2,2,4-Trimethylpentane	21.9	ug/m3	2.7	1.4	2.86		06/28/11 11:08	540-84-1	
Vinyl chloride	ND	ug/m3	0.74	0.37	2.86		06/28/11 11:08	75-01-4	
m&p-Xylene	216	ug/m3	5.0	2.5	2.86		06/28/11 11:08	179601-23-1	
o-Xylene	101	ug/m3	2.5	1.3	2.86		06/28/11 11:08	95-47-6	



ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160440

Sample: **SG-21** Lab ID: **10160440006** Collected: 06/13/11 13:42 Received: 06/15/11 09:40 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	241	ug/m3	12.5	6.1	38.32		06/27/11 15:59	71-43-2	
Benzyl chloride	ND	ug/m3	1.5	0.75	1.43		06/24/11 17:31	100-44-7	
Bromodichloromethane	ND	ug/m3	2.0	1.0	1.43		06/24/11 17:31	75-27-4	
Bromoform	ND	ug/m3	3.0	1.5	1.43		06/24/11 17:31	75-25-2	
Bromomethane	ND	ug/m3	1.1	0.56	1.43		06/24/11 17:31	74-83-9	
1,3-Butadiene	ND	ug/m3	0.64	0.32	1.43		06/24/11 17:31	106-99-0	
2-Butanone (MEK)	9.9	ug/m3	0.86	0.43	1.43		06/24/11 17:31	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	1.3	0.26	1.43		06/24/11 17:31	75-65-0	
Carbon tetrachloride	ND	ug/m3	0.92	0.46	1.43		06/24/11 17:31	56-23-5	
Chlorobenzene	ND	ug/m3	1.3	0.67	1.43		06/24/11 17:31	108-90-7	
Chloroethane	ND	ug/m3	0.77	0.39	1.43		06/24/11 17:31	75-00-3	
Chloroform	25.6	ug/m3	1.4	0.71	1.43		06/24/11 17:31	67-66-3	
Chloromethane	ND	ug/m3	0.60	0.30	1.43		06/24/11 17:31	74-87-3	
Cyclohexane	2090	ug/m3	26.1	13.0	38.32		06/27/11 15:59	110-82-7	
Dibromochloromethane	ND	ug/m3	2.4	1.2	1.43		06/24/11 17:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.3	1.1	1.43		06/24/11 17:31	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.7	0.86	1.43		06/24/11 17:31	95-50-1	
1,3-Dichlorobenzene	4.4	ug/m3	1.7	0.86	1.43		06/24/11 17:31	541-73-1	
1,4-Dichlorobenzene	1.5J	ug/m3	1.7	0.86	1.43		06/24/11 17:31	106-46-7	
Dichlorodifluoromethane	1.2J	ug/m3	1.4	0.72	1.43		06/24/11 17:31	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.2	0.59	1.43		06/24/11 17:31	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.59	0.30	1.43		06/24/11 17:31	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	0.58	1.43		06/24/11 17:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	0.58	1.43		06/24/11 17:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	0.58	1.43		06/24/11 17:31	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.3	0.67	1.43		06/24/11 17:31	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.3	0.66	1.43		06/24/11 17:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.3	0.66	1.43		06/24/11 17:31	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.0	1.0	1.43		06/24/11 17:31	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	0.52	0.11	1.43		06/24/11 17:31	123-91-1	
Ethanol	89.4	ug/m3	2.7	1.2	1.43		06/24/11 17:31	64-17-5	SS
Ethylbenzene	38.7	ug/m3	1.3	0.63	1.43		06/24/11 17:31	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	3.1	1.6	1.43		06/24/11 17:31	87-68-3	
n-Hexane	1500	ug/m3	27.6	13.8	38.32		06/27/11 15:59	110-54-3	
Methylene Chloride	883	ug/m3	27.2	13.6	38.32		06/27/11 15:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.2	0.59	1.43		06/24/11 17:31	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.0	0.52	1.43		06/24/11 17:31	1634-04-4	
Styrene	2.4	ug/m3	1.2	0.62	1.43		06/24/11 17:31	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.0	0.50	1.43		06/24/11 17:31	79-34-5	
Tetrachloroethene	72.4	ug/m3	0.99	0.49	1.43		06/24/11 17:31	127-18-4	
Toluene	82.6	ug/m3	1.1	0.55	1.43		06/24/11 17:31	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1.4	0.71	1.43		06/24/11 17:31	120-82-1	
1,1,1-Trichloroethane	2.0	ug/m3	1.6	0.79	1.43		06/24/11 17:31	71-55-6	
Trichloroethene	ND	ug/m3	0.79	0.40	1.43		06/24/11 17:31	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.6	0.79	1.43		06/24/11 17:31	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.3	1.1	1.43		06/24/11 17:31	76-13-1	

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ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160440

Sample: SG-21		Lab ID: 10160440006		Collected: 06/13/11 13:42		Received: 06/15/11 09:40		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
1,2,4-Trimethylbenzene	15.9	ug/m3	1.4	0.72	1.43		06/24/11 17:31	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.4	0.72	1.43		06/24/11 17:31	108-67-8	
2,2,4-Trimethylpentane	400	ug/m3	1.4	0.68	1.43		06/24/11 17:31	540-84-1	ES
Vinyl chloride	ND	ug/m3	0.37	0.19	1.43		06/24/11 17:31	75-01-4	
m&p-Xylene	62.8	ug/m3	2.5	1.3	1.43		06/24/11 17:31	179601-23-1	
o-Xylene	17.7	ug/m3	1.3	0.63	1.43		06/24/11 17:31	95-47-6	

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ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160700

Sample: SG-42		Lab ID: 10160700001		Collected: 06/14/11 13:42		Received: 06/17/11 10:00		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
Benzene	ND	ug/m3	1230	606	3788.8		06/27/11 23:33	71-43-2	
Benzyl chloride	ND	ug/m3	3980	1990	3788.8		06/27/11 23:33	100-44-7	
Bromodichloromethane	ND	ug/m3	5300	2650	3788.8		06/27/11 23:33	75-27-4	
Bromoform	ND	ug/m3	7960	3980	3788.8		06/27/11 23:33	75-25-2	
Bromomethane	ND	ug/m3	2990	1500	3788.8		06/27/11 23:33	74-83-9	
1,3-Butadiene	ND	ug/m3	1700	852	3788.8		06/27/11 23:33	106-99-0	
2-Butanone (MEK)	ND	ug/m3	2270	1140	3788.8		06/27/11 23:33	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	3500	697	3788.8		06/27/11 23:33	75-65-0	
Carbon tetrachloride	ND	ug/m3	2420	1210	3788.8		06/27/11 23:33	56-23-5	
Chlorobenzene	ND	ug/m3	3560	1780	3788.8		06/27/11 23:33	108-90-7	
Chloroethane	ND	ug/m3	2050	1020	3788.8		06/27/11 23:33	75-00-3	
Chloroform	ND	ug/m3	3750	1880	3788.8		06/27/11 23:33	67-66-3	
Chloromethane	ND	ug/m3	1590	796	3788.8		06/27/11 23:33	74-87-3	
Cyclohexane	ND	ug/m3	2580	1290	3788.8		06/27/11 23:33	110-82-7	
Dibromochloromethane	ND	ug/m3	6440	3220	3788.8		06/27/11 23:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	6060	3030	3788.8		06/27/11 23:33	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	4550	2270	3788.8		06/27/11 23:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	4550	2270	3788.8		06/27/11 23:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	4550	2270	3788.8		06/27/11 23:33	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	3790	1890	3788.8		06/27/11 23:33	75-71-8	
1,1-Dichloroethane	ND	ug/m3	3110	1550	3788.8		06/27/11 23:33	75-34-3	
1,2-Dichloroethane	ND	ug/m3	1550	796	3788.8		06/27/11 23:33	107-06-2	
1,1-Dichloroethene	ND	ug/m3	3070	1530	3788.8		06/27/11 23:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	3070	1530	3788.8		06/27/11 23:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	3070	1530	3788.8		06/27/11 23:33	156-60-5	
1,2-Dichloropropane	ND	ug/m3	3560	1780	3788.8		06/27/11 23:33	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	3490	1740	3788.8		06/27/11 23:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	3490	1740	3788.8		06/27/11 23:33	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	5300	2650	3788.8		06/27/11 23:33	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	1390	280	3788.8		06/27/11 23:33	123-91-1	
Ethanol	ND	ug/m3	7200	3220	3788.8		06/27/11 23:33	64-17-5	
Ethylbenzene	ND	ug/m3	3330	1670	3788.8		06/27/11 23:33	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	8340	4170	3788.8		06/27/11 23:33	87-68-3	
n-Hexane	ND	ug/m3	2730	1360	3788.8		06/27/11 23:33	110-54-3	
Methylene Chloride	ND	ug/m3	2690	1350	3788.8		06/27/11 23:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	3140	1570	3788.8		06/27/11 23:33	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	2770	1380	3788.8		06/27/11 23:33	1634-04-4	
Styrene	ND	ug/m3	3300	1650	3788.8		06/27/11 23:33	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	2640	1330	3788.8		06/27/11 23:33	79-34-5	
Tetrachloroethene	803000	ug/m3	2610	1290	3788.8		06/27/11 23:33	127-18-4	
Toluene	ND	ug/m3	2920	1460	3788.8		06/27/11 23:33	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	3750	1880	3788.8		06/27/11 23:33	120-82-1	
1,1,1-Trichloroethane	16900	ug/m3	4170	2080	3788.8		06/27/11 23:33	71-55-6	
Trichloroethene	2850	ug/m3	2080	1060	3788.8		06/27/11 23:33	79-01-6	
Trichlorofluoromethane	ND	ug/m3	4170	2080	3788.8		06/27/11 23:33	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	6060	3030	3788.8		06/27/11 23:33	76-13-1	

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ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160700

Sample: SG-42		Lab ID: 10160700001		Collected: 06/14/11 13:42		Received: 06/17/11 10:00		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
1,2,4-Trimethylbenzene	ND	ug/m3	3790	1890	3788.8		06/27/11 23:33	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	3790	1890	3788.8		06/27/11 23:33	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	3600	1800	3788.8		06/27/11 23:33	540-84-1	
Vinyl chloride	ND	ug/m3	985	493	3788.8		06/27/11 23:33	75-01-4	
m&p-Xylene	ND	ug/m3	6670	3330	3788.8		06/27/11 23:33	179601-23-1	
o-Xylene	ND	ug/m3	3330	1670	3788.8		06/27/11 23:33	95-47-6	



ANALYTICAL RESULTS

Project: Klink Cosmo site

Pace Project No.: 10160700

Sample: **SG-43** Lab ID: **10160700014** Collected: 06/15/11 12:47 Received: 06/17/11 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	42.4	ug/m3	10.0	4.9	30.8		06/28/11 19:56	71-43-2	
Benzyl chloride	ND	ug/m3	32.3	16.2	30.8		06/28/11 19:56	100-44-7	
Bromodichloromethane	ND	ug/m3	43.1	21.6	30.8		06/28/11 19:56	75-27-4	
Bromoform	ND	ug/m3	64.7	32.3	30.8		06/28/11 19:56	75-25-2	
Bromomethane	ND	ug/m3	24.3	12.2	30.8		06/28/11 19:56	74-83-9	
1,3-Butadiene	ND	ug/m3	13.9	6.9	30.8		06/28/11 19:56	106-99-0	
2-Butanone (MEK)	ND	ug/m3	18.5	9.2	30.8		06/28/11 19:56	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	28.5	5.7	30.8		06/28/11 19:56	75-65-0	
Carbon tetrachloride	ND	ug/m3	19.7	9.9	30.8		06/28/11 19:56	56-23-5	
Chlorobenzene	ND	ug/m3	29.0	14.5	30.8		06/28/11 19:56	108-90-7	
Chloroethane	ND	ug/m3	16.6	8.3	30.8		06/28/11 19:56	75-00-3	
Chloroform	ND	ug/m3	30.5	15.2	30.8		06/28/11 19:56	67-66-3	
Chloromethane	ND	ug/m3	12.9	6.5	30.8		06/28/11 19:56	74-87-3	
Cyclohexane	16300	ug/m3	335	168	492.8		06/29/11 22:58	110-82-7	A3
Dibromochloromethane	ND	ug/m3	52.4	26.2	30.8		06/28/11 19:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	49.3	24.6	30.8		06/28/11 19:56	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	37.0	18.5	30.8		06/28/11 19:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	37.0	18.5	30.8		06/28/11 19:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	37.0	18.5	30.8		06/28/11 19:56	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	30.8	15.4	30.8		06/28/11 19:56	75-71-8	
1,1-Dichloroethane	ND	ug/m3	25.3	12.6	30.8		06/28/11 19:56	75-34-3	
1,2-Dichloroethane	ND	ug/m3	12.6	6.5	30.8		06/28/11 19:56	107-06-2	
1,1,1-Dichloroethane	ND	ug/m3	24.9	12.5	30.8		06/28/11 19:56	75-35-4	
cis-1,2-Dichloroethene	557	ug/m3	24.9	12.5	30.8		06/28/11 19:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	24.9	12.5	30.8		06/28/11 19:56	156-60-5	
1,2-Dichloropropane	ND	ug/m3	29.0	14.5	30.8		06/28/11 19:56	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	28.3	14.2	30.8		06/28/11 19:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	28.3	14.2	30.8		06/28/11 19:56	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	43.1	21.6	30.8		06/28/11 19:56	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	11.3	2.3	30.8		06/28/11 19:56	123-91-1	
Ethanol	116	ug/m3	58.5	26.2	30.8		06/28/11 19:56	64-17-5	
Ethylbenzene	ND	ug/m3	27.1	13.6	30.8		06/28/11 19:56	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	67.8	33.9	30.8		06/28/11 19:56	87-68-3	
n-Hexane	8000	ug/m3	355	177	492.8		06/29/11 22:58	110-54-3	A3
Methylene Chloride	ND	ug/m3	21.9	10.9	30.8		06/28/11 19:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	25.6	12.8	30.8		06/28/11 19:56	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	22.5	11.2	30.8		06/28/11 19:56	1634-04-4	
Styrene	ND	ug/m3	26.8	13.4	30.8		06/28/11 19:56	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	21.5	10.8	30.8		06/28/11 19:56	79-34-5	
Tetrachloroethene	48500	ug/m3	340	168	492.8		06/29/11 22:58	127-18-4	A3
Toluene	17.0J	ug/m3	23.7	11.9	30.8		06/28/11 19:56	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	30.5	15.2	30.8		06/28/11 19:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	33.9	16.9	30.8		06/28/11 19:56	71-55-6	
Trichloroethene	1170	ug/m3	16.9	8.6	30.8		06/28/11 19:56	79-01-6	
Trichlorofluoromethane	118	ug/m3	33.9	16.9	30.8		06/28/11 19:56	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	49.3	24.6	30.8		06/28/11 19:56	76-13-1	

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ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160700

Sample: SG-43		Lab ID: 10160700014		Collected: 06/15/11 12:47		Received: 06/17/11 10:00		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
1,2,4-Trimethylbenzene	ND	ug/m3	30.8	15.4	30.8		06/28/11 19:56	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	30.8	15.4	30.8		06/28/11 19:56	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	29.3	14.6	30.8		06/28/11 19:56	540-84-1	
Vinyl chloride	687	ug/m3	8.0	4.0	30.8		06/28/11 19:56	75-01-4	
m&p-Xylene	ND	ug/m3	54.2	27.1	30.8		06/28/11 19:56	179601-23-1	
o-Xylene	ND	ug/m3	27.1	13.6	30.8		06/28/11 19:56	95-47-6	



ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160700

Sample: SG-44		Lab ID: 10160700002		Collected: 06/14/11 13:51		Received: 06/17/11 10:00		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	ND	ug/m3	9.3	4.6	28.6		06/27/11 20:31	71-43-2	
Benzyl chloride	ND	ug/m3	30.0	15.0	28.6		06/27/11 20:31	100-44-7	
Bromodichloromethane	ND	ug/m3	40.0	20.0	28.6		06/27/11 20:31	75-27-4	
Bromoform	51.9J	ug/m3	60.1	30.0	28.6		06/27/11 20:31	75-25-2	
Bromomethane	ND	ug/m3	22.6	11.3	28.6		06/27/11 20:31	74-83-9	
1,3-Butadiene	ND	ug/m3	12.9	6.4	28.6		06/27/11 20:31	106-99-0	
2-Butanone (MEK)	ND	ug/m3	17.2	8.6	28.6		06/27/11 20:31	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	26.4	5.3	28.6		06/27/11 20:31	75-65-0	
Carbon tetrachloride	ND	ug/m3	18.3	9.2	28.6		06/27/11 20:31	56-23-5	
Chlorobenzene	ND	ug/m3	26.9	13.4	28.6		06/27/11 20:31	108-90-7	
Chloroethane	ND	ug/m3	15.4	7.7	28.6		06/27/11 20:31	75-00-3	
Chloroform	ND	ug/m3	28.3	14.2	28.6		06/27/11 20:31	67-66-3	
Chloromethane	ND	ug/m3	12.0	6.0	28.6		06/27/11 20:31	74-87-3	
Cyclohexane	ND	ug/m3	19.4	9.7	28.6		06/27/11 20:31	110-82-7	
Dibromochloromethane	ND	ug/m3	48.6	24.3	28.6		06/27/11 20:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	45.8	22.9	28.6		06/27/11 20:31	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	34.3	17.2	28.6		06/27/11 20:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	34.3	17.2	28.6		06/27/11 20:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	34.3	17.2	28.6		06/27/11 20:31	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	28.6	14.3	28.6		06/27/11 20:31	75-71-8	
1,1-Dichloroethane	ND	ug/m3	23.5	11.7	28.6		06/27/11 20:31	75-34-3	
1,2-Dichloroethane	ND	ug/m3	11.7	6.0	28.6		06/27/11 20:31	107-06-2	
1,1-Dichloroethene	ND	ug/m3	23.2	11.6	28.6		06/27/11 20:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	23.2	11.6	28.6		06/27/11 20:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	23.2	11.6	28.6		06/27/11 20:31	156-60-5	
1,2-Dichloropropane	ND	ug/m3	26.9	13.4	28.6		06/27/11 20:31	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	26.3	13.2	28.6		06/27/11 20:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	26.3	13.2	28.6		06/27/11 20:31	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	40.0	20.0	28.6		06/27/11 20:31	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	10.5	2.1	28.6		06/27/11 20:31	123-91-1	
Ethanol	62.0	ug/m3	54.3	24.3	28.6		06/27/11 20:31	64-17-5	
Ethylbenzene	ND	ug/m3	25.2	12.6	28.6		06/27/11 20:31	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	62.9	31.5	28.6		06/27/11 20:31	87-68-3	
n-Hexane	ND	ug/m3	20.6	10.3	28.6		06/27/11 20:31	110-54-3	
Methylene Chloride	ND	ug/m3	20.3	10.2	28.6		06/27/11 20:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	23.7	11.9	28.6		06/27/11 20:31	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	20.9	10.4	28.6		06/27/11 20:31	1634-04-4	
Styrene	13.0J	ug/m3	24.9	12.4	28.6		06/27/11 20:31	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	20.0	10.0	28.6		06/27/11 20:31	79-34-5	
Tetrachloroethene	1660	ug/m3	19.7	9.7	28.6		06/27/11 20:31	127-18-4	
Toluene	ND	ug/m3	22.0	11.0	28.6		06/27/11 20:31	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	28.3	14.2	28.6		06/27/11 20:31	120-82-1	
1,1,1-Trichloroethane	28.0J	ug/m3	31.5	15.7	28.6		06/27/11 20:31	71-55-6	
Trichloroethene	ND	ug/m3	15.7	8.0	28.6		06/27/11 20:31	79-01-6	
Trichlorofluoromethane	ND	ug/m3	31.5	15.7	28.6		06/27/11 20:31	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	45.8	22.9	28.6		06/27/11 20:31	76-13-1	

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ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160700

Sample: SG-44		Lab ID: 10160700002	Collected: 06/14/11 13:51	Received: 06/17/11 10:00	Matrix: Air				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
1,2,4-Trimethylbenzene	ND	ug/m3	28.6	14.3	28.6		06/27/11 20:31	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	28.6	14.3	28.6		06/27/11 20:31	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	27.2	13.6	28.6		06/27/11 20:31	540-84-1	
Vinyl chloride	ND	ug/m3	7.4	3.7	28.6		06/27/11 20:31	75-01-4	
m&p-Xylene	ND	ug/m3	50.3	25.2	28.6		06/27/11 20:31	179601-23-1	
o-Xylene	ND	ug/m3	25.2	12.6	28.6		06/27/11 20:31	95-47-6	



ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160700

Sample: SG-45		Lab ID: 10160700003		Collected: 06/14/11 14:01		Received: 06/17/11 10:00		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
Benzene	ND	ug/m3	331	163	1017.6		06/27/11 21:00	71-43-2	
Benzyl chloride	ND	ug/m3	1070	534	1017.6		06/27/11 21:00	100-44-7	
Bromodichloromethane	ND	ug/m3	1420	712	1017.6		06/27/11 21:00	75-27-4	
Bromoform	1830J	ug/m3	2140	1070	1017.6		06/27/11 21:00	75-25-2	
Bromomethane	ND	ug/m3	804	402	1017.6		06/27/11 21:00	74-83-9	
1,3-Butadiene	ND	ug/m3	458	229	1017.6		06/27/11 21:00	106-99-0	
2-Butanone (MEK)	ND	ug/m3	611	305	1017.6		06/27/11 21:00	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	940	187	1017.6		06/27/11 21:00	75-65-0	
Carbon tetrachloride	ND	ug/m3	651	326	1017.6		06/27/11 21:00	56-23-5	
Chlorobenzene	ND	ug/m3	957	478	1017.6		06/27/11 21:00	108-90-7	
Chloroethane	ND	ug/m3	550	275	1017.6		06/27/11 21:00	75-00-3	
Chloroform	ND	ug/m3	1010	504	1017.6		06/27/11 21:00	67-66-3	
Chloromethane	ND	ug/m3	427	214	1017.6		06/27/11 21:00	74-87-3	
Cyclohexane	ND	ug/m3	692	346	1017.6		06/27/11 21:00	110-82-7	
Dibromochloromethane	ND	ug/m3	1730	865	1017.6		06/27/11 21:00	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1630	814	1017.6		06/27/11 21:00	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1220	611	1017.6		06/27/11 21:00	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1220	611	1017.6		06/27/11 21:00	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1220	611	1017.6		06/27/11 21:00	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1020	509	1017.6		06/27/11 21:00	75-71-8	
1,1-Dichloroethane	ND	ug/m3	834	417	1017.6		06/27/11 21:00	75-34-3	
1,2-Dichloroethane	ND	ug/m3	417	214	1017.6		06/27/11 21:00	107-06-2	
1,1-Dichloroethene	ND	ug/m3	824	412	1017.6		06/27/11 21:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	824	412	1017.6		06/27/11 21:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	824	412	1017.6		06/27/11 21:00	156-60-5	
1,2-Dichloropropane	ND	ug/m3	957	478	1017.6		06/27/11 21:00	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	936	468	1017.6		06/27/11 21:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	936	468	1017.6		06/27/11 21:00	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	1420	712	1017.6		06/27/11 21:00	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	372	75.3	1017.6		06/27/11 21:00	123-91-1	
Ethanol	ND	ug/m3	1930	865	1017.6		06/27/11 21:00	64-17-5	
Ethylbenzene	ND	ug/m3	895	448	1017.6		06/27/11 21:00	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	2240	1120	1017.6		06/27/11 21:00	87-68-3	
n-Hexane	ND	ug/m3	733	366	1017.6		06/27/11 21:00	110-54-3	
Methylene Chloride	ND	ug/m3	722	361	1017.6		06/27/11 21:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	845	422	1017.6		06/27/11 21:00	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	743	371	1017.6		06/27/11 21:00	1634-04-4	
Styrene	ND	ug/m3	885	443	1017.6		06/27/11 21:00	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	710	356	1017.6		06/27/11 21:00	79-34-5	
Tetrachloroethene	22400	ug/m3	701	346	1017.6		06/27/11 21:00	127-18-4	
Toluene	ND	ug/m3	784	392	1017.6		06/27/11 21:00	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1010	504	1017.6		06/27/11 21:00	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1120	560	1017.6		06/27/11 21:00	71-55-6	
Trichloroethene	ND	ug/m3	560	285	1017.6		06/27/11 21:00	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1120	560	1017.6		06/27/11 21:00	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	1630	814	1017.6		06/27/11 21:00	76-13-1	

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ANALYTICAL RESULTS

Project: Klink Cosmo site

Pace Project No.: 10160700

Sample: SG-45		Lab ID: 10160700003		Collected: 06/14/11 14:01		Received: 06/17/11 10:00		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
1,2,4-Trimethylbenzene	ND	ug/m3	1020	509	1017.6		06/27/11 21:00	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1020	509	1017.6		06/27/11 21:00	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	967	483	1017.6		06/27/11 21:00	540-84-1	
Vinyl chloride	ND	ug/m3	265	132	1017.6		06/27/11 21:00	75-01-4	
m&p-Xylene	ND	ug/m3	1790	895	1017.6		06/27/11 21:00	179601-23-1	
o-Xylene	ND	ug/m3	895	448	1017.6		06/27/11 21:00	95-47-6	



ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160592

Sample: SG-46		Lab ID: 10160592011	Collected: 06/14/11 13:59	Received: 06/16/11 09:50	Matrix: Air				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
Benzene	ND	ug/m3	9.0	4.4	27.6		06/28/11 02:29	71-43-2	
Benzyl chloride	ND	ug/m3	29.0	14.5	27.6		06/28/11 02:29	100-44-7	
Bromodichloromethane	ND	ug/m3	38.6	19.3	27.6		06/28/11 02:29	75-27-4	
Bromoform	ND	ug/m3	58.0	29.0	27.6		06/28/11 02:29	75-25-2	
Bromomethane	ND	ug/m3	21.8	10.9	27.6		06/28/11 02:29	74-83-9	
1,3-Butadiene	ND	ug/m3	12.4	6.2	27.6		06/28/11 02:29	106-99-0	
2-Butanone (MEK)	ND	ug/m3	16.6	8.3	27.6		06/28/11 02:29	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	25.5	5.1	27.6		06/28/11 02:29	75-65-0	
Carbon tetrachloride	ND	ug/m3	17.7	8.8	27.6		06/28/11 02:29	56-23-5	
Chlorobenzene	ND	ug/m3	25.9	13.0	27.6		06/28/11 02:29	108-90-7	
Chloroethane	ND	ug/m3	14.9	7.5	27.6		06/28/11 02:29	75-00-3	
Chloroform	ND	ug/m3	27.3	13.7	27.6		06/28/11 02:29	67-66-3	
Chloromethane	ND	ug/m3	11.6	5.8	27.6		06/28/11 02:29	74-87-3	
Cyclohexane	ND	ug/m3	18.8	9.4	27.6		06/28/11 02:29	110-82-7	
Dibromochloromethane	ND	ug/m3	46.9	23.5	27.6		06/28/11 02:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	44.2	22.1	27.6		06/28/11 02:29	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	33.1	16.6	27.6		06/28/11 02:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	33.1	16.6	27.6		06/28/11 02:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	33.1	16.6	27.6		06/28/11 02:29	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	27.6	13.8	27.6		06/28/11 02:29	75-71-8	
1,1-Dichloroethane	42.0	ug/m3	22.6	11.3	27.6		06/28/11 02:29	75-34-3	
1,2-Dichloroethane	ND	ug/m3	11.3	5.8	27.6		06/28/11 02:29	107-06-2	
1,1-Dichloroethene	ND	ug/m3	22.4	11.2	27.6		06/28/11 02:29	75-35-4	
cis-1,2-Dichloroethene	17.7J	ug/m3	22.4	11.2	27.6		06/28/11 02:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	22.4	11.2	27.6		06/28/11 02:29	156-60-5	
1,2-Dichloropropane	ND	ug/m3	25.9	13.0	27.6		06/28/11 02:29	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	25.4	12.7	27.6		06/28/11 02:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	25.4	12.7	27.6		06/28/11 02:29	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	38.6	19.3	27.6		06/28/11 02:29	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	10.1	2.0	27.6		06/28/11 02:29	123-91-1	
Ethanol	ND	ug/m3	52.4	23.5	27.6		06/28/11 02:29	64-17-5	
Ethylbenzene	ND	ug/m3	24.3	12.1	27.6		06/28/11 02:29	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	60.7	30.4	27.6		06/28/11 02:29	87-68-3	
n-Hexane	ND	ug/m3	19.9	9.9	27.6		06/28/11 02:29	110-54-3	
Methylene Chloride	ND	ug/m3	19.6	9.8	27.6		06/28/11 02:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	22.9	11.5	27.6		06/28/11 02:29	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	20.1	10.1	27.6		06/28/11 02:29	1634-04-4	
Styrene	14.2J	ug/m3	24.0	12.0	27.6		06/28/11 02:29	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	19.3	9.7	27.6		06/28/11 02:29	79-34-5	
Tetrachloroethene	2040	ug/m3	19.0	9.4	27.6		06/28/11 02:29	127-18-4	
Toluene	17.4J	ug/m3	21.3	10.6	27.6		06/28/11 02:29	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	27.3	13.7	27.6		06/28/11 02:29	120-82-1	
1,1,1-Trichloroethane	109	ug/m3	30.4	15.2	27.6		06/28/11 02:29	71-55-6	
Trichloroethene	376	ug/m3	15.2	7.7	27.6		06/28/11 02:29	79-01-6	
Trichlorofluoromethane	ND	ug/m3	30.4	15.2	27.6		06/28/11 02:29	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	44.2	22.1	27.6		06/28/11 02:29	76-13-1	

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ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160592

Sample: SG-46		Lab ID: 10160592011	Collected: 06/14/11 13:59		Received: 06/16/11 09:50		Matrix: Air		
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
1,2,4-Trimethylbenzene	ND	ug/m3	27.6	13.8	27.6		06/28/11 02:29	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	27.6	13.8	27.6		06/28/11 02:29	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	26.2	13.1	27.6		06/28/11 02:29	540-84-1	
Vinyl chloride	ND	ug/m3	7.2	3.6	27.6		06/28/11 02:29	75-01-4	
m&p-Xylene	ND	ug/m3	48.6	24.3	27.6		06/28/11 02:29	179601-23-1	
o-Xylene	ND	ug/m3	24.3	12.1	27.6		06/28/11 02:29	95-47-6	

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ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160592

Sample: DUP2-061411		Lab ID: 10160592012		Collected: 06/14/11 13:59		Received: 06/16/11 09:50		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	ND	ug/m3	8.7	4.3	26.8		06/28/11 02:56	71-43-2	
Benzyl chloride	ND	ug/m3	28.1	14.1	26.8		06/28/11 02:56	100-44-7	
Bromodichloromethane	ND	ug/m3	37.5	18.8	26.8		06/28/11 02:56	75-27-4	
Bromoform	54.5J	ug/m3	56.3	28.1	26.8		06/28/11 02:56	75-25-2	
Bromomethane	ND	ug/m3	21.2	10.6	26.8		06/28/11 02:56	74-83-9	
1,3-Butadiene	ND	ug/m3	12.1	6.0	26.8		06/28/11 02:56	106-99-0	
2-Butanone (MEK)	ND	ug/m3	16.1	8.0	26.8		06/28/11 02:56	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	24.8	4.9	26.8		06/28/11 02:56	75-65-0	
Carbon tetrachloride	ND	ug/m3	17.2	8.6	26.8		06/28/11 02:56	56-23-5	
Chlorobenzene	ND	ug/m3	25.2	12.6	26.8		06/28/11 02:56	108-90-7	
Chloroethane	ND	ug/m3	14.5	7.2	26.8		06/28/11 02:56	75-00-3	
Chloroform	ND	ug/m3	26.5	13.3	26.8		06/28/11 02:56	67-66-3	
Chloromethane	ND	ug/m3	11.3	5.6	26.8		06/28/11 02:56	74-87-3	
Cyclohexane	ND	ug/m3	18.2	9.1	26.8		06/28/11 02:56	110-82-7	
Dibromochloromethane	25.4J	ug/m3	45.6	22.8	26.8		06/28/11 02:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	42.9	21.4	26.8		06/28/11 02:56	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	32.2	16.1	26.8		06/28/11 02:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	32.2	16.1	26.8		06/28/11 02:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	32.2	16.1	26.8		06/28/11 02:56	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	26.8	13.4	26.8		06/28/11 02:56	75-71-8	
1,1-Dichloroethane	12.8J	ug/m3	22.0	11.0	26.8		06/28/11 02:56	75-34-3	
1,2-Dichloroethane	ND	ug/m3	11.0	5.6	26.8		06/28/11 02:56	107-06-2	
1,1-Dichloroethene	ND	ug/m3	21.7	10.9	26.8		06/28/11 02:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	21.7	10.9	26.8		06/28/11 02:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	21.7	10.9	26.8		06/28/11 02:56	156-60-5	
1,2-Dichloropropane	ND	ug/m3	25.2	12.6	26.8		06/28/11 02:56	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	24.7	12.3	26.8		06/28/11 02:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	24.7	12.3	26.8		06/28/11 02:56	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	37.5	18.8	26.8		06/28/11 02:56	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	9.8	2.0	26.8		06/28/11 02:56	123-91-1	
Ethanol	58.7	ug/m3	50.9	22.8	26.8		06/28/11 02:56	64-17-5	
Ethylbenzene	ND	ug/m3	23.6	11.8	26.8		06/28/11 02:56	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	59.0	29.5	26.8		06/28/11 02:56	87-68-3	
n-Hexane	30.0	ug/m3	19.3	9.6	26.8		06/28/11 02:56	110-54-3	
Methylene Chloride	199	ug/m3	19.0	9.5	26.8		06/28/11 02:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	22.2	11.1	26.8		06/28/11 02:56	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	19.6	9.8	26.8		06/28/11 02:56	1634-04-4	
Styrene	16.8J	ug/m3	23.3	11.7	26.8		06/28/11 02:56	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	18.7	9.4	26.8		06/28/11 02:56	79-34-5	
Tetrachloroethene	805	ug/m3	18.5	9.1	26.8		06/28/11 02:56	127-18-4	
Toluene	33.4	ug/m3	20.6	10.3	26.8		06/28/11 02:56	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	26.5	13.3	26.8		06/28/11 02:56	120-82-1	
1,1,1-Trichloroethane	53.7	ug/m3	29.5	14.7	26.8		06/28/11 02:56	71-55-6	
Trichloroethene	158	ug/m3	14.7	7.5	26.8		06/28/11 02:56	79-01-6	
Trichlorofluoromethane	ND	ug/m3	29.5	14.7	26.8		06/28/11 02:56	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	42.9	21.4	26.8		06/28/11 02:56	76-13-1	

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ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160592

Sample: DUP2-061411		Lab ID: 10160592012		Collected: 06/14/11 13:59		Received: 06/16/11 09:50		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
1,2,4-Trimethylbenzene	ND	ug/m3	26.8	13.4	26.8		06/28/11 02:56	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	26.8	13.4	26.8		06/28/11 02:56	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	25.5	12.7	26.8		06/28/11 02:56	540-84-1	
Vinyl chloride	ND	ug/m3	7.0	3.5	26.8		06/28/11 02:56	75-01-4	
m&p-Xylene	ND	ug/m3	47.2	23.6	26.8		06/28/11 02:56	179601-23-1	
o-Xylene	ND	ug/m3	23.6	11.8	26.8		06/28/11 02:56	95-47-6	



ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160700

Sample: **SG-47** Lab ID: **10160700016** Collected: 06/15/11 13:26 Received: 06/17/11 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
Benzene	ND	ug/m3	2.2	1.1	6.89		06/29/11 17:08	71-43-2	
Benzyl chloride	ND	ug/m3	7.2	3.6	6.89		06/29/11 17:08	100-44-7	
Bromodichloromethane	ND	ug/m3	9.6	4.8	6.89		06/29/11 17:08	75-27-4	
Bromoform	ND	ug/m3	14.5	7.2	6.89		06/29/11 17:08	75-25-2	
Bromomethane	ND	ug/m3	5.4	2.7	6.89		06/29/11 17:08	74-83-9	
1,3-Butadiene	ND	ug/m3	3.1	1.6	6.89		06/29/11 17:08	106-99-0	
2-Butanone (MEK)	23.2	ug/m3	4.1	2.1	6.89		06/29/11 17:08	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	6.4	1.3	6.89		06/29/11 17:08	75-85-0	
Carbon tetrachloride	6.1	ug/m3	4.4	2.2	6.89		06/29/11 17:08	56-23-5	
Chlorobenzene	ND	ug/m3	6.5	3.2	6.89		06/29/11 17:08	108-90-7	
Chloroethane	ND	ug/m3	3.7	1.9	6.89		06/29/11 17:08	75-00-3	
Chloroform	19.3	ug/m3	6.8	3.4	6.89		06/29/11 17:08	67-66-3	
Chloromethane	ND	ug/m3	2.9	1.4	6.89		06/29/11 17:08	74-87-3	
Cyclohexane	54.5	ug/m3	4.7	2.3	6.89		06/29/11 17:08	110-82-7	
Dibromochloromethane	ND	ug/m3	11.7	5.9	6.89		06/29/11 17:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	11.0	5.5	6.89		06/29/11 17:08	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	8.3	4.1	6.89		06/29/11 17:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	8.3	4.1	6.89		06/29/11 17:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	8.3	4.1	6.89		06/29/11 17:08	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	6.9	3.4	6.89		06/29/11 17:08	75-71-8	
1,1-Dichloroethane	ND	ug/m3	5.6	2.8	6.89		06/29/11 17:08	75-34-3	
1,2-Dichloroethane	ND	ug/m3	2.8	1.4	6.89		06/29/11 17:08	107-06-2	
1,1-Dichloroethene	ND	ug/m3	5.6	2.8	6.89		06/29/11 17:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	5.6	2.8	6.89		06/29/11 17:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	5.6	2.8	6.89		06/29/11 17:08	156-60-5	
1,2-Dichloropropane	ND	ug/m3	6.5	3.2	6.89		06/29/11 17:08	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	6.3	3.2	6.89		06/29/11 17:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	6.3	3.2	6.89		06/29/11 17:08	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	9.6	4.8	6.89		06/29/11 17:08	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	2.5	0.51	6.89		06/29/11 17:08	123-91-1	
Ethanol	63.7	ug/m3	13.1	5.9	6.89		06/29/11 17:08	64-17-5	
Ethylbenzene	ND	ug/m3	6.1	3.0	6.89		06/29/11 17:08	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	15.2	7.6	6.89		06/29/11 17:08	87-68-3	
n-Hexane	90.6	ug/m3	5.0	2.5	6.89		06/29/11 17:08	110-54-3	
Methylene Chloride	304	ug/m3	4.9	2.4	6.89		06/29/11 17:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	5.7	2.9	6.89		06/29/11 17:08	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.0	2.5	6.89		06/29/11 17:08	1634-04-4	
Styrene	ND	ug/m3	6.0	3.0	6.89		06/29/11 17:08	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	4.8	2.4	6.89		06/29/11 17:08	79-34-5	
Tetrachloroethene	661	ug/m3	4.7	2.3	6.89		06/29/11 17:08	127-18-4	
Toluene	150	ug/m3	5.3	2.7	6.89		06/29/11 17:08	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	6.8	3.4	6.89		06/29/11 17:08	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	7.6	3.8	6.89		06/29/11 17:08	71-55-6	
Trichloroethene	109	ug/m3	3.8	1.9	6.89		06/29/11 17:08	79-01-6	
Trichlorofluoromethane	ND	ug/m3	7.6	3.8	6.89		06/29/11 17:08	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	11.0	5.5	6.89		06/29/11 17:08	76-13-1	

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ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160700

Sample: SG-47		Lab ID: 10160700016		Collected: 06/15/11 13:26		Received: 06/17/11 10:00		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
1,2,4-Trimethylbenzene	9.7	ug/m3	6.9	3.4	6.89		06/29/11 17:08	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	6.9	3.4	6.89		06/29/11 17:08	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	6.5	3.3	6.89		06/29/11 17:08	540-84-1	
Vinyl chloride	ND	ug/m3	1.8	0.90	6.89		06/29/11 17:08	75-01-4	
m&p-Xylene	30.3	ug/m3	12.1	6.1	6.89		06/29/11 17:08	179601-23-1	
o-Xylene	5.0J	ug/m3	6.1	3.0	6.89		06/29/11 17:08	95-47-6	



ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160592

Sample: SG-48		Lab ID: 10160592009		Collected: 06/14/11 11:41		Received: 06/16/11 09:50		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
Benzene	ND	ug/m3	16.7	8.2	51.4		06/28/11 08:40	71-43-2	
Benzyl chloride	ND	ug/m3	54.0	27.0	51.4		06/28/11 08:40	100-44-7	
Bromodichloromethane	ND	ug/m3	72.0	36.0	51.4		06/28/11 08:40	75-27-4	
Bromoform	ND	ug/m3	108	54.0	51.4		06/28/11 08:40	75-25-2	
Bromomethane	ND	ug/m3	40.6	20.3	51.4		06/28/11 08:40	74-83-9	
1,3-Butadiene	ND	ug/m3	23.1	11.6	51.4		06/28/11 08:40	106-99-0	
2-Butanone (MEK)	ND	ug/m3	30.8	15.4	51.4		06/28/11 08:40	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	47.5	9.5	51.4		06/28/11 08:40	75-65-0	
Carbon tetrachloride	ND	ug/m3	32.9	16.4	51.4		06/28/11 08:40	56-23-5	
Chlorobenzene	ND	ug/m3	48.3	24.2	51.4		06/28/11 08:40	108-90-7	
Chloroethane	ND	ug/m3	27.8	13.9	51.4		06/28/11 08:40	75-00-3	
Chloroform	ND	ug/m3	50.9	25.4	51.4		06/28/11 08:40	67-66-3	
Chloromethane	ND	ug/m3	21.6	10.8	51.4		06/28/11 08:40	74-87-3	
Cyclohexane	ND	ug/m3	35.0	17.5	51.4		06/28/11 08:40	110-82-7	
Dibromochloromethane	ND	ug/m3	87.4	43.7	51.4		06/28/11 08:40	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	82.2	41.1	51.4		06/28/11 08:40	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	61.7	30.8	51.4		06/28/11 08:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	61.7	30.8	51.4		06/28/11 08:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	61.7	30.8	51.4		06/28/11 08:40	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	51.4	25.7	51.4		06/28/11 08:40	75-71-8	
1,1-Dichloroethane	ND	ug/m3	42.1	21.1	51.4		06/28/11 08:40	75-34-3	
1,2-Dichloroethane	ND	ug/m3	21.1	10.8	51.4		06/28/11 08:40	107-06-2	
1,1-Dichloroethene	ND	ug/m3	41.6	20.8	51.4		06/28/11 08:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	41.6	20.8	51.4		06/28/11 08:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	41.6	20.8	51.4		06/28/11 08:40	156-60-5	
1,2-Dichloropropane	ND	ug/m3	48.3	24.2	51.4		06/28/11 08:40	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	47.3	23.6	51.4		06/28/11 08:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	47.3	23.6	51.4		06/28/11 08:40	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	72.0	36.0	51.4		06/28/11 08:40	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	18.8	3.8	51.4		06/28/11 08:40	123-91-1	
Ethanol	105	ug/m3	97.7	43.7	51.4		06/28/11 08:40	64-17-5	
Ethylbenzene	ND	ug/m3	45.2	22.6	51.4		06/28/11 08:40	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	113	56.5	51.4		06/28/11 08:40	87-68-3	
n-Hexane	ND	ug/m3	37.0	18.5	51.4		06/28/11 08:40	110-54-3	
Methylene Chloride	ND	ug/m3	36.5	18.2	51.4		06/28/11 08:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	42.7	21.3	51.4		06/28/11 08:40	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	37.5	18.8	51.4		06/28/11 08:40	1634-04-4	
Styrene	ND	ug/m3	44.7	22.4	51.4		06/28/11 08:40	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	35.9	18.0	51.4		06/28/11 08:40	79-34-5	
Tetrachloroethene	3340	ug/m3	35.4	17.5	51.4		06/28/11 08:40	127-18-4	
Toluene	ND	ug/m3	39.6	19.8	51.4		06/28/11 08:40	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	50.9	25.4	51.4		06/28/11 08:40	120-82-1	
1,1,1-Trichloroethane	56.5J	ug/m3	56.5	28.3	51.4		06/28/11 08:40	71-55-6	
Trichloroethene	ND	ug/m3	28.3	14.4	51.4		06/28/11 08:40	79-01-6	
Trichlorofluoromethane	ND	ug/m3	56.5	28.3	51.4		06/28/11 08:40	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	82.2	41.1	51.4		06/28/11 08:40	76-13-1	

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ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160592

Sample: SG-48		Lab ID: 10160592009	Collected: 06/14/11 11:41	Received: 06/16/11 09:50	Matrix: Air				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
1,2,4-Trimethylbenzene	ND	ug/m3	51.3	25.7	51.4		06/28/11 08:40	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	51.3	25.7	51.4		06/28/11 08:40	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	48.8	24.4	51.4		06/28/11 08:40	540-84-1	
Vinyl chloride	ND	ug/m3	13.4	6.7	51.4		06/28/11 08:40	75-01-4	
m&p-Xylene	ND	ug/m3	90.5	45.2	51.4		06/28/11 08:40	179601-23-1	
o-Xylene	ND	ug/m3	45.2	22.6	51.4		06/28/11 08:40	95-47-6	



ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160592

Sample: SG-49		Lab ID: 10160592008	Collected: 06/14/11 11:33	Received: 06/16/11 09:50	Matrix: Air				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
Benzene	48.0	ug/m3	9.6	4.7	29.6		06/28/11 06:22	71-43-2	
Benzyl chloride	ND	ug/m3	31.1	15.5	29.6		06/28/11 06:22	100-44-7	
Bromodichloromethane	ND	ug/m3	41.4	20.7	29.6		06/28/11 06:22	75-27-4	
Bromoform	ND	ug/m3	62.2	31.1	29.6		06/28/11 06:22	75-25-2	
Bromomethane	ND	ug/m3	23.4	11.7	29.6		06/28/11 06:22	74-83-9	
1,3-Butadiene	ND	ug/m3	13.3	6.7	29.6		06/28/11 06:22	106-99-0	
2-Butanone (MEK)	ND	ug/m3	17.8	8.9	29.6		06/28/11 06:22	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	27.4	5.4	29.6		06/28/11 06:22	75-65-0	
Carbon tetrachloride	2430	ug/m3	18.9	9.5	29.6		06/28/11 06:22	56-23-5	
Chlorobenzene	ND	ug/m3	27.8	13.9	29.6		06/28/11 06:22	108-90-7	
Chloroethane	ND	ug/m3	16.0	8.0	29.6		06/28/11 06:22	75-00-3	
Chloroform	793	ug/m3	29.3	14.7	29.6		06/28/11 06:22	67-66-3	
Chloromethane	ND	ug/m3	12.4	6.2	29.6		06/28/11 06:22	74-87-3	
Cyclohexane	ND	ug/m3	20.1	10.1	29.6		06/28/11 06:22	110-82-7	
Dibromochloromethane	ND	ug/m3	50.3	25.2	29.6		06/28/11 06:22	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	47.4	23.7	29.6		06/28/11 06:22	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	35.5	17.8	29.6		06/28/11 06:22	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	35.5	17.8	29.6		06/28/11 06:22	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	35.5	17.8	29.6		06/28/11 06:22	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	29.6	14.8	29.6		06/28/11 06:22	75-71-8	
1,1-Dichloroethane	ND	ug/m3	24.3	12.1	29.6		06/28/11 06:22	75-34-3	
1,2-Dichloroethane	ND	ug/m3	12.1	6.2	29.6		06/28/11 06:22	107-06-2	
1,1-Dichloroethene	189	ug/m3	24.0	12.0	29.6		06/28/11 06:22	75-35-4	
cis-1,2-Dichloroethene	437000	ug/m3	6140	3070	7577.6		06/28/11 13:25	156-59-2	A3
trans-1,2-Dichloroethene	1420	ug/m3	24.0	12.0	29.6		06/28/11 06:22	156-60-5	
1,2-Dichloropropane	ND	ug/m3	27.8	13.9	29.6		06/28/11 06:22	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	27.2	13.6	29.6		06/28/11 06:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	27.2	13.6	29.6		06/28/11 06:22	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	41.4	20.7	29.6		06/28/11 06:22	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	10.8	2.2	29.6		06/28/11 06:22	123-91-1	
Ethanol	94.3	ug/m3	56.2	25.2	29.6		06/28/11 06:22	64-17-5	
Ethylbenzene	ND	ug/m3	26.0	13.0	29.6		06/28/11 06:22	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	65.1	32.6	29.6		06/28/11 06:22	87-68-3	
n-Hexane	ND	ug/m3	21.3	10.7	29.6		06/28/11 06:22	110-54-3	
Methylene Chloride	ND	ug/m3	21.0	10.5	29.6		06/28/11 06:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	24.6	12.3	29.6		06/28/11 06:22	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	21.6	10.8	29.6		06/28/11 06:22	1634-04-4	
Styrene	ND	ug/m3	25.8	12.9	29.6		06/28/11 06:22	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	20.7	10.4	29.6		06/28/11 06:22	79-34-5	
Tetrachloroethene	13100000	ug/m3	5220	2580	7577.6		06/28/11 13:25	127-18-4	A3, C0, E, IS
Toluene	11.7J	ug/m3	22.8	11.4	29.6		06/28/11 06:22	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	29.3	14.7	29.6		06/28/11 06:22	120-82-1	
1,1,1-Trichloroethane	344	ug/m3	32.6	16.3	29.6		06/28/11 06:22	71-55-6	
Trichloroethene	230000	ug/m3	4170	2120	7577.6		06/28/11 13:25	79-01-6	A3
Trichlorofluoromethane	ND	ug/m3	32.6	16.3	29.6		06/28/11 06:22	75-69-4	

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ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160592

Sample: SG-49		Lab ID: 10160592008	Collected: 06/14/11 11:33		Received: 06/16/11 09:50		Matrix: Air		
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
1,1,2-Trichlorotrifluoroethane	1520	ug/m3	47.4	23.7	29.6		06/28/11 06:22	76-13-1	
1,2,4-Trimethylbenzene	17.1J	ug/m3	29.6	14.8	29.6		06/28/11 06:22	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	29.6	14.8	29.6		06/28/11 06:22	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	28.1	14.1	29.6		06/28/11 06:22	540-84-1	
Vinyl chloride	1450	ug/m3	7.7	3.8	29.6		06/28/11 06:22	75-01-4	
m&p-Xylene	59.6	ug/m3	52.1	26.0	29.6		06/28/11 06:22	179601-23-1	
o-Xylene	ND	ug/m3	26.0	13.0	29.6		06/28/11 06:22	95-47-6	



ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160440

Sample: SG-55		Lab ID: 10160440001	Collected: 06/13/11 11:15		Received: 06/15/11 09:40		Matrix: Air		
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
Benzene	51.0	ug/m3	0.46	0.23	1.43		06/24/11 14:37	71-43-2	
Benzyl chloride	ND	ug/m3	1.5	0.75	1.43		06/24/11 14:37	100-44-7	
Bromodichloromethane	ND	ug/m3	2.0	1.0	1.43		06/24/11 14:37	75-27-4	
Bromoform	ND	ug/m3	3.0	1.5	1.43		06/24/11 14:37	75-25-2	
Bromomethane	ND	ug/m3	1.1	0.56	1.43		06/24/11 14:37	74-83-9	
1,3-Butadiene	ND	ug/m3	0.64	0.32	1.43		06/24/11 14:37	106-99-0	
2-Butanone (MEK)	20.4	ug/m3	0.86	0.43	1.43		06/24/11 14:37	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	1.3	0.26	1.43		06/24/11 14:37	75-65-0	
Carbon tetrachloride	ND	ug/m3	0.92	0.46	1.43		06/24/11 14:37	56-23-5	
Chlorobenzene	ND	ug/m3	1.3	0.67	1.43		06/24/11 14:37	108-90-7	
Chloroethane	ND	ug/m3	0.77	0.39	1.43		06/24/11 14:37	75-00-3	
Chloroform	ND	ug/m3	1.4	0.71	1.43		06/24/11 14:37	67-66-3	
Chloromethane	ND	ug/m3	0.60	0.30	1.43		06/24/11 14:37	74-87-3	
Cyclohexane	53.9	ug/m3	9.7	4.9	14.3		06/25/11 22:55	110-82-7	
Dibromochloromethane	ND	ug/m3	2.4	1.2	1.43		06/24/11 14:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.3	1.1	1.43		06/24/11 14:37	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.7	0.86	1.43		06/24/11 14:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.7	0.86	1.43		06/24/11 14:37	541-73-1	
1,4-Dichlorobenzene	3.5	ug/m3	1.7	0.86	1.43		06/24/11 14:37	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.4	0.72	1.43		06/24/11 14:37	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.2	0.59	1.43		06/24/11 14:37	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.59	0.30	1.43		06/24/11 14:37	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	0.58	1.43		06/24/11 14:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	0.58	1.43		06/24/11 14:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	0.58	1.43		06/24/11 14:37	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.3	0.67	1.43		06/24/11 14:37	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.3	0.66	1.43		06/24/11 14:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.3	0.66	1.43		06/24/11 14:37	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.0	1.0	1.43		06/24/11 14:37	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	0.52	0.11	1.43		06/24/11 14:37	123-91-1	
Ethanol	476	ug/m3	27.2	12.2	14.3		06/25/11 22:55	64-17-5	
Ethylbenzene	89.3	ug/m3	1.3	0.63	1.43		06/24/11 14:37	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	3.1	1.6	1.43		06/24/11 14:37	87-68-3	
n-Hexane	16.6	ug/m3	10.3	5.1	14.3		06/25/11 22:55	110-54-3	
Methylene Chloride	8.5	ug/m3	1.0	0.51	1.43		06/24/11 14:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	24.9	ug/m3	1.2	0.59	1.43		06/24/11 14:37	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.0	0.52	1.43		06/24/11 14:37	1634-04-4	
Styrene	3.5	ug/m3	1.2	0.62	1.43		06/24/11 14:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/m3	1.0	0.50	1.43		06/24/11 14:37	79-34-5	
Tetrachloroethene	584	ug/m3	9.9	4.9	14.3		06/25/11 22:55	127-18-4	
Toluene	453	ug/m3	11.0	5.5	14.3		06/25/11 22:55	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1.4	0.71	1.43		06/24/11 14:37	120-82-1	
1,1,1-Trichloroethane	4.0	ug/m3	1.6	0.79	1.43		06/24/11 14:37	71-55-6	
Trichloroethene	105	ug/m3	0.79	0.40	1.43		06/24/11 14:37	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.6	0.79	1.43		06/24/11 14:37	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.3	1.1	1.43		06/24/11 14:37	76-13-1	

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ANALYTICAL RESULTS

Project: Klink Cosmo site

Pace Project No.: 10160440

Sample: SG-55		Lab ID: 10160440001	Collected: 06/13/11 11:15	Received: 06/15/11 09:40	Matrix: Air				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
1,2,4-Trimethylbenzene	57.3	ug/m3	1.4	0.72	1.43		06/24/11 14:37	95-63-6	
1,3,5-Trimethylbenzene	16.2	ug/m3	1.4	0.72	1.43		06/24/11 14:37	108-67-8	
2,2,4-Trimethylpentane	45.8	ug/m3	13.6	6.8	14.3		06/25/11 22:55	540-84-1	
Vinyl chloride	ND	ug/m3	0.37	0.19	1.43		06/24/11 14:37	75-01-4	
m&p-Xylene	246	ug/m3	2.5	1.3	1.43		06/24/11 14:37	179601-23-1	
o-Xylene	92.7	ug/m3	1.3	0.63	1.43		06/24/11 14:37	95-47-6	

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ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160700

Sample: SG-56		Lab ID: 10160700017		Collected: 06/15/11 13:34		Received: 06/17/11 10:00		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	ND	ug/m3	15.7	7.7	48.4		06/28/11 21:23	71-43-2	
Benzyl chloride	ND	ug/m3	50.8	25.4	48.4		06/28/11 21:23	100-44-7	
Bromodichloromethane	ND	ug/m3	67.8	33.9	48.4		06/28/11 21:23	75-27-4	
Bromoform	ND	ug/m3	102	50.8	48.4		06/28/11 21:23	75-25-2	
Bromomethane	ND	ug/m3	38.2	19.1	48.4		06/28/11 21:23	74-83-9	
1,3-Butadiene	ND	ug/m3	21.8	10.9	48.4		06/28/11 21:23	106-99-0	
2-Butanone (MEK)	65.5	ug/m3	29.0	14.5	48.4		06/28/11 21:23	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	44.7	8.9	48.4		06/28/11 21:23	75-65-0	
Carbon tetrachloride	ND	ug/m3	31.0	15.5	48.4		06/28/11 21:23	56-23-5	
Chlorobenzene	ND	ug/m3	45.5	22.7	48.4		06/28/11 21:23	108-90-7	
Chloroethane	ND	ug/m3	26.1	13.1	48.4		06/28/11 21:23	75-00-3	
Chloroform	ND	ug/m3	47.9	24.0	48.4		06/28/11 21:23	67-66-3	
Chloromethane	ND	ug/m3	20.3	10.2	48.4		06/28/11 21:23	74-87-3	
Cyclohexane	ND	ug/m3	32.9	16.5	48.4		06/28/11 21:23	110-82-7	
Dibromochloromethane	ND	ug/m3	82.3	41.1	48.4		06/28/11 21:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	77.4	38.7	48.4		06/28/11 21:23	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	58.1	29.0	48.4		06/28/11 21:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	58.1	29.0	48.4		06/28/11 21:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	58.1	29.0	48.4		06/28/11 21:23	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	48.4	24.2	48.4		06/28/11 21:23	75-71-8	
1,1-Dichloroethane	ND	ug/m3	39.7	19.8	48.4		06/28/11 21:23	75-34-3	
1,2-Dichloroethane	ND	ug/m3	19.8	10.2	48.4		06/28/11 21:23	107-06-2	
1,1-Dichloroethene	ND	ug/m3	39.2	19.6	48.4		06/28/11 21:23	75-35-4	
cis-1,2-Dichloroethene	1980	ug/m3	39.2	19.6	48.4		06/28/11 21:23	156-59-2	
trans-1,2-Dichloroethene	20.9J	ug/m3	39.2	19.6	48.4		06/28/11 21:23	156-60-5	
1,2-Dichloropropane	ND	ug/m3	45.5	22.7	48.4		06/28/11 21:23	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	44.5	22.3	48.4		06/28/11 21:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	44.5	22.3	48.4		06/28/11 21:23	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	67.8	33.9	48.4		06/28/11 21:23	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	17.7	3.6	48.4		06/28/11 21:23	123-91-1	
Ethanol	130	ug/m3	92.0	41.1	48.4		06/28/11 21:23	64-17-5	
Ethylbenzene	ND	ug/m3	42.6	21.3	48.4		06/28/11 21:23	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	106	53.2	48.4		06/28/11 21:23	87-68-3	
n-Hexane	ND	ug/m3	34.8	17.4	48.4		06/28/11 21:23	110-54-3	
Methylene Chloride	66.0	ug/m3	34.4	17.2	48.4		06/28/11 21:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	40.2	20.1	48.4		06/28/11 21:23	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	35.3	17.7	48.4		06/28/11 21:23	1634-04-4	
Styrene	ND	ug/m3	42.1	21.1	48.4		06/28/11 21:23	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	33.8	16.9	48.4		06/28/11 21:23	79-34-5	
Tetrachloroethene	88900	ug/m3	1070	527	1548.8		06/30/11 00:25	127-18-4	A3
Toluene	ND	ug/m3	37.3	18.6	48.4		06/28/11 21:23	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	47.9	24.0	48.4		06/28/11 21:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	53.2	26.6	48.4		06/28/11 21:23	71-55-6	
Trichloroethene	3090	ug/m3	26.6	13.6	48.4		06/28/11 21:23	79-01-6	
Trichlorofluoromethane	ND	ug/m3	53.2	26.6	48.4		06/28/11 21:23	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	77.4	38.7	48.4		06/28/11 21:23	76-13-1	

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ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160700

Sample: SG-56		Lab ID: 10160700017		Collected: 06/15/11 13:34		Received: 06/17/11 10:00		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
1,2,4-Trimethylbenzene	ND	ug/m3	48.4	24.2	48.4		06/28/11 21:23	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	48.4	24.2	48.4		06/28/11 21:23	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	46.0	23.0	48.4		06/28/11 21:23	540-84-1	
Vinyl chloride	ND	ug/m3	12.6	6.3	48.4		06/28/11 21:23	75-01-4	
m&p-Xylene	ND	ug/m3	85.2	42.6	48.4		06/28/11 21:23	179601-23-1	
o-Xylene	ND	ug/m3	42.6	21.3	48.4		06/28/11 21:23	95-47-6	



ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160700

Sample: SG-57		Lab ID: 10160700009	Collected: 06/15/11 10:22	Received: 06/17/11 10:00	Matrix: Air				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Benzene	ND	ug/m3	57.0	28.1	175.36		06/28/11 09:41	71-43-2	
Benzyl chloride	ND	ug/m3	184	92.1	175.36		06/28/11 09:41	100-44-7	
Bromodichloromethane	ND	ug/m3	246	123	175.36		06/28/11 09:41	75-27-4	
Bromoform	ND	ug/m3	368	184	175.36		06/28/11 09:41	75-25-2	
Bromomethane	ND	ug/m3	139	69.3	175.36		06/28/11 09:41	74-83-9	
1,3-Butadiene	ND	ug/m3	78.9	39.5	175.36		06/28/11 09:41	106-99-0	
2-Butanone (MEK)	ND	ug/m3	105	52.6	175.36		06/28/11 09:41	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	162	32.3	175.36		06/28/11 09:41	75-65-0	
Carbon tetrachloride	ND	ug/m3	112	56.1	175.36		06/28/11 09:41	56-23-5	
Chlorobenzene	ND	ug/m3	165	82.4	175.36		06/28/11 09:41	108-90-7	
Chloroethane	ND	ug/m3	94.7	47.3	175.36		06/28/11 09:41	75-00-3	
Chloroform	ND	ug/m3	174	86.8	175.36		06/28/11 09:41	67-66-3	
Chloromethane	ND	ug/m3	73.7	36.8	175.36		06/28/11 09:41	74-87-3	
Cyclohexane	ND	ug/m3	119	59.6	175.36		06/28/11 09:41	110-82-7	
Dibromochloromethane	ND	ug/m3	298	149	175.36		06/28/11 09:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	281	140	175.36		06/28/11 09:41	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	210	105	175.36		06/28/11 09:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	210	105	175.36		06/28/11 09:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	210	105	175.36		06/28/11 09:41	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	175	87.7	175.36		06/28/11 09:41	75-71-8	
1,1-Dichloroethane	ND	ug/m3	144	71.9	175.36		06/28/11 09:41	75-34-3	
1,2-Dichloroethane	ND	ug/m3	71.9	36.8	175.36		06/28/11 09:41	107-06-2	
1,1-Dichloroethene	ND	ug/m3	142	71.0	175.36		06/28/11 09:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	142	71.0	175.36		06/28/11 09:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	142	71.0	175.36		06/28/11 09:41	156-60-5	
1,2-Dichloropropane	ND	ug/m3	165	82.4	175.36		06/28/11 09:41	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	161	80.7	175.36		06/28/11 09:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	161	80.7	175.36		06/28/11 09:41	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	246	123	175.36		06/28/11 09:41	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	64.2	13.0	175.36		06/28/11 09:41	123-91-1	
Ethanol	ND	ug/m3	333	149	175.36		06/28/11 09:41	64-17-5	
Ethylbenzene	ND	ug/m3	154	77.2	175.36		06/28/11 09:41	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	386	193	175.36		06/28/11 09:41	87-68-3	
n-Hexane	ND	ug/m3	126	63.1	175.36		06/28/11 09:41	110-54-3	
Methylene Chloride	ND	ug/m3	125	62.3	175.36		06/28/11 09:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	146	72.8	175.36		06/28/11 09:41	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	128	64.0	175.36		06/28/11 09:41	1634-04-4	
Styrene	ND	ug/m3	153	76.3	175.36		06/28/11 09:41	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	122	61.4	175.36		06/28/11 09:41	79-34-5	
Tetrachloroethene	10800	ug/m3	121	59.6	175.36		06/28/11 09:41	127-18-4	
Toluene	78.1J	ug/m3	135	67.5	175.36		06/28/11 09:41	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	174	86.8	175.36		06/28/11 09:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	193	96.4	175.36		06/28/11 09:41	71-55-6	
Trichloroethene	ND	ug/m3	96.4	49.1	175.36		06/28/11 09:41	79-01-6	
Trichlorofluoromethane	5270	ug/m3	193	96.4	175.36		06/28/11 09:41	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	281	140	175.36		06/28/11 09:41	76-13-1	

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ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160700

Sample: SG-57		Lab ID: 10160700009		Collected: 06/15/11 10:22		Received: 06/17/11 10:00		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
1,2,4-Trimethylbenzene	ND	ug/m3	175	87.7	175.36		06/28/11 09:41	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	175	87.7	175.36		06/28/11 09:41	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	167	83.3	175.36		06/28/11 09:41	540-84-1	
Vinyl chloride	ND	ug/m3	45.6	22.8	175.36		06/28/11 09:41	75-01-4	
m&p-Xylene	ND	ug/m3	309	154	175.36		06/28/11 09:41	179601-23-1	
o-Xylene	ND	ug/m3	154	77.2	175.36		06/28/11 09:41	95-47-6	



ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160700

Sample: SG-58		Lab ID: 10160700005	Collected: 06/15/11 08:53	Received: 06/17/11 10:00	Matrix: Air				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
Benzene	ND	ug/m3	1150	565	3532.8		06/28/11 00:00	71-43-2	
Benzyl chloride	ND	ug/m3	3710	1850	3532.8		06/28/11 00:00	100-44-7	
Bromodichloromethane	ND	ug/m3	4950	2470	3532.8		06/28/11 00:00	75-27-4	
Bromoform	ND	ug/m3	7420	3710	3532.8		06/28/11 00:00	75-25-2	
Bromomethane	ND	ug/m3	2790	1400	3532.8		06/28/11 00:00	74-83-9	
1,3-Butadiene	ND	ug/m3	1590	795	3532.8		06/28/11 00:00	106-99-0	
2-Butanone (MEK)	ND	ug/m3	2120	1060	3532.8		06/28/11 00:00	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	3260	650	3532.8		06/28/11 00:00	75-65-0	
Carbon tetrachloride	ND	ug/m3	2260	1130	3532.8		06/28/11 00:00	56-23-5	
Chlorobenzene	ND	ug/m3	3320	1660	3532.8		06/28/11 00:00	108-90-7	
Chloroethane	ND	ug/m3	1910	954	3532.8		06/28/11 00:00	75-00-3	
Chloroform	ND	ug/m3	3500	1750	3532.8		06/28/11 00:00	67-66-3	
Chloromethane	ND	ug/m3	1480	742	3532.8		06/28/11 00:00	74-87-3	
Cyclohexane	ND	ug/m3	2400	1200	3532.8		06/28/11 00:00	110-82-7	
Dibromochloromethane	ND	ug/m3	6010	3000	3532.8		06/28/11 00:00	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	5650	2830	3532.8		06/28/11 00:00	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	4240	2120	3532.8		06/28/11 00:00	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	4240	2120	3532.8		06/28/11 00:00	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	4240	2120	3532.8		06/28/11 00:00	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	3530	1770	3532.8		06/28/11 00:00	75-71-8	
1,1-Dichloroethane	ND	ug/m3	2900	1450	3532.8		06/28/11 00:00	75-34-3	
1,2-Dichloroethane	ND	ug/m3	1450	742	3532.8		06/28/11 00:00	107-06-2	
1,1-Dichloroethene	ND	ug/m3	2860	1430	3532.8		06/28/11 00:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	2860	1430	3532.8		06/28/11 00:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	2860	1430	3532.8		06/28/11 00:00	156-60-5	
1,2-Dichloropropane	ND	ug/m3	3320	1660	3532.8		06/28/11 00:00	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	3250	1630	3532.8		06/28/11 00:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	3250	1630	3532.8		06/28/11 00:00	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	4950	2470	3532.8		06/28/11 00:00	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	1290	261	3532.8		06/28/11 00:00	123-91-1	
Ethanol	ND	ug/m3	6710	3000	3532.8		06/28/11 00:00	64-17-5	
Ethylbenzene	ND	ug/m3	3110	1550	3532.8		06/28/11 00:00	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	7770	3890	3532.8		06/28/11 00:00	87-68-3	
n-Hexane	ND	ug/m3	2540	1270	3532.8		06/28/11 00:00	110-54-3	
Methylene Chloride	ND	ug/m3	2510	1250	3532.8		06/28/11 00:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	2930	1470	3532.8		06/28/11 00:00	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	2580	1290	3532.8		06/28/11 00:00	1634-04-4	
Styrene	ND	ug/m3	3070	1540	3532.8		06/28/11 00:00	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	2470	1240	3532.8		06/28/11 00:00	79-34-5	
Tetrachloroethene	176000	ug/m3	2430	1200	3532.8		06/28/11 00:00	127-18-4	
Toluene	ND	ug/m3	2720	1360	3532.8		06/28/11 00:00	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	3500	1750	3532.8		06/28/11 00:00	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	3890	1940	3532.8		06/28/11 00:00	71-55-6	
Trichloroethene	ND	ug/m3	1940	989	3532.8		06/28/11 00:00	79-01-6	
Trichlorofluoromethane	ND	ug/m3	3890	1940	3532.8		06/28/11 00:00	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	5650	2830	3532.8		06/28/11 00:00	76-13-1	

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ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160700

Sample: SG-58		Lab ID: 10160700005		Collected: 06/15/11 08:53		Received: 06/17/11 10:00		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
1,2,4-Trimethylbenzene	ND	ug/m3	3530	1770	3532.8		06/28/11 00:00	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	3530	1770	3532.8		06/28/11 00:00	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	3360	1680	3532.8		06/28/11 00:00	540-84-1	
Vinyl chloride	ND	ug/m3	919	459	3532.8		06/28/11 00:00	75-01-4	
m&p-Xylene	ND	ug/m3	6220	3110	3532.8		06/28/11 00:00	179601-23-1	
o-Xylene	ND	ug/m3	3110	1550	3532.8		06/28/11 00:00	95-47-6	



SG-58

ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160700

Sample: DUP-061511		Lab ID: 10160700008		Collected: 06/15/11 08:53		Received: 06/17/11 10:00		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Benzene	ND	ug/m3	1150	565	3532.8		06/27/11 23:00	71-43-2	
Benzyl chloride	ND	ug/m3	3710	1850	3532.8		06/27/11 23:00	100-44-7	
Bromodichloromethane	ND	ug/m3	4950	2470	3532.8		06/27/11 23:00	75-27-4	
Bromoform	6410J	ug/m3	7420	3710	3532.8		06/27/11 23:00	75-25-2	
Bromomethane	ND	ug/m3	2790	1400	3532.8		06/27/11 23:00	74-83-9	
1,3-Butadiene	ND	ug/m3	1590	795	3532.8		06/27/11 23:00	106-99-0	
2-Butanone (MEK)	ND	ug/m3	2120	1060	3532.8		06/27/11 23:00	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	3260	650	3532.8		06/27/11 23:00	75-65-0	
Carbon tetrachloride	ND	ug/m3	2260	1130	3532.8		06/27/11 23:00	56-23-5	
Chlorobenzene	ND	ug/m3	3320	1660	3532.8		06/27/11 23:00	108-90-7	
Chloroethane	ND	ug/m3	1910	954	3532.8		06/27/11 23:00	75-00-3	
Chloroform	ND	ug/m3	3500	1750	3532.8		06/27/11 23:00	67-66-3	
Chloromethane	ND	ug/m3	1480	742	3532.8		06/27/11 23:00	74-87-3	
Cyclohexane	ND	ug/m3	2400	1200	3532.8		06/27/11 23:00	110-82-7	
Dibromochloromethane	ND	ug/m3	6010	3000	3532.8		06/27/11 23:00	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	5650	2830	3532.8		06/27/11 23:00	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	4240	2120	3532.8		06/27/11 23:00	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	4240	2120	3532.8		06/27/11 23:00	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	4240	2120	3532.8		06/27/11 23:00	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	3530	1770	3532.8		06/27/11 23:00	75-71-8	
1,1-Dichloroethane	ND	ug/m3	2900	1450	3532.8		06/27/11 23:00	75-34-3	
1,2-Dichloroethane	ND	ug/m3	1450	742	3532.8		06/27/11 23:00	107-06-2	
1,1-Dichloroethene	ND	ug/m3	2860	1430	3532.8		06/27/11 23:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	2860	1430	3532.8		06/27/11 23:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	2860	1430	3532.8		06/27/11 23:00	156-60-5	
1,2-Dichloropropane	ND	ug/m3	3320	1660	3532.8		06/27/11 23:00	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	3250	1630	3532.8		06/27/11 23:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	3250	1630	3532.8		06/27/11 23:00	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	4950	2470	3532.8		06/27/11 23:00	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	1290	261	3532.8		06/27/11 23:00	123-91-1	
Ethanol	ND	ug/m3	6710	3000	3532.8		06/27/11 23:00	64-17-5	
Ethylbenzene	ND	ug/m3	3110	1550	3532.8		06/27/11 23:00	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	7770	3890	3532.8		06/27/11 23:00	87-68-3	
n-Hexane	ND	ug/m3	2540	1270	3532.8		06/27/11 23:00	110-54-3	
Methylene Chloride	ND	ug/m3	2510	1250	3532.8		06/27/11 23:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	2930	1470	3532.8		06/27/11 23:00	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	2580	1290	3532.8		06/27/11 23:00	1634-04-4	
Styrene	ND	ug/m3	3070	1540	3532.8		06/27/11 23:00	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	2470	1240	3532.8		06/27/11 23:00	79-34-5	
Tetrachloroethene	154000	ug/m3	2430	1200	3532.8		06/27/11 23:00	127-18-4	
Toluene	ND	ug/m3	2720	1360	3532.8		06/27/11 23:00	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	3500	1750	3532.8		06/27/11 23:00	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	3890	1940	3532.8		06/27/11 23:00	71-55-6	
Trichloroethene	ND	ug/m3	1940	989	3532.8		06/27/11 23:00	79-01-6	
Trichlorofluoromethane	ND	ug/m3	3890	1940	3532.8		06/27/11 23:00	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	5650	2830	3532.8		06/27/11 23:00	76-13-1	

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SG-58

ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160700

Sample: DUP-061511		Lab ID: 10160700008		Collected: 06/15/11 08:53		Received: 06/17/11 10:00		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
1,2,4-Trimethylbenzene	ND	ug/m3	3530	1770	3532.8		06/27/11 23:00	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	3530	1770	3532.8		06/27/11 23:00	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	3360	1680	3532.8		06/27/11 23:00	540-84-1	
Vinyl chloride	ND	ug/m3	919	459	3532.8		06/27/11 23:00	75-01-4	
m&p-Xylene	ND	ug/m3	6220	3110	3532.8		06/27/11 23:00	179601-23-1	
o-Xylene	ND	ug/m3	3110	1550	3532.8		06/27/11 23:00	95-47-6	



ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160700

Sample: SG-59 Lab ID: 10160700011 Collected: 06/15/11 10:37 Received: 06/17/11 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	ND	ug/m3	9.3	4.6	28.6		06/29/11 15:12	71-43-2	
Benzyl chloride	ND	ug/m3	30.0	15.0	28.6		06/29/11 15:12	100-44-7	
Bromodichloromethane	ND	ug/m3	40.0	20.0	28.6		06/29/11 15:12	75-27-4	
Bromoform	ND	ug/m3	60.1	30.0	28.6		06/29/11 15:12	75-25-2	
Bromomethane	ND	ug/m3	22.6	11.3	28.6		06/29/11 15:12	74-83-9	
1,3-Butadiene	ND	ug/m3	12.9	6.4	28.6		06/29/11 15:12	106-99-0	
2-Butanone (MEK)	ND	ug/m3	17.2	8.6	28.6		06/29/11 15:12	78-93-3	
tert-Butyl Alcohol	35.5	ug/m3	26.4	5.3	28.6		06/29/11 15:12	75-65-0	
Carbon tetrachloride	ND	ug/m3	18.3	9.2	28.6		06/29/11 15:12	56-23-5	
Chlorobenzene	ND	ug/m3	26.9	13.4	28.6		06/29/11 15:12	108-90-7	
Chloroethane	ND	ug/m3	15.4	7.7	28.6		06/29/11 15:12	75-00-3	
Chloroform	ND	ug/m3	28.3	14.2	28.6		06/29/11 15:12	67-66-3	
Chloromethane	ND	ug/m3	12.0	6.0	28.6		06/29/11 15:12	74-87-3	
Cyclohexane	ND	ug/m3	19.4	9.7	28.6		06/29/11 15:12	110-82-7	
Dibromochloromethane	ND	ug/m3	48.6	24.3	28.6		06/29/11 15:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	45.8	22.9	28.6		06/29/11 15:12	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	34.3	17.2	28.6		06/29/11 15:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	34.3	17.2	28.6		06/29/11 15:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	34.3	17.2	28.6		06/29/11 15:12	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	28.6	14.3	28.6		06/29/11 15:12	75-71-8	
1,1-Dichloroethane	ND	ug/m3	23.5	11.7	28.6		06/29/11 15:12	75-34-3	
1,2-Dichloroethane	ND	ug/m3	11.7	6.0	28.6		06/29/11 15:12	107-06-2	
1,1-Dichloroethene	ND	ug/m3	23.2	11.6	28.6		06/29/11 15:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	23.2	11.6	28.6		06/29/11 15:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	23.2	11.6	28.6		06/29/11 15:12	156-60-5	
1,2-Dichloropropane	ND	ug/m3	26.9	13.4	28.6		06/29/11 15:12	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	26.3	13.2	28.6		06/29/11 15:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	26.3	13.2	28.6		06/29/11 15:12	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	40.0	20.0	28.6		06/29/11 15:12	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	10.5	2.1	28.6		06/29/11 15:12	123-91-1	
Ethanol	31.3J	ug/m3	54.3	24.3	28.6		06/29/11 15:12	64-17-5	
Ethylbenzene	ND	ug/m3	25.2	12.6	28.6		06/29/11 15:12	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	62.9	31.5	28.6		06/29/11 15:12	87-68-3	
n-Hexane	ND	ug/m3	20.6	10.3	28.6		06/29/11 15:12	110-54-3	
Methylene Chloride	45.7	ug/m3	20.3	10.2	28.6		06/29/11 15:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	23.7	11.9	28.6		06/29/11 15:12	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	20.9	10.4	28.6		06/29/11 15:12	1634-04-4	
Styrene	ND	ug/m3	24.9	12.4	28.6		06/29/11 15:12	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	20.0	10.0	28.6		06/29/11 15:12	79-34-5	
Tetrachloroethene	2580	ug/m3	19.7	9.7	28.6		06/29/11 15:12	127-18-4	
Toluene	ND	ug/m3	22.0	11.0	28.6		06/29/11 15:12	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	28.3	14.2	28.6		06/29/11 15:12	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	31.5	15.7	28.6		06/29/11 15:12	71-55-6	
Trichloroethene	ND	ug/m3	15.7	8.0	28.6		06/29/11 15:12	79-01-6	
Trichlorofluoromethane	ND	ug/m3	31.5	15.7	28.6		06/29/11 15:12	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	45.8	22.9	28.6		06/29/11 15:12	76-13-1	

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ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160700

Sample: SG-59		Lab ID: 10160700011		Collected: 06/15/11 10:37		Received: 06/17/11 10:00		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
1,2,4-Trimethylbenzene	ND	ug/m3	28.6	14.3	28.6		06/29/11 15:12	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	28.6	14.3	28.6		06/29/11 15:12	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	27.2	13.6	28.6		06/29/11 15:12	540-84-1	
Vinyl chloride	ND	ug/m3	7.4	3.7	28.6		06/29/11 15:12	75-01-4	
m&p-Xylene	40.4J	ug/m3	50.3	25.2	28.6		06/29/11 15:12	179601-23-1	
o-Xylene	ND	ug/m3	25.2	12.6	28.6		06/29/11 15:12	95-47-6	



ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160592

Sample: **SG-60** Lab ID: **10160592007** Collected: 06/14/11 11:24 Received: 06/16/11 09:50 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	ND	ug/m3	574	283	1766.4		06/28/11 18:01	71-43-2	
Benzyl chloride	ND	ug/m3	1850	927	1766.4		06/28/11 18:01	100-44-7	
Bromodichloromethane	ND	ug/m3	2470	1240	1766.4		06/28/11 18:01	75-27-4	
Bromoform	ND	ug/m3	3710	1850	1766.4		06/28/11 18:01	75-25-2	
Bromomethane	ND	ug/m3	1400	698	1766.4		06/28/11 18:01	74-83-9	
1,3-Butadiene	ND	ug/m3	795	397	1766.4		06/28/11 18:01	106-99-0	
2-Butanone (MEK)	ND	ug/m3	1060	530	1766.4		06/28/11 18:01	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	1630	325	1766.4		06/28/11 18:01	75-65-0	
Carbon tetrachloride	793J	ug/m3	1130	565	1766.4		06/28/11 18:01	56-23-5	
Chlorobenzene	ND	ug/m3	1660	830	1766.4		06/28/11 18:01	108-90-7	
Chloroethane	ND	ug/m3	954	477	1766.4		06/28/11 18:01	75-00-3	
Chloroform	14200	ug/m3	1750	874	1766.4		06/28/11 18:01	67-66-3	
Chloromethane	ND	ug/m3	742	371	1766.4		06/28/11 18:01	74-87-3	
Cyclohexane	ND	ug/m3	1200	601	1766.4		06/28/11 18:01	110-82-7	
Dibromochloromethane	ND	ug/m3	3000	1500	1766.4		06/28/11 18:01	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2830	1410	1766.4		06/28/11 18:01	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	2120	1060	1766.4		06/28/11 18:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	2120	1060	1766.4		06/28/11 18:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	2120	1060	1766.4		06/28/11 18:01	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1770	883	1766.4		06/28/11 18:01	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1450	724	1766.4		06/28/11 18:01	75-34-3	
1,2-Dichloroethane	ND	ug/m3	724	371	1766.4		06/28/11 18:01	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1430	715	1766.4		06/28/11 18:01	75-35-4	
cis-1,2-Dichloroethene	6560	ug/m3	1430	715	1766.4		06/28/11 18:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1430	715	1766.4		06/28/11 18:01	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1660	830	1766.4		06/28/11 18:01	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1630	813	1766.4		06/28/11 18:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1630	813	1766.4		06/28/11 18:01	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2470	1240	1766.4		06/28/11 18:01	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	647	131	1766.4		06/28/11 18:01	123-91-1	
Ethanol	1850J	ug/m3	3360	1500	1766.4		06/28/11 18:01	64-17-5	
Ethylbenzene	ND	ug/m3	1550	777	1766.4		06/28/11 18:01	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	3890	1940	1766.4		06/28/11 18:01	87-68-3	
n-Hexane	3900	ug/m3	1270	636	1766.4		06/28/11 18:01	110-54-3	
Methylene Chloride	3040	ug/m3	1250	627	1766.4		06/28/11 18:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1470	733	1766.4		06/28/11 18:01	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1290	645	1766.4		06/28/11 18:01	1634-04-4	
Styrene	ND	ug/m3	1540	768	1766.4		06/28/11 18:01	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1230	618	1766.4		06/28/11 18:01	79-34-5	
Tetrachloroethene	48200000	ug/m3	156000	76900	226099		06/29/11 08:45	127-18-4	
Toluene	ND	ug/m3	1360	680	1766.4		06/28/11 18:01	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1750	874	1766.4		06/28/11 18:01	120-82-1	
1,1,1-Trichloroethane	15000	ug/m3	1940	972	1766.4		06/28/11 18:01	71-55-6	
Trichloroethene	220000	ug/m3	972	495	1766.4		06/28/11 18:01	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1940	972	1766.4		06/28/11 18:01	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2830	1410	1766.4		06/28/11 18:01	76-13-1	

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ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160592

Sample: SG-60		Lab ID: 10160592007	Collected: 06/14/11 11:24	Received: 06/16/11 09:50	Matrix: Air				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
1,2,4-Trimethylbenzene	ND	ug/m3	1760	883	1766.4		06/28/11 18:01	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1760	883	1766.4		06/28/11 18:01	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	1680	839	1766.4		06/28/11 18:01	540-84-1	
Vinyl chloride	ND	ug/m3	459	230	1766.4		06/28/11 18:01	75-01-4	
m&p-Xylene	ND	ug/m3	3110	1550	1766.4		06/28/11 18:01	179601-23-1	
o-Xylene	ND	ug/m3	1550	777	1766.4		06/28/11 18:01	95-47-6	

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SG-60

ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160592

Sample: DUP-061411		Lab ID: 10160592010	Collected: 06/14/11 11:24	Received: 06/16/11 09:50	Matrix: Air				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
Benzene	ND	ug/m3	9.0	4.4	27.6		06/28/11 01:28	71-43-2	
Benzyl chloride	ND	ug/m3	29.0	14.5	27.6		06/28/11 01:28	100-44-7	
Bromodichloromethane	ND	ug/m3	38.6	19.3	27.6		06/28/11 01:28	75-27-4	
Bromoform	ND	ug/m3	58.0	29.0	27.6		06/28/11 01:28	75-25-2	
Bromomethane	ND	ug/m3	21.8	10.9	27.6		06/28/11 01:28	74-83-9	
1,3-Butadiene	ND	ug/m3	12.4	6.2	27.6		06/28/11 01:28	106-99-0	
2-Butanone (MEK)	ND	ug/m3	16.6	8.3	27.6		06/28/11 01:28	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	25.5	5.1	27.6		06/28/11 01:28	75-65-0	
Carbon tetrachloride	ND	ug/m3	17.7	8.8	27.6		06/28/11 01:28	56-23-5	
Chlorobenzene	ND	ug/m3	25.9	13.0	27.6		06/28/11 01:28	108-90-7	
Chloroethane	ND	ug/m3	14.9	7.5	27.6		06/28/11 01:28	75-00-3	
Chloroform	170	ug/m3	27.3	13.7	27.6		06/28/11 01:28	67-66-3	
Chloromethane	ND	ug/m3	11.6	5.8	27.6		06/28/11 01:28	74-87-3	
Cyclohexane	ND	ug/m3	18.8	9.4	27.6		06/28/11 01:28	110-82-7	
Dibromochloromethane	ND	ug/m3	46.9	23.5	27.6		06/28/11 01:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	44.2	22.1	27.6		06/28/11 01:28	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	33.1	16.6	27.6		06/28/11 01:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	33.1	16.6	27.6		06/28/11 01:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	33.1	16.6	27.6		06/28/11 01:28	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	27.6	13.8	27.6		06/28/11 01:28	75-71-8	
1,1-Dichloroethane	ND	ug/m3	22.6	11.3	27.6		06/28/11 01:28	75-34-3	
1,2-Dichloroethane	ND	ug/m3	11.3	5.8	27.6		06/28/11 01:28	107-06-2	
1,1-Dichloroethene	ND	ug/m3	22.4	11.2	27.6		06/28/11 01:28	75-35-4	
cis-1,2-Dichloroethene	67.8	ug/m3	22.4	11.2	27.6		06/28/11 01:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	22.4	11.2	27.6		06/28/11 01:28	156-60-5	
1,2-Dichloropropane	ND	ug/m3	25.9	13.0	27.6		06/28/11 01:28	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	25.4	12.7	27.6		06/28/11 01:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	25.4	12.7	27.6		06/28/11 01:28	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	38.6	19.3	27.6		06/28/11 01:28	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	10.1	2.0	27.6		06/28/11 01:28	123-91-1	
Ethanol	61.4	ug/m3	52.4	23.5	27.6		06/28/11 01:28	64-17-5	
Ethylbenzene	ND	ug/m3	24.3	12.1	27.6		06/28/11 01:28	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	60.7	30.4	27.6		06/28/11 01:28	87-68-3	
n-Hexane	ND	ug/m3	19.9	9.9	27.6		06/28/11 01:28	110-54-3	
Methylene Chloride	ND	ug/m3	19.6	9.8	27.6		06/28/11 01:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	22.9	11.5	27.6		06/28/11 01:28	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	20.1	10.1	27.6		06/28/11 01:28	1634-04-4	
Styrene	ND	ug/m3	24.0	12.0	27.6		06/28/11 01:28	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	19.3	9.7	27.6		06/28/11 01:28	79-34-5	
Tetrachloroethene	1100000	ug/m3	2430	1200	3532.8		06/28/11 09:09	127-18-4	A3,E
Toluene	ND	ug/m3	21.3	10.6	27.6		06/28/11 01:28	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	27.3	13.7	27.6		06/28/11 01:28	120-82-1	
1,1,1-Trichloroethane	188	ug/m3	30.4	15.2	27.6		06/28/11 01:28	71-55-6	
Trichloroethene	2640	ug/m3	15.2	7.7	27.6		06/28/11 01:28	79-01-6	
Trichlorofluoromethane	ND	ug/m3	30.4	15.2	27.6		06/28/11 01:28	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	44.2	22.1	27.6		06/28/11 01:28	76-13-1	

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ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160592

Sample: DUP-061411		Lab ID: 10160592010		Collected: 06/14/11 11:24		Received: 06/16/11 09:50		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
1,2,4-Trimethylbenzene	19.2J	ug/m3	27.6	13.8	27.6		06/28/11 01:28	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	27.6	13.8	27.6		06/28/11 01:28	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	26.2	13.1	27.6		06/28/11 01:28	540-84-1	
Vinyl chloride	ND	ug/m3	7.2	3.6	27.6		06/28/11 01:28	75-01-4	
m&p-Xylene	ND	ug/m3	48.6	24.3	27.6		06/28/11 01:28	179601-23-1	
o-Xylene	ND	ug/m3	24.3	12.1	27.6		06/28/11 01:28	95-47-6	



ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160700

Sample: SG-61		Lab ID: 10160700012	Collected: 06/15/11 10:43	Received: 06/17/11 10:00	Matrix: Air				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
Benzene	ND	ug/m3	10.3	5.1	31.8		06/28/11 18:58	71-43-2	
Benzyl chloride	ND	ug/m3	33.4	16.7	31.8		06/28/11 18:58	100-44-7	
Bromodichloromethane	ND	ug/m3	44.5	22.3	31.8		06/28/11 18:58	75-27-4	
Bromoform	ND	ug/m3	66.8	33.4	31.8		06/28/11 18:58	75-25-2	
Bromomethane	ND	ug/m3	25.1	12.6	31.8		06/28/11 18:58	74-83-9	
1,3-Butadiene	ND	ug/m3	14.3	7.2	31.8		06/28/11 18:58	106-99-0	
2-Butanone (MEK)	ND	ug/m3	19.1	9.5	31.8		06/28/11 18:58	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	29.4	5.9	31.8		06/28/11 18:58	75-65-0	
Carbon tetrachloride	ND	ug/m3	20.4	10.2	31.8		06/28/11 18:58	56-23-5	
Chlorobenzene	ND	ug/m3	29.9	14.9	31.8		06/28/11 18:58	108-90-7	
Chloroethane	ND	ug/m3	17.2	8.6	31.8		06/28/11 18:58	75-00-3	
Chloroform	ND	ug/m3	31.5	15.7	31.8		06/28/11 18:58	67-66-3	
Chloromethane	ND	ug/m3	13.4	6.7	31.8		06/28/11 18:58	74-87-3	
Cyclohexane	63.6	ug/m3	21.6	10.8	31.8		06/28/11 18:58	110-82-7	
Dibromochloromethane	ND	ug/m3	54.1	27.0	31.8		06/28/11 18:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	50.9	25.4	31.8		06/28/11 18:58	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	38.2	19.1	31.8		06/28/11 18:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	38.2	19.1	31.8		06/28/11 18:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	38.2	19.1	31.8		06/28/11 18:58	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	31.8	15.9	31.8		06/28/11 18:58	75-71-8	
1,1-Dichloroethane	ND	ug/m3	26.1	13.0	31.8		06/28/11 18:58	75-34-3	
1,2-Dichloroethane	ND	ug/m3	13.0	6.7	31.8		06/28/11 18:58	107-06-2	
1,1-Dichloroethene	ND	ug/m3	25.8	12.9	31.8		06/28/11 18:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	25.8	12.9	31.8		06/28/11 18:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	25.8	12.9	31.8		06/28/11 18:58	156-60-5	
1,2-Dichloropropane	ND	ug/m3	29.9	14.9	31.8		06/28/11 18:58	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	29.3	14.6	31.8		06/28/11 18:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	29.3	14.6	31.8		06/28/11 18:58	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	44.5	22.3	31.8		06/28/11 18:58	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	11.6	2.4	31.8		06/28/11 18:58	123-91-1	
Ethanol	93.7	ug/m3	60.4	27.0	31.8		06/28/11 18:58	64-17-5	
Ethylbenzene	ND	ug/m3	28.0	14.0	31.8		06/28/11 18:58	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	70.0	35.0	31.8		06/28/11 18:58	87-68-3	
n-Hexane	ND	ug/m3	22.9	11.4	31.8		06/28/11 18:58	110-54-3	
Methylene Chloride	ND	ug/m3	22.6	11.3	31.8		06/28/11 18:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	26.4	13.2	31.8		06/28/11 18:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	23.2	11.6	31.8		06/28/11 18:58	1634-04-4	
Styrene	ND	ug/m3	27.7	13.8	31.8		06/28/11 18:58	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	22.2	11.1	31.8		06/28/11 18:58	79-34-5	
Tetrachloroethene	79800	ug/m3	701	346	1017.6		06/29/11 23:56	127-18-4	A3
Toluene	16.3J	ug/m3	24.5	12.2	31.8		06/28/11 18:58	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	31.5	15.7	31.8		06/28/11 18:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	35.0	17.5	31.8		06/28/11 18:58	71-55-6	
Trichloroethene	94.7	ug/m3	17.5	8.9	31.8		06/28/11 18:58	79-01-6	
Trichlorofluoromethane	ND	ug/m3	35.0	17.5	31.8		06/28/11 18:58	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	50.9	25.4	31.8		06/28/11 18:58	76-13-1	

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ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160700

Sample: SG-61		Lab ID: 10160700012	Collected: 06/15/11 10:43		Received: 06/17/11 10:00		Matrix: Air		
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
1,2,4-Trimethylbenzene	22.0J	ug/m3	31.8	15.9	31.8		06/28/11 18:58	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	31.8	15.9	31.8		06/28/11 18:58	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	30.2	15.1	31.8		06/28/11 18:58	540-84-1	
Vinyl chloride	ND	ug/m3	8.3	4.1	31.8		06/28/11 18:58	75-01-4	
m&p-Xylene	65.4	ug/m3	56.0	28.0	31.8		06/28/11 18:58	179601-23-1	
o-Xylene	ND	ug/m3	28.0	14.0	31.8		06/28/11 18:58	95-47-6	



ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160592

Sample: SG-62 Lab ID: 10160592001 Collected: 06/14/11 08:43 Received: 06/16/11 09:50 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	2.8	ug/m3	0.46	0.23	1.43		06/28/11 16:34	71-43-2	
Benzyl chloride	ND	ug/m3	1.5	0.75	1.43		06/28/11 16:34	100-44-7	
Bromodichloromethane	ND	ug/m3	2.0	1.0	1.43		06/28/11 16:34	75-27-4	
Bromoform	ND	ug/m3	3.0	1.5	1.43		06/28/11 16:34	75-25-2	
Bromomethane	ND	ug/m3	1.1	0.56	1.43		06/28/11 16:34	74-83-9	
1,3-Butadiene	ND	ug/m3	0.64	0.32	1.43		06/28/11 16:34	106-99-0	
2-Butanone (MEK)	10.8	ug/m3	0.86	0.43	1.43		06/28/11 16:34	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	1.3	0.26	1.43		06/28/11 16:34	75-65-0	
Carbon tetrachloride	ND	ug/m3	0.92	0.46	1.43		06/28/11 16:34	56-23-5	
Chlorobenzene	ND	ug/m3	1.3	0.67	1.43		06/28/11 16:34	108-90-7	
Chloroethane	ND	ug/m3	0.77	0.39	1.43		06/28/11 16:34	75-00-3	
Chloroform	ND	ug/m3	1.4	0.71	1.43		06/28/11 16:34	67-66-3	
Chloromethane	ND	ug/m3	0.60	0.30	1.43		06/28/11 16:34	74-87-3	
Cyclohexane	ND	ug/m3	0.97	0.49	1.43		06/28/11 16:34	110-82-7	
Dibromochloromethane	ND	ug/m3	2.4	1.2	1.43		06/28/11 16:34	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.3	1.1	1.43		06/28/11 16:34	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.7	0.86	1.43		06/28/11 16:34	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.7	0.86	1.43		06/28/11 16:34	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.7	0.86	1.43		06/28/11 16:34	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.4	0.72	1.43		06/28/11 16:34	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.2	0.59	1.43		06/28/11 16:34	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.59	0.30	1.43		06/28/11 16:34	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	0.58	1.43		06/28/11 16:34	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	0.58	1.43		06/28/11 16:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	0.58	1.43		06/28/11 16:34	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.3	0.67	1.43		06/28/11 16:34	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.3	0.66	1.43		06/28/11 16:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.3	0.66	1.43		06/28/11 16:34	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.0	1.0	1.43		06/28/11 16:34	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	0.52	0.11	1.43		06/28/11 16:34	123-91-1	
Ethanol	66.7	ug/m3	2.7	1.2	1.43		06/28/11 16:34	64-17-5	
Ethylbenzene	38.9	ug/m3	1.3	0.63	1.43		06/28/11 16:34	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	3.1	1.6	1.43		06/28/11 16:34	87-68-3	
n-Hexane	1.7	ug/m3	1.0	0.51	1.43		06/28/11 16:34	110-54-3	
Methylene Chloride	ND	ug/m3	1.0	0.51	1.43		06/28/11 16:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.2	0.59	1.43		06/28/11 16:34	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.0	0.52	1.43		06/28/11 16:34	1634-04-4	
Styrene	ND	ug/m3	1.2	0.62	1.43		06/28/11 16:34	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.0	0.50	1.43		06/28/11 16:34	79-34-5	
Tetrachloroethene	35.0	ug/m3	0.99	0.49	1.43		06/28/11 16:34	127-18-4	
Toluene	121	ug/m3	1.1	0.55	1.43		06/28/11 16:34	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1.4	0.71	1.43		06/28/11 16:34	120-82-1	
1,1,1-Trichloroethane	8.6	ug/m3	1.6	0.79	1.43		06/28/11 16:34	71-55-6	
Trichloroethene	71.6	ug/m3	0.79	0.40	1.43		06/28/11 16:34	79-01-6	
Trichlorofluoromethane	2.8	ug/m3	1.6	0.79	1.43		06/28/11 16:34	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.3	1.1	1.43		06/28/11 16:34	76-13-1	

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ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160592

Sample: SG-62		Lab ID: 10160592001		Collected: 06/14/11 08:43		Received: 06/16/11 09:50		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
1,2,4-Trimethylbenzene	44.7	ug/m3	1.4	0.72	1.43		06/28/11 16:34	95-63-6	
1,3,5-Trimethylbenzene	10.2	ug/m3	1.4	0.72	1.43		06/28/11 16:34	108-67-8	
2,2,4-Trimethylpentane	0.91J	ug/m3	1.4	0.68	1.43		06/28/11 16:34	540-84-1	
Vinyl chloride	ND	ug/m3	0.37	0.19	1.43		06/28/11 16:34	75-01-4	
m&p-Xylene	125	ug/m3	2.5	1.3	1.43		06/28/11 16:34	179601-23-1	
o-Xylene	47.5	ug/m3	1.3	0.63	1.43		06/28/11 16:34	95-47-6	

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ANALYTICAL RESULTS

Project: Klink Cosmo site

Pace Project No.: 10160700

Sample: SG-63 Lab ID: 10160700018 Collected: 06/15/11 15:08 Received: 06/17/11 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	49.1	ug/m3	0.90	0.44	2.76		06/29/11 17:37	71-43-2	
Benzyl chloride	ND	ug/m3	2.9	1.4	2.76		06/29/11 17:37	100-44-7	
Bromodichloromethane	ND	ug/m3	3.9	1.9	2.76		06/29/11 17:37	75-27-4	
Bromoform	ND	ug/m3	5.8	2.9	2.76		06/29/11 17:37	75-25-2	
Bromomethane	ND	ug/m3	2.2	1.1	2.76		06/29/11 17:37	74-83-9	
1,3-Butadiene	ND	ug/m3	1.2	0.62	2.76		06/29/11 17:37	106-99-0	
2-Butanone (MEK)	53.5	ug/m3	1.7	0.83	2.76		06/29/11 17:37	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	2.6	0.51	2.76		06/29/11 17:37	75-65-0	
Carbon tetrachloride	ND	ug/m3	1.8	0.88	2.76		06/29/11 17:37	56-23-5	
Chlorobenzene	ND	ug/m3	2.6	1.3	2.76		06/29/11 17:37	108-90-7	
Chloroethane	11.4	ug/m3	1.5	0.75	2.76		06/29/11 17:37	75-00-3	
Chloroform	ND	ug/m3	2.7	1.4	2.76		06/29/11 17:37	67-66-3	
Chloromethane	ND	ug/m3	1.2	0.58	2.76		06/29/11 17:37	74-87-3	
Cyclohexane	3600	ug/m3	75.1	37.5	110.4		06/30/11 07:54	110-82-7	A3
Dibromochloromethane	ND	ug/m3	4.7	2.3	2.76		06/29/11 17:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	4.4	2.2	2.76		06/29/11 17:37	106-93-4	
1,2-Dichlorobenzene	5.0	ug/m3	3.3	1.7	2.76		06/29/11 17:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	3.3	1.7	2.76		06/29/11 17:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	3.3	1.7	2.76		06/29/11 17:37	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	2.8	1.4	2.76		06/29/11 17:37	75-71-8	
1,1-Dichloroethane	38.9	ug/m3	2.3	1.1	2.76		06/29/11 17:37	75-34-3	
1,2-Dichloroethane	ND	ug/m3	1.1	0.58	2.76		06/29/11 17:37	107-06-2	
1,1-Dichloroethene	ND	ug/m3	2.2	1.1	2.76		06/29/11 17:37	75-35-4	
cis-1,2-Dichloroethene	108	ug/m3	2.2	1.1	2.76		06/29/11 17:37	156-59-2	
trans-1,2-Dichloroethene	15.3	ug/m3	2.2	1.1	2.76		06/29/11 17:37	156-60-5	
1,2-Dichloropropane	ND	ug/m3	2.6	1.3	2.76		06/29/11 17:37	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	2.5	1.3	2.76		06/29/11 17:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	2.5	1.3	2.76		06/29/11 17:37	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	3.9	1.9	2.76		06/29/11 17:37	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	1.0	0.20	2.76		06/29/11 17:37	123-91-1	
Ethanol	48.0	ug/m3	5.2	2.3	2.76		06/29/11 17:37	64-17-5	
Ethylbenzene	ND	ug/m3	2.4	1.2	2.76		06/29/11 17:37	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	6.1	3.0	2.76		06/29/11 17:37	87-68-3	
n-Hexane	91.6	ug/m3	2.0	0.99	2.76		06/29/11 17:37	110-54-3	
Methylene Chloride	ND	ug/m3	2.0	0.98	2.76		06/29/11 17:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	2.3	1.1	2.76		06/29/11 17:37	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	2.0	1.0	2.76		06/29/11 17:37	1634-04-4	
Styrene	ND	ug/m3	2.4	1.2	2.76		06/29/11 17:37	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.9	0.97	2.76		06/29/11 17:37	79-34-5	
Tetrachloroethene	208	ug/m3	1.9	0.94	2.76		06/29/11 17:37	127-18-4	
Toluene	6.4	ug/m3	2.1	1.1	2.76		06/29/11 17:37	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	2.7	1.4	2.76		06/29/11 17:37	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	3.0	1.5	2.76		06/29/11 17:37	71-55-6	
Trichloroethene	62.2	ug/m3	1.5	0.77	2.76		06/29/11 17:37	79-01-6	
Trichlorofluoromethane	ND	ug/m3	3.0	1.5	2.76		06/29/11 17:37	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	4.4	2.2	2.76		06/29/11 17:37	76-13-1	

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ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160700

Sample: SG-63		Lab ID: 10160700018	Collected: 06/15/11 15:08	Received: 06/17/11 10:00	Matrix: Air				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
1,2,4-Trimethylbenzene	4.6	ug/m3	2.8	1.4	2.76		06/29/11 17:37	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	2.8	1.4	2.76		06/29/11 17:37	108-67-8	
2,2,4-Trimethylpentane	119	ug/m3	2.6	1.3	2.76		06/29/11 17:37	540-84-1	
Vinyl chloride	48.7	ug/m3	0.72	0.36	2.76		06/29/11 17:37	75-01-4	
m&p-Xylene	4.5J	ug/m3	4.9	2.4	2.76		06/29/11 17:37	179601-23-1	
o-Xylene	ND	ug/m3	2.4	1.2	2.76		06/29/11 17:37	95-47-6	



SG-63

ANALYTICAL RESULTS

Project: Klink Cosmo site

Pace Project No.: 10160700

Sample: DUP2-061511 Lab ID: 10160700019 Collected: 06/15/11 15:08 Received: 06/17/11 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	41.2	ug/m3	9.0	4.4	27.6		06/28/11 22:49	71-43-2	
Benzyl chloride	ND	ug/m3	29.0	14.5	27.6		06/28/11 22:49	100-44-7	
Bromodichloromethane	ND	ug/m3	38.6	19.3	27.6		06/28/11 22:49	75-27-4	
Bromoform	ND	ug/m3	58.0	29.0	27.6		06/28/11 22:49	75-25-2	
Bromomethane	ND	ug/m3	21.8	10.9	27.6		06/28/11 22:49	74-83-9	
1,3-Butadiene	ND	ug/m3	12.4	6.2	27.6		06/28/11 22:49	106-99-0	
2-Butanone (MEK)	ND	ug/m3	16.6	8.3	27.6		06/28/11 22:49	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	25.5	5.1	27.6		06/28/11 22:49	75-65-0	
Carbon tetrachloride	ND	ug/m3	17.7	8.8	27.6		06/28/11 22:49	56-23-5	
Chlorobenzene	ND	ug/m3	25.9	13.0	27.6		06/28/11 22:49	108-90-7	
Chloroethane	43.2	ug/m3	14.9	7.5	27.6		06/28/11 22:49	75-00-3	
Chloroform	ND	ug/m3	27.3	13.7	27.6		06/28/11 22:49	67-66-3	
Chloromethane	ND	ug/m3	11.6	5.8	27.6		06/28/11 22:49	74-87-3	
Cyclohexane	3300	ug/m3	75.1	37.5	110.4		06/29/11 23:27	110-82-7	A3
Dibromochloromethane	ND	ug/m3	46.9	23.5	27.6		06/28/11 22:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	44.2	22.1	27.6		06/28/11 22:49	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	33.1	16.6	27.6		06/28/11 22:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	33.1	16.6	27.6		06/28/11 22:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	33.1	16.6	27.6		06/28/11 22:49	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	27.6	13.8	27.6		06/28/11 22:49	75-71-8	
1,1-Dichloroethane	29.8	ug/m3	22.6	11.3	27.6		06/28/11 22:49	75-34-3	
1,2-Dichloroethane	ND	ug/m3	11.3	5.8	27.6		06/28/11 22:49	107-06-2	
1,1-Dichloroethene	ND	ug/m3	22.4	11.2	27.6		06/28/11 22:49	75-35-4	
cis-1,2-Dichloroethene	134	ug/m3	22.4	11.2	27.6		06/28/11 22:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	22.4	11.2	27.6		06/28/11 22:49	156-60-5	
1,2-Dichloropropane	ND	ug/m3	25.9	13.0	27.6		06/28/11 22:49	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	25.4	12.7	27.6		06/28/11 22:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	25.4	12.7	27.6		06/28/11 22:49	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	38.6	19.3	27.6		06/28/11 22:49	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	10.1	2.0	27.6		06/28/11 22:49	123-91-1	
Ethanol	ND	ug/m3	52.4	23.5	27.6		06/28/11 22:49	64-17-5	
Ethylbenzene	ND	ug/m3	24.3	12.1	27.6		06/28/11 22:49	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	60.7	30.4	27.6		06/28/11 22:49	87-68-3	
n-Hexane	ND	ug/m3	19.9	9.9	27.6		06/28/11 22:49	110-54-3	
Methylene Chloride	ND	ug/m3	19.6	9.8	27.6		06/28/11 22:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	22.9	11.5	27.6		06/28/11 22:49	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	20.1	10.1	27.6		06/28/11 22:49	1634-04-4	
Styrene	ND	ug/m3	24.0	12.0	27.6		06/28/11 22:49	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	19.3	9.7	27.6		06/28/11 22:49	79-34-5	
Tetrachloroethene	258	ug/m3	19.0	9.4	27.6		06/28/11 22:49	127-18-4	
Toluene	ND	ug/m3	21.3	10.6	27.6		06/28/11 22:49	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	27.3	13.7	27.6		06/28/11 22:49	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	30.4	15.2	27.6		06/28/11 22:49	71-55-6	
Trichloroethene	56.2	ug/m3	15.2	7.7	27.6		06/28/11 22:49	79-01-6	
Trichlorofluoromethane	ND	ug/m3	30.4	15.2	27.6		06/28/11 22:49	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	44.2	22.1	27.6		06/28/11 22:49	76-13-1	

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SG-63

ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160700

Sample: DUP2-061511		Lab ID: 10160700019		Collected: 06/15/11 15:08		Received: 06/17/11 10:00		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
1,2,4-Trimethylbenzene	ND	ug/m3	27.6	13.8	27.6		06/28/11 22:49	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	27.6	13.8	27.6		06/28/11 22:49	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	26.2	13.1	27.6		06/28/11 22:49	540-84-1	
Vinyl chloride	666	ug/m3	7.2	3.6	27.6		06/28/11 22:49	75-01-4	
m&p-Xylene	ND	ug/m3	48.6	24.3	27.6		06/28/11 22:49	179601-23-1	
o-Xylene	ND	ug/m3	24.3	12.1	27.6		06/28/11 22:49	95-47-6	



ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160440

Sample: SG-78		Lab ID: 10160440003	Collected: 06/13/11 11:29	Received: 06/15/11 09:40	Matrix: Air				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	110	ug/m3	0.46	0.23	1.43		06/24/11 16:04	71-43-2	
Benzyl chloride	ND	ug/m3	1.5	0.75	1.43		06/24/11 16:04	100-44-7	
Bromodichloromethane	ND	ug/m3	2.0	1.0	1.43		06/24/11 16:04	75-27-4	
Bromoform	ND	ug/m3	3.0	1.5	1.43		06/24/11 16:04	75-25-2	
Bromomethane	ND	ug/m3	1.1	0.56	1.43		06/24/11 16:04	74-83-9	
1,3-Butadiene	ND	ug/m3	0.64	0.32	1.43		06/24/11 16:04	106-99-0	
2-Butanone (MEK)	23.1	ug/m3	0.86	0.43	1.43		06/24/11 16:04	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	1.3	0.26	1.43		06/24/11 16:04	75-65-0	
Carbon tetrachloride	ND	ug/m3	0.92	0.46	1.43		06/24/11 16:04	56-23-5	
Chlorobenzene	ND	ug/m3	1.3	0.67	1.43		06/24/11 16:04	108-90-7	
Chloroethane	ND	ug/m3	0.77	0.39	1.43		06/24/11 16:04	75-00-3	
Chloroform	ND	ug/m3	1.4	0.71	1.43		06/24/11 16:04	67-66-3	
Chloromethane	ND	ug/m3	0.60	0.30	1.43		06/24/11 16:04	74-87-3	
Cyclohexane	43.2	ug/m3	19.4	9.7	28.6		06/27/11 14:06	110-82-7	
Dibromochloromethane	ND	ug/m3	2.4	1.2	1.43		06/24/11 16:04	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.3	1.1	1.43		06/24/11 16:04	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.7	0.86	1.43		06/24/11 16:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.7	0.86	1.43		06/24/11 16:04	541-73-1	
1,4-Dichlorobenzene	6.9	ug/m3	1.7	0.86	1.43		06/24/11 16:04	106-46-7	
Dichlorodifluoromethane	25.3	ug/m3	1.4	0.72	1.43		06/24/11 16:04	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.2	0.59	1.43		06/24/11 16:04	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.59	0.30	1.43		06/24/11 16:04	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	0.58	1.43		06/24/11 16:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	0.58	1.43		06/24/11 16:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	0.58	1.43		06/24/11 16:04	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.3	0.67	1.43		06/24/11 16:04	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.3	0.66	1.43		06/24/11 16:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.3	0.66	1.43		06/24/11 16:04	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.0	1.0	1.43		06/24/11 16:04	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	0.52	0.11	1.43		06/24/11 16:04	123-91-1	
Ethanol	266	ug/m3	2.7	1.2	1.43		06/24/11 16:04	64-17-5	SE/SS
Ethylbenzene	110	ug/m3	1.3	0.63	1.43		06/24/11 16:04	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	3.1	1.6	1.43		06/24/11 16:04	87-68-3	
n-Hexane	56.0	ug/m3	20.6	10.3	28.6		06/27/11 14:06	110-54-3	
Methylene Chloride	ND	ug/m3	1.0	0.51	1.43		06/24/11 16:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.2	0.59	1.43		06/24/11 16:04	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.0	0.52	1.43		06/24/11 16:04	1634-04-4	
Styrene	4.8	ug/m3	1.2	0.62	1.43		06/24/11 16:04	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.0	0.50	1.43		06/24/11 16:04	79-34-5	
Tetrachloroethene	48.4	ug/m3	0.99	0.49	1.43		06/24/11 16:04	127-18-4	
Toluene	1090	ug/m3	22.0	11.0	28.6		06/27/11 14:06	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1.4	0.71	1.43		06/24/11 16:04	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.6	0.79	1.43		06/24/11 16:04	71-55-6	
Trichloroethene	ND	ug/m3	0.79	0.40	1.43		06/24/11 16:04	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.6	0.79	1.43		06/24/11 16:04	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.3	1.1	1.43		06/24/11 16:04	76-13-1	

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ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160440

Sample: SG-78		Lab ID: 10160440003	Collected: 06/13/11 11:29	Received: 06/15/11 09:40	Matrix: Air				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
1,2,4-Trimethylbenzene	53.7	ug/m3	1.4	0.72	1.43		06/24/11 16:04	95-63-6	
1,3,5-Trimethylbenzene	14.9	ug/m3	1.4	0.72	1.43		06/24/11 16:04	108-67-8	
2,2,4-Trimethylpentane	69.0	ug/m3	27.2	13.6	28.6		06/27/11 14:06	540-84-1	
Vinyl chloride	ND	ug/m3	0.37	0.19	1.43		06/24/11 16:04	75-01-4	
m&p-Xylene	262	ug/m3	2.5	1.3	1.43		06/24/11 16:04	179601-23-1	
o-Xylene	90.2	ug/m3	1.3	0.63	1.43		06/24/11 16:04	95-47-6	



ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160440

Sample: SG-79		Lab ID: 10160440002	Report		Collected: 06/13/11 11:24	Received: 06/15/11 09:40	Matrix: Air		
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
Benzene	93.2	ug/m3	0.48	0.24	1.48		06/24/11 15:35	71-43-2	
Benzyl chloride	ND	ug/m3	1.6	0.78	1.48		06/24/11 15:35	100-44-7	
Bromodichloromethane	ND	ug/m3	2.1	1.0	1.48		06/24/11 15:35	75-27-4	
Bromoform	ND	ug/m3	3.1	1.6	1.48		06/24/11 15:35	75-25-2	
Bromomethane	ND	ug/m3	1.2	0.58	1.48		06/24/11 15:35	74-83-9	
1,3-Butadiene	ND	ug/m3	0.67	0.33	1.48		06/24/11 15:35	106-99-0	
2-Butanone (MEK)	5.2	ug/m3	0.89	0.44	1.48		06/24/11 15:35	78-93-3	
tert-Butyl Alcohol	3.4	ug/m3	1.4	0.27	1.48		06/24/11 15:35	75-65-0	
Carbon tetrachloride	1.2	ug/m3	0.95	0.47	1.48		06/24/11 15:35	56-23-5	
Chlorobenzene	ND	ug/m3	1.4	0.70	1.48		06/24/11 15:35	108-90-7	
Chloroethane	ND	ug/m3	0.80	0.40	1.48		06/24/11 15:35	75-00-3	
Chloroform	ND	ug/m3	1.5	0.73	1.48		06/24/11 15:35	67-66-3	
Chloromethane	ND	ug/m3	0.62	0.31	1.48		06/24/11 15:35	74-87-3	
Cyclohexane	430	ug/m3	1.0	0.50	1.48		06/24/11 15:35	110-82-7	
Dibromochloromethane	ND	ug/m3	2.5	1.3	1.48		06/24/11 15:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.4	1.2	1.48		06/24/11 15:35	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.8	0.89	1.48		06/24/11 15:35	95-50-1	
1,3-Dichlorobenzene	4.0	ug/m3	1.8	0.89	1.48		06/24/11 15:35	541-73-1	
1,4-Dichlorobenzene	7.3	ug/m3	1.8	0.89	1.48		06/24/11 15:35	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.5	0.74	1.48		06/24/11 15:35	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.2	0.61	1.48		06/24/11 15:35	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.61	0.31	1.48		06/24/11 15:35	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	0.60	1.48		06/24/11 15:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	0.60	1.48		06/24/11 15:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	0.60	1.48		06/24/11 15:35	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.4	0.70	1.48		06/24/11 15:35	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.4	0.68	1.48		06/24/11 15:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.4	0.68	1.48		06/24/11 15:35	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.1	1.0	1.48		06/24/11 15:35	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	0.54	0.11	1.48		06/24/11 15:35	123-91-1	
Ethanol	292	ug/m3	2.8	1.3	1.48		06/24/11 15:35	64-17-5	E,SS
Ethylbenzene	127	ug/m3	1.3	0.65	1.48		06/24/11 15:35	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	3.3	1.6	1.48		06/24/11 15:35	87-88-3	
n-Hexane	24.5	ug/m3	21.3	10.7	29.6		06/27/11 13:38	110-54-3	
Methylene Chloride	ND	ug/m3	1.1	0.53	1.48		06/24/11 15:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.2	0.61	1.48		06/24/11 15:35	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.1	0.54	1.48		06/24/11 15:35	1634-04-4	
Styrene	ND	ug/m3	1.3	0.64	1.48		06/24/11 15:35	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.0	0.52	1.48		06/24/11 15:35	79-34-5	
Tetrachloroethene	21000	ug/m3	326	161	473.6		06/27/11 22:34	127-18-4	A3
Toluene	467	ug/m3	22.8	11.4	29.6		06/27/11 13:38	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1.5	0.73	1.48		06/24/11 15:35	120-82-1	
1,1,1-Trichloroethane	29.7	ug/m3	1.6	0.81	1.48		06/24/11 15:35	71-55-6	
Trichloroethene	ND	ug/m3	0.81	0.41	1.48		06/24/11 15:35	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.6	0.81	1.48		06/24/11 15:35	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.4	1.2	1.48		06/24/11 15:35	76-13-1	

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ANALYTICAL RESULTS

Project: Klink Cosmo site

Pace Project No.: 10160440

Sample: SG-79		Lab ID: 10160440002		Collected: 06/13/11 11:24		Received: 06/15/11 09:40		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
1,2,4-Trimethylbenzene	180	ug/m3	1.5	0.74	1.48		06/24/11 15:35	95-63-6	
1,3,5-Trimethylbenzene	47.4	ug/m3	1.5	0.74	1.48		06/24/11 15:35	108-67-8	
2,2,4-Trimethylpentane	52.3	ug/m3	28.1	14.1	29.6		06/27/11 13:38	540-84-1	
Vinyl chloride	ND	ug/m3	0.38	0.19	1.48		06/24/11 15:35	75-01-4	
m&p-Xylene	325	ug/m3	2.6	1.3	1.48		06/24/11 15:35	179601-23-1	
o-Xylene	149	ug/m3	1.3	0.65	1.48		06/24/11 15:35	95-47-6	



ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160592

Sample: **SG-80** Lab ID: **10160592006** Collected: 06/14/11 10:03 Received: 06/16/11 09:50 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	ND	ug/m3	9.6	4.7	29.6		06/28/11 05:25	71-43-2	
Benzyl chloride	ND	ug/m3	31.1	15.5	29.6		06/28/11 05:25	100-44-7	
Bromodichloromethane	ND	ug/m3	41.4	20.7	29.6		06/28/11 05:25	75-27-4	
Bromoform	ND	ug/m3	62.2	31.1	29.6		06/28/11 05:25	75-25-2	
Bromomethane	ND	ug/m3	23.4	11.7	29.6		06/28/11 05:25	74-83-9	
1,3-Butadiene	ND	ug/m3	13.3	6.7	29.6		06/28/11 05:25	106-99-0	
2-Butanone (MEK)	ND	ug/m3	17.8	8.9	29.6		06/28/11 05:25	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	27.4	5.4	29.6		06/28/11 05:25	75-65-0	
Carbon tetrachloride	ND	ug/m3	18.9	9.5	29.6		06/28/11 05:25	56-23-5	
Chlorobenzene	ND	ug/m3	27.8	13.9	29.6		06/28/11 05:25	108-90-7	
Chloroethane	ND	ug/m3	16.0	8.0	29.6		06/28/11 05:25	75-00-3	
Chloroform	ND	ug/m3	29.3	14.7	29.6		06/28/11 05:25	67-66-3	
Chloromethane	ND	ug/m3	12.4	6.2	29.6		06/28/11 05:25	74-87-3	
Cyclohexane	ND	ug/m3	20.1	10.1	29.6		06/28/11 05:25	110-82-7	
Dibromochloromethane	ND	ug/m3	50.3	25.2	29.6		06/28/11 05:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	47.4	23.7	29.6		06/28/11 05:25	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	35.5	17.8	29.6		06/28/11 05:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	35.5	17.8	29.6		06/28/11 05:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	35.5	17.8	29.6		06/28/11 05:25	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	29.6	14.8	29.6		06/28/11 05:25	75-71-8	
1,1-Dichloroethane	ND	ug/m3	24.3	12.1	29.6		06/28/11 05:25	75-34-3	
1,2-Dichloroethane	ND	ug/m3	12.1	6.2	29.6		06/28/11 05:25	107-06-2	
1,1-Dichloroethene	ND	ug/m3	24.0	12.0	29.6		06/28/11 05:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	24.0	12.0	29.6		06/28/11 05:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	24.0	12.0	29.6		06/28/11 05:25	156-60-5	
1,2-Dichloropropane	ND	ug/m3	27.8	13.9	29.6		06/28/11 05:25	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	27.2	13.6	29.6		06/28/11 05:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	27.2	13.6	29.6		06/28/11 05:25	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	41.4	20.7	29.6		06/28/11 05:25	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	10.8	2.2	29.6		06/28/11 05:25	123-91-1	
Ethanol	12200	ug/m3	56.2	25.2	29.6		06/28/11 05:25	64-17-5	
Ethylbenzene	ND	ug/m3	26.0	13.0	29.6		06/28/11 05:25	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	65.1	32.6	29.6		06/28/11 05:25	87-68-3	
n-Hexane	ND	ug/m3	21.3	10.7	29.6		06/28/11 05:25	110-54-3	
Methylene Chloride	37.9	ug/m3	21.0	10.5	29.6		06/28/11 05:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	24.6	12.3	29.6		06/28/11 05:25	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	21.6	10.8	29.6		06/28/11 05:25	1634-04-4	
Styrene	ND	ug/m3	25.8	12.9	29.6		06/28/11 05:25	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	20.7	10.4	29.6		06/28/11 05:25	79-34-5	
Tetrachloroethene	1670	ug/m3	20.4	10.1	29.6		06/28/11 05:25	127-18-4	
Toluene	171	ug/m3	22.8	11.4	29.6		06/28/11 05:25	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	29.3	14.7	29.6		06/28/11 05:25	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	32.6	16.3	29.6		06/28/11 05:25	71-55-6	
Trichloroethene	74.9	ug/m3	16.3	8.3	29.6		06/28/11 05:25	79-01-6	
Trichlorofluoromethane	ND	ug/m3	32.6	16.3	29.6		06/28/11 05:25	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	47.4	23.7	29.6		06/28/11 05:25	76-13-1	

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ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160592

Sample: SG-80		Lab ID: 10160592006		Collected: 06/14/11 10:03		Received: 06/16/11 09:50		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
1,2,4-Trimethylbenzene	33.4	ug/m3	29.6	14.8	29.6		06/28/11 05:25	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	29.6	14.8	29.6		06/28/11 05:25	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	28.1	14.1	29.6		06/28/11 05:25	540-84-1	
Vinyl chloride	ND	ug/m3	7.7	3.8	29.6		06/28/11 05:25	75-01-4	
m&p-Xylene	164	ug/m3	52.1	26.0	29.6		06/28/11 05:25	179601-23-1	
o-Xylene	26.7	ug/m3	26.0	13.0	29.6		06/28/11 05:25	95-47-6	



ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160592

Sample: **SG-81** Lab ID: **10160592004** Collected: 06/14/11 10:08 Received: 06/16/11 09:50 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	ND	ug/m3	9.0	4.4	27.6		06/28/11 04:56	71-43-2	
Benzyl chloride	ND	ug/m3	29.0	14.5	27.6		06/28/11 04:56	100-44-7	
Bromodichloromethane	ND	ug/m3	38.6	19.3	27.6		06/28/11 04:56	75-27-4	
Bromoform	ND	ug/m3	58.0	29.0	27.6		06/28/11 04:56	75-25-2	
Bromomethane	ND	ug/m3	21.8	10.9	27.6		06/28/11 04:56	74-83-9	
1,3-Butadiene	ND	ug/m3	12.4	6.2	27.6		06/28/11 04:56	106-99-0	
2-Butanone (MEK)	ND	ug/m3	16.6	8.3	27.6		06/28/11 04:56	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	25.5	5.1	27.6		06/28/11 04:56	75-65-0	
Carbon tetrachloride	ND	ug/m3	17.7	8.8	27.6		06/28/11 04:56	56-23-5	
Chlorobenzene	ND	ug/m3	25.9	13.0	27.6		06/28/11 04:56	108-90-7	
Chloroethane	ND	ug/m3	14.9	7.5	27.6		06/28/11 04:56	75-00-3	
Chloroform	ND	ug/m3	27.3	13.7	27.6		06/28/11 04:56	67-66-3	
Chloromethane	ND	ug/m3	11.6	5.8	27.6		06/28/11 04:56	74-87-3	
Cyclohexane	ND	ug/m3	18.8	9.4	27.6		06/28/11 04:56	110-82-7	
Dibromochloromethane	ND	ug/m3	46.9	23.5	27.6		06/28/11 04:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	44.2	22.1	27.6		06/28/11 04:56	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	33.1	16.6	27.6		06/28/11 04:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	33.1	16.6	27.6		06/28/11 04:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	33.1	16.6	27.6		06/28/11 04:56	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	27.6	13.8	27.6		06/28/11 04:56	75-71-8	
1,1-Dichloroethane	ND	ug/m3	22.6	11.3	27.6		06/28/11 04:56	75-34-3	
1,2-Dichloroethane	ND	ug/m3	11.3	5.8	27.6		06/28/11 04:56	107-06-2	
1,1-Dichloroethene	ND	ug/m3	22.4	11.2	27.6		06/28/11 04:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	22.4	11.2	27.6		06/28/11 04:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	22.4	11.2	27.6		06/28/11 04:56	156-60-5	
1,2-Dichloropropane	ND	ug/m3	25.9	13.0	27.6		06/28/11 04:56	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	25.4	12.7	27.6		06/28/11 04:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	25.4	12.7	27.6		06/28/11 04:56	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	38.6	19.3	27.6		06/28/11 04:56	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	10.1	2.0	27.6		06/28/11 04:56	123-91-1	
Ethanol	65.7	ug/m3	52.4	23.5	27.6		06/28/11 04:56	64-17-5	
Ethylbenzene	ND	ug/m3	24.3	12.1	27.6		06/28/11 04:56	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	60.7	30.4	27.6		06/28/11 04:56	87-68-3	
n-Hexane	ND	ug/m3	19.9	9.9	27.6		06/28/11 04:56	110-54-3	
Methylene Chloride	ND	ug/m3	19.6	9.8	27.6		06/28/11 04:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	22.9	11.5	27.6		06/28/11 04:56	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	20.1	10.1	27.6		06/28/11 04:56	1634-04-4	
Styrene	ND	ug/m3	24.0	12.0	27.6		06/28/11 04:56	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	19.3	9.7	27.6		06/28/11 04:56	79-34-5	
Tetrachloroethene	22100	ug/m3	76.1	37.5	110.4		06/28/11 12:57	127-18-4	A3
Toluene	63.7	ug/m3	21.3	10.6	27.6		06/28/11 04:56	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	27.3	13.7	27.6		06/28/11 04:56	120-82-1	
1,1,1-Trichloroethane	27.8J	ug/m3	30.4	15.2	27.6		06/28/11 04:56	71-55-6	
Trichloroethene	776	ug/m3	15.2	7.7	27.6		06/28/11 04:56	79-01-6	
Trichlorofluoromethane	ND	ug/m3	30.4	15.2	27.6		06/28/11 04:56	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	44.2	22.1	27.6		06/28/11 04:56	76-13-1	

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ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160592

Sample: SG-81		Lab ID: 10160592004	Collected: 06/14/11 10:08	Received: 06/16/11 09:50	Matrix: Air				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
1,2,4-Trimethylbenzene	20.2J	ug/m3	27.6	13.8	27.6		06/28/11 04:56	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	27.6	13.8	27.6		06/28/11 04:56	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	26.2	13.1	27.6		06/28/11 04:56	540-84-1	
Vinyl chloride	ND	ug/m3	7.2	3.6	27.6		06/28/11 04:56	75-01-4	
m&p-Xylene	101	ug/m3	48.6	24.3	27.6		06/28/11 04:56	179601-23-1	
o-Xylene	12.4J	ug/m3	24.3	12.1	27.6		06/28/11 04:56	95-47-6	



ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160592

Sample: SG-82 **Lab ID: 10160592003** Collected: 06/14/11 09:39 Received: 06/16/11 09:50 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	ND	ug/m3	9.6	4.7	29.6		06/28/11 03:58	71-43-2	
Benzyl chloride	ND	ug/m3	31.1	15.5	29.6		06/28/11 03:58	100-44-7	
Bromodichloromethane	ND	ug/m3	41.4	20.7	29.6		06/28/11 03:58	75-27-4	
Bromoform	ND	ug/m3	62.2	31.1	29.6		06/28/11 03:58	75-25-2	
Bromomethane	ND	ug/m3	23.4	11.7	29.6		06/28/11 03:58	74-83-9	
1,3-Butadiene	ND	ug/m3	13.3	6.7	29.6		06/28/11 03:58	106-99-0	
2-Butanone (MEK)	ND	ug/m3	17.8	8.9	29.6		06/28/11 03:58	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	27.4	5.4	29.6		06/28/11 03:58	75-65-0	
Carbon tetrachloride	ND	ug/m3	18.9	9.5	29.6		06/28/11 03:58	56-23-5	
Chlorobenzene	ND	ug/m3	27.8	13.9	29.6		06/28/11 03:58	108-90-7	
Chloroethane	ND	ug/m3	16.0	8.0	29.6		06/28/11 03:58	75-00-3	
Chloroform	ND	ug/m3	29.3	14.7	29.6		06/28/11 03:58	67-66-3	
Chloromethane	ND	ug/m3	12.4	6.2	29.6		06/28/11 03:58	74-87-3	
Cyclohexane	ND	ug/m3	20.1	10.1	29.6		06/28/11 03:58	110-82-7	
Dibromochloromethane	ND	ug/m3	50.3	25.2	29.6		06/28/11 03:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	47.4	23.7	29.6		06/28/11 03:58	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	35.5	17.8	29.6		06/28/11 03:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	35.5	17.8	29.6		06/28/11 03:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	35.5	17.8	29.6		06/28/11 03:58	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	29.6	14.8	29.6		06/28/11 03:58	75-71-8	
1,1-Dichloroethane	ND	ug/m3	24.3	12.1	29.6		06/28/11 03:58	75-34-3	
1,2-Dichloroethane	ND	ug/m3	12.1	6.2	29.6		06/28/11 03:58	107-06-2	
1,1-Dichloroethene	ND	ug/m3	24.0	12.0	29.6		06/28/11 03:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	24.0	12.0	29.6		06/28/11 03:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	24.0	12.0	29.6		06/28/11 03:58	156-60-5	
1,2-Dichloropropane	ND	ug/m3	27.8	13.9	29.6		06/28/11 03:58	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	27.2	13.6	29.6		06/28/11 03:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	27.2	13.6	29.6		06/28/11 03:58	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	41.4	20.7	29.6		06/28/11 03:58	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	10.8	2.2	29.6		06/28/11 03:58	123-91-1	
Ethanol	71.8	ug/m3	56.2	25.2	29.6		06/28/11 03:58	64-17-5	
Ethylbenzene	ND	ug/m3	26.0	13.0	29.6		06/28/11 03:58	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	65.1	32.6	29.6		06/28/11 03:58	87-68-3	
n-Hexane	ND	ug/m3	21.3	10.7	29.6		06/28/11 03:58	110-54-3	
Methylene Chloride	ND	ug/m3	21.0	10.5	29.6		06/28/11 03:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	24.6	12.3	29.6		06/28/11 03:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	21.6	10.8	29.6		06/28/11 03:58	1634-04-4	
Styrene	ND	ug/m3	25.8	12.9	29.6		06/28/11 03:58	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	20.7	10.4	29.6		06/28/11 03:58	79-34-5	
Tetrachloroethene	6370	ug/m3	20.4	10.1	29.6		06/28/11 03:58	127-18-4	
Toluene	152	ug/m3	22.8	11.4	29.6		06/28/11 03:58	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	29.3	14.7	29.6		06/28/11 03:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	32.6	16.3	29.6		06/28/11 03:58	71-55-6	
Trichloroethene	208	ug/m3	16.3	8.3	29.6		06/28/11 03:58	79-01-6	
Trichlorofluoromethane	ND	ug/m3	32.6	16.3	29.6		06/28/11 03:58	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	47.4	23.7	29.6		06/28/11 03:58	76-13-1	

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ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160592

Sample: SG-82		Lab ID: 10160592003	Collected: 06/14/11 09:39	Received: 06/16/11 09:50	Matrix: Air				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
1,2,4-Trimethylbenzene	17.1J	ug/m3	29.6	14.8	29.6		06/28/11 03:58	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	29.6	14.8	29.6		06/28/11 03:58	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	28.1	14.1	29.6		06/28/11 03:58	540-84-1	
Vinyl chloride	ND	ug/m3	7.7	3.8	29.6		06/28/11 03:58	75-01-4	
m&p-Xylene	159	ug/m3	52.1	26.0	29.6		06/28/11 03:58	179601-23-1	
o-Xylene	24.5J	ug/m3	26.0	13.0	29.6		06/28/11 03:58	95-47-6	

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ANALYTICAL RESULTS

Project: Klink Cosmo site

Pace Project No.: 10160700

Sample: SG-84		Lab ID: 10160700004		Collected: 06/15/11 09:01		Received: 06/17/11 10:00		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	ND	ug/m3	1190	586	3660.8		06/28/11 00:29	71-43-2	
Benzyl chloride	ND	ug/m3	3840	1920	3660.8		06/28/11 00:29	100-44-7	
Bromodichloromethane	ND	ug/m3	5130	2560	3660.8		06/28/11 00:29	75-27-4	
Bromoform	ND	ug/m3	7690	3840	3660.8		06/28/11 00:29	75-25-2	
Bromomethane	ND	ug/m3	2890	1450	3660.8		06/28/11 00:29	74-83-9	
1,3-Butadiene	ND	ug/m3	1650	824	3660.8		06/28/11 00:29	106-99-0	
2-Butanone (MEK)	ND	ug/m3	2200	1100	3660.8		06/28/11 00:29	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	3380	674	3660.8		06/28/11 00:29	75-65-0	
Carbon tetrachloride	ND	ug/m3	2340	1170	3660.8		06/28/11 00:29	56-23-5	
Chlorobenzene	ND	ug/m3	3440	1720	3660.8		06/28/11 00:29	108-90-7	
Chloroethane	ND	ug/m3	1980	988	3660.8		06/28/11 00:29	75-00-3	
Chloroform	ND	ug/m3	3620	1810	3660.8		06/28/11 00:29	67-66-3	
Chloromethane	ND	ug/m3	1540	769	3660.8		06/28/11 00:29	74-87-3	
Cyclohexane	ND	ug/m3	2490	1240	3660.8		06/28/11 00:29	110-82-7	
Dibromochloromethane	ND	ug/m3	6220	3110	3660.8		06/28/11 00:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	5860	2930	3660.8		06/28/11 00:29	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	4390	2200	3660.8		06/28/11 00:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	4390	2200	3660.8		06/28/11 00:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	4390	2200	3660.8		06/28/11 00:29	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	3660	1830	3660.8		06/28/11 00:29	75-71-8	
1,1-Dichloroethane	ND	ug/m3	3000	1500	3660.8		06/28/11 00:29	75-34-3	
1,2-Dichloroethane	ND	ug/m3	1500	769	3660.8		06/28/11 00:29	107-06-2	
1,1-Dichloroethene	ND	ug/m3	2970	1480	3660.8		06/28/11 00:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	2970	1480	3660.8		06/28/11 00:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	2970	1480	3660.8		06/28/11 00:29	156-60-5	
1,2-Dichloropropane	ND	ug/m3	3440	1720	3660.8		06/28/11 00:29	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	3370	1680	3660.8		06/28/11 00:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	3370	1680	3660.8		06/28/11 00:29	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	5130	2560	3660.8		06/28/11 00:29	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	1340	271	3660.8		06/28/11 00:29	123-91-1	
Ethanol	ND	ug/m3	6960	3110	3660.8		06/28/11 00:29	64-17-5	
Ethylbenzene	ND	ug/m3	3220	1610	3660.8		06/28/11 00:29	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	8050	4030	3660.8		06/28/11 00:29	87-68-3	
n-Hexane	ND	ug/m3	2640	1320	3660.8		06/28/11 00:29	110-54-3	
Methylene Chloride	2820	ug/m3	2600	1300	3660.8		06/28/11 00:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	3040	1520	3660.8		06/28/11 00:29	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	2670	1340	3660.8		06/28/11 00:29	1634-04-4	
Styrene	ND	ug/m3	3180	1590	3660.8		06/28/11 00:29	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	2560	1280	3660.8		06/28/11 00:29	79-34-5	
Tetrachloroethene	282000	ug/m3	2520	1240	3660.8		06/28/11 00:29	127-18-4	
Toluene	ND	ug/m3	2820	1410	3660.8		06/28/11 00:29	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	3620	1810	3660.8		06/28/11 00:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	4030	2010	3660.8		06/28/11 00:29	71-55-6	
Trichloroethene	ND	ug/m3	2010	1030	3660.8		06/28/11 00:29	79-01-6	
Trichlorofluoromethane	ND	ug/m3	4030	2010	3660.8		06/28/11 00:29	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	5860	2930	3660.8		06/28/11 00:29	76-13-1	

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ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160700

Sample: SG-84		Lab ID: 10160700004	Collected: 06/15/11 09:01	Received: 06/17/11 10:00	Matrix: Air				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
1,2,4-Trimethylbenzene	ND	ug/m3	3660	1830	3660.8		06/28/11 00:29	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	3660	1830	3660.8		06/28/11 00:29	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	3480	1740	3660.8		06/28/11 00:29	540-84-1	
Vinyl chloride	ND	ug/m3	952	476	3660.8		06/28/11 00:29	75-01-4	
m&p-Xylene	ND	ug/m3	6440	3220	3660.8		06/28/11 00:29	179601-23-1	
o-Xylene	ND	ug/m3	3220	1610	3660.8		06/28/11 00:29	95-47-6	



ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160700

Sample: SG-85 **Lab ID: 10160700006** Collected: 06/15/11 08:47 Received: 06/17/11 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	ND	ug/m3	28.7	14.1	88.32		06/28/11 14:20	71-43-2	
Benzyl chloride	ND	ug/m3	92.7	46.4	88.32		06/28/11 14:20	100-44-7	
Bromodichloromethane	ND	ug/m3	124	61.8	88.32		06/28/11 14:20	75-27-4	
Bromoform	ND	ug/m3	185	92.7	88.32		06/28/11 14:20	75-25-2	
Bromomethane	ND	ug/m3	69.8	34.9	88.32		06/28/11 14:20	74-83-9	
1,3-Butadiene	ND	ug/m3	39.7	19.9	88.32		06/28/11 14:20	106-99-0	
2-Butanone (MEK)	ND	ug/m3	53.0	26.5	88.32		06/28/11 14:20	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	81.6	16.3	88.32		06/28/11 14:20	75-65-0	
Carbon tetrachloride	ND	ug/m3	56.5	28.3	88.32		06/28/11 14:20	56-23-5	
Chlorobenzene	ND	ug/m3	83.0	41.5	88.32		06/28/11 14:20	108-90-7	
Chloroethane	ND	ug/m3	47.7	23.8	88.32		06/28/11 14:20	75-00-3	
Chloroform	ND	ug/m3	87.4	43.7	88.32		06/28/11 14:20	67-66-3	
Chloromethane	ND	ug/m3	37.1	18.5	88.32		06/28/11 14:20	74-87-3	
Cyclohexane	ND	ug/m3	60.1	30.0	88.32		06/28/11 14:20	110-82-7	
Dibromochloromethane	ND	ug/m3	150	75.1	88.32		06/28/11 14:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	141	70.7	88.32		06/28/11 14:20	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	106	53.0	88.32		06/28/11 14:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	106	53.0	88.32		06/28/11 14:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	106	53.0	88.32		06/28/11 14:20	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	88.3	44.2	88.32		06/28/11 14:20	75-71-8	
1,1-Dichloroethane	ND	ug/m3	72.4	36.2	88.32		06/28/11 14:20	75-34-3	
1,2-Dichloroethane	ND	ug/m3	36.2	18.5	88.32		06/28/11 14:20	107-06-2	
1,1-Dichloroethene	ND	ug/m3	71.5	35.8	88.32		06/28/11 14:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	71.5	35.8	88.32		06/28/11 14:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	71.5	35.8	88.32		06/28/11 14:20	156-60-5	
1,2-Dichloropropane	ND	ug/m3	83.0	41.5	88.32		06/28/11 14:20	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	81.3	40.6	88.32		06/28/11 14:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	81.3	40.6	88.32		06/28/11 14:20	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	124	61.8	88.32		06/28/11 14:20	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	32.3	6.5	88.32		06/28/11 14:20	123-91-1	
Ethanol	259	ug/m3	168	75.1	88.32		06/28/11 14:20	64-17-5	
Ethylbenzene	ND	ug/m3	77.7	38.9	88.32		06/28/11 14:20	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	194	97.2	88.32		06/28/11 14:20	87-68-3	
n-Hexane	581	ug/m3	63.6	31.8	88.32		06/28/11 14:20	110-54-3	
Methylene Chloride	1690	ug/m3	62.7	31.4	88.32		06/28/11 14:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	73.3	36.7	88.32		06/28/11 14:20	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	64.5	32.2	88.32		06/28/11 14:20	1634-04-4	
Styrene	ND	ug/m3	76.8	38.4	88.32		06/28/11 14:20	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	61.6	30.9	88.32		06/28/11 14:20	79-34-5	
Tetrachloroethene	7460	ug/m3	60.9	30.0	88.32		06/28/11 14:20	127-18-4	
Toluene	198	ug/m3	68.0	34.0	88.32		06/28/11 14:20	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	87.4	43.7	88.32		06/28/11 14:20	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	97.2	48.6	88.32		06/28/11 14:20	71-55-6	
Trichloroethene	114	ug/m3	48.6	24.7	88.32		06/28/11 14:20	79-01-6	
Trichlorofluoromethane	256	ug/m3	97.2	48.6	88.32		06/28/11 14:20	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	141	70.7	88.32		06/28/11 14:20	76-13-1	

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ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160700

Sample: SG-85		Lab ID: 10160700006		Collected: 06/15/11 08:47		Received: 06/17/11 10:00		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
1,2,4-Trimethylbenzene	59.9J	ug/m3	88.2	44.2	88.32		06/28/11 14:20	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	88.2	44.2	88.32		06/28/11 14:20	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	83.9	42.0	88.32		06/28/11 14:20	540-84-1	
Vinyl chloride	ND	ug/m3	23.0	11.5	88.32		06/28/11 14:20	75-01-4	
m&p-Xylene	ND	ug/m3	155	77.7	88.32		06/28/11 14:20	179601-23-1	
o-Xylene	ND	ug/m3	77.7	38.9	88.32		06/28/11 14:20	95-47-6	



ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160700

Sample: SG-86 **Lab ID: 10160700007** Collected: 06/15/11 08:35 Received: 06/17/11 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
Benzene	ND	ug/m3	123	60.6	378.88		06/28/11 13:51	71-43-2	
Benzyl chloride	ND	ug/m3	398	199	378.88		06/28/11 13:51	100-44-7	
Bromodichloromethane	ND	ug/m3	530	265	378.88		06/28/11 13:51	75-27-4	
Bromoform	ND	ug/m3	796	398	378.88		06/28/11 13:51	75-25-2	
Bromomethane	ND	ug/m3	299	150	378.88		06/28/11 13:51	74-83-9	
1,3-Butadiene	ND	ug/m3	170	85.2	378.88		06/28/11 13:51	106-99-0	
2-Butanone (MEK)	ND	ug/m3	227	114	378.88		06/28/11 13:51	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	350	69.7	378.88		06/28/11 13:51	75-65-0	
Carbon tetrachloride	ND	ug/m3	242	121	378.88		06/28/11 13:51	56-23-5	
Chlorobenzene	ND	ug/m3	356	178	378.88		06/28/11 13:51	108-90-7	
Chloroethane	ND	ug/m3	205	102	378.88		06/28/11 13:51	75-00-3	
Chloroform	ND	ug/m3	375	188	378.88		06/28/11 13:51	67-66-3	
Chloromethane	ND	ug/m3	159	79.6	378.88		06/28/11 13:51	74-87-3	
Cyclohexane	ND	ug/m3	258	129	378.88		06/28/11 13:51	110-82-7	
Dibromochloromethane	ND	ug/m3	644	322	378.88		06/28/11 13:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	606	303	378.88		06/28/11 13:51	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	455	227	378.88		06/28/11 13:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	455	227	378.88		06/28/11 13:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	455	227	378.88		06/28/11 13:51	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	379	189	378.88		06/28/11 13:51	75-71-8	
1,1-Dichloroethane	ND	ug/m3	311	155	378.88		06/28/11 13:51	75-34-3	
1,2-Dichloroethane	ND	ug/m3	155	79.6	378.88		06/28/11 13:51	107-06-2	
1,1-Dichloroethene	1290	ug/m3	307	153	378.88		06/28/11 13:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	307	153	378.88		06/28/11 13:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	307	153	378.88		06/28/11 13:51	156-60-5	
1,2-Dichloropropane	ND	ug/m3	356	178	378.88		06/28/11 13:51	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	349	174	378.88		06/28/11 13:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	349	174	378.88		06/28/11 13:51	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	530	265	378.88		06/28/11 13:51	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	139	28.0	378.88		06/28/11 13:51	123-91-1	
Ethanol	3840	ug/m3	720	322	378.88		06/28/11 13:51	64-17-5	
Ethylbenzene	ND	ug/m3	333	167	378.88		06/28/11 13:51	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	834	417	378.88		06/28/11 13:51	87-68-3	
n-Hexane	978	ug/m3	273	136	378.88		06/28/11 13:51	110-54-3	
Methylene Chloride	3140	ug/m3	269	135	378.88		06/28/11 13:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	314	157	378.88		06/28/11 13:51	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	277	138	378.88		06/28/11 13:51	1634-04-4	
Styrene	ND	ug/m3	330	165	378.88		06/28/11 13:51	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	264	133	378.88		06/28/11 13:51	79-34-5	
Tetrachloroethene	69500	ug/m3	261	129	378.88		06/28/11 13:51	127-18-4	
Toluene	222J	ug/m3	292	146	378.88		06/28/11 13:51	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	375	188	378.88		06/28/11 13:51	120-82-1	
1,1,1-Trichloroethane	295J	ug/m3	417	208	378.88		06/28/11 13:51	71-55-6	
Trichloroethene	899	ug/m3	208	106	378.88		06/28/11 13:51	79-01-6	
Trichlorofluoromethane	ND	ug/m3	417	208	378.88		06/28/11 13:51	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	606	303	378.88		06/28/11 13:51	76-13-1	

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6/18/11

ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160700

Sample: SG-86		Lab ID: 10160700007		Collected: 06/15/11 08:35		Received: 06/17/11 10:00		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
1,2,4-Trimethylbenzene	ND	ug/m3	379	189	378.88		06/28/11 13:51	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	379	189	378.88		06/28/11 13:51	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	360	180	378.88		06/28/11 13:51	540-84-1	
Vinyl chloride	ND	ug/m3	98.5	49.3	378.88		06/28/11 13:51	75-01-4	
m&p-Xylene	ND	ug/m3	667	333	378.88		06/28/11 13:51	179601-23-1	
o-Xylene	ND	ug/m3	333	167	378.88		06/28/11 13:51	95-47-6	



ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160700

Sample: SG-87		Lab ID: 10160700010		Collected: 06/15/11 10:31		Received: 06/17/11 10:00		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	ND	ug/m3	28.7	14.1	88.32		06/28/11 12:50	71-43-2	
Benzyl chloride	ND	ug/m3	92.7	46.4	88.32		06/28/11 12:50	100-44-7	
Bromodichloromethane	ND	ug/m3	124	61.8	88.32		06/28/11 12:50	75-27-4	
Bromoform	ND	ug/m3	185	92.7	88.32		06/28/11 12:50	75-25-2	
Bromomethane	ND	ug/m3	69.8	34.9	88.32		06/28/11 12:50	74-83-9	
1,3-Butadiene	ND	ug/m3	39.7	19.9	88.32		06/28/11 12:50	106-99-0	
2-Butanone (MEK)	ND	ug/m3	53.0	26.5	88.32		06/28/11 12:50	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	81.6	16.3	88.32		06/28/11 12:50	75-85-0	
Carbon tetrachloride	ND	ug/m3	56.5	28.3	88.32		06/28/11 12:50	56-23-5	
Chlorobenzene	ND	ug/m3	83.0	41.5	88.32		06/28/11 12:50	108-90-7	
Chloroethane	ND	ug/m3	47.7	23.8	88.32		06/28/11 12:50	75-00-3	
Chloroform	ND	ug/m3	87.4	43.7	88.32		06/28/11 12:50	67-66-3	
Chloromethane	ND	ug/m3	37.1	18.5	88.32		06/28/11 12:50	74-87-3	
Cyclohexane	ND	ug/m3	60.1	30.0	88.32		06/28/11 12:50	110-82-7	
Dibromochloromethane	ND	ug/m3	150	75.1	88.32		06/28/11 12:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	141	70.7	88.32		06/28/11 12:50	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	106	53.0	88.32		06/28/11 12:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	106	53.0	88.32		06/28/11 12:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	106	53.0	88.32		06/28/11 12:50	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	88.3	44.2	88.32		06/28/11 12:50	75-71-8	
1,1-Dichloroethane	ND	ug/m3	72.4	36.2	88.32		06/28/11 12:50	75-34-3	
1,2-Dichloroethane	ND	ug/m3	36.2	18.5	88.32		06/28/11 12:50	107-06-2	
1,1-Dichloroethene	ND	ug/m3	71.5	35.8	88.32		06/28/11 12:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	71.5	35.8	88.32		06/28/11 12:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	71.5	35.8	88.32		06/28/11 12:50	156-60-5	
1,2-Dichloropropane	169	ug/m3	83.0	41.5	88.32		06/28/11 12:50	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	81.3	40.6	88.32		06/28/11 12:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	81.3	40.6	88.32		06/28/11 12:50	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	124	61.8	88.32		06/28/11 12:50	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	32.3	6.5	88.32		06/28/11 12:50	123-91-1	
Ethanol	1310	ug/m3	168	75.1	88.32		06/28/11 12:50	64-17-5	
Ethylbenzene	ND	ug/m3	77.7	38.9	88.32		06/28/11 12:50	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	194	97.2	88.32		06/28/11 12:50	87-68-3	
n-Hexane	1960	ug/m3	63.6	31.8	88.32		06/28/11 12:50	110-54-3	
Methylene Chloride	6640	ug/m3	62.7	31.4	88.32		06/28/11 12:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	73.3	36.7	88.32		06/28/11 12:50	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	64.5	32.2	88.32		06/28/11 12:50	1634-04-4	
Styrene	ND	ug/m3	76.8	38.4	88.32		06/28/11 12:50	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	61.6	30.9	88.32		06/28/11 12:50	79-34-5	
Tetrachloroethene	2190	ug/m3	60.9	30.0	88.32		06/28/11 12:50	127-18-4	
Toluene	264	ug/m3	68.0	34.0	88.32		06/28/11 12:50	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	87.4	43.7	88.32		06/28/11 12:50	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	97.2	48.6	88.32		06/28/11 12:50	71-55-6	
Trichloroethene	ND	ug/m3	48.6	24.7	88.32		06/28/11 12:50	79-01-6	
Trichlorofluoromethane	ND	ug/m3	97.2	48.6	88.32		06/28/11 12:50	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	141	70.7	88.32		06/28/11 12:50	76-13-1	

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ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160700

Sample: SG-87		Lab ID: 10160700010	Collected: 06/15/11 10:31	Received: 06/17/11 10:00	Matrix: Air				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
1,2,4-Trimethylbenzene	ND	ug/m3	88.2	44.2	88.32		06/28/11 12:50	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	88.2	44.2	88.32		06/28/11 12:50	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	83.9	42.0	88.32		06/28/11 12:50	540-84-1	
Vinyl chloride	ND	ug/m3	23.0	11.5	88.32		06/28/11 12:50	75-01-4	
m&p-Xylene	ND	ug/m3	155	77.7	88.32		06/28/11 12:50	179601-23-1	
o-Xylene	ND	ug/m3	77.7	38.9	88.32		06/28/11 12:50	95-47-6	



ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160440

Sample: AA-061311		Lab ID: 10160440007		Collected: 06/13/11 11:38		Received: 06/15/11 09:40		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
Benzene	ND	ug/m3	0.50	0.25	1.54		06/28/11 11:37	71-43-2	
Benzyl chloride	ND	ug/m3	1.6	0.81	1.54		06/28/11 11:37	100-44-7	
Bromodichloromethane	ND	ug/m3	2.2	1.1	1.54		06/28/11 11:37	75-27-4	
Bromoform	ND	ug/m3	3.2	1.6	1.54		06/28/11 11:37	75-25-2	
Bromomethane	ND	ug/m3	1.2	0.61	1.54		06/28/11 11:37	74-83-9	
1,3-Butadiene	ND	ug/m3	0.69	0.35	1.54		06/28/11 11:37	106-99-0	
2-Butanone (MEK)	3.0	ug/m3	0.92	0.46	1.54		06/28/11 11:37	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	1.4	0.28	1.54		06/28/11 11:37	75-65-0	
Carbon tetrachloride	ND	ug/m3	0.99	0.49	1.54		06/28/11 11:37	56-23-5	
Chlorobenzene	ND	ug/m3	1.4	0.72	1.54		06/28/11 11:37	108-90-7	
Chloroethane	ND	ug/m3	0.83	0.42	1.54		06/28/11 11:37	75-00-3	
Chloroform	ND	ug/m3	1.5	0.76	1.54		06/28/11 11:37	67-66-3	
Chloromethane	ND	ug/m3	0.65	0.32	1.54		06/28/11 11:37	74-87-3	
Cyclohexane	ND	ug/m3	1.0	0.52	1.54		06/28/11 11:37	110-82-7	
Dibromochloromethane	ND	ug/m3	2.6	1.3	1.54		06/28/11 11:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.5	1.2	1.54		06/28/11 11:37	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.8	0.92	1.54		06/28/11 11:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.8	0.92	1.54		06/28/11 11:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.8	0.92	1.54		06/28/11 11:37	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.5	0.77	1.54		06/28/11 11:37	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.3	0.63	1.54		06/28/11 11:37	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.63	0.32	1.54		06/28/11 11:37	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	0.62	1.54		06/28/11 11:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	0.62	1.54		06/28/11 11:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	0.62	1.54		06/28/11 11:37	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.4	0.72	1.54		06/28/11 11:37	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.4	0.71	1.54		06/28/11 11:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.4	0.71	1.54		06/28/11 11:37	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.2	1.1	1.54		06/28/11 11:37	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	0.56	0.11	1.54		06/28/11 11:37	123-91-1	
Ethanol	15.3	ug/m3	2.9	1.3	1.54		06/28/11 11:37	64-17-5	
Ethylbenzene	ND	ug/m3	1.4	0.68	1.54		06/28/11 11:37	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	3.4	1.7	1.54		06/28/11 11:37	87-68-3	
n-Hexane	2.0	ug/m3	1.1	0.55	1.54		06/28/11 11:37	110-54-3	
Methylene Chloride	6.8	ug/m3	1.1	0.55	1.54		06/28/11 11:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.3	0.64	1.54		06/28/11 11:37	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.1	0.56	1.54		06/28/11 11:37	1634-04-4	
Styrene	ND	ug/m3	1.3	0.67	1.54		06/28/11 11:37	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.1	0.54	1.54		06/28/11 11:37	79-34-5	
Tetrachloroethene	18.2	ug/m3	1.1	0.52	1.54		06/28/11 11:37	127-18-4	
Toluene	6.8	ug/m3	1.2	0.59	1.54		06/28/11 11:37	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1.5	0.76	1.54		06/28/11 11:37	120-82-1	
1,1,1-Trichloroethane	8.7	ug/m3	1.7	0.85	1.54		06/28/11 11:37	71-55-6	
Trichloroethene	ND	ug/m3	0.85	0.43	1.54		06/28/11 11:37	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.7	0.85	1.54		06/28/11 11:37	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.5	1.2	1.54		06/28/11 11:37	76-13-1	

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ANALYTICAL RESULTS

Project: Klink Cosmo site

Pace Project No.: 10160440

Sample: AA-061311		Lab ID: 10160440007		Collected: 06/13/11 11:38		Received: 06/15/11 09:40		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
1,2,4-Trimethylbenzene	ND	ug/m3	1.5	0.77	1.54		06/28/11 11:37	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.5	0.77	1.54		06/28/11 11:37	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	1.5	0.73	1.54		06/28/11 11:37	540-84-1	
Vinyl chloride	ND	ug/m3	0.40	0.20	1.54		06/28/11 11:37	75-01-4	
m&p-Xylene	2.4J	ug/m3	2.7	1.4	1.54		06/28/11 11:37	179601-23-1	
o-Xylene	ND	ug/m3	1.4	0.68	1.54		06/28/11 11:37	95-47-6	

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ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160592

Sample: AA-061411		Lab ID: 10160592005	Collected: 06/14/11 08:57	Received: 06/16/11 09:50	Matrix: Air				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
Benzene	ND	ug/m3	0.45	0.22	1.38		06/28/11 17:32	71-43-2	
Benzyl chloride	ND	ug/m3	1.4	0.72	1.38		06/28/11 17:32	100-44-7	
Bromodichloromethane	ND	ug/m3	1.9	0.97	1.38		06/28/11 17:32	75-27-4	
Bromoform	ND	ug/m3	2.9	1.4	1.38		06/28/11 17:32	75-25-2	
Bromomethane	ND	ug/m3	1.1	0.55	1.38		06/28/11 17:32	74-83-9	
1,3-Butadiene	ND	ug/m3	0.62	0.31	1.38		06/28/11 17:32	106-99-0	
2-Butanone (MEK)	0.94	ug/m3	0.83	0.41	1.38		06/28/11 17:32	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	1.3	0.25	1.38		06/28/11 17:32	75-65-0	
Carbon tetrachloride	ND	ug/m3	0.88	0.44	1.38		06/28/11 17:32	56-23-5	
Chlorobenzene	ND	ug/m3	1.3	0.65	1.38		06/28/11 17:32	108-90-7	
Chloroethane	ND	ug/m3	0.75	0.37	1.38		06/28/11 17:32	75-00-3	
Chloroform	ND	ug/m3	1.4	0.68	1.38		06/28/11 17:32	67-66-3	
Chloromethane	ND	ug/m3	0.58	0.29	1.38		06/28/11 17:32	74-87-3	
Cyclohexane	ND	ug/m3	0.94	0.47	1.38		06/28/11 17:32	110-82-7	
Dibromochloromethane	ND	ug/m3	2.3	1.2	1.38		06/28/11 17:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.2	1.1	1.38		06/28/11 17:32	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.7	0.83	1.38		06/28/11 17:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.7	0.83	1.38		06/28/11 17:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.7	0.83	1.38		06/28/11 17:32	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.4	0.69	1.38		06/28/11 17:32	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.1	0.57	1.38		06/28/11 17:32	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.57	0.29	1.38		06/28/11 17:32	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.1	0.56	1.38		06/28/11 17:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.1	0.56	1.38		06/28/11 17:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	0.56	1.38		06/28/11 17:32	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.3	0.65	1.38		06/28/11 17:32	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.3	0.63	1.38		06/28/11 17:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.3	0.63	1.38		06/28/11 17:32	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	1.9	0.97	1.38		06/28/11 17:32	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	0.51	0.10	1.38		06/28/11 17:32	123-91-1	
Ethanol	12.3	ug/m3	2.6	1.2	1.38		06/28/11 17:32	64-17-5	
Ethylbenzene	ND	ug/m3	1.2	0.61	1.38		06/28/11 17:32	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	3.0	1.5	1.38		06/28/11 17:32	87-68-3	
n-Hexane	1.3	ug/m3	0.99	0.50	1.38		06/28/11 17:32	110-54-3	
Methylene Chloride	2.0	ug/m3	0.98	0.49	1.38		06/28/11 17:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.1	0.57	1.38		06/28/11 17:32	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.0	0.50	1.38		06/28/11 17:32	1634-04-4	
Styrene	ND	ug/m3	1.2	0.60	1.38		06/28/11 17:32	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.96	0.48	1.38		06/28/11 17:32	79-34-5	
Tetrachloroethene	ND	ug/m3	0.95	0.47	1.38		06/28/11 17:32	127-18-4	
Toluene	7.1	ug/m3	1.1	0.53	1.38		06/28/11 17:32	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1.4	0.68	1.38		06/28/11 17:32	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.5	0.76	1.38		06/28/11 17:32	71-55-6	
Trichloroethene	ND	ug/m3	0.76	0.39	1.38		06/28/11 17:32	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.5	0.76	1.38		06/28/11 17:32	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.2	1.1	1.38		06/28/11 17:32	76-13-1	

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ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160592

Sample: AA-061411		Lab ID: 10160592005		Collected: 06/14/11 08:57		Received: 06/16/11 09:50		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
1,2,4-Trimethylbenzene	35.6	ug/m3	1.4	0.69	1.38		06/28/11 17:32	95-63-6	
1,3,5-Trimethylbenzene	8.8	ug/m3	1.4	0.69	1.38		06/28/11 17:32	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	1.3	0.66	1.38		06/28/11 17:32	540-84-1	
Vinyl chloride	ND	ug/m3	0.36	0.18	1.38		06/28/11 17:32	75-01-4	
m&p-Xylene	14.9	ug/m3	2.4	1.2	1.38		06/28/11 17:32	179601-23-1	
o-Xylene	7.6	ug/m3	1.2	0.61	1.38		06/28/11 17:32	95-47-6	



ANALYTICAL RESULTS

Project: Klink Cosmo site
Pace Project No.: 10160700

Sample: AA-061511 Lab ID: 10160700013 Collected: 06/15/11 10:51 Received: 06/17/11 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	ND	ug/m3	0.64	0.32	1.97		06/29/11 16:10	71-43-2	
Benzyl chloride	ND	ug/m3	2.1	1.0	1.97		06/29/11 16:10	100-44-7	
Bromodichloromethane	ND	ug/m3	2.8	1.4	1.97		06/29/11 16:10	75-27-4	
Bromoform	ND	ug/m3	4.1	2.1	1.97		06/29/11 16:10	75-25-2	
Bromomethane	ND	ug/m3	1.6	0.78	1.97		06/29/11 16:10	74-83-9	
1,3-Butadiene	ND	ug/m3	0.89	0.44	1.97		06/29/11 16:10	106-99-0	
2-Butanone (MEK)	4.7	ug/m3	1.2	0.59	1.97		06/29/11 16:10	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	1.8	0.36	1.97		06/29/11 16:10	75-65-0	
Carbon tetrachloride	ND	ug/m3	1.3	0.63	1.97		06/29/11 16:10	56-23-5	
Chlorobenzene	ND	ug/m3	1.9	0.93	1.97		06/29/11 16:10	108-90-7	
Chloroethane	ND	ug/m3	1.1	0.53	1.97		06/29/11 16:10	75-00-3	
Chloroform	ND	ug/m3	2.0	0.98	1.97		06/29/11 16:10	67-66-3	
Chloromethane	ND	ug/m3	0.83	0.41	1.97		06/29/11 16:10	74-87-3	
Cyclohexane	ND	ug/m3	1.3	0.67	1.97		06/29/11 16:10	110-82-7	
Dibromochloromethane	ND	ug/m3	3.3	1.7	1.97		06/29/11 16:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	3.2	1.6	1.97		06/29/11 16:10	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	2.4	1.2	1.97		06/29/11 16:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	2.4	1.2	1.97		06/29/11 16:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	2.4	1.2	1.97		06/29/11 16:10	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	2.0	0.98	1.97		06/29/11 16:10	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.6	0.81	1.97		06/29/11 16:10	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.81	0.41	1.97		06/29/11 16:10	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.6	0.80	1.97		06/29/11 16:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.6	0.80	1.97		06/29/11 16:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.6	0.80	1.97		06/29/11 16:10	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.9	0.93	1.97		06/29/11 16:10	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.8	0.91	1.97		06/29/11 16:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.8	0.91	1.97		06/29/11 16:10	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.8	1.4	1.97		06/29/11 16:10	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	0.72	0.15	1.97		06/29/11 16:10	123-91-1	
Ethanol	22.3	ug/m3	3.7	1.7	1.97		06/29/11 16:10	64-17-5	
Ethylbenzene	1.6J	ug/m3	1.7	0.87	1.97		06/29/11 16:10	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	4.3	2.2	1.97		06/29/11 16:10	87-68-3	
n-Hexane	0.92J	ug/m3	1.4	0.71	1.97		06/29/11 16:10	110-54-3	
Methylene Chloride	5.8	ug/m3	1.4	0.70	1.97		06/29/11 16:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.6	0.82	1.97		06/29/11 16:10	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.4	0.72	1.97		06/29/11 16:10	1634-04-4	
Styrene	ND	ug/m3	1.7	0.86	1.97		06/29/11 16:10	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.4	0.69	1.97		06/29/11 16:10	79-34-5	
Tetrachloroethene	ND	ug/m3	1.4	0.67	1.97		06/29/11 16:10	127-18-4	
Toluene	20.4	ug/m3	1.5	0.76	1.97		06/29/11 16:10	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	2.0	0.98	1.97		06/29/11 16:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	2.2	1.1	1.97		06/29/11 16:10	71-55-6	
Trichloroethene	ND	ug/m3	1.1	0.55	1.97		06/29/11 16:10	79-01-6	
Trichlorofluoromethane	ND	ug/m3	2.2	1.1	1.97		06/29/11 16:10	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	3.2	1.6	1.97		06/29/11 16:10	76-13-1	

Date: 07/05/2011 04:38 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Klink Cosmo site

Pace Project No.: 10160700

Sample: AA-061511		Lab ID: 10160700013		Collected: 06/15/11 10:51		Received: 06/17/11 10:00		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
1,2,4-Trimethylbenzene	ND	ug/m3	2.0	0.98	1.97		06/29/11 16:10	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	2.0	0.98	1.97		06/29/11 16:10	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	1.9	0.94	1.97		06/29/11 16:10	540-84-1	
Vinyl chloride	ND	ug/m3	0.51	0.26	1.97		06/29/11 16:10	75-01-4	
m&p-Xylene	18.1	ug/m3	3.5	1.7	1.97		06/29/11 16:10	179601-23-1	
o-Xylene	2.9	ug/m3	1.7	0.87	1.97		06/29/11 16:10	95-47-6	



ATTACHMENT B

SUPPORT DOCUMENTATION

CHAIN OF CUSTODY RECORD

PROJECT NO. 1176390.00002
 SITE NAME Klink/Cosmo
 SAMPLERS (PRINT/SIGNATURE) C. Friedman / Doug [Signature]

DELIVERY SERVICE: Cowiex AIRBILL NO.:

LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLEID	MATRIX
DEC-066	5/9/11	1510	6	DEC-066S(1-2)	SH 50
DEC-44	5/10/11	1430	6	DEC-044D(4-5)	SO 4
DEC-029	5/11/11	1000	6	DEC-029D(75-76)	SO 4

TOTAL NO. OF CONTAINERS



LAB MITKenna
 COOLER 1 of 1
 PAGE 1 of 1

TESTS

BOTTLE TYPE AND PRESERVATIVE	
Full TCP	✓
RCRA TCC	✓
TEL VOCs	✓
TEL SVCS	✓
TEL SVCS + TICS	✓
TEL SVCS + TICS	✓
Metals + Cu	✓
Metals + Cu	✓
Metals + Cu	✓

REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (RPMs ONLY)
KCT91	N2	1	2	
	N1	4	5	
	N1	75	76	

MATRIX CODES	AA - AMBIENT AIR	SE - SEDIMENT	SH - HAZARDOUS SOLID WASTE	SL - SLUDGE	WP - DRINKING WATER	WM - WASTE WATER	WG - GROUND WATER	SO - SOIL	DC - DRILL CUTTINGS	WL - LEACHATE	GS - SOIL GAS	WC - DRILLING WATER	WO - OCEAN WATER	WS - SURFACE WATER	WQ - WATER FIELD QC	U# - HAZARDOUS LIQUID WASTE	LF - FLOATING/FREE PRODUCT ON GW TABLE
SAMPLE TYPE CODES	TB# - TYP BLANK	SD# - MATRIX SPIKE/DUPLICATE	FR# - FIELD BLANK	FR# - FIELD REPLICATE	RBR# - RINSE BLANK	FR# - FIELD REPLICATE	MS# - MATRIX SPIKE	MS# - MATRIX SPIKE	MS# - MATRIX SPIKE	MS# - MATRIX SPIKE	MS# - MATRIX SPIKE	MS# - MATRIX SPIKE	MS# - MATRIX SPIKE	MS# - MATRIX SPIKE	MS# - MATRIX SPIKE	MS# - MATRIX SPIKE	MS# - MATRIX SPIKE

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[Signature]	5/11/11	1435	[Signature]	5/11/11	1436
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[Signature]			[Signature]	5/12/11	9:46

SPECIAL INSTRUCTIONS
 DEC-066S (1 wk turnaround)
 Please call George Klink w/any questions 716 856 5636
 DEC-044D (1 wk turnaround)

Distribution: Original accompanies shipment, copy to coordinator field files

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REPORT NARRATIVE

Mitkem Laboratories, a Division of Spectrum Analytical, Inc.

Client : URS Corporation

Project: Klink Cosmo Meeker

Laboratory Workorder / SDG #: K0791

SW846 8260C, VOC by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8260C

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW5035

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: V10

Instrument Type: GCMS-VOA

Description: HP7890A

Manufacturer: Agilent

Model: 7890A / 5975C

GC Column used: 30 m X 0.25 mm ID [1.40 um thickness] DB-624 capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Internal Standards:

Internal standard peak areas were within the QC limits.


F. Dilutions:

No sample in this SDG required analysis at dilution.

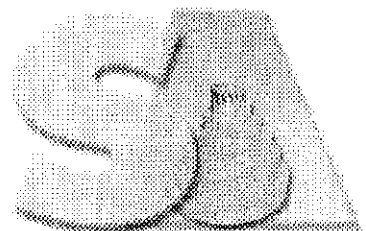
G. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Mitkem, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed:  _____

Date: 06/08/11



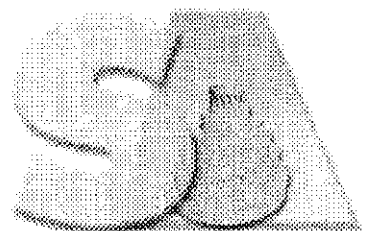
SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Data Flag/Qualifiers:

- U** Not Detected. This compound was analyzed-for but not detected. For most analyses the reporting limit (lowest standard concentration) is the value listed. For Department of Defense programs, this is the Limit of Detection (LOD).
- J** This flag indicates an estimated value due to either
- the compound was detected below the reporting limit, or
 - estimated concentration for Tentatively Identified Compound
- B** This flag indicates the compound was also detected in the associated Method Blank. The B flag has an alternative meaning for Inorganics analyses reported using CLP ILM-type metals forms, indicating a "trace" concentration below the reporting limit and equal to or above the detection limit.
- D** For Organics analysis, this flag indicates the compound concentration was obtained from a secondary dilution analysis
- E** This flag indicates the compound concentration exceeded the Calibration Range. The E flag has an alternative meaning for Inorganics analyses reported using CLP metals forms, indicating an estimated concentration due to the presence of interferences, as determined by the serial dilution analysis.
- P** This flag is used for pesticides/PCB/herbicide compound when there is a greater than 40% difference for detected concentration between the two GC columns used for primary and confirmation analyses. This difference typically indicates an interference, causing one value to be unusually high. The **lower** of the two values is generally reported on the Form 1, and both values reported on the Form 10.
- A** Used to flag semivolatile organic Tentatively Identified Compound library search results for compounds identified as aldol condensation byproducts.
- N** Used to flag results for volatile and semivolatile Organics analysis Tentatively Identified Compounds where an analyte has passed the identification criteria, and is considered to be positively identified. For Inorganics analysis the N flag indicates the matrix spike recovery falls outside of the control limit.
- *** For Inorganics analysis the * flag indicates Relative Percent Difference for duplicate analyses is outside of the control limit.



SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Sample ID Suffixes

- DL** Diluted analysis. The sample was diluted and reanalyzed. The DL may be followed by a digit if more than one diluted reanalysis is provided. The DL suffix is not attached to an analysis initially performed at dilution, only to reanalyses performed at dilution
- RE** Reanalysis. Appended to the client sample ID to indicate a reextraction and reanalysis or a reanalysis of the original sample extract.
- RA** Reanalysis. Appended to the laboratory sample ID indicates a reanalysis of the original sample extract.
- RX** Reextraction. Appended to the laboratory sample ID indicates a reextraction of the sample.
- MS** Matrix Spike.
- MSD** Matrix Spike Duplicate
- DUP** Duplicate analysis
- SD** Serial Dilution
- PS** Post-digestion or Post-distillation spike. For metals or inorganic analyses

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

MB-59105

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Lab File ID: V8A3677.D Lab Sample ID: MB-59105
Instrument ID: V10
Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 05/11/2011
Level: (TRACE or LOW/MED) LOW Time Analyzed: 15:13
GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS-59105	LCS-59105	V8A3675.D	14:24
02	SG-79 (7-8')	K0791-01A	V8A3683.D	17:38
03	SG-78 (4-5')	K0791-02A	V8A3684.D	18:03
04	SG-84 (7-8')	K0791-03A	V8A3685.D	18:27
05	SG-85 (7-8')	K0791-04A	V8A3686.D	18:51
06	SG-86 (7-8')	K0791-05A	V8A3687.D	19:15
07	SG-87 (7-8')	K0791-06A	V8A3688.D	19:40
08	SG-82 (7-8')	K0791-08A	V8A3690.D	20:28
09	SG-81 (7-8')	K0791-09A	V8A3691.D	20:53
10	SG-80 (7-8')	K0791-10A	V8A3692.D	21:17
11	DEC-030D (3.5-4.5')	K0791-11A	V8A3693.D	21:41

COMMENTS: _____

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MB-59105

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-59105
Sample wt/vol: 5.00 (g/mL) G Lab File ID: V8A3677.D
Level: (TRACE/LOW/MED) LOW Date Received: _____
% Moisture: not dec. 0.0 Date Analyzed: 05/11/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{G/KG}$	Q
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	1.1	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

6A - FORM VI VOA-1
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: MITKEM LABORATORIES Contract: _____
 Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
 Instrument ID: V10 Calibration Date(s): 05/11/2011 05/11/2011
 Heated Purge: (Y/N) Y Calibration Time(s): 10:39 12:54
 Purge Volume: 5.0 (mL)
 GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

LAB FILE ID: _____	RRF005 = V8A3668.D	RRF020 = V8A3667.D					
RRF050 = V8A3666.D	RRF100 = V8A3671.D	RRF200 = V8A3670.D					
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF	%RSD
Dichlorodifluoromethane	0.282	0.358	0.411	0.393	0.374	0.364	13.7
Chloromethane	0.288	0.225	0.258	0.262	0.244	0.255	9.1
Vinyl chloride	0.333	0.279	0.325	0.321	0.296	0.311	7.2
Bromomethane	0.237	0.198	0.229	0.234	0.225	0.224	7.0
Chloroethane	0.158	0.138	0.155	0.157	0.146	0.151	5.8
Trichlorofluoromethane	0.643	0.596	0.694	0.687	0.653	0.655	6.0
1,1-Dichloroethene	0.283	0.233	0.266	0.269	0.251	0.260	7.3
Acetone	0.030	0.019	0.020	0.024	0.023	0.023	18.1
Iodomethane	0.367	0.413	0.528	0.498	0.475	0.456	14.4
Carbon disulfide	0.929	0.892	1.043	0.952	0.893	0.942	6.6
Methylene chloride	0.275	0.220	0.247	0.248	0.234	0.245	8.3
trans-1,2-Dichloroethene	0.290	0.246	0.281	0.284	0.271	0.274	6.4
Methyl tert-butyl ether	0.759	0.711	0.828	0.735	0.700	0.746	6.8
1,1-Dichloroethane	0.528	0.451	0.508	0.497	0.466	0.490	6.4
Vinyl acetate	0.786	0.749	0.843	0.757	0.703	0.767	6.7
2-Butanone	0.031	0.028	0.030	0.033	0.031	0.031	5.9
cis-1,2-Dichloroethene	0.306	0.252	0.284	0.286	0.268	0.279	7.3
2,2-Dichloropropane	0.488	0.439	0.506	0.505	0.487	0.485	5.7
Bromochloromethane	0.140	0.119	0.132	0.134	0.126	0.130	6.2
Chloroform	0.616	0.506	0.565	0.561	0.533	0.556	7.4
1,1,1-Trichloroethane	0.546	0.482	0.557	0.555	0.531	0.534	5.8
1,1-Dichloropropene	0.141	0.128	0.144	0.144	0.135	0.138	5.1
Carbon tetrachloride	0.462	0.428	0.512	0.521	0.506	0.486	8.2
1,2-Dichloroethane	0.437	0.374	0.417	0.417	0.399	0.409	5.8
Benzene	1.123	0.933	1.037	1.037	0.968	1.020	7.2
Trichloroethene	0.308	0.262	0.295	0.295	0.280	0.288	6.1
1,2-Dichloropropane	0.280	0.242	0.264	0.264	0.245	0.259	6.0
Dibromomethane	0.189	0.164	0.182	0.181	0.173	0.178	5.6
Bromodichloromethane	0.401	0.348	0.397	0.403	0.390	0.388	5.9
cis-1,3-Dichloropropene	0.414	0.386	0.437	0.445	0.430	0.422	5.5
4-Methyl-2-pentanone	0.194	0.188	0.199	0.190	0.175	0.189	4.8
Toluene	1.171	1.026	1.164	1.185	1.116	1.132	5.7
trans-1,3-Dichloropropene	0.357	0.355	0.403	0.418	0.403	0.387	7.6
1,1,2-Trichloroethane	0.229	0.196	0.213	0.217	0.201	0.211	6.2
1,3-Dichloropropane	0.535	0.434	0.481	0.481	0.451	0.476	8.1
Tetrachloroethene	0.315	0.272	0.328	0.330	0.316	0.312	7.5
2-Hexanone	0.170	0.185	0.191	0.202	0.193	0.188	6.3
Dibromochloromethane	0.368	0.333	0.387	0.398	0.392	0.376	7.0
1,2-Dibromoethane	0.335	0.287	0.321	0.325	0.305	0.315	5.9

6B - FORM VI VOA-2
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: MITKEM LABORATORIES Contract: _____
 Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
 Instrument ID: V10 Calibration Date(s): 05/11/2011 05/11/2011
 Heated Purge: (Y/N) Y Calibration Time(s): 10:39 12:54
 Purge Volume: 5.0 (mL)
 GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

LAB FILE ID: _____	RRF005 = <u>V8A3668.D</u>	RRF020 = <u>V8A3667.D</u>					
RRF050 = <u>V8A3666.D</u>	RRF100 = <u>V8A3671.D</u>	RRF200 = <u>V8A3670.D</u>					
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF	%RSD
Chlorobenzene	1.034	0.884	1.008	1.035	0.978	0.988	6.3
1,1,1,2-Tetrachloroethane	0.379	0.332	0.384	0.394	0.382	0.374	6.5
Ethylbenzene	0.513	0.467	0.547	0.560	0.526	0.523	6.9
m,p-Xylene	0.602	0.554	0.661	0.678	0.645	0.628	8.0
o-Xylene	0.583	0.543	0.635	0.644	0.612	0.603	6.8
Xylene (Total)	0.596	0.550	0.652	0.667	0.634	0.620	7.6
Styrene	0.886	0.852	1.002	1.045	0.990	0.955	8.6
Bromoform	0.195	0.178	0.212	0.228	0.223	0.207	10.0
Isopropylbenzene	1.457	1.445	1.778	1.806	1.692	1.636	10.6
1,1,2,2-Tetrachloroethane	1.041	0.848	0.845	0.797	0.754	0.857	12.8
Bromobenzene	0.985	0.764	0.875	0.859	0.837	0.864	9.2
1,2,3-Trichloropropane	1.181	1.074	1.177	1.109	1.046	1.117	5.4
n-Propylbenzene	0.872	0.794	0.987	0.957	0.915	0.905	8.4
2-Chlorotoluene	0.955	0.780	0.937	0.895	0.861	0.886	7.8
1,3,5-Trimethylbenzene	2.918	2.690	3.316	3.208	3.070	3.040	8.1
4-Chlorotoluene	0.875	0.737	0.907	0.901	0.870	0.858	8.1
tert-Butylbenzene	2.828	2.925	3.633	3.489	3.332	3.241	10.8
1,2,4-Trimethylbenzene	2.897	2.624	3.199	3.165	3.015	2.980	7.8
sec-Butylbenzene	3.463	3.356	4.191	4.127	3.889	3.805	10.0
4-Isopropyltoluene	2.542	2.594	3.284	3.267	3.081	2.954	12.2
1,3-Dichlorobenzene	1.591	1.334	1.585	1.583	1.511	1.521	7.2
1,4-Dichlorobenzene	1.552	1.305	1.546	1.564	1.488	1.491	7.3
n-Butylbenzene	2.491	2.606	3.261	3.338	3.105	2.960	13.1
1,2-Dichlorobenzene	1.535	1.285	1.478	1.472	1.409	1.436	6.6
1,2-Dibromo-3-chloropropane	0.226	0.180	0.184	0.184	0.168	0.188	11.7
1,2,4-Trichlorobenzene	0.648	0.685	0.853	0.967	0.887	0.808	16.9
Hexachlorobutadiene	0.500	0.505	0.612	0.643	0.584	0.569	11.2
Naphthalene	1.817	1.563	1.794	2.080	1.829	1.817	10.1
1,2,3-Trichlorobenzene	0.667	0.661	0.798	0.895	0.794	0.763	13.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.289	0.310	0.375	0.337	0.318	0.326	9.9
Methyl acetate	0.153	0.135	0.150	0.138	0.122	0.140	9.1
Cyclohexane	0.352	0.377	0.467	0.405	0.372	0.395	11.3
Methylcyclohexane	0.383	0.430	0.567	0.499	0.457	0.467	14.9
1,4-Dioxane	0.003	0.003	0.003	0.003	0.002	0.003	12.4

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

CLIENT SAMPLE NO.

BFB10M

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Lab File ID: V8A3710.D BFB Injection Date: 05/12/2011
Instrument ID: V10 BFB Injection Time: 8:21
GC Column: DB-624 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.0
75	30.0 - 60.0% of mass 95	56.3
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	63.4
175	5.0 - 9.0% of mass 174	4.7 (7.5)1
176	95.0 - 101.0% of mass 174	61.9 (97.8)1
177	5.0 - 9.0% of mass 176	4.2 (6.8)2

1 - Value is % mass 174

2 - Value is % mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD05010M	VSTD05010M	V8A3711.D	05/12/2011	8:35
02	LCS-59115	LCS-59115	V8A3712.D	05/12/2011	9:08
03	LCSD-59115	LCSD-59115	V8A3713.D	05/12/2011	9:33
04	MB-59115	MB-59115	V8A3715.D	05/12/2011	10:21
05	SG-83 (7-8')	K0791-07A	V8A3716.D	05/12/2011	11:05
06	DEC-029D (75-76')	K0791-12B	V8A3717.D	05/12/2011	11:29

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: MITKEM LABORATORIES Contract: _____
 Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
 Instrument ID: V10 Calibration Date: 05/12/2011 Time: 8:35
 Lab File ID: V8A3711.D Init. Calib. Date(s): 05/11/2011 05/11/2011
 EPA Sample No. (VSTD####) VSTD05010M Init. Calib. Time(s): 10:39 12:54
 Heated Purge: (Y/N) Y GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)
 Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
1,1,1,2-Tetrachloroethane	0.374	0.377	0.010	0.6	20.0
Ethylbenzene	0.523	0.541	0.010	3.6	20.0
m,p-Xylene	0.628	0.644	0.010	2.5	20.0
o-Xylene	0.603	0.616	0.010	2.2	20.0
Xylene (Total)	0.620	0.635	0.010	2.4	20.0
Styrene	0.955	0.984	0.010	3.0	20.0
Bromoform	0.207	0.201	0.010	-3.0	20.0
Isopropylbenzene	1.636	1.671	0.300	2.1	20.0
1,1,2,2-Tetrachloroethane	0.857	0.912	0.300	6.4	20.0
Bromobenzene	0.864	0.846	0.010	-2.1	20.0
1,2,3-Trichloropropane	1.117	1.209	0.010	8.2	20.0
n-Propylbenzene	0.905	0.932	0.010	3.0	20.0
2-Chlorotoluene	0.886	0.887	0.010	0.2	20.0
1,3,5-Trimethylbenzene	3.040	3.143	0.010	3.4	20.0
4-Chlorotoluene	0.858	0.879	0.010	2.5	20.0
tert-Butylbenzene	3.241	3.335	0.010	2.9	20.0
1,2,4-Trimethylbenzene	2.980	3.033	0.010	1.8	20.0
sec-Butylbenzene	3.805	3.972	0.010	4.4	20.0
4-Isopropyltoluene	2.954	2.999	0.010	1.5	20.0
1,3-Dichlorobenzene	1.521	1.487	0.010	-2.2	20.0
1,4-Dichlorobenzene	1.491	1.432	0.010	-3.9	20.0
n-Butylbenzene	2.960	3.067	0.100	3.6	20.0
1,2-Dichlorobenzene	1.436	1.396	0.010	-2.8	20.0
1,2-Dibromo-3-chloropropane	0.188	0.180	0.010	-4.4	20.0
1,2,4-Trichlorobenzene	0.808	0.668	0.010	-17.3	20.0
Hexachlorobutadiene	0.569	0.507	0.010	-10.8	20.0
1,2,3-Trichlorobenzene	0.763	0.627	0.010	-17.8	20.0
Naphthalene	1.817	1.388	0.010	-23.6	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.326	0.348	0.010	6.8	20.0
1,4-Dioxane	0.003	0.003	0.010	8.7	20.0
Cyclohexane	0.395	0.420	0.010	6.4	20.0
Methyl acetate	0.140	0.142	0.010	1.6	20.0
Methylcyclohexane	0.467	0.461	0.010	-1.4	20.0

REPORT NARRATIVE

Mitkem Laboratories, a Division of Spectrum Analytical, Inc.

Client : URS Corporation

Project: Klink Cosmo Meeker

Laboratory Workorder / SDG #: K0791

SW846 8270D, SVOA by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8270D

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW3550

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: S3
Instrument Type: GCMS-SEMI
Description: HP6890 / HP5973
Manufacturer: Hewlett-Packard
Model: 6890 / 5973

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits with the following exceptions. Please note that the acceptance criteria allow one surrogate recovery outside of the QC limits per fraction.

LCSD-59149, recovery is above criteria for Nitrobenzene-d5 at 100% with criteria of (35-100).

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits with the following exceptions. Please note that most test procedures allow for several compounds outside of the QC limits for the LCS, although this may indicate a bias for this specific compound.

LCS-59149 in batch 59149, recovery is above criteria for 2,4-Dimethylphenol at 109% with criteria of (30-105) and Atrazine at 181% with criteria of (50-150).

LCSD-59149 in batch 59149, recovery is above criteria for 2,4-Dimethylphenol at 114% with criteria of (30-105) and Atrazine at 182% with criteria of (50-150).

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

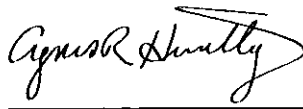
F. Dilutions:

No sample in this SDG required analysis at dilution.

G. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Mitkem, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed:  _____

Date: 06/08/11

6 - FORM VI SV-3
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA
Contract:

Lab Name: MITKEM LABORATORIES
Lab Code: MITKEM
Instrument ID: S3
Case No.: K0791
SAS No.: SK0791
Calibration Date(s): 04/18/2011
Calibration Times: 15:13
17:46
GC Column: Rxi-5sil MS
ID: 0.25 (mm)
Length: 30 (mm)

LAB FILE ID: RRF010 = S3H3262.D RRF020 = S3H3264.D RRF050 = S3H3261C.D RRF080 = S3H3265.D RRF120 = S3H3266.D											
RRF160 = S3H3263.D											
COMPOUND	RRF010	RRF020	RRF050	RRF080	RRF120	RRF160				RRF	% RSD
Benzo(k)fluoranthene	1.276	1.325	1.215	1.078	0.904	0.871				1.111	17.3
Benzo(a)pyrene	1.140	1.077	1.021	1.015	0.924	0.884				1.010	9.4
Indeno(1,2,3-cd)pyrene	1.337	1.298	1.203	1.191	1.114	1.101				1.207	7.9
Dibenzo(a,h)anthracene	1.126	1.085	1.003	0.953	0.881	0.862				0.985	10.9
Benzo(g,h,i)perylene	1.202	1.142	1.081	1.073	1.015	1.000				1.086	7.0
1,1'-Biphenyl	1.667	1.583	1.420	1.400	1.287	1.226				1.430	11.8
3-Methylphenol + 4-Methylphenol	1.545	1.483	1.518	1.586	1.560	1.693				1.564	4.6
Acetophenone	2.357	2.252	2.172	2.090	2.072	2.183				2.188	4.8
Atrazine	0.118		0.145	0.116	0.077	0.079				0.107	26.9
Benzaldehyde	0.621	1.086	0.838	0.987	0.875	0.755				0.860	19.1
Caprolactam	0.169	0.174	0.174	0.175	0.175	0.184				0.175	2.7

5B - FORM V SV
SEMIVOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

CLIENT SAMPLE NO.

DFTPP3D

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Lab File ID: S3H3760.D DFTPP Injection Date: 05/18/2011
Instrument ID: S3 DFTPP Injection Time: 11:33

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	40.5
68	Less than 2.0% of mass 69	0.5 (1.3)1
69	Mass 69 relative abundance	38.1
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	47.1
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	24.0
365	Greater than 1.0% of mass 198	3.3
441	Present, but less than mass 443	10.8
442	40.0 - 99.9% of mass 198	73.0
443	17.0 - 23.0% of mass 442	13.5 (18.5)2

1 - Value is % mass 69

2 - Value is % mass 442

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0503D	SSTD0503D	S3H3761.D	05/18/2011	11:51
02	MB-59149	MB-59149	S3H3762.D	05/18/2011	12:38
03	LCS-59149	LCS-59149	S3H3763.D	05/18/2011	12:58
04	LCSD-59149	LCSD-59149	S3H3764.D	05/18/2011	13:17
05	DEC-030D (3.5-4.5')	K0791-11A	S3H3765.D	05/18/2011	13:37
06	DEC-029D (75-76')	K0791-12A	S3H3766.D	05/18/2011	13:56

7E - FORM VII SV-1
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: MITKEM LABORATORIES Contract: _____
 Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
 Instrument ID: S3 Calibration Date: 05/18/2011 Time: 11:51
 Lab File ID: S3H3761.D Init. Calib. Date(s): 04/18/2011 04/18/2011
 EPA Sample No. (SSTD020##) SSTD0503D Init. Calib. Time(s): 15:13 17:46
 GC Column: Rxi-5sil MS ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
Phenol	1.935	1.653	0.010	-14.6	20.0
Bis(2-chloroethyl) ether	1.412	1.230	0.010	-12.9	20.0
2-Chlorophenol	1.444	1.303	0.010	-9.8	20.0
2-Methylphenol	1.413	1.200	0.010	-15.1	20.0
2,2'-oxybis(1-Chloropropane)	2.368	2.017	0.010	-14.8	20.0
N-Nitroso-di-n-propylamine	1.218	1.103	0.050	-9.5	20.0
Hexachloroethane	0.532	0.549	0.010	3.2	20.0
Nitrobenzene	0.379	0.388	0.010	2.5	20.0
Isophorone	0.756	0.735	0.010	-2.8	20.0
2-Nitrophenol	0.202	0.202	0.010	-0.3	20.0
2,4-Dimethylphenol	0.331	0.308	0.010	-7.0	20.0
2,4-Dichlorophenol	0.310	0.324	0.010	4.5	20.0
Naphthalene	0.996	0.977	0.010	-1.9	20.0
4-Chloroaniline	0.406	0.320	0.010	-21.3	20.0
Bis(2-chloroethoxy) methane	0.438	0.399	0.010	-8.9	20.0
Hexachlorobutadiene	0.157	0.188	0.010	20.1	20.0
4-Chloro-3-methylphenol	0.376	0.366	0.010	-2.6	20.0
2-Methylnaphthalene	0.734	0.730	0.010	-0.5	20.0
Hexachlorocyclopentadiene	0.180	0.152	0.050	-15.7	20.0
2,4,6-Trichlorophenol	0.343	0.347	0.010	1.2	20.0
2,4,5-Trichlorophenol	0.370	0.380	0.010	2.7	20.0
2-Chloronaphthalene	1.033	1.004	0.010	-2.8	20.0
2-Nitroaniline	0.377	0.375	0.010	-0.5	20.0
Dimethylphthalate	1.340	1.335	0.010	-0.4	20.0
Acenaphthylene	1.734	1.667	0.010	-3.8	20.0
2,6-Dinitrotoluene	0.336	0.324	0.010	-3.5	20.0
3-Nitroaniline	0.377	0.310	0.010	-17.8	20.0
Acenaphthene	1.089	1.057	0.010	-3.0	20.0
2,4-Dinitrophenol	0.201	0.168	0.050	-16.6	20.0
4-Nitrophenol	0.209	0.272	0.050	30.2	20.0
Dibenzofuran	1.556	1.523	0.010	-2.1	20.0
2,4-Dinitrotoluene	0.447	0.443	0.010	-0.8	20.0
Diethylphthalate	1.372	1.400	0.010	2.1	20.0
4-Chlorophenyl-phenylether	0.584	0.616	0.010	5.5	20.0
Fluorene	1.299	1.300	0.010	0.1	20.0
4-Nitroaniline	0.411	0.331	0.010	-19.5	20.0
4,6-Dinitro-2-methylphenol	0.160	0.144	0.010	-10.1	20.0
N-Nitrosodiphenylamine	0.654	0.599	0.010	-8.5	20.0
4-Bromophenyl-phenylether	0.194	0.190	0.010	-2.1	20.0
Hexachlorobenzene	0.202	0.199	0.010	-1.3	20.0
Pentachlorophenol	0.128	0.125	0.010	-2.5	20.0
Phenanthrene	1.127	1.039	0.010	-7.8	20.0

7F - FORM VII SV-2
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: MITKEM LABORATORIES Contract: _____

Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791

Instrument ID: S3 Calibration Date: 05/18/2011 Time: 11:51

Lab File ID: S3H3761.D Init. Calib. Date(s): 04/18/2011 04/18/2011

EPA Sample No.(SSTD020##) SSTD0503D Init. Calib. Time(s): 15:13 17:46

GC Column: Rxi-5sil MS ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
Anthracene	1.136	1.020	0.010	-10.2	20.0
Carbazole	1.143	0.982	0.010	-14.1	20.0
Di-n-butylphthalate	1.310	1.259	0.010	-3.9	20.0
Fluoranthene	1.233	1.132	0.010	-8.2	20.0
Pyrene	1.060	1.070	0.010	0.9	20.0
Butylbenzylphthalate	0.539	0.537	0.010	-0.5	20.0
3,3'-Dichlorobenzidine	0.390	0.367	0.010	-5.8	20.0
Benzo(a)anthracene	1.021	1.019	0.010	-0.2	20.0
Chrysene	1.044	0.991	0.010	-5.1	20.0
Bis(2-ethylhexyl)phthalate	0.692	0.713	0.010	3.0	20.0
Di-n-octylphthalate	1.208	1.299	0.010	7.6	20.0
Benzo(b)fluoranthene	1.060	1.075	0.010	1.4	20.0
Benzo(k)fluoranthene	1.111	1.136	0.010	2.2	20.0
Benzo(a)pyrene	1.010	1.022	0.010	1.2	20.0
Indeno(1,2,3-cd)pyrene	1.207	1.200	0.010	-0.6	20.0
Dibenzo(a,h)anthracene	0.985	0.995	0.010	1.0	20.0
Benzo(g,h,i)perylene	1.086	1.048	0.010	-3.4	20.0
1,1'-Biphenyl	1.430	1.366	0.010	-4.5	20.0
3-Methylphenol + 4-Methylphenol	1.564	1.342	0.010	-14.2	20.0
Acetophenone	2.188	2.077	0.010	-5.1	20.0
Atrazine	0.107	0.139	0.010	30.0	20.0
Benzaldehyde	0.860	0.771	0.010	-10.4	20.0
Caprolactam	0.175	0.152	0.010	-13.0	20.0

REPORT NARRATIVE

Mitkem Laboratories, a Division of Spectrum Analytical, Inc.

Client : URS Corporation

Project: Klink Cosmo Meeker

Laboratory Workorder / SDG #: K0791

SW846 8081B, Organochlorine Pesticides by GC-ECD

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8081B

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW3550

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: E5

Instrument Type: GC-ECD

Description: HP6890

Manufacturer: Hewlett-Packard

Model: 6890

GC Column used: 30 m X 0.53 mm ID [0.50 um thickness] CLPPest capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Dilutions:

No sample in this SDG required analysis at dilution.

F. Samples:

The lower concentration between the primary and confirmatory GC column concentrations is reported due to the presence of interferences unless otherwise indicated on Form 10. Both values are reported on Form 10. P flags are assigned to compounds on Form 1

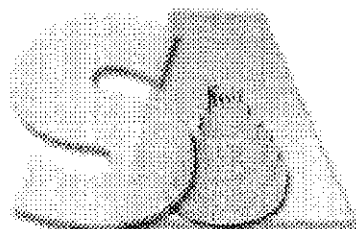
when D% between the two columns is greater than 40%.

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Mitkem, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed:  _____

Date: 06/08/11



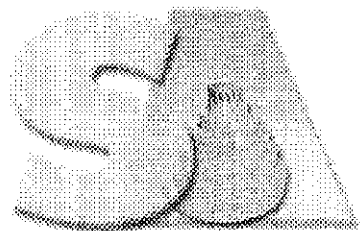
SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Data Flag/Qualifiers:

- U** Not Detected. This compound was analyzed-for but not detected. For most analyses the reporting limit (lowest standard concentration) is the value listed. For Department of Defense programs, this is the Limit of Detection (LOD).
- J** This flag indicates an estimated value due to either
- the compound was detected below the reporting limit, or
 - estimated concentration for Tentatively Identified Compound
- B** This flag indicates the compound was also detected in the associated Method Blank. The B flag has an alternative meaning for Inorganics analyses reported using CLP ILM-type metals forms, indicating a "trace" concentration below the reporting limit and equal to or above the detection limit.
- D** For Organics analysis, this flag indicates the compound concentration was obtained from a secondary dilution analysis
- E** This flag indicates the compound concentration exceeded the Calibration Range. The E flag has an alternative meaning for Inorganics analyses reported using CLP metals forms, indicating an estimated concentration due to the presence of interferences, as determined by the serial dilution analysis.
- P** This flag is used for pesticides/PCB/herbicide compound when there is a greater than 40% difference for detected concentration between the two GC columns used for primary and confirmation analyses. This difference typically indicates an interference, causing one value to be unusually high. The **lower** of the two values is generally reported on the Form 1, and both values reported on the Form 10.
- A** Used to flag semivolatile organic Tentatively Identified Compound library search results for compounds identified as aldol condensation byproducts.
- N** Used to flag results for volatile and semivolatile Organics analysis Tentatively Identified Compounds where an analyte has passed the identification criteria, and is considered to be positively identified. For Inorganics analysis the N flag indicates the matrix spike recovery falls outside of the control limit.
- *** For Inorganics analysis the * flag indicates Relative Percent Difference for duplicate analyses is outside of the control limit.



SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Sample ID Suffixes

- DL** Diluted analysis. The sample was diluted and reanalyzed. The DL may be followed by a digit if more than one diluted reanalysis is provided. The DL suffix is not attached to an analysis initially performed at dilution, only to reanalyses performed at dilution
- RE** Reanalysis. Appended to the client sample ID to indicate a reextraction and reanalysis or a reanalysis of the original sample extract.
- RA** Reanalysis. Appended to the laboratory sample ID indicates a reanalysis of the original sample extract.
- RX** Reextraction. Appended to the laboratory sample ID indicates a reextraction of the sample.
- MS** Matrix Spike.
- MSD** Matrix Spike Duplicate
- DUP** Duplicate analysis
- SD** Serial Dilution
- PS** Post-digestion or Post-distillation spike. For metals or inorganic analyses

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE NO.

DEC-030D (3.5-
4.5')

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract: _____
Lab Code: MITKEM Case No.: K0791 Mod. Ref No.: _____ SDG No.: SK0791
Lab Sample ID: K0791-11A Date(s) Analyzed: 05/13/2011 05/13/2011
Instrument ID (1): E5 Instrument ID (2): E5
GC Column(1): CLPPest ID: 0.53 (mm) GC Column(2): CLPPestII ID: 0.53 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Dieldrin	1	5.922	5.870	6.010	5.2	9.1
	2	6.886	6.835	6.975	5.7	
Endrin	1	6.216	6.127	6.267	7.0	287.7
	2	7.176	7.138	7.278	1.8	
alpha-Chlordane	1	5.514	5.465	5.605	22	33.3
	2	6.531	6.479	6.619	17	
gamma-Chlordane	1	5.378	5.324	5.464	14	37.9
	2	6.367	6.315	6.455	19	

REPORT NARRATIVE

Mitkem Laboratories, a Division of Spectrum Analytical, Inc.

Client : URS Corporation

Project: Klink Cosmo Meeker

Laboratory Workorder / SDG #: K0791

SW846 8082A, PCB by GC-ECD

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8082A

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW3550

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: E2

Instrument Type: GC-ECD

Description: HP5890 II +

Manufacturer: Hewlett-Packard

Model: 5890

GC Column used: 30 m X 0.53 mm ID [0.50 um thickness] CLPPest capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Dilutions:

No sample in this SDG required analysis at dilution.

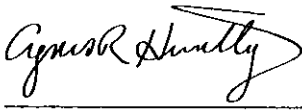
F. Samples:

The lower concentration between the primary and confirmatory GC column concentrations is reported due to the presence of interferences unless otherwise indicated on Form 10. Both values are reported on Form 10. P flags are assigned to compounds on Form 1

when D% between the two columns is greater than 40%.

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Mitkem, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed: _____

Date: 06/08/11

REPORT NARRATIVE

Mitkem Laboratories, a Division of Spectrum Analytical, Inc.

Client : URS Corporation

Project: Klink Cosmo Meeker

Laboratory Workorder / SDG #: K0791

SW846 6010C, SW846 7471B, SW846 9012B

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 6010C, SW846 7471B, SW846 9012B

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code:
SW3050A
Soil Samples were prepared following procedures in laboratory test code:
SW7471B
Soil Samples were prepared following procedures in laboratory test code:

SW9012B

V. INSTRUMENTATION

The following instrumentation was used to perform

Instrument Code: FIMS2
Instrument Type: CVAA
Description: FIMS
Manufacturer: Perkin-Elmer
Model: FIMS100

Instrument Code: LACHAT1
Instrument Type: WC
Description: Flow Injection Analyzer
Manufacturer: Zellweger Analytics
Model: Quik-Chem 8000

Instrument Code: OPTIMA3
Instrument Type: ICP
Description: Optima ICP-OES
Manufacturer: Perkin-Elmer
Model: 4300 DV

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for laboratory control samples were within the QC limits.

2. Matrix spike (MS):

Matrix spike was performed on sample: DEC-030D (3.5-4.5')
(K0791-11AMS) for Cyanide.

Percent recovery was within the QC limits.

D. Post Digestion Spike (PDS):

A post-digestion spike was not performed on any sample in this SDG.

E. Duplicate sample:

Duplicate analysis was performed on sample: DEC-030D (3.5-4.5')
(K0791-11ADUP) Cyanide.

Relative percent difference was within the QC limits.

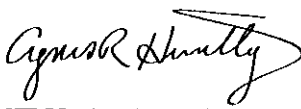
F. Serial Dilution (SD):

A serial dilution was not performed on any sample in this SDG.

G. Samples:

No unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Mitkem, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed: 

Date: 06/08/11

REPORT NARRATIVE

Mitkem Laboratories, a Division of Spectrum Analytical, Inc.

Client : URS Corporation

Project: Klink Cosmo Meeker

Laboratory Workorder / SDG #: K0791

SW846 7196A, CR+ by Colorimetric Method

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 7196A

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code:
SW846 7196A

V. INSTRUMENTATION

The following instrumentation was used to perform

Instrument Code: SPEC2

Instrument Type: SP

Description: Spectronic 20 Genesys

Manufacturer: Spectronic Instruments

Model: 4004-000

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recovery for lab control sample was within the QC limits.

2. Matrix Spike (MS):

Matrix spike was performed on samples: DEC-029D (75-76') (K0791-12AMS) and DEC-029D (75-76') (K0791-12AMSI).

Percent recovery was within the QC limits.

D. Duplicate sample:

Duplicate analysis was performed on samples: DEC-029D (75-76') (K0791-12AMS) and DEC-029D (75-76') (K0791-12AMSI).

Percent RPD was within the QC limits.

E. Dilutions:

The following samples were analyzed at dilution:

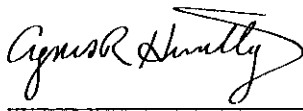
DEC-029D (75-76') (K0791-12AMSI), dilution factor: 20

DEC-029D (75-76') (K0791-12APDS), dilution factor: 2

F. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Mitkem, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed:  _____

Date: 06/08/11

REPORT NARRATIVE

Mitkem Laboratories, a Division of Spectrum Analytical, Inc.

Client : URS Corporation

Project: Klink Cosmo Meeker

Laboratory Workorder / SDG #: K0791

Subcontracted Analysis

The following analysis was performed by subcontractor laboratory:

Herbicides:

Samples were analyzed for the herbicides by Method SW846 8151. This analysis was performed at Mitkem's parent company laboratory, Spectrum Analytical of Agawam, Massachusetts. The entire Spectrum report, including any notes on these analyses is enclosed. The entire Spectrum report, including any narrative notes on these analyses is enclosed. Please note that the Spectrum report is paginated separately from the rest of the data package.

SDG28361
SB28361, SB28614 General Narrative

Spectrum Analytical, Inc. submits the enclosed data for the site characterization of subcontracted samples. Samples submitted for analysis by Mitkem Laboratories. This deliverable contains data for two soil samples submitted on May 9th and 11th, 2011.

In addition to USEPA SW846 method analytical guidelines, the analysis was performed according to criteria dictated by National Environmental Laboratory Accreditation Conference (NELAC) and within the guidelines established by the New York State Department of Environmental Conservation Technical and Administrative Guidance Memorandum (TAGM) requirements.

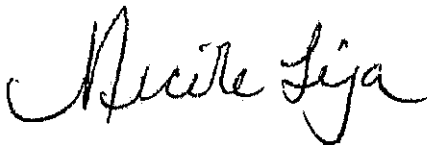
The following observations and/or deviations are observed for the following analyses:

1. Overall Observations:

All of the attached submittals are original other than logbook pages and copies of quality assurance data, which may be shared by other cases. For these, the originals are archived within the laboratory. Standard Operating Procedures follow the corresponding methods without modification.

The pages in this report have been numbered consecutively, starting with the general narrative and ending with the page labeled as "Last Page of data Report".

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this electronic data package, has been authorized by the laboratory director as verified by the following signature.



Nicole Leja
Laboratory Director

Date: 06/1/11

175 Metro Center Blvd
Warwick, RI 02886-1755
Phone : (401) 732-3400
Fax : (401) 732-3499



ADD TO BEGET TWEEDS AND BEGET IN TWILIGHT TWILIGHTS AND BEGET

CHAIN-OF-CUSTODY RECORD

WorkOrder : K0791
Report Type : ASP-B
Due Date : 5/31/2011
FAX Due Date :
Report To : Shirley S Ng
Purchase Order : K0791
EDD Type : EQUIS_4_NYSDEC

Subcontractor:
Spectrum Analytical, Inc.
11 Almgren Drive
Agawam, Massachusetts 01001
Phone: (413) 789-9018

EQUISFacilityCode: N/A

Client Sample ID	Collection Date	Matrix	DUP/MS/MSD	Mitkem Sample ID
DEC-030D(3.5-4.5)	2036-1-01	Soil	K0791-11B	X

1) SW8151 S, CHLORINATED HERBICIDES BY GC-ECD

Use 'Client Sample IDs' when reporting data. If needed, truncate 'Client Sample IDs' to fit on reports. Use full 'Client Sample ID' when generating EDD.

Comments:

Date/Time	Date/Time
05/11/11 10:19	05/11/2011
Relinquished by: <i>[Signature]</i>	Received by: <i>K. W.</i>
Relinquished by: <i>K.W.</i>	Received by: <i>Demand' sign</i>

SDG28361 Page 4 / 180



175 Metro Center Blvd
Wanwick, RI 02886-1755
Phone : (401) 732-3400
Fax : (401) 732-3499

A Division of SPECTRUM ANALYTICAL, INC. Providing Advanced Analytical Technology

Subcontractor:
Spectrum Analytical, Inc.
11 Almgren Drive
Agawam, Massachusetts 01001

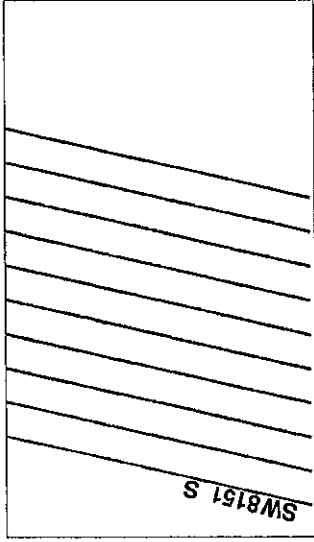
Phone: (413) 789-9018

EQUIS Facility Code: N/A

CHAIN-OF-CUSTODY RECORD

Work Order : K0791
Report Type : ASP-B
Due Date : 6/2/2011
FAX Due Date :
Report To : Shirley S Ng
Purchase Order : K0791
EDD Type : EQUIS_4_NYSDEC

Requested Test



Client Sample ID	Collection Date	Matrix	DUP/MS/MSD	Mitkem Sample ID
DEC-029D (75-76)	5/11/2011 10:00:00 AM	Soil		K0791-12C

1) SW8151_S, CHLORINATED HERBICIDES BY GC-ECD

Use 'Client Sample IDs' when reporting data. If needed, truncate 'Client Sample IDs' to fit on reports. Use full 'Client Sample ID' when generating EDD.

Comments: Please report ASP-B in 1 SDG for all samples for K0791.

Relinquished by:	Shirley Ng	Date/Time	05/17/11 10:35
Relinquished by:	Dave	Date/Time	05/17/11 4:36

2.0% 1.0% used

CASE NARRATIVE

Spectrum Analytical, Inc. Lab Reference No. SB28361, SB28614

Client: Mitkem Laboratories

Project: See Chain of Custody / K0791

SDG #: 28361

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception or a communication form is included in the addendum with this package.

II. HOLDING TIMES

All samples were prepared and analyzed within the method-specific holding time.

III. METHODS

Analyses were performed according to SW846 8151A.

IV. PREPARATION

Soil/Sediment samples were prepared according to SW846 3550B/C.

V. INSTRUMENTATION

The following equipment was used to analyze SW846 8151A:

HPS19 details: Agilent 7890 series dual column ECD GC with RTX-CLPesticide2 Column (30m, 0.53mmID, 0.42um df) & RTX-CLPesticides Column (30m, 0.53mmID, 0.5um df)

VI. ANALYSIS

A. Calibration:

All quality control samples were within the acceptance criteria with the following exceptions:

In sample S104214-CCV3:

Analyte percent difference is outside individual acceptance criteria (15), but within overall method allowances.

Dalapon (36.2%)

This affected the following samples:

1108883-BLK1, 1108883-BS1, 1108883-BSD1, 1108883-DUP1

B. Blanks:

All blanks were within the acceptance criteria.

C. Surrogates:

All method criteria were met.

D. Spikes:

1. Laboratory Control Samples (LCS):

All method criteria were met.

2. Matrix Spike / Matrix Spike Duplicate Samples (MS/MSD):

No matrix spike or matrix spike duplicates were analyzed.

E. Duplicates:

A duplicate was analyzed.

In batch 1108883 from source sample DEC-030D(3.5-4.5') (SB28361-01).

In batch 1109381 from source sample DEC-029D (75-76') (SB28614-01).

All method criteria were met.

F. Internal Standards:

Internal standards were within the acceptance criteria.

G. Samples:

All method criteria were met.

CHAIN OF CUSTODY RECORD

PROJECT NO. 11176390.00002
 SITE NAME Klnk Cosmo
 SAMPLERS (PRINT/SIGNATURE) C. Friedman / [Signature]

DELIVERY SERVICE Courier AIRBILL NO.:

LOCATION IDENTIFIER	DATE	TIME	COMPI GRAB	SAMPLE ID	MATRIX
DEC-060	5/20/11	1500	6	DEC-060D(24-25)	50
DEC-060	5/23/11	1205	6	DEC-060D(29-30)	50

TOTAL NO. OF CONTAINERS

2021 Class Jar
 802 Glass Jar

TESTS

Tell WCs + TTS
 Tell SWS + TTS
 Tell Rest + TTS
 Tell PCBs/HCB
 Tell Metals
 Tell Cyanide
 Tell Hex
 Tell Chlorom.

BOTTLE TYPE AND PRESERVATIVE

REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (RPMs ONLY)
K0910				
1	N124	25		
2	N129	30		



LAB MTHrem
 COOLER 1 of 1
 PAGE 1 of 1

MATRIX CODES	AA - AMBIENT AIR	SE - SEDIMENT	SH - HAZARDOUS SOLID WASTE	SL - SLUDGE	WP - DRINKING WATER	WW - WASTE WATER	WG - GROUND WATER	WL - LEACHATE	WS - SURFACE WATER	WO - OCEAN WATER	LH - HAZARDOUS LIQUID WASTE
SAMPLE TYPE CODES	TB# - TRIP BLANK	SD# - MATRIX SPIKE	DUPLICATE	RE# - RINSE BLANK	FR# - FIELD REPLICATE	MS# - MATRIX SPIKE	DC - DRILL CUTTINGS	WC - DRILLING WATER	WC - WATER FIELD QC	WF - FLOATING/FREE PRODUCT ON GW TABLE	

RECEIVED BY (SIGNATURE) [Signature] DATE 5/24/11 TIME 1310

RECEIVED FOR LAB BY (SIGNATURE) [Signature] DATE 5/24/11 TIME 1311

RECEIVED BY (SIGNATURE) [Signature] DATE 5/25/11 TIME 1900

RECEIVED FOR LAB BY (SIGNATURE) [Signature] DATE 5/25/11 TIME 1900

SPECIAL INSTRUCTIONS

Please call George Kisluk w/ any questions 760 856 5636

50

Distribution: Original accompanies shipment, copy to coordinator field files

REPORT NARRATIVE

Mitkem Laboratories, a Division of Spectrum Analytical, Inc.

Client : URS Corporation

Project: Klink Cosmo Meeker

Laboratory Workorder / SDG #: K0910

SW846 8260C, VOC by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8260C

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW5035

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: V10
Instrument Type: GCMS-VOA
Description: HP7890A
Manufacturer: Agilent
Model: 7890A / 5975C
GC Column used: 30 m X 0.25 mm ID [1.40 um thickness] DB-624
capillary column.

Instrument Code: V5
Instrument Type: GCMS-VOA
Description: HP6890 / HP6890
Manufacturer: Hewlett-Packard
Model: 6890 / 6890
GC Column used: 30 m X 0.25 mm ID [1.40 um thickness] DB-624
capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits with the following exceptions. Please note that most test procedures allow for several compounds outside of the QC limits for the LCS, although this may indicate a bias for this specific compound.

LCS-59410 in batch 59410, recovery is above criteria for Naphthalene at 170% with criteria of (40-125).

LCSD-59410 in batch 59410, is above criteria for Naphthalene at 143% with criteria of (40-125).

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

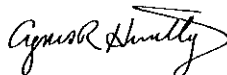
No sample in this SDG required analysis at dilution.

G. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Mitkem, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed:



Date: 06/24/11

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE RECOVERY

CLIENT SAMPLE NO.

LCS-59410

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K0910 Mod. Ref No.: _____ SDG No.: SK0910
Lab Sample ID: LCS-59410 LCS Lot No.: _____
Date Extracted: 05/26/2011 Date Analyzed (1): 05/27/2011

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Xylene (Total)	150.0000	0.0000	145.3230	97		83 - 125
Styrene	50.0000	0.0000	48.6865	97		75 - 125
Bromoform	50.0000	0.0000	51.1315	102		55 - 135
Isopropylbenzene	50.0000	0.0000	47.6893	95		75 - 130
1,1,2,2-Tetrachloroethane	50.0000	0.0000	50.8115	102		55 - 130
Bromobenzene	50.0000	0.0000	48.9660	98		65 - 120
1,2,3-Trichloropropane	50.0000	0.0000	49.9869	100		65 - 130
n-Propylbenzene	50.0000	0.0000	48.5101	97		65 - 135
2-Chlorotoluene	50.0000	0.0000	49.0642	98		70 - 130
1,3,5-Trimethylbenzene	50.0000	0.0000	48.1508	96		65 - 135
4-Chlorotoluene	50.0000	0.0000	46.5582	93		75 - 125
tert-Butylbenzene	50.0000	0.0000	48.8375	98		65 - 130
1,2,4-Trimethylbenzene	50.0000	0.0000	48.7847	98		65 - 135
sec-Butylbenzene	50.0000	0.0000	48.1609	96		65 - 130
4-Isopropyltoluene	50.0000	0.0000	48.0063	96		75 - 135
1,3-Dichlorobenzene	50.0000	0.0000	47.9906	96		70 - 125
1,4-Dichlorobenzene	50.0000	0.0000	46.5948	93		70 - 125
n-Butylbenzene	50.0000	0.0000	48.0852	96		65 - 140
1,2-Dichlorobenzene	50.0000	0.0000	49.0749	98		75 - 120
1,2-Dibromo-3-chloropropan	50.0000	0.0000	55.9386	112		40 - 135
1,2,4-Trichlorobenzene	50.0000	0.0000	48.2154	96		65 - 130
Hexachlorobutadiene	50.0000	0.0000	47.2336	94		55 - 140
1,2,3-Trichlorobenzene	50.0000	0.0000	49.0393	98		60 - 135
Naphthalene	50.0000	0.0000	84.7579	170	*	40 - 125
1,1,2-Trichloro-1,2,2-trif	50.0000	0.0000	43.9283	88		70 - 130
1,4-Dioxane	1000.0000	0.0000	1109.4430	111		70 - 130
Cyclohexane	50.0000	0.0000	44.2424	88		70 - 130
Methyl acetate	50.0000	0.0000	53.5897	107		70 - 130
Methylcyclohexane	50.0000	0.0000	42.7853	86		70 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 73 outside limits

COMMENTS:

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE DUPLICATE RECOVERY

EPA SAMPLE NO.

LCSD-59410

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM Case No.: K0910

Mod. Ref No.:

SDG No.: SK0910

Lab Sample ID: LCSD-59410

LCS Lot No.:

COMPOUND	SPIKE ADDED	LCSD CONCENTRATION	LCSD %REC	#	%RPD	QC LIMITS	
						RPD	REC.
Bromoform	50.0000	51.8049	104		2	40	55 - 135
Isopropylbenzene	50.0000	47.7136	95		0	40	75 - 130
1,1,2,2-Tetrachloroethane	50.0000	52.0528	104		2	40	55 - 130
Bromobenzene	50.0000	49.5438	99		1	40	65 - 120
1,2,3-Trichloropropane	50.0000	49.8391	100		0	40	65 - 130
n-Propylbenzene	50.0000	47.0307	94		3	40	65 - 135
2-Chlorotoluene	50.0000	47.9192	96		2	40	70 - 130
1,3,5-Trimethylbenzene	50.0000	49.0431	98		2	40	65 - 135
4-Chlorotoluene	50.0000	48.8237	98		5	40	75 - 125
tert-Butylbenzene	50.0000	48.2832	97		1	40	65 - 130
1,2,4-Trimethylbenzene	50.0000	48.3058	97		1	40	65 - 135
sec-Butylbenzene	50.0000	47.6879	95		1	40	65 - 130
4-Isopropyltoluene	50.0000	47.5539	95		1	40	75 - 135
1,3-Dichlorobenzene	50.0000	48.7194	97		1	40	70 - 125
1,4-Dichlorobenzene	50.0000	47.4391	95		2	40	70 - 125
n-Butylbenzene	50.0000	47.6705	95		1	40	65 - 140
1,2-Dichlorobenzene	50.0000	49.5374	99		1	40	75 - 120
1,2-Dibromo-3-chloropropan	50.0000	51.7820	104		7	40	40 - 135
1,2,4-Trichlorobenzene	50.0000	50.0967	100		4	40	65 - 130
Hexachlorobutadiene	50.0000	46.5740	93		1	40	55 - 140
1,2,3-Trichlorobenzene	50.0000	49.7326	99		1	40	60 - 135
Naphthalene	50.0000	71.5728	143	*	17	40	40 - 125
1,1,2-Trichloro-1,2,2-trif	50.0000	42.9137	86		2	40	70 - 130
1,4-Dioxane	1000.0000	1124.7562	112		1	40	70 - 130
Cyclohexane	50.0000	42.3583	85		3	40	70 - 130
Methyl acetate	50.0000	48.5283	97		10	40	70 - 130
Methylcyclohexane	50.0000	41.6121	83		4	40	70 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 73 outside limits

Spike Recovery: 1 out of 73 outside limits

COMMENTS:

6B - FORM VI VOA-2
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: K0842 Mod. Ref No.: _____ SDG No.: SK0842

Instrument ID: V5 Calibration Date(s): 05/27/2011 05/27/2011

Heated Purge: (Y/N) Y Calibration Time(s): 21:13 23:01

Purge Volume: 5.0 (mL)

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

LAB FILE ID: _____	RRF005 = <u>V5M8799.D</u>	RRF020 = <u>V5M8800.D</u>					
RRF050 = <u>V5M8801.D</u>	RRF100 = <u>V5M8802.D</u>	RRF200 = <u>V5M8803.D</u>					
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF	%RSD
Chlorobenzene	0.908	0.929	0.818	0.881	0.847	0.876	5.1
1,1,1,2-Tetrachloroethane	0.279	0.305	0.277	0.291	0.291	0.289	3.8
Ethylbenzene	0.467	0.513	0.438	0.476	0.443	0.468	6.4
m,p-Xylene	0.582	0.628	0.537	0.579	0.487	0.563	9.4
o-Xylene	0.559	0.581	0.517	0.568	0.507	0.546	6.0
Xylene (Total)	0.574	0.612	0.531	0.575	0.493	0.557	8.2
Styrene	0.922	1.023	0.920	0.977	0.878	0.944	6.0
Bromoform	0.141	0.165	0.169	0.178	0.181	0.167	9.4
Isopropylbenzene	1.425	1.600	1.347	1.509	1.393	1.455	6.9
1,1,2,2-Tetrachloroethane	0.851	0.923	0.889	0.877	0.797	0.868	5.4
Bromobenzene	0.705	0.768	0.682	0.737	0.675	0.713	5.5
1,2,3-Trichloropropane	0.917	0.916	0.885	0.892	0.837	0.890	3.7
n-Propylbenzene	0.795	0.920	0.766	0.854	0.768	0.820	8.0
2-Chlorotoluene	0.688	0.796	0.686	0.749	0.684	0.721	7.0
1,3,5-Trimethylbenzene	2.657	2.939	2.522	2.700	2.356	2.635	8.2
4-Chlorotoluene	0.774	0.814	0.693	0.767	0.680	0.746	7.6
tert-Butylbenzene	2.821	3.154	2.636	2.880	2.536	2.805	8.5
1,2,4-Trimethylbenzene	2.616	2.825	2.453	2.647	2.396	2.587	6.6
sec-Butylbenzene	3.845	4.178	3.498	3.847	3.364	3.746	8.6
4-Isopropyltoluene	2.630	2.841	2.446	2.686	2.360	2.593	7.4
1,3-Dichlorobenzene	1.175	1.353	1.223	1.306	1.234	1.259	5.6
1,4-Dichlorobenzene	1.365	1.444	1.284	1.354	1.238	1.337	5.9
n-Butylbenzene	3.134	3.564	3.001	3.322	2.825	3.169	9.0
1,2-Dichlorobenzene	1.118	1.257	1.123	1.168	1.053	1.144	6.6
1,2-Dibromo-3-chloropropane	0.083	0.092	0.093	0.098	0.099	0.093	6.6
1,2,4-Trichlorobenzene	0.653	0.710	0.679	0.750	0.712	0.701	5.3
Hexachlorobutadiene	0.390	0.461	0.384	0.451	0.417	0.421	8.2
1,2,3-Trichlorobenzene	0.570	0.622	0.594	0.628	0.607	0.604	3.8
Naphthalene	0.152	0.339	0.667	0.841	0.965	0.593	57.4
1,1,2-Trichloro-1,2,2-trifluoroethane	0.196	0.212	0.159	0.194	0.186	0.189	10.1
1,4-Dioxane	0.001	0.002	0.002	0.002	0.002	0.002	14.6
Cyclohexane	0.615	0.651	0.505	0.605	0.559	0.587	9.6
Methyl acetate	0.134	0.167	0.136	0.126	0.118	0.136	13.7
Methylcyclohexane	0.471	0.518	0.400	0.504	0.478	0.474	9.6

6A - FORM VI VOA-1
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: K0842 Mod. Ref No.: _____ SDG No.: SK0842
 Instrument ID: V5 Calibration Date(s): 05/27/2011 05/27/2011
 Heated Purge: (Y/N) Y Calibration Time(s): 21:13 23:01
 Purge Volume: 5.0 (mL)
 GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

LAB FILE ID: _____	RRF005 = V5M8799.D	RRF020 = V5M8800.D					
RRF050 = V5M8801.D	RRF100 = V5M8802.D	RRF200 = V5M8803.D					
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF	%RSD
Dichlorodifluoromethane	0.225	0.227	0.181	0.241	0.209	0.217	10.5
Chloromethane	0.372	0.398	0.352	0.379	0.362	0.373	4.7
Vinyl chloride	0.249	0.274	0.235	0.257	0.261	0.255	5.5
Bromomethane	0.158	0.170	0.146	0.151	0.129	0.151	10.2
Chloroethane	0.128	0.131	0.111	0.121	0.104	0.119	9.6
Trichlorofluoromethane	0.305	0.330	0.268	0.312	0.293	0.302	7.6
1,1-Dichloroethene	0.167	0.182	0.156	0.170	0.160	0.167	6.1
Acetone	0.030	0.021	0.016	0.014	0.014	(0.019)	(35.6)
Iodomethane	0.322	0.355	0.319	0.338	0.326	0.332	4.5
Carbon disulfide	0.682	0.708	0.636	0.695	0.644	0.673	4.7
Methylene chloride	0.315	0.318	0.288	0.294	0.278	0.298	5.8
trans-1,2-Dichloroethene	0.287	0.314	0.270	0.307	0.293	0.294	5.8
Methyl tert-butyl ether	0.607	0.625	0.596	0.609	0.587	0.605	2.4
1,1-Dichloroethane	0.619	0.669	0.588	0.645	0.601	0.624	5.3
Vinyl acetate	1.143	1.218	1.144	1.151	1.028	1.137	6.0
2-Butanone	0.032	0.032	0.034	0.034	0.033	(0.033)	3.1
cis-1,2-Dichloroethene	0.295	0.315	0.291	0.317	0.297	0.303	3.9
2,2-Dichloropropane	0.359	0.385	0.340	0.378	0.350	0.362	5.2
Bromochloromethane	0.115	0.123	0.118	0.124	0.119	0.120	3.0
Chloroform	0.513	0.523	0.477	0.502	0.470	0.497	4.5
1,1,1-Trichloroethane	0.347	0.372	0.326	0.362	0.350	0.351	4.9
1,1-Dichloropropene	0.122	0.135	0.121	0.132	0.124	0.127	5.0
Carbon tetrachloride	0.284	0.310	0.269	0.301	0.285	0.290	5.6
1,2-Dichloroethane	0.278	0.292	0.268	0.278	0.263	0.276	4.0
Benzene	1.189	1.271	1.123	1.186	1.077	1.169	6.3
Trichloroethene	0.232	0.262	0.228	0.257	0.240	0.244	6.2
1,2-Dichloropropane	0.356	0.362	0.339	0.342	0.319	0.343	4.9
Dibromomethane	0.150	0.164	0.155	0.158	0.150	0.156	3.9
Bromodichloromethane	0.343	0.357	0.334	0.356	0.337	0.345	3.1
cis-1,3-Dichloropropene	0.409	0.465	0.435	0.455	0.429	0.439	5.0
4-Methyl-2-pentanone	0.293	0.342	0.348	0.366	0.340	0.338	8.1
Toluene	1.069	1.134	0.982	1.050	0.958	1.039	6.8
trans-1,3-Dichloropropene	0.330	0.364	0.330	0.346	0.336	0.341	4.2
1,1,2-Trichloroethane	0.185	0.193	0.175	0.185	0.175	0.183	4.0
1,3-Dichloropropane	0.541	0.538	0.503	0.524	0.519	0.525	2.9
Tetrachloroethene	0.272	0.285	0.249	0.284	0.281	0.274	5.5
2-Hexanone	0.341	0.317	0.324	0.347	0.345	0.335	4.0
Dibromochloromethane	0.292	0.313	0.304	0.318	0.326	0.311	4.2
1,2-Dibromoethane	0.263	0.280	0.272	0.283	0.285	0.277	3.4

6A - FORM VI VOA-1
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: K0910 Mod. Ref No.: _____ SDG No.: SK0910
 Instrument ID: V10 Calibration Date(s): 05/31/2011 05/31/2011
 Heated Purge: (Y/N) Y Calibration Time(s): 10:38 13:52
 Purge Volume: 5.0 (mL)
 GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

LAB FILE ID: _____	RRF005 =	V8A3857.D	RRF020 =	V8A3856.D			
RRF050 =	V8A3855.D	RRF100 =	V8A3861.D	RRF200 =	V8A3860.D		
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF	%RSD
Dichlorodifluoromethane	0.151	0.249	0.273	0.247	0.234	0.231	20.2
Chloromethane	0.244	0.223	0.249	0.216	0.203	0.227	8.5
Vinyl chloride	0.277	0.255	0.284	0.247	0.231	0.259	8.4
Bromomethane	0.197	0.165	0.188	0.175	0.167	0.179	7.7
Chloroethane	0.136	0.117	0.133	0.119	0.112	0.124	8.6
Trichlorofluoromethane	0.470	0.532	0.591	0.532	0.526	0.530	8.0
1,1-Dichloroethene	0.257	0.236	0.256	0.232	0.227	0.242	5.8
Acetone	0.030	0.024	0.023	0.022	0.019	0.024	17.4
Iodomethane	0.325	0.375	0.438	0.406	0.376	0.384	10.9
Carbon disulfide	0.867	0.803	0.895	0.799	0.775	0.828	6.1
Methylene chloride	0.335	0.234	0.231	0.221	0.210	0.246	20.6
trans-1,2-Dichloroethene	0.283	0.249	0.276	0.253	0.249	0.262	6.3
Methyl tert-butyl ether	0.685	0.537	0.561	0.615	0.592	0.598	9.5
1,1-Dichloroethane	0.565	0.504	0.549	0.496	0.471	0.517	7.5
Vinyl acetate	0.868	0.720	0.767	0.805	0.753	0.783	7.2
2-Butanone	0.047	0.032	0.035	0.042	0.039	0.039	15.2
cis-1,2-Dichloroethene	0.315	0.275	0.296	0.277	0.262	0.285	7.2
2,2-Dichloropropane	0.449	0.436	0.491	0.435	0.433	0.449	5.5
Bromochloromethane	0.139	0.112	0.122	0.120	0.113	0.121	9.0
Chloroform	0.591	0.530	0.567	0.535	0.513	0.547	5.7
1,1,1-Trichloroethane	0.490	0.489	0.539	0.494	0.489	0.500	4.4
1,1-Dichloropropene	0.131	0.136	0.148	0.135	0.130	0.136	5.3
Carbon tetrachloride	0.387	0.420	0.484	0.439	0.451	0.436	8.3
1,2-Dichloroethane	0.425	0.356	0.374	0.381	0.365	0.380	7.0
Benzene	1.160	1.046	1.125	1.040	0.987	1.071	6.5
Trichloroethene	0.271	0.265	0.285	0.266	0.260	0.269	3.5
1,2-Dichloropropane	0.311	0.280	0.290	0.273	0.257	0.282	7.2
Dibromomethane	0.195	0.160	0.168	0.179	0.168	0.174	7.8
Bromodichloromethane	0.401	0.358	0.390	0.386	0.376	0.382	4.3
cis-1,3-Dichloropropene	0.434	0.388	0.430	0.428	0.417	0.419	4.4
4-Methyl-2-pentanone	0.281	0.216	0.223	0.306	0.287	0.263	15.4
Toluene	1.159	1.126	1.214	1.140	1.119	1.152	3.3
trans-1,3-Dichloropropene	0.402	0.324	0.376	0.394	0.384	0.376	8.2
1,1,2-Trichloroethane	0.238	0.194	0.202	0.217	0.205	0.211	8.1
1,3-Dichloropropane	0.563	0.462	0.478	0.481	0.460	0.489	8.7
Tetrachloroethene	0.246	0.294	0.312	0.283	0.288	0.284	8.5
2-Hexanone	0.288	0.209	0.228	0.304	0.286	0.263	15.9
Dibromochloromethane	0.362	0.325	0.351	0.360	0.362	0.352	4.4
1,2-Dibromoethane	0.346	0.290	0.301	0.322	0.311	0.314	6.9

6B - FORM VI VOA-2
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: K0910 Mod. Ref No.: _____ SDG No.: SK0910
 Instrument ID: V10 Calibration Date(s): 05/31/2011 05/31/2011
 Heated Purge: (Y/N) Y Calibration Time(s): 10:38 13:52
 Purge Volume: 5.0 (mL)
 GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

LAB FILE ID: _____	RRF005 = <u>V8A3857.D</u>	RRF020 = <u>V8A3856.D</u>					
RRF050 = <u>V8A3855.D</u>	RRF100 = <u>V8A3861.D</u>	RRF200 = <u>V8A3860.D</u>					
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF	%RSD
Chlorobenzene	1.005	0.980	1.046	0.955	0.956	0.988	3.9
1,1,1,2-Tetrachloroethane	0.339	0.347	0.372	0.349	0.350	0.351	3.5
Ethylbenzene	0.450	0.538	0.579	0.516	0.522	0.521	8.9
m,p-Xylene	0.520	0.655	0.698	0.629	0.641	0.629	10.5
o-Xylene	0.511	0.614	0.658	0.597	0.607	0.597	9.0
Xylene (Total)	0.517	0.642	0.684	0.618	0.630	0.618	10.0
Styrene	0.867	0.948	1.039	0.989	1.000	0.968	6.8
Bromoform	0.210	0.168	0.184	0.209	0.210	0.196	9.8
Isopropylbenzene	1.140	1.741	1.850	1.652	1.725	1.622	(17.2)
1,1,2,2-Tetrachloroethane	1.142	0.913	0.895	0.897	0.876	0.945	11.8
Bromobenzene	0.892	0.872	0.880	0.787	0.786	0.843	6.2
1,2,3-Trichloropropane	1.412	1.088	1.079	1.135	1.105	1.164	12.1
n-Propylbenzene	0.680	1.058	1.080	0.895	0.937	0.930	(17.2)
2-Chlorotoluene	0.769	1.011	0.992	0.849	0.866	0.897	11.4
1,3,5-Trimethylbenzene	2.325	3.591	3.630	3.044	3.167	3.151	(16.8)
4-Chlorotoluene	0.804	0.959	0.986	0.862	0.882	0.898	8.3
tert-Butylbenzene	2.351	3.430	3.818	3.227	3.401	3.245	(16.8)
1,2,4-Trimethylbenzene	2.336	3.456	3.518	3.012	3.111	3.086	15.3
sec-Butylbenzene	2.601	4.775	4.805	3.946	4.168	4.059	(22.1)
4-Isopropyltoluene	1.972	3.473	3.552	2.993	3.214	3.041	(20.9)
1,3-Dichlorobenzene	1.503	1.651	1.639	1.487	1.514	1.559	5.1
1,4-Dichlorobenzene	1.619	1.620	1.600	1.485	1.499	1.565	4.3
n-Butylbenzene	2.275	3.745	3.907	3.312	3.475	3.343	(19.1)
1,2-Dichlorobenzene	1.493	1.537	1.508	1.388	1.403	1.466	4.5
1,2-Dibromo-3-chloropropane	0.231	0.162	0.158	0.189	0.179	0.184	(15.9)
1,2,4-Trichlorobenzene	0.909	0.779	0.772	0.865	0.850	0.835	7.0
Hexachlorobutadiene	0.406	0.594	0.581	0.529	0.553	0.533	14.1
1,2,3-Trichlorobenzene	0.933	0.744	0.714	0.797	0.771	0.792	10.7
Naphthalene	3.016	1.724	1.520	2.179	1.984	2.085	(27.7)
1,1,2-Trichloro-1,2,2-trifluoroethane	0.217	0.298	0.324	0.295	0.292	0.285	14.1
1,4-Dioxane	0.003	0.002	0.002	0.003	0.003	0.002	(21.3)
Cyclohexane	0.295	0.427	0.459	0.407	0.402	0.398	15.5
Methyl acetate	0.148	0.097	0.094	0.119	0.111	0.114	(19.0)
Methylcyclohexane	0.254	0.477	0.515	0.456	0.463	0.433	(23.7)

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

CLIENT SAMPLE NO.

BFB10T

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K0910 Mod. Ref No.: _____ SDG No.: SK0910
Lab File ID: V8A3863.D BFB Injection Date: 05/31/2011
Instrument ID: V10 BFB Injection Time: 14:56
GC Column: DB-624 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.4
75	30.0 - 60.0% of mass 95	52.9
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	66.1
175	5.0 - 9.0% of mass 174	5.1 (7.7)1
176	95.0 - 101.0% of mass 174	63.5 (96.1)1
177	5.0 - 9.0% of mass 176	4.1 (6.5)2

1 - Value is % mass 174

2 - Value is % mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD05010T	VSTD05010T	V8A3864.D	05/31/2011	15:11
02	LCS-59490	LCS-59490	V8A3865.D	05/31/2011	15:36
03	LCSD-59490	LCSD-59490	V8A3866.D	05/31/2011	16:01
04	MB-59490	MB-59490	V8A3868.D	05/31/2011	16:51
05	DEC-065D(9-10')	K0910-03B	V8A3871.D	05/31/2011	18:07
06	DEC-065D(14-15')	K0910-04B	V8A3872.D	05/31/2011	18:32

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: K0910 Mod. Ref No.: _____ SDG No.: SK0910
 Instrument ID: V10 Calibration Date: 05/31/2011 Time: 15:11
 Lab File ID: V8A3864.D Init. Calib. Date(s): 05/31/2011 05/31/2011
 EPA Sample No. (VSTD####): VSTD05010T Init. Calib. Time(s): 10:38 13:52
 Heated Purge: (Y/N) Y GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)
 Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.231	0.246	0.100	6.4	20.0
Chloromethane	0.227	0.221	0.010	-2.7	20.0
Vinyl chloride	0.259	0.244	0.010	-5.5	20.0
Bromomethane	0.179	0.169	0.010	-5.2	20.0
Chloroethane	0.124	0.117	0.010	-5.0	20.0
Trichlorofluoromethane	0.530	0.525	0.010	-1.0	20.0
1,1-Dichloroethene	0.242	0.234	0.100	-3.3	20.0
Acetone	0.024	0.020	0.010	-15.3	20.0
Iodomethane	0.384	0.406	0.010	5.8	20.0
Carbon disulfide	0.828	0.802	0.010	-3.1	20.0
Methylene chloride	0.246	0.216	0.010	-12.3	20.0
trans-1,2-Dichloroethene	0.262	0.260	0.010	-0.6	20.0
Methyl tert-butyl ether	0.598	0.558	0.010	-6.6	20.0
1,1-Dichloroethane	0.517	0.508	0.010	-1.7	20.0
Vinyl acetate	0.783	0.767	0.010	-2.0	20.0
2-Butanone	0.039	0.037	0.010	-6.2	20.0
cis-1,2-Dichloroethene	0.285	0.286	0.010	0.5	20.0
2,2-Dichloropropane	0.449	0.455	0.010	1.4	20.0
Bromochloromethane	0.121	0.119	0.010	-1.9	20.0
Chloroform	0.547	0.545	0.010	-0.4	20.0
1,1,1-Trichloroethane	0.500	0.492	0.010	-1.8	20.0
1,1-Dichloropropene	0.136	0.137	0.010	0.5	20.0
Carbon tetrachloride	0.436	0.425	0.010	-2.6	20.0
1,2-Dichloroethane	0.380	0.360	0.010	-5.3	20.0
Benzene	1.071	1.059	0.010	-1.2	20.0
Trichloroethene	0.269	0.268	0.010	-0.4	20.0
1,2-Dichloropropane	0.282	0.277	0.010	-1.9	20.0
Dibromomethane	0.174	0.167	0.010	-3.9	20.0
Bromodichloromethane	0.382	0.373	0.010	-2.5	20.0
cis-1,3-Dichloropropene	0.419	0.415	0.010	-1.1	20.0
4-Methyl-2-pentanone	0.263	0.242	0.010	-7.7	20.0
Toluene	1.152	1.126	0.010	-2.2	20.0
trans-1,3-Dichloropropene	0.376	0.369	0.010	-1.8	20.0
1,1,2-Trichloroethane	0.211	0.204	0.010	-3.4	20.0
1,3-Dichloropropane	0.489	0.462	0.010	-5.5	20.0
Tetrachloroethene	0.284	0.270	0.010	-5.0	20.0
2-Hexanone	0.263	0.243	0.010	-7.6	20.0
Dibromochloromethane	0.352	0.336	0.010	-4.7	20.0
1,2-Dibromoethane	0.314	0.297	0.010	-5.4	20.0
Chlorobenzene	0.988	0.960	0.010	-2.9	20.0

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: K0910 Mod. Ref No.: _____ SDG No.: SK0910

Instrument ID: V10 Calibration Date: 05/31/2011 Time: 15:11

Lab File ID: V8A3864.D Init. Calib. Date(s): 05/31/2011 05/31/2011

EPA Sample No. (VSTD####) VSTD05010T Init. Calib. Time(s): 10:38 13:52

Heated Purge: (Y/N) Y GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
1,1,1,2-Tetrachloroethane	0.351	0.337	0.010	-4.1	20.0
Ethylbenzene	0.521	0.505	0.010	-3.0	20.0
m,p-Xylene	0.629	0.610	0.010	-3.0	20.0
o-Xylene	0.597	0.580	0.010	-2.9	20.0
Xylene (Total)	0.618	0.600	0.010	-3.0	20.0
Styrene	0.968	0.959	0.010	-1.0	20.0
Bromoform	0.196	0.177	0.010	-9.9	20.0
Isopropylbenzene	1.622	1.550	0.300	-4.4	20.0
1,1,2,2-Tetrachloroethane	0.945	0.833	0.300	-11.8	20.0
Bromobenzene	0.843	0.777	0.010	-7.9	20.0
1,2,3-Trichloropropane	1.164	1.009	0.010	-13.3	20.0
n-Propylbenzene	0.930	0.868	0.010	-6.7	20.0
2-Chlorotoluene	0.897	0.818	0.010	-8.8	20.0
1,3,5-Trimethylbenzene	3.151	2.933	0.010	-6.9	20.0
4-Chlorotoluene	0.898	0.823	0.010	-8.4	20.0
tert-Butylbenzene	3.245	3.093	0.010	-4.7	20.0
1,2,4-Trimethylbenzene	3.086	2.895	0.010	-6.2	20.0
sec-Butylbenzene	4.059	3.874	0.010	-4.6	20.0
4-Isopropyltoluene	3.041	2.921	0.010	-3.9	20.0
1,3-Dichlorobenzene	1.559	1.424	0.010	-8.7	20.0
1,4-Dichlorobenzene	1.565	1.418	0.010	-9.4	20.0
n-Butylbenzene	3.343	3.212	0.100	-3.9	20.0
1,2-Dichlorobenzene	1.466	1.335	0.010	-8.9	20.0
1,2-Dibromo-3-chloropropane	0.184	0.146	0.010	(-20.7)	20.0
1,2,4-Trichlorobenzene	0.835	0.719	0.010	-13.9	20.0
Hexachlorobutadiene	0.533	0.525	0.010	-1.4	20.0
1,2,3-Trichlorobenzene	0.792	0.663	0.010	-16.2	20.0
Naphthalene	2.085	1.636	0.010	(-21.5)	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.285	0.278	0.010	-2.3	20.0
1,4-Dioxane	0.002	(0.002)	0.010	-8.9	20.0
Cyclohexane	0.398	0.386	0.010	-3.0	20.0
Methyl acetate	0.114	0.092	0.010	-18.8	20.0
Methylcyclohexane	0.433	0.417	0.010	-3.7	20.0

REPORT NARRATIVE

Mitkem Laboratories, a Division of Spectrum Analytical, Inc.

Client : URS Corporation

Project: Klink Cosmo Meeker

Laboratory Workorder / SDG #: K0910

SW846 8270D, SVOA by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8270D

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW3550

V. INSTRUMENTATION

The following instrumentation was used
Instrument Code: S3
Instrument Type: GCMS-SEMI
Description: HP6890 / HP5973
Manufacturer: Hewlett-Packard
Model: 6890 / 5973

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits with the following exceptions. Please note that most test procedures allow for several compounds outside of the QC limits for the LCS, although this may indicate a bias for this specific compound.

LCS-59526 in batch 59526, recovery is above criteria for 2-Methylnaphthalene at 108% with criteria of (45-105).

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

No sample in this SDG required analysis at dilution.

G. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Mitkem, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed:

A handwritten signature in cursive script, appearing to read "Agnes R. Huntley".

Date: 06/24/11

5B - FORM V SV
SEMIVOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

CLIENT SAMPLE NO.

DFTPP3P

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K0910 Mod. Ref No.: _____ SDG No.: SK0910
Lab File ID: S3H4090.D DFTPP Injection Date: 06/06/2011
Instrument ID: S3 DFTPP Injection Time: 11:58

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	46.4
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	44.2
70	Less than 2.0% of mass 69	0.4 (0.9)1
127	40.0 - 60.0% of mass 198	50.5
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	26.2
365	Greater than 1.0% of mass 198	3.3
441	Present, but less than mass 443	12.3
442	40.0 - 99.9% of mass 198	83.4
443	17.0 - 23.0% of mass 442	15.9 (19.1)2

1 - Value is % mass 69

2 - Value is % mass 442

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0253P	SSTD0253P	S3H4091.D	06/06/2011	12:23
02	MB-59526	MB-59526	S3H4105.D	06/06/2011	17:01
03	LCSD-59526	LCSD-59526	S3H4107.D	06/06/2011	17:36
04	DEC-066D (24-25)	K0910-01A	S3H4108.D	06/06/2011	18:11
05	DEC-065D(9-1 0')	K0910-03A	S3H4109.D	06/06/2011	18:29
06	DEC-065D(14- 15')	K0910-04A	S3H4110.D	06/06/2011	18:46

7E - FORM VII SV-1
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC.	Contract:
Lab Code: MITKEM Case No.: K0910	Mod. Ref No.: SDG No.: SK0910
Instrument ID: S3	Calibration Date: 06/06/2011 Time: 12:23
Lab File ID: S3H4091.D	Init. Calib. Date(s): 05/19/2011 05/19/2011
EPA Sample No. (SSTD020##) SSTD0253P	Init. Calib. Time(s): 12:17 14:08
GC Column: Rxi-5sil MS ID: 0.25 (mm)	

COMPOUND	RRF	RRF025	MIN RRF	%D	MAX %D
Phenol	1.838	1.657	0.010	-9.9	20.0
Bis(2-chloroethyl) ether	1.376	1.174	0.010	-14.7	20.0
2-Chlorophenol	1.444	1.362	0.010	-5.7	20.0
2-Methylphenol	1.383	1.295	0.010	-6.3	20.0
2,2'-oxybis(1-Chloropropane)	2.261	1.989	0.010	-12.0	20.0
N-Nitroso-di-n-propylamine	1.245	1.180	0.050	-5.2	20.0
Hexachloroethane	0.583	0.633	0.010	8.7	20.0
Nitrobenzene	0.417	0.527	0.010	26.3	20.0
Isophorone	0.760	0.739	0.010	-2.8	20.0
2-Nitrophenol	0.213	0.185	0.010	-12.9	20.0
2,4-Dimethylphenol	0.405	0.344	0.010	-15.2	20.0
2,4-Dichlorophenol	0.340	0.315	0.010	-7.4	20.0
Naphthalene	1.042	1.010	0.010	-3.1	20.0
4-Chloroaniline	0.455	0.414	0.010	-9.0	20.0
Bis(2-chloroethoxy) methane	0.428	0.385	0.010	-9.9	20.0
Hexachlorobutadiene	0.202	0.214	0.010	5.8	20.0
4-Chloro-3-methylphenol	0.396	0.397	0.010	0.3	20.0
2-Methylnaphthalene	0.794	1.040	0.010	31.0	20.0
Hexachlorocyclopentadiene	0.300	0.324	0.050	8.1	20.0
2,4,6-Trichlorophenol	0.387	0.374	0.010	-3.3	20.0
2,4,5-Trichlorophenol	0.417	0.414	0.010	-0.9	20.0
2-Chloronaphthalene	1.114	1.118	0.010	0.3	20.0
2-Nitroaniline	0.429	0.408	0.010	-5.0	20.0
Dimethylphthalate	1.479	1.468	0.010	-0.7	20.0
Acenaphthylene	1.848	1.840	0.010	-0.4	20.0
2,6-Dinitrotoluene	0.358	0.324	0.010	-9.6	20.0
3-Nitroaniline	0.363	0.319	0.010	-12.4	20.0
Acenaphthene	1.168	1.166	0.010	-0.2	20.0
2,4-Dinitrophenol	0.219	0.171	0.050	-21.8	20.0
4-Nitrophenol	0.307	0.345	0.050	12.3	20.0
Dibenzofuran	1.687	1.643	0.010	-2.6	20.0
2,4-Dinitrotoluene	0.497	0.420	0.010	-15.5	20.0
Diethylphthalate	1.567	1.583	0.010	1.0	20.0
4-Chlorophenyl-phenylether	0.679	0.672	0.010	-1.0	20.0
Fluorene	1.462	1.514	0.010	3.6	20.0
4-Nitroaniline	0.414	0.331	0.010	-20.2	20.0
4,6-Dinitro-2-methylphenol	0.168	0.154	0.010	-8.6	20.0
N-Nitrosodiphenylamine	0.660	0.641	0.010	-3.0	20.0
4-Bromophenyl-phenylether	0.207	0.196	0.010	-5.4	20.0
Hexachlorobenzene	0.218	0.243	0.010	11.7	20.0
Pentachlorophenol	0.155	0.159	0.010	2.7	20.0
Phenanthrene	1.137	1.135	0.010	-0.2	20.0

4C - FORM IV SV
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

MB-59526

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K0910 Mod. Ref No.: _____ SDG No.: SK0910
Lab File ID: S3H4105.D Lab Sample ID: MB-59526
Instrument ID: S3 Date Extracted: 06/02/2011
Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 06/06/2011
Level: (LOW/MED) LOW Time Analyzed: 17:01
Extraction: (Type) SONC GPC Cleanup: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	LCSD-59526	LCSD-59526	S3H4107.D	06/06/2011
02	DEC-066D (24-25)	K0910-01A	S3H4108.D	06/06/2011
03	DEC-065D (9- 10')	K0910-03A	S3H4109.D	06/06/2011
04	DEC-065D (14- 15')	K0910-04A	S3H4110.D	06/06/2011
05	LCS-59526	LCS-59526	S3H4143.D	06/07/2011

COMMENTS: _____

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MB-59526

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: K0910 Mod. Ref No.: _____ SDG No.: SK0910
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-59526
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3H4105.D
 Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
 % Moisture: _____ Decanted: (Y/N) _____ Date Received: _____
 Concentrated Extract Volume: 500 (uL) Date Extracted: 06/02/2011
 Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 06/06/2011
 GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	295-17-0	Cyclotetradecane	6.416	150	NJ
02	57-10-3	n-Hexadecanoic acid	6.672	190	NJ
03	111-02-4	2,6,10,14,18,22-Tetracosahex	9.012	240	NJ

²EPA-designated Registry Number.

REPORT NARRATIVE

Mitkem Laboratories, a Division of Spectrum Analytical, Inc.

Client : URS Corporation

Project: Klink Cosmo Meeker

Laboratory Workorder / SDG #: K0910

SW846 8081B, Organochlorine Pesticides by GC-ECD

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8081B

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW3550

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: E5

Instrument Type: GC-ECD

Description: HP6890

Manufacturer: Hewlett-Packard

Model: 6890

GC Column used: 30 m X 0.53 mm ID [0.50 um thickness] CLPPest capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Dilutions:

No sample in this SDG required analysis at dilution.

F. Samples:

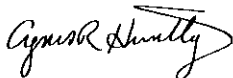
The lower concentration between the primary and confirmatory GC column concentrations is reported due to the presence of interferences unless otherwise indicated on Form 10. Both values are reported on Form 10. P flags are assigned to compounds on Form 1

when D% between the two columns is greater than 40%.

No unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Mitkem, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed:

A handwritten signature in cursive script, appearing to read "Cynthia R. Shively".

Date: 06/24/11

REPORT NARRATIVE

Mitkem Laboratories, a Division of Spectrum Analytical, Inc.

Client : URS Corporation

Project: Klink Cosmo Meeker

Laboratory Workorder / SDG #: K0910

SW846 8082A, PCB by GC-ECD

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8082A

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW3550

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: E2

Instrument Type: GC-ECD

Description: HP5890 II +

Manufacturer: Hewlett-Packard

Model: 5890

GC Column used: 30 m X 0.53 mm ID [0.50 um thickness] CLPPest capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control sample were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Dilutions:

No sample in this SDG required analysis at dilution.

F. Samples:

The lower concentration between the primary and confirmatory GC column concentrations is reported due to the presence of interferences unless otherwise indicated on Form 10. Both values are reported on Form 10. P flags are assigned to compounds on Form 1 when D% between the two columns is greater than 40%.

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Mitkem, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed: 

Date: 06/24/11

REPORT NARRATIVE

Mitkem Laboratories, a Division of Spectrum Analytical, Inc.

Client : URS Corporation

Project: Klink Cosmo Meeker

Laboratory Workorder / SDG #: K0910

SW846 6010C, SW846 7471B, SW846 9012B

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 6010C, SW846 7471B, SW846 9012B

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW3050B

Soil Samples were prepared following procedures in laboratory test code: SW7471B

Soil Samples were prepared following procedures in laboratory test

code: 9012B

V. INSTRUMENTATION

The following instrumentation was used to perform

Instrument Code: FIMS1
Instrument Type: CVAA
Description: FIMS
Manufacturer: Perkin-Elmer
Model: FIMS

Instrument Code: LACHAT1
Instrument Type: WC
Description: Flow Injection Analyzer
Manufacturer: Zellweger Analytics
Model: Quik-Chem 8000

Instrument Code: OPTIMA3
Instrument Type: ICP
Description: Optima ICP-OES
Manufacturer: Perkin-Elmer
Model: 4300 DV

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for laboratory control samples were within the QC limits.

2. Matrix spike (MS):

A matrix spike was not performed on any sample in this SDG.

D. Post Digestion Spike (PDS):

A post-digestion spike was not performed on any sample in this SDG.

E. Duplicate sample:

A duplicate analysis was not performed on any sample in this SDG.

F. Serial Dilution (SD):

A serial dilution was not performed on any sample in this SDG.

G. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Mitkem, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed:



Date: 06/24/11

REPORT NARRATIVE

Mitkem Laboratories, a Division of Spectrum Analytical, Inc.

Client : URS Corporation

Project: Klink Cosmo Meeker

Laboratory Workorder / SDG #: K0910

SW846 7196A, CR+ by Colorimetric Method

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 7196A

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code:
SW846 7196A

V. INSTRUMENTATION

The following instrumentation was used to perform

Instrument Code: SPEC2

Instrument Type: SP

Description: Spectronic 20 Genesys

Manufacturer: Spectronic Instruments

Model: 4004-000

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recovery for lab control sample was within the QC limits.

2. Matrix Spike (MS):

Matrix spike was performed on samples: DEC-065D(14-15') (K0910-04AMS) and DEC-065D(14-15') (K0910-04AMSI).

Percent recovery was within the QC limits.

D. Duplicate sample:

Duplicate analysis was performed on sample: DEC-065D(14-15') (K0910-04ADUP).

Percent RPD was within the QC limits.

E. Dilutions:

The following samples were analyzed at dilution:

DEC-065D(14-15') (K0910-04AMSI), dilution factor: 20 for Chromium, Hexavalent

DEC-065D(14-15') (K0910-04APDS), dilution factor: 2 for Chromium,

Hexavalent

F. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Mitkem, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed:

A handwritten signature in cursive script, appearing to read "Agnes R. Shetty".

Date: 06/24/11

SDG26615
SB26615, SB26754, SB26803 General Narrative

Spectrum Analytical, Inc. submits the enclosed data for the site characterization of subcontracted samples. Samples submitted for analysis by Mitkem Laboratories. This deliverable contains data for two soil samples submitted on May 24th and 27th, 2011.

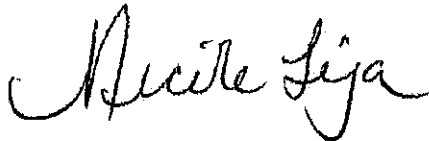
In addition to USEPA SW846 method analytical guidelines, the analysis was performed according to criteria dictated by National Environmental Laboratory Accreditation Conference (NELAC) and within the guidelines established by the New York State Department of Environmental Conservation Technical and Administrative Guidance Memorandum (TAGM) requirements.

1. Overall Observations:

All of the attached submittals are original other than logbook pages and copies of quality assurance data, which may be shared by other cases. For these, the originals are archived within the laboratory. Standard Operating Procedures follow the corresponding methods without modification.

The pages in this report have been numbered consecutively, starting with the general narrative and ending with the page labeled as "Last Page of data Report".

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this electronic data package, has been authorized by the laboratory director as verified by the following signature.



Date: 6/21/11

Nicole Leja
Laboratory Director



175 Metro Center Blvd
Warwick, RI 02886-1755
Phone : (401) 732-3400
Fax : (401) 732-3499

A Division of Spectrum Analytical, Inc. FARMINGDALE, NEW YORK

Subcontractor:
Spectrum Analytical, Inc.
11 Almgren Drive
Agawam, Massachusetts 01001

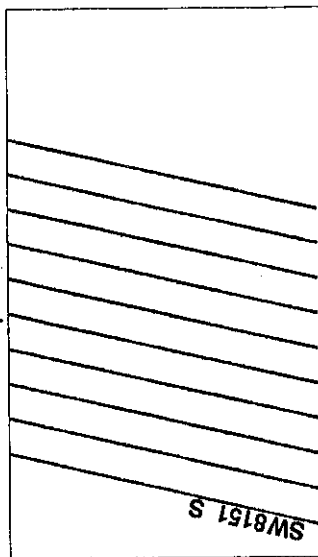
Phone: (413) 789-9018

EQUIIS Facility Code: N/A

CHAIN-OF-CUSTODY RECORD

WorkOrder : K0910
Report Type : ASP-B
Due Date : 6/17/2011
FAX Due Date :
Report To : Shirley S Ng
Purchase Order : K0910
EDD Type : EQUIIS_4_NYSDEC

Requested Test



Client Sample ID	Collection Date	Matrix	DUP/MS/MSD	Mitkem Sample ID
DEC-065D(9-10')	5/24/2011 1:00:00 PM	Soil		K0910-03C
DEC-065D(14-15')	5/24/2011 1:40:00 PM	Soil		K0910-04C

1) SW8151_S, CHLORINATED HERBICIDES BY GC-ECD

Use 'Client Sample IDs' when reporting data. If needed, truncate 'Client Sample IDs' to fit on reports. Use full 'Client Sample ID' when generating EDD.

Comments: report these 2 samples in 1 SDG with K0910-01 for level 4 report.

Relinquished by:	<i>Shirley Ng</i>	Date/Time	05/31/11 10:00
Relinquished by:	<i>Dean</i>	Date/Time	5/29/11 3:05

Received by: *Dean*
Received by: *Shirley Ng*

2.32 1.02

CASE NARRATIVE

Spectrum Analytical, Inc. Lab Reference No. SB29135, SB29247

Client: Mitkem Laboratories

Project: See Chain of Custody / K0910

SDG #: 29135

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception or a communication form is included in the addendum with this package.

II. HOLDING TIMES

All samples were prepared and analyzed within the method-specific holding time.

III. METHODS

Analyses were performed according to SW846 8151A.

IV. PREPARATION

Soil/Sediment samples were prepared according to SW846 3545A.

V. INSTRUMENTATION

The following equipment was used to analyze SW846 8151A:

HPS19 details: Agilent 7890 series dual column ECD GC with RTX-CLPesticide2 Column (30m, 0.53mmID, 0.42um df) & RTX-CLPesticides Column (30m, 0.53mmID, 0.5um df)

VI. ANALYSIS

A. Calibration:

All quality control samples were within the acceptance criteria with the following exceptions:

In sample S104910-CCV2:

Analyte percent difference is outside individual acceptance criteria (15), but within overall method allowances.

MCPA (43.3%)

MCPB (37.6%)

This affected the following samples:

1110394-BLK1, 1110394-BS2, 1110394-BSD2, DEC-065D (14-15'), DEC-065D (9-10')

In sample S104910-CCV4:

Analyte percent difference is outside individual acceptance criteria (15), but within overall method allowances.

MCPA (52.6%)

MCPB (52.5%)

This affected the following samples:

1110394-BLK1, 1110394-BS2, 1110394-BSD2, DEC-065D (14-15'), DEC-065D (9-10')

B. Blanks:

All blanks were within the acceptance criteria.

C. Surrogates:

All method criteria were met.

D. Spikes:

1. Laboratory Control Samples (LCS):

All method criteria were met.

2. Matrix Spike / Matrix Spike Duplicate Samples (MS/MSD):

No matrix spike or matrix spike duplicates were analyzed.

E. Duplicates:

No client requested duplicate. However, the method criteria may have been fulfilled with non-SDG source samples.

F. Internal Standards:

Internal standards were within the acceptance criteria with the following exceptions:

1-Bromo-2-Nitrobenzene [2C] in batch 1110394, samples DEC-065D (14-15') (SB29247-02), DEC-065D (9-10') (SB29247-01): Internal standard out due to matrix interference

G. Samples:

All method criteria were met with the following exceptions:

1-Bromo-2-Nitrobenzene [2C] in batch 1110394, samples DEC-065D (14-15') (SB29247-02), DEC-065D (9-10') (SB29247-01): Internal standard out due to matrix interference

MCPA in batch 1110394, samples DEC-065D (14-15') (SB29247-02), DEC-065D (9-10') (SB29247-01): MCPA failed high in related CCV. However, there was no reportable concentration in the sample.

MCPB in batch 1110394, samples DEC-065D (14-15') (SB29247-02), DEC-065D (9-10') (SB29247-01): MCPB failed high in related CCV. However, there was no reportable concentration in the sample.

FORM VII - CONTINUING CALIBRATION CHECK

SW846 8151A

Laboratory: Spectrum Analytical, Inc. - Agawam, MA

SDG: 29135

Client: Mitkem Laboratories

Project: See Chain of Custody

Instrument ID: HPS19

Calibration: 1105036

Lab File ID: C4190603.D

Calibration Date: 05/06/11 14:32

Sequence: S104910

Injection Date: 06/03/11

Lab Sample ID: S104910-CCV4

Injection Time: 12:53

Spike ID: 11E0071

COMPOUND	TYPE	CONC. (µg/ml)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
MCPA	A	10.0	15.3	6.187842E-04	9.440287E-04		52.6	15 *
MCPA [2C]	A	10.0	9.90	4.372715E-04	4.316042E-04		-1.3	15
MCPB	A	10.0	15.3	9.811836E-04	1.496386E-03		52.5	15 *
MCPB [2C]	A	10.0	10.7	7.5245E-04	8.061445E-04		7.1	15
MCPD	A	10.0	9.60	1.424798E-03	1.36751E-03		-4.0	15
MCPD [2C]	A	10.0	10.2	1.458465E-03	1.48884E-03		2.1	15

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Individual peaks for multi-component analytes are indicated by a number in parentheses

CHAIN OF CUSTODY RECORD

PROJECT NO.

11176390.0002

SITE NAME

KLINE CORP

SAMPLERS (PRINT/SIGNATURE)

S. M. ... C. ...

DELIVERY SERVICE: Lab Services AIRBILL NO.:

LOCATION IDENTIFIER

DATE

TIME

COMPI/GRAB

SAMPLE ID

MATRIX

TOTAL NO. OF CONTAINERS

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RECEIVED FOR LAB BY (SIGNATURE)

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Distribution: Original accompanies shipment, copy to coordinator field files

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PAGE 1 of 1

REMARKS

K0842

03

DEPTH (IN FEET) BEGINNING

DEPTH (IN FEET) ENDING

FIELD LOT NO. #

SAMPLE TYPE

WC - OCEAN WATER

WS - SURFACE WATER

WL - LEACHATE

GS - SOIL GAS

WC - DRILLING WATER

WG - GROUND WATER

SO - SOIL

DC - DRILL CUTTINGS

LH - HAZARDOUS LIQUID WASTE

LF - FLOATING/FREE PRODUCT ON GW TABLE

SPECIAL INSTRUCTIONS

3.8°C

(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RECEIVED BY (SIGNATURE)

DATE

TIME

RECEIVED FOR LAB BY (SIGNATURE)

DATE

TIME

RECEIVED FOR LAB BY (SIGNATURE)

DATE

TIME

RECEIVED FOR LAB BY (SIGNATURE)

DATE

5/23/11 9:15

22W25

Real And

REPORT NARRATIVE

Mitkem Laboratories, a Division of Spectrum Analytical, Inc.

Client : URS Corporation

Project: Klink Cosmo Meeker

Laboratory Workorder / SDG #: K0842

SW846 8260C, VOC by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8260C

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW5035

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: V10
Instrument Type: GCMS-VOA
Description: HP7890A
Manufacturer: Agilent
Model: 7890A / 5975C
GC Column used: 30 m X 0.25 mm ID [1.40 um thickness] DB-624
capillary column.

Instrument Code: V5
Instrument Type: GCMS-VOA
Description: HP6890 / HP6890
Manufacturer: Hewlett-Packard
Model: 6890 / 6890
GC Column used: 30 m X 0.25 mm ID [1.40 um thickness] DB-624
capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits with the following exceptions. Please note that most test procedures allow for several compounds outside of the QC limits for the LCS, although this may indicate a bias for this specific compound.

LCS-59410 in batch 59410, recovery is above criteria for Naphthalene at 170% with criteria of (40-125).

LCSD-59410 in batch 59410, recovery is above criteria for Naphthalene at 143% with criteria of (40-125).

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

No sample in this SDG required analysis at dilution.

G. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Mitkem, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed: 

Date: 06/13/11

6A - FORM VI VOA-1
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: K0842 Mod. Ref No.: _____ SDG No.: SK0842
 Instrument ID: V10 Calibration Date(s): 05/11/2011 05/11/2011
 Heated Purge: (Y/N) Y Calibration Time(s): 10:39 12:54
 Purge Volume: 5.0 (mL)
 GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

LAB FILE ID: _____	RRF005 =	V8A3668.D	RRF020 =	V8A3667.D			
RRF050 =	V8A3666.D	RRF100 =	V8A3671.D	RRF200 =	V8A3670.D		
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF	%RSD
Dichlorodifluoromethane	0.282	0.358	0.411	0.393	0.374	0.364	13.7
Chloromethane	0.288	0.225	0.258	0.262	0.244	0.255	9.1
Vinyl chloride	0.333	0.279	0.325	0.321	0.296	0.311	7.2
Bromomethane	0.237	0.198	0.229	0.234	0.225	0.224	7.0
Chloroethane	0.158	0.138	0.155	0.157	0.146	0.151	5.8
Trichlorofluoromethane	0.643	0.596	0.694	0.687	0.653	0.655	6.0
1,1-Dichloroethene	0.283	0.233	0.266	0.269	0.251	0.260	7.3
Acetone	0.030	0.019	0.020	0.024	0.023	0.023	18.1
Iodomethane	0.367	0.413	0.528	0.498	0.475	0.456	14.4
Carbon disulfide	0.929	0.892	1.043	0.952	0.893	0.942	6.6
Methylene chloride	0.275	0.220	0.247	0.248	0.234	0.245	8.3
trans-1,2-Dichloroethene	0.290	0.246	0.281	0.284	0.271	0.274	6.4
Methyl tert-butyl ether	0.759	0.711	0.828	0.735	0.700	0.746	6.8
1,1-Dichloroethane	0.528	0.451	0.508	0.497	0.466	0.490	6.4
Vinyl acetate	0.786	0.749	0.843	0.757	0.703	0.767	6.7
2-Butanone	0.031	0.028	0.030	0.033	0.031	0.031	5.9
cis-1,2-Dichloroethene	0.306	0.252	0.284	0.286	0.268	0.279	7.3
2,2-Dichloropropane	0.488	0.439	0.506	0.505	0.487	0.485	5.7
Bromochloromethane	0.140	0.119	0.132	0.134	0.126	0.130	6.2
Chloroform	0.616	0.506	0.565	0.561	0.533	0.556	7.4
1,1,1-Trichloroethane	0.546	0.482	0.557	0.555	0.531	0.534	5.8
1,1-Dichloropropene	0.141	0.128	0.144	0.144	0.135	0.138	5.1
Carbon tetrachloride	0.462	0.428	0.512	0.521	0.506	0.486	8.2
1,2-Dichloroethane	0.437	0.374	0.417	0.417	0.399	0.409	5.8
Benzene	1.123	0.933	1.037	1.037	0.968	1.020	7.2
Trichloroethene	0.308	0.262	0.295	0.295	0.280	0.288	6.1
1,2-Dichloropropane	0.280	0.242	0.264	0.264	0.245	0.259	6.0
Dibromomethane	0.189	0.164	0.182	0.181	0.173	0.178	5.6
Bromodichloromethane	0.401	0.348	0.397	0.403	0.390	0.388	5.9
cis-1,3-Dichloropropene	0.414	0.386	0.437	0.445	0.430	0.422	5.5
4-Methyl-2-pentanone	0.194	0.188	0.199	0.190	0.175	0.189	4.8
Toluene	1.171	1.026	1.164	1.185	1.116	1.132	5.7
trans-1,3-Dichloropropene	0.357	0.355	0.403	0.418	0.403	0.387	7.6
1,1,2-Trichloroethane	0.229	0.196	0.213	0.217	0.201	0.211	6.2
1,3-Dichloropropane	0.535	0.434	0.481	0.481	0.451	0.476	8.1
Tetrachloroethene	0.315	0.272	0.328	0.330	0.316	0.312	7.5
2-Hexanone	0.170	0.185	0.191	0.202	0.193	0.188	6.3
Dibromochloromethane	0.368	0.333	0.387	0.398	0.392	0.376	7.0
1,2-Dibromoethane	0.335	0.287	0.321	0.325	0.305	0.315	5.9

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

CLIENT SAMPLE NO.

BFB10R

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K0842 Mod. Ref No.: _____ SDG No.: SK0842
Lab File ID: V8A3830.D BFB Injection Date: 05/17/2011
Instrument ID: V10 BFB Injection Time: 8:40
GC Column: DB-624 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.1
75	30.0 - 60.0% of mass 95	55.3
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	64.9
175	5.0 - 9.0% of mass 174	4.9 (7.5)1
176	95.0 - 101.0% of mass 174	62.8 (96.7)1
177	5.0 - 9.0% of mass 176	4.1 (6.5)2

1 - Value is % mass 174

2 - Value is % mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD05010R	VSTD05010R	V8A3832.D	05/17/2011	9:29
02	LCS-59212	LCS-59212	V8A3833.D	05/17/2011	10:04
03	LCSD-59212	LCSD-59212	V8A3834.D	05/17/2011	10:28
04	MB-59212	MB-59212	V8A3836.D	05/17/2011	11:17
05	DEC-043D (80-81')	K0842-01B	V8A3837.D	05/17/2011	11:41
06	DEC-064D (29-29.5)	K0842-02B	V8A3838.D	05/17/2011	12:05

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: K0842 Mod. Ref No.: _____ SDG No.: SK0842

Instrument ID: V10 Calibration Date: 05/17/2011 Time: 9:29

Lab File ID: V8A3832.D Init. Calib. Date(s): 05/11/2011 05/11/2011

EPA Sample No. (VSTD####) VSTD05010R Init. Calib. Time(s): 10:39 12:54

Heated Purge: (Y/N) Y GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.364	0.329	0.100	-9.5	20.0
Chloromethane	0.255	0.256	0.010	0.4	20.0
Vinyl chloride	0.311	0.312	0.010	0.3	20.0
Bromomethane	0.224	0.206	0.010	-8.4	20.0
Chloroethane	0.151	0.150	0.010	-0.5	20.0
Trichlorofluoromethane	0.655	0.642	0.010	-2.0	20.0
1,1-Dichloroethene	0.260	0.251	0.100	-3.8	20.0
Acetone	0.023	0.028	0.010	23.7	20.0
Iodomethane	0.456	0.418	0.010	-8.3	20.0
Carbon disulfide	0.942	0.885	0.010	-6.0	20.0
Methylene chloride	0.245	0.237	0.010	-3.2	20.0
trans-1,2-Dichloroethene	0.274	0.269	0.010	-2.2	20.0
Methyl tert-butyl ether	0.746	0.652	0.010	-12.6	20.0
1,1-Dichloroethane	0.490	0.513	0.010	4.7	20.0
Vinyl acetate	0.767	0.804	0.010	4.7	20.0
2-Butanone	0.031	0.037	0.010	20.9	20.0
cis-1,2-Dichloroethene	0.279	0.278	0.010	-0.6	20.0
2,2-Dichloropropane	0.485	0.466	0.010	-4.0	20.0
Bromochloromethane	0.130	0.121	0.010	-7.0	20.0
Chloroform	0.556	0.541	0.010	-2.8	20.0
1,1,1-Trichloroethane	0.534	0.510	0.010	-4.5	20.0
1,1-Dichloropropene	0.138	0.138	0.010	-0.5	20.0
Carbon tetrachloride	0.486	0.458	0.010	-5.6	20.0
1,2-Dichloroethane	0.409	0.385	0.010	-5.8	20.0
Benzene	1.020	1.057	0.010	3.6	20.0
Trichloroethene	0.288	0.265	0.010	-8.1	20.0
1,2-Dichloropropane	0.259	0.278	0.010	7.3	20.0
Dibromomethane	0.178	0.174	0.010	-2.0	20.0
Bromodichloromethane	0.388	0.370	0.010	-4.6	20.0
cis-1,3-Dichloropropene	0.422	0.415	0.010	-1.8	20.0
4-Methyl-2-pentanone	0.189	0.206	0.010	9.0	20.0
Toluene	1.132	1.139	0.010	0.6	20.0
trans-1,3-Dichloropropene	0.387	0.372	0.010	-3.9	20.0
1,1,2-Trichloroethane	0.211	0.208	0.010	-1.6	20.0
1,3-Dichloropropane	0.476	0.493	0.010	3.5	20.0
Tetrachloroethene	0.312	0.302	0.010	-3.3	20.0
2-Hexanone	0.188	0.229	0.010	21.7	20.0
Dibromochloromethane	0.376	0.354	0.010	-5.7	20.0
1,2-Dibromoethane	0.315	0.318	0.010	1.1	20.0
Chlorobenzene	0.988	1.002	0.010	1.4	20.0

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: K0842 Mod. Ref No.: _____ SDG No.: SK0842

Instrument ID: V10 Calibration Date: 05/17/2011 Time: 9:29

Lab File ID: V8A3832.D Init. Calib. Date(s): 05/11/2011 05/11/2011

EPA Sample No. (VSTD####) VSTD05010R Init. Calib. Time(s): 10:39 12:54

Heated Purge: (Y/N) Y GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
1,1,1,2-Tetrachloroethane	0.374	0.352	0.010	-5.8	20.0
Ethylbenzene	0.523	0.550	0.010	5.2	20.0
m,p-Xylene	0.628	0.662	0.010	5.4	20.0
o-Xylene	0.603	0.625	0.010	3.6	20.0
Xylene (Total)	0.620	0.650	0.010	4.8	20.0
Styrene	0.955	0.981	0.010	2.8	20.0
Bromoform	0.207	0.189	0.010	-8.5	20.0
Isopropylbenzene	1.636	1.753	0.300	7.2	20.0
1,1,2,2-Tetrachloroethane	0.857	0.974	0.300	13.6	20.0
Bromobenzene	0.864	0.855	0.010	-1.0	20.0
1,2,3-Trichloropropane	1.117	1.248	0.010	11.7	20.0
n-Propylbenzene	0.905	1.036	0.010	14.5	20.0
2-Chlorotoluene	0.886	0.939	0.010	6.0	20.0
1,3,5-Trimethylbenzene	3.040	3.437	0.010	13.0	20.0
4-Chlorotoluene	0.858	0.951	0.010	10.8	20.0
tert-Butylbenzene	3.241	3.632	0.010	12.1	20.0
1,2,4-Trimethylbenzene	2.980	3.382	0.010	13.5	20.0
sec-Butylbenzene	3.805	4.498	0.010	18.2	20.0
4-Isopropyltoluene	2.954	3.362	0.010	13.8	20.0
1,3-Dichlorobenzene	1.521	1.593	0.010	4.8	20.0
1,4-Dichlorobenzene	1.491	1.586	0.010	6.4	20.0
n-Butylbenzene	2.960	3.680	0.100	(24.3)	20.0
1,2-Dichlorobenzene	1.436	1.490	0.010	3.8	20.0
1,2-Dibromo-3-chloropropane	0.188	0.194	0.010	2.9	20.0
1,2,4-Trichlorobenzene	0.808	0.820	0.010	1.5	20.0
Hexachlorobutadiene	0.569	0.546	0.010	-4.1	20.0
1,2,3-Trichlorobenzene	0.763	0.764	0.010	0.2	20.0
Naphthalene	1.817	1.855	0.010	2.1	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.326	0.326	0.010	0.0	20.0
1,4-Dioxane	0.003	(0.003)	0.010	(26.3)	20.0
Cyclohexane	0.395	0.459	0.010	16.5	20.0
Methyl acetate	0.140	0.144	0.010	3.4	20.0
Methylcyclohexane	0.467	0.522	0.010	11.8	20.0

CHAIN OF CUSTODY RECORD

PROJECT NO. 11176390.00002
 SITE NAME Klink/Cosmo
 SAMPLERS (PRINT/SIGNATURE) C. Friedman / Doug [Signature]

DELIVERY SERVICE: Cowiex
 AIRBILL NO.: 21900000

LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLEID	MATRIX
DEC-066	5/9/11	1510	6	DEC-066S(1-2)	SH/50
DEC-44	5/10/11	1430	6	DEC-044D(4-5)	50
DEC-029	5/11/11	1000	6	DEC-029D(5-76)	50

TOTAL NO. OF CONTAINERS

802. Glass
 402. Glass
 802. Glass



LAB MITKEMA
 COOLER 1 of 1
 PAGE 1 of 1

TESTS

Full trace
 RECA
 TCL VOCs
 TCL SVCS
 PCBs
 Metals
 Hx
 Anion

BOTTLE TYPE AND PRESERVATIVE

REMARKS
 K0807
 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12

SAMPLE TYPE
 BEGINNING DEPTH (IN FEET)
 ENDING DEPTH (IN FEET)
 FIELD LOT NO. #

MATRIX CODES	AA - AMBIENT AIR	SE - SEDIMENT	SH - HAZARDOUS SOLID WASTE	SL - SLUDGE	WP - DRINKING WATER	WW - WASTE WATER	WG - GROUND WATER	WL - LEACHATE	WS - SURFACE WATER	WF - FLOATING/FREE PRODUCT ON GW TABLE
SAMPLE TYPE CODES	TS# - TYP BLANK	SD# - MATRIX SPIKE DUPLICATE	FR# - FIELD-REPLICATE	RB# - RINSE BLANK	FR# - FIELD-REPLICATE	MS# - MATRIX SPIKE	N# - NORMAL ENVIRONMENTAL SAMPLE	WC - DRILLING WATER	WG - WATER FIELD QC	WF - FLOATING/FREE PRODUCT ON GW TABLE
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME	RELINQUISHED BY (SIGNATURE)	DATE	TIME	SPECIAL INSTRUCTIONS	
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME	RELINQUISHED BY (SIGNATURE)	DATE	TIME	SPECIAL INSTRUCTIONS	

RELINQUISHED BY (SIGNATURE) [Signature]
 DATE 5/11/11 TIME 1435
 RECEIVED BY (SIGNATURE) [Signature]
 DATE 5/11/11 TIME 1436
 RECEIVED FOR LAB BY (SIGNATURE) Daniel Mitkema
 DATE 5-12-11 TIME 9:46
 SPECIAL INSTRUCTIONS
 DEC-066S (1 wk turnaround)
 Please call George Klink w/any questions 716.856.5636
 DEC-044D (1 wk turnaround)
 7°C

Distribution: Original accompanies shipment, copy to coordinator field files

REPORT NARRATIVE

Mitkem Laboratories, a Division of Spectrum Analytical, Inc.

Client : URS Corporation

Project: Klink Cosmo Meeker

Laboratory Workorder / SDG #: K0807

SW846 8260C, VOC by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8260C

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW5030

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: V1
Instrument Type: GCMS-VOA
Description: HP5890 II / HP5972
Manufacturer: Hewlett-Packard
Model: 5890 / 5972
GC Column used: 30 m X 0.25 mm ID [1.40 um thickness] DB-624
capillary column.

Instrument Code: V10
Instrument Type: GCMS-VOA
Description: HP7890A
Manufacturer: Agilent
Model: 7890A / 5975C
GC Column used: 30 m X 0.25 mm ID [1.40 um thickness] DB-624
capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

The following sample was re-analyzed at dilution:

DEC-066S (1-2') (K0807-01BDL-TCLP) : Dilution Factor: 2

G. Samples:

No unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Mitkem, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed: _____



Date: 06/07/11

REPORT NARRATIVE

Mitkem Laboratories, a Division of Spectrum Analytical, Inc.

Client : URS Corporation

Project: Klink Cosmo Meeker

Laboratory Workorder / SDG #: K0807

SW846 8270D, SVOA by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8270D

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3510

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: S3

Instrument Type: GCMS-SEMI

Description: HP6890 / HP5973

Manufacturer: Hewlett-Packard

Model: 6890 / 5973

GC Column used: 30 m X 0.25 mm ID [0.25 μ m thickness] Rxi-5sil MS capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits with the following exceptions. Please note that the acceptance criteria allow one surrogate recovery outside of the QC limits per fraction.

DEC-066S (1-2') (K0807-01ADL-TCLP) Surrogate outside of QC limit due to dilution, recovery is above criteria for 2-Fluorobiphenyl at 115% with criteria of (50-110).

DEC-066S (1-2') (K0807-01A-TCLP), recovery is above criteria for Nitrobenzene-d5 at 119% with criteria of (40-110).

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits with the following exceptions. Please note that most test procedures allow for several compounds outside of the QC limits for the LCS, although this may indicate a bias for this specific compound.

LCS-59213 in batch 59213, recovery is above criteria for Hexachlorobutadiene at 105% with criteria of (25-105).

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

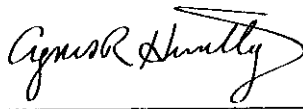
The following sample was re-analyzed at dilution:

DEC-066S (1-2') (K0807-01ADL-TCLP) : Dilution Factor: 50

G. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Mitkem, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed: 

Date: 06/07/11

6 - FORM VI SV-2
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA
Contract:

Lab Name: MITKEM LABORATORIES
Lab Code: MITKEM
Instrument ID: S3
GC Column: Rxi-5sil MS
ID: 0.25 (mm) Length: 30 (mm)
Case No.: K0807
SAS No.:
SDG No.: SK0807
Calibration Date(s): 04/18/2011
Calibration Times: 15:13 17:46

LAB FILE ID: RRF010 = S3H3262.D RRF020 = S3H3264.D RRF050 = S3H3261C.D RRF080 = S3H3265.D RRF120 = S3H3266.D
RRF160 = S3H3263.D

COMPOUND	RRF01C	RRF020	RRF050	RRF080	RRF120	RRF160	RRF		% RSD
1,4-Dichlorobenzene	1.643	1.617	1.504	1.523	1.464	1.502		1.542	4.6
2-Methylphenol	1.454	1.350	1.386	1.407	1.398	1.484		1.413	3.4
4-Methylphenol	1.545	1.483	1.518	1.586	1.560	1.693		1.564	4.6
Hexachloroethane	0.560	0.550	0.509	0.538	0.510	0.526		0.532	3.9
Nitrobenzene	0.401	0.387	0.368	0.385	0.365	0.365		0.379	3.9
Hexachlorobutadiene	0.176	0.163	0.153	0.157	0.147	0.144		0.157	7.4
2,4,6-Trichlorophenol	0.365	0.355	0.339	0.345	0.328	0.325		0.343	4.5
2,4,5-Trichlorophenol		0.385	0.372	0.379	0.361	0.352		0.370	3.6
2,4-Dinitrotoluene	0.477	0.472	0.440	0.445	0.428	0.417		0.447	5.3
Hexachlorobenzene	0.216	0.219	0.182	0.210	0.193	0.189		0.202	7.7
Pentachlorophenol		0.132	0.122	0.135	0.127	0.126		0.128	3.8
Pyridine		0.654	1.489	1.309	1.719	1.948		1.464	28.5

5B - FORM V SV
SEMIVOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

CLIENT SAMPLE NO.

DFTPP3C

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: K0807 Mod. Ref No.: _____ SDG No.: SK0807
Lab File ID: S3H3740.D DFTPP Injection Date: 05/17/2011
Instrument ID: S3 DFTPP Injection Time: 10:46

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	46.0
68	Less than 2.0% of mass 69	0.1 (0.3)1
69	Mass 69 relative abundance	39.3
70	Less than 2.0% of mass 69	0.3 (0.7)1
127	40.0 - 60.0% of mass 198	49.3
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	7.4
275	10.0 - 30.0% of mass 198	23.2
365	Greater than 1.0% of mass 198	2.7
441	Present, but less than mass 443	8.4
442	40.0 - 99.9% of mass 198	58.2
443	17.0 - 23.0% of mass 442	11.8 (20.2)2

1 - Value is % mass 69

2 - Value is % mass 442

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0503C	SSTD0503C	S3H3741.D	05/17/2011	11:08
02	MB-59201	MB-59201	S3H3746.D	05/17/2011	15:15
03	LCS-59213	LCS-59213	S3H3747.D	05/17/2011	15:34
04	LCSD-59213	LCSD-59213	S3H3748.D	05/17/2011	15:54
05	DEC-066S (1-2')	K0807-01A	S3H3749.D	05/17/2011	16:13
06	DEC-044D (4-5')	K0807-02A	S3H3750.D	05/17/2011	16:33

7E - FORM VII SV-1
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: MITKEM LABORATORIES Contract: _____

Lab Code: MITKEM Case No.: K0807 Mod. Ref No.: _____ SDG No.: SK0807

Instrument ID: S3 Calibration Date: 05/17/2011 Time: 11:08

Lab File ID: S3H3741.D Init. Calib. Date(s): 04/18/2011 04/18/2011

EPA Sample No. (SSTD020##) SSTD0503C Init. Calib. Time(s): 15:13 17:46

GC Column: Rxi-5sil MS ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
1,4-Dichlorobenzene	1.542	1.461	0.010	-5.3	20.0
2-Methylphenol	1.413	1.201	0.010	-15.0	20.0
4-Methylphenol	1.564	1.293	0.010	-17.3	20.0
Hexachloroethane	0.532	0.526	0.010	-1.0	20.0
Nitrobenzene	0.379	0.383	0.010	1.3	20.0
Hexachlorobutadiene	0.157	0.189	0.010	20.6	20.0
2,4,6-Trichlorophenol	0.343	0.345	0.010	0.6	20.0
2,4,5-Trichlorophenol	0.370	0.369	0.010	-0.2	20.0
2,4-Dinitrotoluene	0.447	0.437	0.010	-2.1	20.0
Hexachlorobenzene	0.202	0.194	0.010	-3.9	20.0
Pentachlorophenol	0.128	0.131	0.010	2.0	20.0
Pyridine	1.464	0.894	0.010	-38.9	20.0

REPORT NARRATIVE

Mitkem Laboratories, a Division of Spectrum Analytical, Inc.

Client : URS Corporation

Project: Klink Cosmo Meeker

Laboratory Workorder / SDG #: K0807

SW846 8081B, Organochlorine Pesticides by GC-ECD

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8081B

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3510

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: E5

Instrument Type: GC-ECD

Description: HP6890

Manufacturer: Hewlett-Packard

Model: 6890

GC Column used: 30 m X 0.53 mm ID [0.50 um thickness] CLPPest capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Dilutions:

No sample in this SDG required analysis at dilution.

F. Samples:


The lower concentration between the primary and confirmatory GC column concentrations is reported due to the presence of interferences unless otherwise indicated on Form 10. Both values are reported on Form 10. P flags are assigned to compounds on Form 1

when D% between the two columns is greater than 40%.

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Mitkem, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed: _____

A handwritten signature in cursive script, appearing to read "Agnes R. Huntly", written over a horizontal line.

Date: 06/08/11

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE NO.

DEC-066S (1-2')

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K0807 Mod. Ref No.: _____ SDG No.: SK0807
Lab Sample ID: K0807-01A Date(s) Analyzed: 05/18/2011 05/18/2011
Instrument ID (1): E5 Instrument ID (2): E5
GC Column(1): CLPPest ID: 0.53 (mm) GC Column(2): CLPPestII ID: 0.53 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
gamma-BHC (Lindane)	1	3.982	3.938	4.038	0.79	966.3
	2	4.706	4.667	4.767	8.4	
Heptachlor	1	4.465	4.395	4.495	1.4	223.0
	2	5.177	5.161	5.261	0.44	

REPORT NARRATIVE

Mitkem Laboratories, a Division of Spectrum Analytical, Inc.

Client : URS Corporation

Project: Klink Cosmo Meeker

Laboratory Workorder / SDG #: K0807

SW846 8151A, Chlorinated Herbicides by GC-ECD

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8151A

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3510

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: E4

Instrument Type: GC-ECD

Description: HP6890

Manufacturer: Hewlett-Packard

Model: 6890

GC Column used: 30 m X 0.53 mm ID [0.50 um thickness] CLPPest capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Dilutions:

No sample in this SDG required analysis at dilution.

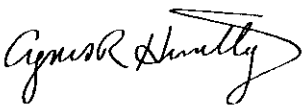
F. Samples:

The lower concentration between the primary and confirmatory GC column concentrations is reported due to the presence of interferences unless otherwise indicated on Form 10. Both values are

reported on Form 10. P flags are assigned to compounds on Form 1 when D% between the two columns is greater than 40%.

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Mitkem, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed:  _____

Date: 06/08/11

REPORT NARRATIVE

Mitkem Laboratories, a Division of Spectrum Analytical, Inc.

Client : URS Corporation

Project: Klink Cosmo Meeker

Laboratory Workorder / SDG #: K0807

SW846 6010C, SW846 7470A

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 6010C, SW846 7470A

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3005A
Aqueous Samples were prepared following procedures in laboratory test code: SW7470A

V. INSTRUMENTATION

The following instrumentation was used to perform

Instrument Code: FIMS1
Instrument Type: CVAA
Description: FIMS
Manufacturer: Perkin-Elmer
Model: FIMS

Instrument Code: OPTIMA3
Instrument Type: ICP
Description: Optima ICP-OES
Manufacturer: Perkin-Elmer
Model: 4300 DV

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for laboratory control samples were within the QC limits.

2. Matrix spike (MS):

A matrix spike was not performed on any sample in this SDG.

D. Post Digestion Spike (PDS):

A post-digestion spike was not performed on any sample in this SDG.

E. Duplicate sample:

A duplicate analysis was not performed on any sample in this SDG.


F. Serial Dilution (SD):

A serial dilution was not performed on any sample in this SDG.

G. Samples:

No unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Mitkem, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed:  _____

Date: 06/08/11

REPORT NARRATIVE

Mitkem Laboratories, a Division of Spectrum Analytical, Inc.

Client : URS Corporation

Project: Klink Cosmo Meeker

Laboratory Workorder / SDG #: K0807

SW846 1010, SW846 7.3.3.2, SW846 7.3.4.2, SW846 9045C

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 1010, SW846 7.3.3.2, SW846 7.3.4.2, SW846 9045C

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code:
SW846 1010, SW846 7.3.3.2, SW846 7.3.4.2, SW846 9045C

V. INSTRUMENTATION

The following instrumentation was used to perform

Instrument Code: FLASH1
Instrument Type: WC
Description: Flash Point
Manufacturer: Koehler
Model: K16200

Instrument Code: LACHAT1
Instrument Type: WC
Description: Flow Injection Analyzer
Manufacturer: Zellweger Analytics
Model: Quik-Chem 8000

Instrument Code: SPEC2
Instrument Type: SP
Description: Spectronic 20 Genesys
Manufacturer: Spectronic Instruments
Model: 4004-000

Instrument Code: WC01
Instrument Type: Probe
Description: pH Meter
Manufacturer: Thermo Electron Corporation
Model: Orion 520A+

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recovery for lab control samples for Reactive Cyanide and Reactive Sulfide were within the QC limits.

The lab control sample for reactive cyanide typically results in a percent recovery of approximately 10%. This indicates the

analysis is only measuring the correct type of cyanide. The LCS is performed with a "total" cyanide spike, only a small portion of which is "reactive". Recovery of significantly greater than this level in the analysis of the LCS indicates the test is over estimating the concentration of reactive cyanide.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

D. Duplicate sample:

Duplicate analysis was performed on sample DEC-044D (4-5') for Flashpoint and pH.

Percent RPD was within the QC limits for both analyses.

E. Dilutions:

No sample required analysis at dilution.

F. Samples:

For Flashpoint analysis, the result of "No Flash" indicates that no flash was observed, or that non-ignitable vapors from the sample extinguished the test flame at the temperature indicated. Where non-flammable vapors from the sample extinguished the test flame below 140 degrees, the sample temperature was elevated to at least 140 degrees, and re-exposed to the test flame.

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Mitkem, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed: 

Date: 06/08/11

CHAIN OF CUSTODY RECORD

PROJECT NO. 1176390
 SITE NAME Klink/Cosmo
 SAMPLERS (PRINT SIGNATURE) C. Friedman/Cay

DELIVERY SERVICE: Courier AIRBILL NO.:

LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLEID	MATRIX
DEC-030	6/20/11	1405		DEC-030D	WG
↓		1520		DEC-030	
DEC-064		1414		DEC-064D	
↓		1544		DEC-064	
DEC-086		1733		DEC-086DD	
↓		1858		DEC-086D	
—	↓	—		DUP-062011	
DEC-031	6/21/11	830		DEC-031D	WG
↓		945		DEC-031	
DEC-045		1125		DEC-045D	
↓		1310		DEC-045	
DEC-046	↓	839		DEC-046	
				TB	WG

MATRIX CODES	AA - AMBIENT AIR	SE - SEDIMENT	SH - HAZARDOUS SOLID WASTE	SL - SLUDGE	WP - DRINKING WATER	WW - WASTE WATER	WG - GROUND WATER	SO - SOIL	DC - DRILL CUTTINGS	WC - DRILLING WATER	WL - LEACHATE	GS - SOIL GAS	WS - SURFACE WATER	WO - OCEAN WATER	LH - HAZARDOUS LIQUID WASTE	LF - FLOATING/FREE PRODUCT ON GW TABLE
SAMPLE TYPE CODES	TB - TRIP BLANK	SD - MATRIX SPIKE DUPLICATE	FR - FIELD REPLICATE	RB - RINSE BLANK	NR - NORMAL ENVIRONMENTAL SAMPLE	MS - MATRIX SPIKE										

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Cay	6/22/11	1230	Tim Albrecht	6/22/11	1230
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
Tim Albrecht	6/22/11	1410		6/22/11	1210

Distribution: Original accompanies shipment, copy to coordinator field files



LAB Mitten
 COOLER 1 of 1
 PAGE 1 of 3

REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (RIPMS ONLY)
1	N1			
2	N2			
3	N3			
4	N4			
5	N5			
6	N6			
7	N7			
8	N1			
9	N2			
10	N3			
11	N4			
12	N5			
13	N6			

SPECIAL INSTRUCTIONS
 Please call George Klink w/any questions the 856 5636

89°C

CHAIN OF CUSTODY RECORD

PROJECT NO. 11176390
 SITE NAME Klink/Cosmo
 SAMPLERS (PRINT/SIGNATURE) C. Friedman / *[Signature]*

DELIVERY SERVICE: Courier AIRBILL NO.:

LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS
DEC-046	6/21/11	839		DEC-046 MS/MSD	WG	6
DEC-047		1155		DEC-047		3
DEC-033		1034		DEC-033		3
DEC-010		1430		DEC-010		3
DEC-007		1403		DEC-007		3
DEC-011		1530		DEC-011		3
DEC-007		1550		DEC-007D		3
DEC-028		1740		DEC-028		3
DEC-065	6/22/11	745		DEC-065D		3
DEC-065		845		DEC-065		3
DEC-012		945		DEC-012		3
DEC-013		1205		DEC-043D		3
				DUP-062211		3

MATRIX CODES	AA - AMBIENT AIR	SE - SEDIMENT	SH - HAZARDOUS SOLID WASTE	SL - SLUDGE	WP - DRINKING WATER	WM - WASTE WATER	WG - GROUND WATER	WG - SOIL	DO - DRILL CUTTINGS	WC - DRILLING WATER	WL - LEACHATE	WS - SURFACE WATER	WO - OCEAN WATER	LH - HAZARDOUS LIQUID WASTE	LF - FLOATING/FREE PRODUCT ON GW TABLE
SAMPLE TYPE CODES	TB# - TRIP BLANK	SD# - MATRIX SPIKE DUPLICATE	RB# - RINSE BLANK	FR# - FIELD REPLICATE	N# - NORMAL ENVIRONMENTAL SAMPLE	MS# - MATRIX SPIKE									

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
<i>[Signature]</i>	6/22/11	1230	<i>[Signature]</i>	6/22/11	1230
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
<i>[Signature]</i>	6/22/11	1410	<i>[Signature]</i>	6/22	2:10 PM

Distribution: Original accompanies shipment, copy to coordinator field files *[Signature]* 6/24/11 10:00

TESTS

TEL VOCs + 1125

BOTTLE TYPE AND PRESERVATIVE

REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (RPMs ONLY)
12	M5			
14	M6			
15	M7			
16	M8			
17	M9			
18	M10			
19	M11			
20	M12			
21	M11			
22	M12			
23	M13			
24	M14			
25	FR1			

URS

LAB Mitten
 COOLER #1 of 1
 PAGE 2 of 3

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Klink Cosmo Meeker

Laboratory Workorder / SDG #: K1102

SW846 8260C, VOC by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times with the following exceptions:

DEC-011 (K1102-18ARE) exceed by 1 Day

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8260C

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW5030

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: V1
Instrument Type: GCMS-VOA
Description: HP5890 II / HP5972
Manufacturer: Hewlett-Packard
Model: 5890 / 5972
GC Column used: 30 m X 0.25 mm ID [1.40 um thickness] DB-624 capillary column.

Instrument Code: V10
Instrument Type: GCMS-VOA
Description: HP7890A
Manufacturer: Agilent
Model: 7890A / 5975C
GC Column used: 30 m X 0.25 mm ID [1.40 um thickness] DB-624 capillary column.

Instrument Code: V6
Instrument Type: GCMS-VOA
Description: HP6890 / HP5973
Manufacturer: Hewlett-Packard
Model: 6890 / 5973
GC Column used: 30 m X 0.25 mm ID [1.40 um thickness] DB-624 capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits with the following exceptions. Please note that the acceptance criteria allow one surrogate recovery outside of the QC limits per analysis.

DEC-064 (K1102-04A), recovery is below criteria for Dibromofluoromethane at 84% with criteria of (85-115).

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits with the following exceptions. Please note that most test procedures allow for several compounds outside of the QC limits for the LCS, although this may indicate a bias for this specific compound.

LCS-60151 in batch 60151, recovery is above criteria for Iodomethane at 133% with criteria of (72-121).

LCSD-60151 in batch 60151, recovery is above criteria for 1,1,1-Trichloroethane at 130% with criteria of (65-130), 1,1,2-Trichloro-1,2,2-trifluoroethane at 136% with criteria of (70-130), Iodomethane at 153% with criteria of (72-121) and Trichlorofluoromethane at 155% with criteria of (60-145).

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: DEC-046 (K1102-12AMS) and DEC-046 (K1102-12AMSD).

Percent recoveries were within the QC limits with the following exceptions:

DEC-046 (K1102-12AMS), recovery is below criteria for 1,2,4-Trichlorobenzene at 64% with criteria of (65-135), 1,4-Dioxane at 60% with criteria of (70-130) and Naphthalene at 44% with criteria of (55-140).

DEC-046 (K1102-12AMSD), recovery is below criteria for 1,2-Dibromoethane at 80% with criteria of (80-120) and 1,4-Dioxane at 68% with criteria of (70-130).

Replicate RPDs were within the QC limits.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

The following samples were re-analyzed at dilution:

DEC-030 (K1102-02ADL) : Dilution Factor: 25
DEC-064 (K1102-04ADL) : Dilution Factor: 4
DEC-006DD (K1102-05ADL) : Dilution Factor: 5
DEC-006D (K1102-06ADL) : Dilution Factor: 50
DUP-062011 (K1102-07ADL) : Dilution Factor: 5
DEC-031 (K1102-09ADL) : Dilution Factor: 50
DEC-007 (K1102-17ADL) : Dilution Factor: 10
DEC-007D (K1102-19ADL) : Dilution Factor: 4
DEC-028 (K1102-20ADL) : Dilution Factor: 20
DEC-065D (K1102-21ADL) : Dilution Factor: 10
DEC-012 (K1102-23ADL) : Dilution Factor: 4
DEC-015D (K1102-27ADL) : Dilution Factor: 8

G. Samples:

Sample DEC-011 has Tetrachloroethene detected at 13 ug/L. It was analyzed after DEC-007 which has Tetrachloroethene detected above the calibration range. DEC-011 was re-analyzed out of hold time to confirm the Tetrachloroethene detection was not carry over. Re-analysis result has Tetrachloroethene detected at 5.1 ug/L. Both results reported in the data package.

Sample DEC-012 was analyzed undiluted and also at a 4x dilution for Tetrachloroethene. The dilution analysis showed some low level contamination which were not detected in the initial analysis. These compounds were all below the reporting limits and should not affect the Tetrachloroethene result.

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum RI, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed: 

Date: 07/20/11

WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM

Case No.: K1102

Mod. Ref No.:

SDG No.: SK1102

Level: (TRACE or LOW) LOW

	CLIENT SAMPLE NO.	VDMC1 (DBFM) #	VDMC2 (DCE) #	VDMC3 (TOL) #	VDMC4 (BFB) #				TOT OUT
01	LCS-60018	87	103	106	100				0
02	LCSD-60018	88	94	106	101				0
03	MB-60018	86	99	106	95				0
04	DEC-030D	89	99	105	95				0
05	DEC-030	89	104	98	96				0
06	DEC-064	84 *	94	103	95				1
07	DEC-006DD	86	98	105	94				0
08	DEC-006D	88	95	93	90				0
09	DUP-062011	87	98	104	95				0
10	DEC-031D	90	94	108	97				0
11	DEC-031	89	98	100	93				0
12	LCS-60070	99	96	100	98				0
13	MB-60070	99	93	99	91				0
14	TRIP BLANK	99	97	102	91				0
15	DEC-064D	98	94	99	90				0
16	DEC-045D	98	100	101	90				0
17	DEC-064DL	100	94	99	89				0
18	DEC-006DDDL	97	95	99	89				0
19	DUP-062011DL	100	98	100	88				0
20	DEC-030DL	98	92	100	90				0
21	DEC-006DDL	99	96	101	89				0
22	DEC-031DL	99	100	101	90				0
23	DEC-045	99	97	99	88				0
24	DEC-047	100	101	102	90				0
25	LCS-60103	97	93	103	99				0
26	MB-60103	99	94	105	90				0
27	DEC-046	96	88	104	86				0
28	DEC-033	96	98	106	88				0

QC LIMITS

VDMC1 (DBFM) Dibromofluoromethane

(85-115)

VDMC2 (DCE) = 1,2-Dichloroethane-d4

(70-120)

VDMC3 (TOL) = Toluene-d8

(85-120)

VDMC4 (BFB) = Bromofluorobenzene

(75-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

som11.07.01.A

6A - FORM VI VOA-1
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
 Instrument ID: V1 Calibration Date(s): 06/01/2011 06/01/2011
 Heated Purge: (Y/N) N Calibration Time(s): 11:59 14:22
 Purge Volume: 5.0 (mL)
 GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

LAB FILE ID: _____	RRF005 = <u>V1M1407.D</u>	RRF020 = <u>V1M1406.D</u>					
RRF050 = <u>V1M1405.D</u>	RRF100 = <u>V1M1409.D</u>	RRF200 = <u>V1M1408.D</u>					
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF	%RSD
Dichlorodifluoromethane	0.154	0.157	0.146	0.141	0.156	0.151	4.6
Chloromethane	0.417	0.440	0.394	0.405	0.422	0.415	4.2
Vinyl chloride	0.315	0.302	0.266	0.293	0.302	0.296	6.3
Bromomethane	0.203	0.206	0.177	0.180	0.189	0.191	6.8
Chloroethane	0.192	0.179	0.163	0.169	0.176	0.176	6.3
Trichlorofluoromethane	0.243	0.259	0.246	0.245	0.281	0.255	6.3
1,1-Dichloroethene	0.163	0.240	0.239	0.258	0.277	0.235	18.5
Acetone	0.075	0.077	0.071	0.070	0.061	0.071	8.4
Iodomethane	0.423	0.462	0.404	0.448	0.466	0.441	6.0
Carbon disulfide	0.927	0.853	0.797	0.842	0.888	0.861	5.7
Methylene chloride	0.116	0.263	0.257	0.276	0.275	0.237	28.8
trans-1,2-Dichloroethene	0.277	0.272	0.247	0.274	0.273	0.268	4.5
Methyl tert-butyl ether	0.712	0.676	0.676	0.716	0.719	0.700	3.1
1,1-Dichloroethane	0.559	0.519	0.496	0.499	0.508	0.516	5.0
Vinyl acetate	1.668	1.694	1.575	1.691	1.679	1.661	3.0
2-Butanone	0.048	0.053	0.051	0.062	0.057	0.054	10.0
cis-1,2-Dichloroethene	0.319	0.300	0.278	0.288	0.298	0.297	5.1
2,2-Dichloropropane	0.207	0.166	0.148	0.137	0.143	0.160	17.7
Bromochloromethane	0.169	0.169	0.160	0.169	0.174	0.168	3.1
Chloroform	0.452	0.432	0.400	0.415	0.430	0.426	4.6
1,1,1-Trichloroethane	0.279	0.262	0.239	0.240	0.260	0.256	6.5
1,1-Dichloropropene	0.139	0.126	0.115	0.122	0.131	0.127	7.2
Carbon tetrachloride	0.281	0.258	0.231	0.230	0.262	0.252	8.7
1,2-Dichloroethane	0.333	0.332	0.333	0.314	0.334	0.329	2.5
Benzene	1.036	0.987	0.919	0.957	0.980	0.976	4.4
Trichloroethene	0.324	0.301	0.265	0.279	0.293	0.292	7.7
1,2-Dichloropropane	0.321	0.324	0.292	0.309	0.318	0.313	4.1
Dibromomethane	0.185	0.189	0.181	0.191	0.196	0.188	3.0
Bromodichloromethane	0.309	0.320	0.307	0.308	0.328	0.314	3.0
cis-1,3-Dichloropropene	0.439	0.426	0.427	0.437	0.448	0.435	2.1
4-Methyl-2-pentanone	0.793	0.708	0.697	0.787	0.779	0.753	6.2
Toluene	1.062	0.995	0.931	0.984	1.009	0.996	4.7
trans-1,3-Dichloropropene	0.373	0.383	0.379	0.379	0.399	0.383	2.6
1,1,2-Trichloroethane	0.245	0.227	0.224	0.249	0.254	0.240	5.6
1,3-Dichloropropane	0.585	0.554	0.515	0.569	0.566	0.558	4.8
Tetrachloroethene	0.273	0.244	0.229	0.259	0.274	0.256	7.5
2-Hexanone	0.755	0.716	0.690	0.798	0.768	0.745	5.7
Dibromochloromethane	0.351	0.366	0.382	0.411	0.430	0.388	8.3
1,2-Dibromoethane	0.380	0.372	0.350	0.407	0.410	0.384	6.5

6B - FORM VI VOA-2
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
 Instrument ID: V1 Calibration Date(s): 06/01/2011 06/01/2011
 Heated Purge: (Y/N) N Calibration Time(s): 11:59 14:22
 Purge Volume: 5.0 (mL)
 GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

LAB FILE ID: _____	RRF005 = <u>V1M1407.D</u>	RRF020 = <u>V1M1406.D</u>					
RRF050 = <u>V1M1405.D</u>	RRF100 = <u>V1M1409.D</u>	RRF200 = <u>V1M1408.D</u>					
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF	%RSD
Chlorobenzene	0.946	0.905	0.852	0.933	0.936	0.914	4.2
1,1,1,2-Tetrachloroethane	0.353	0.342	0.328	0.355	0.361	0.348	3.7
Ethylbenzene	0.468	0.439	0.420	0.469	0.476	0.454	5.3
m,p-Xylene	0.597	0.551	0.529	0.574	0.585	0.567	4.8
o-Xylene	0.546	0.548	0.512	0.565	0.561	0.546	3.8
Xylene (Total)	0.580	0.550	0.523	0.571	0.577	0.560	4.2
Styrene	0.899	0.921	0.868	0.981	0.987	0.931	5.6
Bromoform	0.203	0.208	0.230	0.261	0.278	0.236	13.9
Isopropylbenzene	1.431	1.231	1.227	1.329	1.362	1.316	6.6
1,1,2,2-Tetrachloroethane	0.986	0.903	0.875	1.042	1.018	0.965	7.5
Bromobenzene	0.785	0.742	0.710	0.777	0.782	0.759	4.3
1,2,3-Trichloropropane	0.972	0.884	1.027	1.095	1.104	1.016	9.0
2-Chlorotoluene	0.765	0.690	0.674	0.747	0.765	0.728	5.9
1,3,5-Trimethylbenzene	2.310	1.923	1.999	2.128	2.173	2.106	7.2
4-Chlorotoluene	0.818	0.720	0.727	0.762	0.799	0.765	5.7
tert-Butylbenzene	2.212	1.929	1.969	2.161	2.197	2.094	6.4
1,2,4-Trimethylbenzene	2.258	2.011	2.090	2.217	2.272	2.170	5.2
sec-Butylbenzene	2.517	2.109	2.362	2.498	2.641	2.425	8.4
4-Isopropyltoluene	2.114	1.724	1.930	2.063	2.124	1.991	8.4
1,3-Dichlorobenzene	1.385	1.230	1.266	1.384	1.385	1.330	5.7
1,4-Dichlorobenzene	1.493	1.309	1.292	1.416	1.443	1.391	6.2
1,2-Dichlorobenzene	1.349	1.233	1.229	1.304	1.340	1.291	4.4
1,2-Dibromo-3-chloropropane	0.150	0.131	0.118	0.143	0.138	0.136	9.0
1,2,4-Trichlorobenzene	0.611	0.512	0.569	0.622	0.598	0.582	7.6
Hexachlorobutadiene	0.175	0.143	0.205	0.187	0.160	0.174	13.6
1,2,3-Trichlorobenzene	0.548	0.464	0.501	0.546	0.504	0.513	6.9
Naphthalene	2.187	1.915	1.943	2.387	2.117	2.110	9.1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.132	0.206	0.155	0.221	0.239	0.191	23.8
1,4-Dioxane	0.003	0.002	0.002	0.004	0.003	0.003	23.6
Cyclohexane	0.499	0.422	0.421	0.461	0.484	0.457	7.8
Methyl acetate	0.491	0.424	0.405	0.465	0.451	0.447	7.6
Methylcyclohexane	0.320	0.274	0.282	0.294	0.322	0.299	7.3

6A - FORM VI VOA-1
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
 Instrument ID: V6 Calibration Date(s): 06/10/2011 06/10/2011
 Heated Purge: (Y/N) N Calibration Time(s): 12:51 15:00
 Purge Volume: 5.0 (mL)
 GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

LAB FILE ID: _____	RRF005 =	V6I1459.D	RRF020 =	V6I1458.D			
RRF050 =	V6I1457.D	RRF100 =	V6I1461.D	RRF200 =	V6I1460.D		
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF	%RSD
Dichlorodifluoromethane	0.167	0.151	0.127	0.159	0.157	0.152	10.1
Chloromethane	0.262	0.195	0.199	0.202	0.209	0.213	12.9
Vinyl chloride	0.227	0.188	0.179	0.205	0.197	0.199	9.1
Bromomethane	0.130	0.132	0.126	0.141	0.133	0.132	4.2
Chloroethane	0.140	0.100	0.093	0.105	0.099	0.107	17.4
Trichlorofluoromethane	0.348	0.318	0.280	0.346	0.358	0.330	9.6
1,1-Dichloroethene	0.224	0.185	0.169	0.208	0.209	0.199	11.0
Acetone	0.028	0.027	0.017	0.020	0.019	0.022	23.2
Iodomethane	0.398	0.351	0.328	0.389	0.373	0.368	7.7
Carbon disulfide	0.765	0.643	0.602	0.698	0.684	0.679	9.1
Methylene chloride	0.264	0.237	0.202	0.233	0.224	0.232	9.6
trans-1,2-Dichloroethene	0.244	0.205	0.186	0.220	0.214	0.214	10.0
Methyl tert-butyl ether	0.525	0.508	0.472	0.562	0.526	0.519	6.3
1,1-Dichloroethane	0.452	0.397	0.366	0.419	0.406	0.408	7.7
Vinyl acetate	0.883	0.836	0.770	0.878	0.822	0.838	5.5
2-Butanone	0.024	0.024	0.020	0.023	0.021	0.022	7.8
cis-1,2-Dichloroethene	0.252	0.222	0.203	0.237	0.232	0.229	7.8
2,2-Dichloropropane	0.252	0.206	0.206	0.236	0.229	0.226	9.0
Bromochloromethane	0.124	0.110	0.101	0.118	0.112	0.113	7.4
Chloroform	0.461	0.400	0.360	0.413	0.402	0.407	8.8
1,1,1-Trichloroethane	0.353	0.276	0.281	0.333	0.329	0.314	10.8
1,1-Dichloropropene	0.112	0.096	0.090	0.110	0.110	0.103	9.8
Carbon tetrachloride	0.410	0.296	0.260	0.317	0.322	0.321	17.2
1,2-Dichloroethane	0.332	0.311	0.286	0.325	0.318	0.314	5.7
Benzene	0.935	0.828	0.782	0.878	0.840	0.853	6.7
Trichloroethene	0.237	0.199	0.190	0.227	0.226	0.216	9.2
1,2-Dichloropropane	0.284	0.257	0.237	0.272	0.267	0.263	6.7
Dibromomethane	0.143	0.140	0.126	0.148	0.143	0.140	5.8
Bromodichloromethane	0.293	0.275	0.259	0.308	0.304	0.288	7.1
cis-1,3-Dichloropropene	0.342	0.340	0.326	0.389	0.374	0.354	7.4
4-Methyl-2-pentanone	0.178	0.187	0.176	0.211	0.194	0.189	7.6
Toluene	0.999	0.872	0.819	0.936	0.907	0.907	7.4
trans-1,3-Dichloropropene	0.322	0.309	0.292	0.350	0.342	0.323	7.3
1,1,2-Trichloroethane	0.195	0.175	0.162	0.192	0.185	0.182	7.3
1,3-Dichloropropane	0.413	0.395	0.359	0.416	0.400	0.397	5.8
Tetrachloroethene	0.252	0.196	0.196	0.239	0.234	0.224	11.6
2-Hexanone	0.167	0.169	0.161	0.190	0.181	0.174	6.7
Dibromochloromethane	0.278	0.263	0.252	0.309	0.309	0.282	9.3
1,2-Dibromoethane	0.255	0.242	0.224	0.269	0.259	0.250	6.9

6B - FORM VI VOA-2
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102

Instrument ID: V6 Calibration Date(s): 06/10/2011 06/10/2011

Heated Purge: (Y/N) N Calibration Time(s): 12:51 15:00

Purge Volume: 5.0 (mL)

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

LAB FILE ID: _____	RRF005 = <u>V6I1459.D</u>	RRF020 = <u>V6I1458.D</u>					
RRF050 = <u>V6I1457.D</u>	RRF100 = <u>V6I1461.D</u>	RRF200 = <u>V6I1460.D</u>					
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF	%RSD
Chlorobenzene	0.822	0.743	0.682	0.793	0.765	0.761	7.0
1,1,1,2-Tetrachloroethane	0.293	0.264	0.250	0.292	0.295	0.279	7.4
Ethylbenzene	0.400	0.347	0.346	0.412	0.411	0.383	8.8
m,p-Xylene	0.469	0.429	0.421	0.494	0.473	0.457	6.8
o-Xylene	0.440	0.429	0.424	0.496	0.486	0.455	7.3
Xylene (Total)	0.459	0.429	0.422	0.495	0.477	0.457	6.8
Styrene	0.768	0.764	0.749	0.852	0.818	0.790	5.5
Bromoform	0.167	0.176	0.167	0.206	0.208	0.185	11.2
Isopropylbenzene	1.005	0.940	0.985	1.152	1.120	1.041	8.8
1,1,2,2-Tetrachloroethane	0.584	0.568	0.496	0.588	0.533	0.554	7.1
Bromobenzene	0.646	0.576	0.531	0.634	0.608	0.599	7.8
1,2,3-Trichloropropane	0.655	0.619	0.567	0.685	0.650	0.635	7.1
2-Chlorotoluene	0.533	0.478	0.467	0.558	0.542	0.516	7.9
1,3,5-Trimethylbenzene	1.597	1.460	1.445	1.743	1.627	1.575	7.9
4-Chlorotoluene	0.616	0.536	0.502	0.587	0.568	0.562	7.9
tert-Butylbenzene	1.451	1.343	1.330	1.637	1.558	1.464	9.1
1,2,4-Trimethylbenzene	1.663	1.570	1.537	1.801	1.702	1.655	6.4
sec-Butylbenzene	1.812	1.591	1.565	1.925	1.779	1.734	8.8
4-Isopropyltoluene	1.405	1.295	1.310	1.602	1.494	1.421	9.1
1,3-Dichlorobenzene	1.155	0.999	0.945	1.087	1.035	1.044	7.7
1,4-Dichlorobenzene	1.211	1.070	0.973	1.140	1.072	1.093	8.1
1,2-Dichlorobenzene	1.104	1.003	0.914	1.080	0.996	1.019	7.4
1,2-Dibromo-3-chloropropane	0.122	0.100	0.083	0.110	0.099	0.103	14.3
1,2,4-Trichlorobenzene	0.696	0.598	0.487	0.673	0.577	0.606	13.8
Hexachlorobutadiene	0.419	0.288	0.207	0.321	0.241	0.295	27.8
1,2,3-Trichlorobenzene	0.783	0.569	0.409	0.618	0.484	0.572	24.8
Naphthalene	1.864	1.510	1.116	1.662	1.289	1.488	19.9
1,1,2-Trichloro-1,2,2-trifluoroethane	0.212	0.174	0.164	0.213	0.214	0.195	12.4
1,4-Dioxane	0.003	0.002	0.001	0.002	0.001	0.002	43.4
Cyclohexane	0.305	0.274	0.271	0.349	0.353	0.311	12.7
Methyl acetate	0.184	0.184	0.147	0.171	0.157	0.169	9.9
Methylcyclohexane	0.234	0.209	0.211	0.279	0.271	0.241	13.8

6A - FORM VI VOA-1
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
 Instrument ID: V10 Calibration Date(s): 06/29/2011 06/29/2011
 Heated Purge: (Y/N) N Calibration Time(s): 8:51 10:56
 Purge Volume: 5.0 (mL)
 GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

LAB FILE ID: _____	RRF005 =	V8A4203.D	RRF020 =	V8A4204.D			
RRF050 =	V8A4205.D	RRF100 =	V8A4206.D	RRF200 =	V8A4207.D		
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF	%RSD
Dichlorodifluoromethane	0.253	0.208	0.189	0.232	0.270	0.234	13.1
Chloromethane	0.339	0.285	0.250	0.279	0.328	0.308	14.1
Vinyl chloride	0.349	0.299	0.264	0.293	0.341	0.322	13.6
Bromomethane	0.245	0.192	0.182	0.202	0.254	0.224	16.5
Chloroethane	0.194	0.160	0.143	0.159	0.184	0.177	16.3
Trichlorofluoromethane	0.510	0.436	0.388	0.466	0.542	0.487	14.5
1,1-Dichloroethene	0.304	0.252	0.225	0.253	0.297	0.279	15.7
Acetone	0.055	0.044	0.037	0.044	0.045	0.045	14.5
Iodomethane	0.421	0.412	0.385	0.427	0.497	0.423	9.5
Carbon disulfide	1.013	0.863	0.766	0.910	1.013	0.971	17.5
Methylene chloride	0.346	0.306	0.274	0.289	0.331	0.326	14.7
trans-1,2-Dichloroethene	0.318	0.281	0.248	0.276	0.318	0.309	19.0
Methyl tert-butyl ether	1.042	0.978	0.939	0.932	1.056	1.008	6.9
1,1-Dichloroethane	0.656	0.567	0.509	0.546	0.633	0.601	12.0
Vinyl acetate	1.339	1.260	1.176	1.188	1.334	1.281	6.9
2-Butanone	0.040	0.039	0.038	0.042	0.044	0.040	6.0
cis-1,2-Dichloroethene	0.329	0.284	0.257	0.274	0.319	0.311	17.0
2,2-Dichloropropane	0.553	0.469	0.413	0.486	0.568	0.523	15.9
Bromochloromethane	0.151	0.139	0.129	0.132	0.150	0.145	10.3
Chloroform	0.665	0.574	0.522	0.553	0.643	0.616	13.2
1,1,1-Trichloroethane	0.578	0.494	0.445	0.499	0.584	0.541	13.8
1,1-Dichloropropene	0.143	0.129	0.111	0.129	0.150	0.136	11.9
Carbon tetrachloride	0.454	0.401	0.361	0.424	0.502	0.437	12.0
1,2-Dichloroethane	0.591	0.551	0.517	0.526	0.601	0.571	8.3
Benzene	1.263	1.073	0.966	1.050	1.231	1.164	13.9
Trichloroethene	0.298	0.249	0.226	0.252	0.293	0.270	11.7
1,2-Dichloropropane	0.377	0.327	0.305	0.318	0.370	0.353	12.5
Dibromomethane	0.226	0.209	0.201	0.201	0.229	0.219	8.4
Bromodichloromethane	0.470	0.434	0.408	0.429	0.500	0.459	9.0
cis-1,3-Dichloropropene	0.518	0.480	0.455	0.486	0.563	0.502	7.4
4-Methyl-2-pentanone	0.329	0.333	0.343	0.325	0.360	0.338	4.1
Toluene	1.350	1.147	1.039	1.154	1.350	1.240	11.7
trans-1,3-Dichloropropene	0.476	0.465	0.463	0.484	0.561	0.490	7.5
1,1,2-Trichloroethane	0.279	0.264	0.250	0.251	0.284	0.272	7.5
1,3-Dichloropropane	0.633	0.573	0.548	0.540	0.602	0.589	7.2
Tetrachloroethene	0.343	0.288	0.257	0.294	0.331	0.314	13.6
2-Hexanone	0.314	0.311	0.322	0.334	0.355	0.327	5.4
Dibromochloromethane	0.419	0.392	0.384	0.390	0.441	0.406	5.4
1,2-Dibromoethane	0.397	0.373	0.365	0.358	0.393	0.380	4.5

6B - FORM VI VOA-2
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102

Instrument ID: V10 Calibration Date(s): 06/29/2011 06/29/2011

Heated Purge: (Y/N) N Calibration Time(s): 8:51 10:56

Purge Volume: 5.0 (mL)

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

LAB FILE ID: _____	RRF005 =	V8A4203.D	RRF020 =	V8A4204.D			
RRF050 =	V8A4205.D	RRF100 =	V8A4206.D	RRF200 =	V8A4207.D		
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF	%RSD
Chlorobenzene	1.043	0.899	0.833	0.901	1.008	0.963	10.5
1,1,1,2-Tetrachloroethane	0.399	0.346	0.327	0.353	0.395	0.377	11.1
Ethylbenzene	0.553	0.474	0.422	0.468	0.541	0.509	12.6
m,p-Xylene	0.665	0.573	0.513	0.581	0.663	0.617	11.8
o-Xylene	0.670	0.566	0.510	0.571	0.646	0.607	11.1
Xylene (Total)	0.667	0.570	0.512	0.578	0.657	0.613	11.5
Styrene	1.116	0.972	0.908	0.998	1.142	1.039	9.0
Bromoform	0.284	0.267	0.281	0.287	0.329	0.288	7.4
Isopropylbenzene	1.804	1.550	1.336	1.545	1.769	1.657	13.2
1,1,2,2-Tetrachloroethane	1.040	0.911	0.858	0.829	0.906	0.949	12.8
Bromobenzene	0.944	0.785	0.723	0.779	0.864	0.848	12.4
1,2,3-Trichloropropane	1.260	1.190	1.157	1.140	1.251	1.214	5.0
2-Chlorotoluene	0.803	0.681	0.579	0.649	0.732	0.715	13.8
1,3,5-Trimethylbenzene	3.004	2.531	2.139	2.449	2.814	2.723	(16.4)
4-Chlorotoluene	0.786	0.660	0.591	0.669	0.762	0.708	11.3
tert-Butylbenzene	2.786	2.383	2.005	2.297	2.651	2.548	(16.0)
1,2,4-Trimethylbenzene	2.988	2.536	2.212	2.465	2.831	2.708	13.7
sec-Butylbenzene	3.430	2.896	2.398	2.847	3.289	3.101	15.5
4-Isopropyltoluene	2.703	2.307	1.938	2.278	2.651	2.445	13.3
1,3-Dichlorobenzene	1.479	1.288	1.159	1.284	1.439	1.369	11.0
1,4-Dichlorobenzene	1.467	1.297	1.183	1.311	1.469	1.395	11.8
1,2-Dichlorobenzene	1.491	1.293	1.193	1.270	1.410	1.363	9.6
1,2-Dibromo-3-chloropropane	0.235	0.197	0.202	0.199	0.223	0.204	11.8
1,2,4-Trichlorobenzene	0.632	0.749	0.765	0.851	1.015	0.761	(21.3)
Hexachlorobutadiene	0.438	0.398	0.357	0.424	0.466	0.429	11.3
Naphthalene	1.406	1.655	1.848	1.995	2.327	1.830	(17.1)
1,2,3-Trichlorobenzene	0.658	0.773	0.773	0.827	0.952	0.742	(22.0)
1,1,2-Trichloro-1,2,2-trifluoroethane	0.314	0.267	0.227	0.298	0.343	0.302	(16.6)
Methyl acetate	0.221	0.243	0.241	0.230	0.255	0.253	15.3
Cyclohexane	0.540	0.452	0.376	0.494	0.566	0.517	(19.6)
Methylcyclohexane	0.481	0.395	0.315	0.437	0.507	0.449	(19.4)
1,4-Dioxane	0.003	0.004	0.003	0.003	0.004	(0.003)	7.7

6A - FORM VI VOA-1
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
 Instrument ID: V10 Calibration Date(s): 07/06/2011 07/06/2011
 Heated Purge: (Y/N) N Calibration Time(s): 9:48 12:19
 Purge Volume: 5.0 (mL)
 GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

LAB FILE ID: _____	RRF005 =	V8A4395.D	RRF020 =	V8A4394.D			
RRF050 =	V8A4393.D	RRF100 =	V8A4399.D	RRF200 =	V8A4398.D		
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF	%RSD
Dichlorodifluoromethane	0.508	0.394	0.467	0.452	0.449	0.463	9.3
Chloromethane	0.308	0.248	0.285	0.291	0.249	0.281	9.6
Vinyl chloride	0.414	0.306	0.377	0.384	0.341	0.373	11.3
Bromomethane	0.296	0.235	0.281	0.310	0.300	0.286	9.4
Chloroethane	0.210	0.172	0.192	0.213	0.193	0.198	8.1
Trichlorofluoromethane	0.934	0.709	0.840	0.815	0.840	0.846	9.9
1,1-Dichloroethene	0.379	0.276	0.328	0.323	0.327	0.336	11.6
Acetone	0.036	0.030	0.026	0.042	0.044	(0.035)	19.6
Iodomethane	0.430	0.356	0.497	0.496	0.469	0.446	12.0
Carbon disulfide	1.248	0.916	1.117	1.005	0.996	1.088	12.8
Methylene chloride	0.412	0.329	0.369	0.354	0.357	0.372	9.0
trans-1,2-Dichloroethene	0.421	0.301	0.362	0.335	0.350	0.365	13.1
Methyl tert-butyl ether	1.332	1.134	1.213	1.232	1.239	1.247	6.0
1,1-Dichloroethane	0.618	0.483	0.565	0.531	0.547	0.560	9.3
Vinyl acetate	0.921	0.806	0.886	0.904	0.918	0.893	5.0
2-Butanone	0.035	0.036	0.034	0.044	0.045	(0.038)	13.1
cis-1,2-Dichloroethene	0.331	0.257	0.298	0.287	0.300	0.301	9.3
2,2-Dichloropropane	0.705	0.523	0.652	0.604	0.654	0.641	10.7
Bromochloromethane	0.152	0.128	0.141	0.143	0.145	0.144	6.0
Chloroform	0.796	0.616	0.718	0.683	0.713	0.720	9.6
1,1,1-Trichloroethane	0.762	0.575	0.689	0.649	0.696	0.689	10.3
1,1-Dichloropropene	0.150	0.114	0.131	0.132	0.140	0.136	10.0
Carbon tetrachloride	0.620	0.485	0.585	0.572	0.624	0.584	9.1
1,2-Dichloroethane	0.739	0.631	0.689	0.685	0.714	0.699	5.9
Benzene	1.276	0.987	1.172	1.124	1.178	1.169	9.2
Trichloroethene	0.299	0.233	0.278	0.267	0.282	0.276	9.0
1,2-Dichloropropane	0.308	0.251	0.290	0.284	0.300	0.290	7.4
Dibromomethane	0.258	0.230	0.247	0.251	0.260	0.251	4.4
Bromodichloromethane	0.549	0.478	0.557	0.538	0.571	0.540	6.0
cis-1,3-Dichloropropene	0.546	0.482	0.551	0.559	0.587	0.545	6.3
4-Methyl-2-pentanone	0.225	0.214	0.216	0.246	0.245	0.229	6.2
Toluene	1.396	1.102	1.292	1.259	1.344	1.298	8.5
trans-1,3-Dichloropropene	0.521	0.493	0.557	0.586	0.624	0.551	8.8
1,1,2-Trichloroethane	0.295	0.247	0.269	0.280	0.286	0.279	6.6
1,3-Dichloropropane	0.622	0.540	0.572	0.593	0.603	0.592	5.4
Tetrachloroethene	0.421	0.283	0.309	0.311	0.324	0.345	(17.6)
2-Hexanone	0.174	0.190	0.185	0.231	0.240	0.199	14.6
Dibromochloromethane	0.405	0.383	0.436	0.444	0.461	0.422	6.9
1,2-Dibromoethane	0.358	0.341	0.353	0.373	0.374	0.360	3.5

6B - FORM VI VOA-2
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
 Instrument ID: V10 Calibration Date(s): 07/06/2011 07/06/2011
 Heated Purge: (Y/N) N Calibration Time(s): 9:48 12:19
 Purge Volume: 5.0 (mL)
 GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

LAB FILE ID: _____	RRF005 =	V8A4395.D	RRF020 =	V8A4394.D			
RRF050 =	V8A4393.D	RRF100 =	V8A4399.D	RRF200 =	V8A4398.D		
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF	%RSD
Chlorobenzene	1.023	0.839	0.928	0.915	0.956	0.947	7.4
1,1,1,2-Tetrachloroethane	0.387	0.345	0.383	0.377	0.395	0.379	4.6
Ethylbenzene	0.534	0.440	0.482	0.490	0.516	0.500	7.3
m,p-Xylene	0.664	0.525	0.598	0.617	0.659	0.621	8.8
o-Xylene	0.633	0.532	0.590	0.608	0.642	0.606	6.8
Xylene (Total)	0.654	0.527	0.595	0.614	0.653	0.616	8.1
Styrene	1.053	0.891	1.025	1.046	1.125	1.032	7.5
Bromoform	0.295	0.278	0.310	0.335	0.353	0.311	8.9
Isopropylbenzene	1.818	1.498	1.631	1.750	1.842	1.726	7.9
1,1,2,2-Tetrachloroethane	0.833	0.751	0.717	0.777	0.754	0.777	6.0
Bromobenzene	0.818	0.675	0.714	0.712	0.727	0.744	8.1
1,2,3-Trichloropropane	1.220	1.068	1.071	1.155	1.139	1.146	5.9
2-Chlorotoluene	0.698	0.552	0.588	0.601	0.598	0.622	9.8
1,3,5-Trimethylbenzene	2.829	2.321	2.379	2.546	2.617	2.587	8.4
4-Chlorotoluene	0.685	0.567	0.593	0.619	0.631	0.630	7.6
tert-Butylbenzene	2.548	2.046	2.058	2.277	2.337	2.302	9.7
1,2,4-Trimethylbenzene	2.834	2.341	2.437	2.612	2.655	2.619	7.7
sec-Butylbenzene	3.256	2.599	2.642	2.973	3.021	2.958	9.7
4-Isopropyltoluene	2.430	1.990	2.081	2.314	2.383	2.271	8.3
1,3-Dichlorobenzene	1.393	1.149	1.208	1.266	1.280	1.281	7.6
1,4-Dichlorobenzene	1.357	1.173	1.219	1.294	1.308	1.285	5.8
1,2-Dichlorobenzene	1.362	1.164	1.196	1.260	1.268	1.268	6.5
1,2-Dibromo-3-chloropropane	0.224	0.204	0.197	0.230	0.228	0.218	6.3
1,2,4-Trichlorobenzene	0.718	0.736	0.779	0.938	0.967	0.809	14.0
Hexachlorobutadiene	0.613	0.481	0.477	0.516	0.517	0.536	11.5
Naphthalene	1.657	1.483	1.521	1.970	1.972	1.710	12.5
1,2,3-Trichlorobenzene	0.752	0.744	0.767	0.904	0.915	0.806	10.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.447	0.327	0.382	0.383	0.399	0.398	11.4
Methyl acetate	0.234	0.213	0.205	0.236	0.225	0.225	5.7
Cyclohexane	0.372	0.280	0.323	0.337	0.362	0.341	10.5
Methylcyclohexane	0.470	0.381	0.407	0.449	0.486	0.444	9.3
1,4-Dioxane	0.003	0.003	0.003	0.003	0.003	(0.003)	7.5

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

CLIENT SAMPLE NO.

BFB1T

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Lab File ID: V1M1743.D BFB Injection Date: 06/28/2011
Instrument ID: V1 BFB Injection Time: 8:40
GC Column: DB-624 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.1
75	30.0 - 60.0% of mass 95	38.8
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	5.8
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	79.1
175	5.0 - 9.0% of mass 174	6.9 (8.7)1
176	95.0 - 101.0% of mass 174	75.9 (96.0)1
177	5.0 - 9.0% of mass 176	5.5 (7.3)2

1 - Value is % mass 174

2 - Value is % mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0501T	VSTD0501T	V1M1745.D	06/28/2011	9:32
02	LCS-60018	LCS-60018	V1M1746.D	06/28/2011	10:09
03	LCSD-60018	LCSD-60018	V1M1747.D	06/28/2011	10:37
04	MB-60018	MB-60018	V1M1749.D	06/28/2011	11:32
05	DEC-030D	K1102-01A	V1M1758.D	06/28/2011	15:43
06	DEC-030	K1102-02A	V1M1759.D	06/28/2011	16:11
07	DEC-064	K1102-04A	V1M1761.D	06/28/2011	17:08
08	DEC-006DD	K1102-05A	V1M1762.D	06/28/2011	17:36
09	DEC-006D	K1102-06A	V1M1763.D	06/28/2011	18:04
10	DUP-062011	K1102-07A	V1M1764.D	06/28/2011	18:32
11	DEC-031D	K1102-08A	V1M1765.D	06/28/2011	19:00
12	DEC-031	K1102-09A	V1M1766.D	06/28/2011	19:28

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102

Instrument ID: V1 Calibration Date: 06/28/2011 Time: 9:32

Lab File ID: V1M1745.D Init. Calib. Date(s): 06/01/2011 06/01/2011

EPA Sample No. (VSTD####) VSTD0501T Init. Calib. Time(s): 11:59 14:22

Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.151	0.094	0.100	(-37.7)	20.0
Chloromethane	0.415	0.401	0.010	-3.5	20.0
Vinyl chloride	0.296	0.273	0.010	-7.7	20.0
Bromomethane	0.191	0.183	0.010	-4.2	20.0
Chloroethane	0.176	0.166	0.010	-5.7	20.0
Trichlorofluoromethane	0.255	0.179	0.010	(-29.9)	20.0
1,1-Dichloroethene	0.235	0.251	0.100	6.6	20.0
Acetone	0.071	(0.042)	0.010	(-41.1)	20.0
Iodomethane	0.441	0.400	0.010	-9.2	20.0
Carbon disulfide	0.861	0.836	0.010	-2.9	20.0
Methylene chloride	0.237	0.279	0.010	17.6	20.0
trans-1,2-Dichloroethene	0.268	0.255	0.010	-5.1	20.0
Methyl tert-butyl ether	0.700	0.576	0.010	-17.7	20.0
1,1-Dichloroethane	0.516	0.522	0.010	1.1	20.0
Vinyl acetate	1.661	1.597	0.010	-3.9	20.0
2-Butanone	0.054	(0.029)	0.010	(-46.6)	20.0
cis-1,2-Dichloroethene	0.297	0.266	0.010	-10.2	20.0
2,2-Dichloropropane	0.160	0.131	0.010	-18.4	20.0
Bromochloromethane	0.168	0.145	0.010	-13.7	20.0
Chloroform	0.426	0.372	0.010	-12.7	20.0
1,1,1-Trichloroethane	0.256	0.208	0.010	-18.8	20.0
1,1-Dichloropropene	0.127	0.118	0.010	-7.0	20.0
Carbon tetrachloride	0.252	0.210	0.010	-16.8	20.0
1,2-Dichloroethane	0.329	0.283	0.010	-13.9	20.0
Benzene	0.976	0.983	0.010	0.7	20.0
Trichloroethene	0.292	0.261	0.010	-10.7	20.0
1,2-Dichloropropane	0.313	0.327	0.010	4.6	20.0
Dibromomethane	0.188	0.162	0.010	-14.1	20.0
Bromodichloromethane	0.314	0.262	0.010	-16.8	20.0
cis-1,3-Dichloropropene	0.435	0.419	0.010	-3.6	20.0
4-Methyl-2-pentanone	0.753	0.417	0.010	(-44.6)	20.0
Toluene	0.996	0.977	0.010	-1.9	20.0
trans-1,3-Dichloropropene	0.383	0.340	0.010	-11.1	20.0
1,1,2-Trichloroethane	0.240	0.208	0.010	-13.2	20.0
1,3-Dichloropropane	0.558	0.532	0.010	-4.6	20.0
Tetrachloroethene	0.256	0.264	0.010	3.3	20.0
2-Hexanone	0.745	0.446	0.010	(-40.1)	20.0
Dibromochloromethane	0.388	0.346	0.010	-10.9	20.0
1,2-Dibromoethane	0.384	0.321	0.010	-16.2	20.0
Chlorobenzene	0.914	0.895	0.010	-2.1	20.0

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102

Instrument ID: V1 Calibration Date: 06/28/2011 Time: 9:32

Lab File ID: V1M1745.D Init. Calib. Date(s): 06/01/2011 06/01/2011

EPA Sample No. (VSTD####) VSTD0501T Init. Calib. Time(s): 11:59 14:22

Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
1,1,1,2-Tetrachloroethane	0.348	0.314	0.010	-9.7	20.0
Ethylbenzene	0.454	0.439	0.010	-3.4	20.0
m,p-Xylene	0.567	0.552	0.010	-2.7	20.0
o-Xylene	0.546	0.540	0.010	-1.2	20.0
Xylene (Total)	0.560	0.548	0.010	-2.2	20.0
Styrene	0.931	0.947	0.010	1.7	20.0
Bromoform	0.236	0.234	0.010	-0.7	20.0
Isopropylbenzene	1.316	1.259	0.300	-4.4	20.0
1,1,2,2-Tetrachloroethane	0.965	0.825	0.300	-14.5	20.0
Bromobenzene	0.759	0.689	0.010	-9.2	20.0
1,2,3-Trichloropropane	1.016	0.938	0.010	-7.8	20.0
2-Chlorotoluene	0.728	0.625	0.010	-14.2	20.0
1,3,5-Trimethylbenzene	2.106	1.929	0.010	-8.4	20.0
4-Chlorotoluene	0.765	0.685	0.010	-10.5	20.0
tert-Butylbenzene	2.094	1.859	0.010	-11.2	20.0
1,2,4-Trimethylbenzene	2.170	1.995	0.010	-8.1	20.0
sec-Butylbenzene	2.425	2.246	0.010	-7.4	20.0
4-Isopropyltoluene	1.991	1.818	0.010	-8.7	20.0
1,3-Dichlorobenzene	1.330	1.258	0.010	-5.4	20.0
1,4-Dichlorobenzene	1.391	1.285	0.010	-7.6	20.0
1,2-Dichlorobenzene	1.291	1.170	0.010	-9.3	20.0
1,2-Dibromo-3-chloropropane	0.136	0.099	0.010	-27.4	20.0
1,2,4-Trichlorobenzene	0.582	0.570	0.010	-2.0	20.0
Hexachlorobutadiene	0.174	0.201	0.010	15.5	20.0
1,2,3-Trichlorobenzene	0.513	0.471	0.010	-8.2	20.0
Naphthalene	2.110	1.504	0.010	-28.7	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.191	0.201	0.010	5.6	20.0
1,4-Dioxane	0.003	0.002	0.010	-11.8	20.0
Cyclohexane	0.457	0.480	0.010	4.8	20.0
Methyl acetate	0.447	0.393	0.010	-12.2	20.0
Methylcyclohexane	0.299	0.318	0.010	6.4	20.0

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

CLIENT SAMPLE NO.

BFB6M

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Lab File ID: V6I1780.D BFB Injection Date: 06/29/2011
Instrument ID: V6 BFB Injection Time: 8:28
GC Column: DB-624 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.9
75	30.0 - 60.0% of mass 95	50.2
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.3 (0.3)1
174	50.0 - 100.0% of mass 95	79.5
175	5.0 - 9.0% of mass 174	6.0 (7.5)1
176	95.0 - 101.0% of mass 174	77.5 (97.5)1
177	5.0 - 9.0% of mass 176	5.3 (6.8)2

1 - Value is % mass 174

2 - Value is % mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0506M	VSTD0506M	V6I1781.D	06/29/2011	8:57
02	LCS-60070	LCS-60070	V6I1782.D	06/29/2011	9:56
03	MB-60070	MB-60070	V6I1785.D	06/29/2011	12:25
04	TRIP BLANK	K1102-13A	V6I1787.D	06/29/2011	13:20
05	DEC-064D	K1102-03A	V6I1790.D	06/29/2011	14:43
06	DEC-045D	K1102-10A	V6I1791.D	06/29/2011	15:10
07	DEC-064DL	K1102-04ADL	V6I1792.D	06/29/2011	15:38
08	DEC-006DDDL	K1102-05ADL	V6I1793.D	06/29/2011	16:06
09	DUP-062011DL	K1102-07ADL	V6I1794.D	06/29/2011	16:34
10	DEC-030DL	K1102-02ADL	V6I1795.D	06/29/2011	17:02
11	DEC-006DDL	K1102-06ADL	V6I1796.D	06/29/2011	17:29
12	DEC-031DL	K1102-09ADL	V6I1797.D	06/29/2011	17:57
13	DEC-045	K1102-11A	V6I1798.D	06/29/2011	18:24
14	DEC-047	K1102-14A	V6I1799.D	06/29/2011	18:52

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
 Instrument ID: V6 Calibration Date: 06/29/2011 Time: 8:57
 Lab File ID: V6I1781.D Init. Calib. Date(s): 06/10/2011 06/10/2011
 EPA Sample No. (VSTD####) VSTD0506M Init. Calib. Time(s): 12:51 15:00
 Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)
 Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.152	0.115	0.100	-24.1	20.0
Chloromethane	0.213	0.201	0.010	-5.6	20.0
Vinyl chloride	0.199	0.195	0.010	-2.0	20.0
Bromomethane	0.132	0.132	0.010	-0.6	20.0
Chloroethane	0.107	0.099	0.010	-7.7	20.0
Trichlorofluoromethane	0.330	0.330	0.010	0.0	20.0
1,1-Dichloroethene	0.199	0.194	0.100	-2.6	20.0
Acetone	0.022	0.015	0.010	-33.5	20.0
Iodomethane	0.368	0.370	0.010	0.5	20.0
Carbon disulfide	0.679	0.692	0.010	2.0	20.0
Methylene chloride	0.232	0.230	0.010	-0.9	20.0
trans-1,2-Dichloroethene	0.214	0.215	0.010	0.6	20.0
Methyl tert-butyl ether	0.519	0.531	0.010	2.4	20.0
1,1-Dichloroethane	0.408	0.433	0.010	6.2	20.0
Vinyl acetate	0.838	0.859	0.010	2.5	20.0
2-Butanone	0.022	0.019	0.010	-16.2	20.0
cis-1,2-Dichloroethene	0.229	0.233	0.010	1.9	20.0
2,2-Dichloropropane	0.226	0.216	0.010	-4.3	20.0
Bromochloromethane	0.113	0.113	0.010	0.2	20.0
Chloroform	0.407	0.413	0.010	1.4	20.0
1,1,1-Trichloroethane	0.314	0.305	0.010	-2.8	20.0
1,1-Dichloropropene	0.103	0.104	0.010	0.1	20.0
Carbon tetrachloride	0.321	0.289	0.010	-9.9	20.0
1,2-Dichloroethane	0.314	0.325	0.010	3.3	20.0
Benzene	0.853	0.911	0.010	6.8	20.0
Trichloroethene	0.216	0.217	0.010	0.8	20.0
1,2-Dichloropropane	0.263	0.275	0.010	4.6	20.0
Dibromomethane	0.140	0.137	0.010	-2.2	20.0
Bromodichloromethane	0.288	0.294	0.010	2.1	20.0
cis-1,3-Dichloropropene	0.354	0.368	0.010	3.9	20.0
4-Methyl-2-pentanone	0.189	0.178	0.010	-5.9	20.0
Toluene	0.907	0.952	0.010	5.0	20.0
trans-1,3-Dichloropropene	0.323	0.326	0.010	1.0	20.0
1,1,2-Trichloroethane	0.182	0.178	0.010	-1.8	20.0
1,3-Dichloropropane	0.397	0.394	0.010	-0.7	20.0
Tetrachloroethene	0.224	0.223	0.010	-0.4	20.0
2-Hexanone	0.174	0.157	0.010	-9.6	20.0
Dibromochloromethane	0.282	0.270	0.010	-4.2	20.0
1,2-Dibromoethane	0.250	0.236	0.010	-5.4	20.0
Chlorobenzene	0.761	0.782	0.010	2.8	20.0

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102

Instrument ID: V6 Calibration Date: 06/29/2011 Time: 8:57

Lab File ID: V6I1781.D Init. Calib. Date(s): 06/10/2011 06/10/2011

EPA Sample No. (VSTD####) VSTD0506M Init. Calib. Time(s): 12:51 15:00

Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
1,1,1,2-Tetrachloroethane	0.279	0.282	0.010	1.3	20.0
Ethylbenzene	0.383	0.390	0.010	1.8	20.0
m,p-Xylene	0.457	0.483	0.010	5.7	20.0
o-Xylene	0.455	0.481	0.010	5.6	20.0
Xylene (Total)	0.457	0.483	0.010	5.7	20.0
Styrene	0.790	0.838	0.010	6.0	20.0
Bromoform	0.185	0.175	0.010	-5.2	20.0
Isopropylbenzene	1.041	1.082	0.300	4.0	20.0
1,1,2,2-Tetrachloroethane	0.554	0.550	0.300	-0.8	20.0
Bromobenzene	0.599	0.626	0.010	4.6	20.0
1,2,3-Trichloropropane	0.635	0.646	0.010	1.7	20.0
2-Chlorotoluene	0.516	0.549	0.010	6.6	20.0
1,3,5-Trimethylbenzene	1.575	1.658	0.010	5.3	20.0
4-Chlorotoluene	0.562	0.589	0.010	4.9	20.0
tert-Butylbenzene	1.464	1.523	0.010	4.0	20.0
1,2,4-Trimethylbenzene	1.655	1.774	0.010	7.2	20.0
sec-Butylbenzene	1.734	1.769	0.010	2.0	20.0
4-Isopropyltoluene	1.421	1.509	0.010	6.2	20.0
1,3-Dichlorobenzene	1.044	1.078	0.010	3.2	20.0
1,4-Dichlorobenzene	1.093	1.128	0.010	3.2	20.0
1,2-Dichlorobenzene	1.019	1.055	0.010	3.5	20.0
1,2-Dibromo-3-chloropropane	0.103	0.083	0.010	-19.5	20.0
1,2,4-Trichlorobenzene	0.606	0.559	0.010	-7.7	20.0
Hexachlorobutadiene	0.295	0.248	0.010	-15.9	20.0
1,2,3-Trichlorobenzene	0.572	0.440	0.010	(-23.2)	20.0
Naphthalene	1.488	1.160	0.010	(-22.0)	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.195	0.192	0.010	-1.5	20.0
1,4-Dioxane	0.002	(0.002)	0.010	-5.9	20.0
Cyclohexane	0.311	0.328	0.010	5.6	20.0
Methyl acetate	0.169	0.165	0.010	-2.5	20.0
Methylcyclohexane	0.241	0.249	0.010	3.5	20.0

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

CLIENT SAMPLE NO.

BFB6N

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Lab File ID: V6I1810.D BFB Injection Date: 06/30/2011
Instrument ID: V6 BFB Injection Time: 8:25
GC Column: DB-624 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.3
75	30.0 - 60.0% of mass 95	50.5
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.0
173	Less than 2.0% of mass 174	0.5 (0.6) 1
174	50.0 - 100.0% of mass 95	83.0
175	5.0 - 9.0% of mass 174	6.2 (7.4) 1
176	95.0 - 101.0% of mass 174	80.1 (96.4) 1
177	5.0 - 9.0% of mass 176	5.3 (6.6) 2

1 - Value is % mass 174

2 - Value is % mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0506N	VSTD0506N	V6I1811.D	06/30/2011	8:50
02	LCS-60103	LCS-60103	V6I1812.D	06/30/2011	9:49
03	MB-60103	MB-60103	V6I1815.D	06/30/2011	11:10
04	DEC-046	K1102-12A	V6I1823.D	06/30/2011	14:44
05	DEC-033	K1102-15A	V6I1824.D	06/30/2011	15:11
06	DEC-010	K1102-16A	V6I1825.D	06/30/2011	15:38
07	DEC-007	K1102-17A	V6I1826.D	06/30/2011	16:05
08	DEC-011	K1102-18A	V6I1827.D	06/30/2011	16:32
09	DEC-007D	K1102-19A	V6I1828.D	06/30/2011	16:59
10	DEC-028	K1102-20A	V6I1829.D	06/30/2011	17:26
11	DEC-065D	K1102-21A	V6I1830.D	06/30/2011	17:53
12	DEC-065	K1102-22A	V6I1831.D	06/30/2011	18:20
13	DEC-046MS	K1102-12AMS	V6I1832.D	06/30/2011	18:47
14	DEC-046MSD	K1102-12AMSD	V6I1833.D	06/30/2011	19:13

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102

Instrument ID: V6 Calibration Date: 06/30/2011 Time: 8:50

Lab File ID: V6I1811.D Init. Calib. Date(s): 06/10/2011 06/10/2011

EPA Sample No. (VSTD####) VSTD0506N Init. Calib. Time(s): 12:51 15:00

Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.152	0.118	0.100	-22.5	20.0
Chloromethane	0.213	0.229	0.010	7.3	20.0
Vinyl chloride	0.199	0.216	0.010	8.2	20.0
Bromomethane	0.132	0.147	0.010	11.0	20.0
Chloroethane	0.107	0.115	0.010	7.3	20.0
Trichlorofluoromethane	0.330	0.352	0.010	6.8	20.0
1,1-Dichloroethene	0.199	0.195	0.100	-1.9	20.0
Acetone	0.022	0.017	0.010	-22.0	20.0
Iodomethane	0.368	0.361	0.010	-1.9	20.0
Carbon disulfide	0.679	0.698	0.010	2.8	20.0
Methylene chloride	0.232	0.228	0.010	-1.7	20.0
trans-1,2-Dichloroethene	0.214	0.209	0.010	-2.1	20.0
Methyl tert-butyl ether	0.519	0.511	0.010	-1.4	20.0
1,1-Dichloroethane	0.408	0.419	0.010	2.8	20.0
Vinyl acetate	0.838	0.866	0.010	3.4	20.0
2-Butanone	0.022	0.019	0.010	-13.8	20.0
cis-1,2-Dichloroethene	0.229	0.225	0.010	-1.9	20.0
2,2-Dichloropropane	0.226	0.211	0.010	-6.3	20.0
Bromochloromethane	0.113	0.114	0.010	1.2	20.0
Chloroform	0.407	0.410	0.010	0.8	20.0
1,1,1-Trichloroethane	0.314	0.298	0.010	-5.2	20.0
1,1-Dichloropropene	0.103	0.100	0.010	-3.5	20.0
Carbon tetrachloride	0.321	0.285	0.010	-11.3	20.0
1,2-Dichloroethane	0.314	0.321	0.010	2.2	20.0
Benzene	0.853	0.892	0.010	4.6	20.0
Trichloroethene	0.216	0.207	0.010	-4.0	20.0
1,2-Dichloropropane	0.263	0.276	0.010	4.8	20.0
Dibromomethane	0.140	0.140	0.010	0.4	20.0
Bromodichloromethane	0.288	0.293	0.010	1.8	20.0
cis-1,3-Dichloropropene	0.354	0.353	0.010	-0.2	20.0
4-Methyl-2-pentanone	0.189	0.174	0.010	-7.9	20.0
Toluene	0.907	0.922	0.010	1.7	20.0
trans-1,3-Dichloropropene	0.323	0.315	0.010	-2.5	20.0
1,1,2-Trichloroethane	0.182	0.179	0.010	-1.5	20.0
1,3-Dichloropropane	0.397	0.367	0.010	-7.5	20.0
Tetrachloroethene	0.224	0.199	0.010	-10.8	20.0
2-Hexanone	0.174	0.146	0.010	-16.0	20.0
Dibromochloromethane	0.282	0.258	0.010	-8.5	20.0
1,2-Dibromoethane	0.250	0.221	0.010	-11.4	20.0
Chlorobenzene	0.761	0.733	0.010	-3.7	20.0

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102

Instrument ID: V6 Calibration Date: 06/30/2011 Time: 8:50

Lab File ID: V611811.D Init. Calib. Date(s): 06/10/2011 06/10/2011

EPA Sample No. (VSTD####) VSTD0506N Init. Calib. Time(s): 12:51 15:00

Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
1,1,1,2-Tetrachloroethane	0.279	0.262	0.010	-6.1	20.0
Ethylbenzene	0.383	0.360	0.010	-6.1	20.0
m,p-Xylene	0.457	0.444	0.010	-3.0	20.0
o-Xylene	0.455	0.433	0.010	-4.8	20.0
Xylene (Total)	0.457	0.440	0.010	-3.6	20.0
Styrene	0.790	0.766	0.010	-3.1	20.0
Bromoform	0.185	0.160	0.010	-13.2	20.0
Isopropylbenzene	1.041	0.971	0.300	-6.7	20.0
1,1,2,2-Tetrachloroethane	0.554	0.499	0.300	-9.9	20.0
Bromobenzene	0.599	0.556	0.010	-7.1	20.0
1,2,3-Trichloropropane	0.635	0.584	0.010	-8.1	20.0
2-Chlorotoluene	0.516	0.477	0.010	-7.5	20.0
1,3,5-Trimethylbenzene	1.575	1.465	0.010	-7.0	20.0
4-Chlorotoluene	0.562	0.529	0.010	-5.8	20.0
tert-Butylbenzene	1.464	1.363	0.010	-6.9	20.0
1,2,4-Trimethylbenzene	1.655	1.552	0.010	-6.2	20.0
sec-Butylbenzene	1.734	1.562	0.010	-9.9	20.0
4-Isopropyltoluene	1.421	1.322	0.010	-7.0	20.0
1,3-Dichlorobenzene	1.044	0.958	0.010	-8.3	20.0
1,4-Dichlorobenzene	1.093	1.035	0.010	-5.3	20.0
1,2-Dichlorobenzene	1.019	0.950	0.010	-6.8	20.0
1,2-Dibromo-3-chloropropane	0.103	0.080	0.010	(-22.6)	20.0
1,2,4-Trichlorobenzene	0.606	0.486	0.010	(-19.9)	20.0
Hexachlorobutadiene	0.295	0.221	0.010	(-25.3)	20.0
1,2,3-Trichlorobenzene	0.572	0.420	0.010	(-26.6)	20.0
Naphthalene	1.488	1.096	0.010	(-26.3)	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.195	0.205	0.010	5.1	20.0
1,4-Dioxane	0.002	(0.002)	0.010	2.6	20.0
Cyclohexane	0.311	0.324	0.010	4.4	20.0
Methyl acetate	0.169	0.180	0.010	6.5	20.0
Methylcyclohexane	0.241	0.242	0.010	0.5	20.0

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

CLIENT SAMPLE NO.

BFB60

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Lab File ID: V6I1853.D BFB Injection Date: 07/01/2011
Instrument ID: V6 BFB Injection Time: 7:40
GC Column: DB-624 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.3
75	30.0 - 60.0% of mass 95	49.1
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	83.6
175	5.0 - 9.0% of mass 174	6.1 (7.3)1
176	95.0 - 101.0% of mass 174	80.2 (96.0)1
177	5.0 - 9.0% of mass 176	5.3 (6.7)2

1 - Value is % mass 174

2 - Value is % mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD05060	VSTD05060	V6I1854.D	07/01/2011	7:54
02	LCS-60133	LCS-60133	V6I1855.D	07/01/2011	8:36
03	MB-60133	MB-60133	V6I1859.D	07/01/2011	10:23
04	DEC-007DDL	K1102-19ADL	V6I1866.D	07/01/2011	13:32
05	DEC-007DL	K1102-17ADL	V6I1872.D	07/01/2011	16:14
06	DEC-028DL	K1102-20ADL	V6I1873.D	07/01/2011	16:41

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
 Instrument ID: V6 Calibration Date: 07/01/2011 Time: 7:54
 Lab File ID: V6I1854.D Init. Calib. Date(s): 06/10/2011 06/10/2011
 EPA Sample No. (VSTD####) VSTD05060 Init. Calib. Time(s): 12:51 15:00
 Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)
 Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.152	0.156	0.100	2.6	20.0
Chloromethane	0.213	0.284	0.010	33.3	20.0
Vinyl chloride	0.199	0.255	0.010	28.1	20.0
Bromomethane	0.132	0.171	0.010	29.2	20.0
Chloroethane	0.107	0.128	0.010	19.3	20.0
Trichlorofluoromethane	0.330	0.362	0.010	9.7	20.0
1,1-Dichloroethene	0.199	0.192	0.100	-3.5	20.0
Acetone	0.022	0.025	0.010	13.4	20.0
Iodomethane	0.368	0.395	0.010	7.4	20.0
Carbon disulfide	0.679	0.769	0.010	13.3	20.0
Methylene chloride	0.232	0.234	0.010	1.0	20.0
trans-1,2-Dichloroethene	0.214	0.217	0.010	1.5	20.0
Methyl tert-butyl ether	0.519	0.523	0.010	0.9	20.0
1,1-Dichloroethane	0.408	0.441	0.010	8.1	20.0
Vinyl acetate	0.838	0.927	0.010	10.6	20.0
2-Butanone	0.022	0.023	0.010	1.2	20.0
cis-1,2-Dichloroethene	0.229	0.239	0.010	4.3	20.0
2,2-Dichloropropane	0.226	0.228	0.010	1.2	20.0
Bromochloromethane	0.113	0.115	0.010	1.9	20.0
Chloroform	0.407	0.427	0.010	4.9	20.0
1,1,1-Trichloroethane	0.314	0.303	0.010	-3.7	20.0
1,1-Dichloropropene	0.103	0.099	0.010	-4.6	20.0
Carbon tetrachloride	0.321	0.276	0.010	-14.0	20.0
1,2-Dichloroethane	0.314	0.327	0.010	4.1	20.0
Benzene	0.853	0.944	0.010	10.7	20.0
Trichloroethene	0.216	0.213	0.010	-1.3	20.0
1,2-Dichloropropane	0.263	0.282	0.010	7.1	20.0
Dibromomethane	0.140	0.141	0.010	0.6	20.0
Bromodichloromethane	0.288	0.300	0.010	4.0	20.0
cis-1,3-Dichloropropene	0.354	0.370	0.010	4.5	20.0
4-Methyl-2-pentanone	0.189	0.179	0.010	-5.5	20.0
Toluene	0.907	0.966	0.010	6.6	20.0
trans-1,3-Dichloropropene	0.323	0.325	0.010	0.8	20.0
1,1,2-Trichloroethane	0.182	0.177	0.010	-2.4	20.0
1,3-Dichloropropane	0.397	0.411	0.010	3.6	20.0
Tetrachloroethene	0.224	0.217	0.010	-3.1	20.0
2-Hexanone	0.174	0.194	0.010	11.5	20.0
Dibromochloromethane	0.282	0.286	0.010	1.5	20.0
1,2-Dibromoethane	0.250	0.241	0.010	-3.4	20.0
Chlorobenzene	0.761	0.846	0.010	11.2	20.0

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102

Instrument ID: V6 Calibration Date: 07/01/2011 Time: 7:54

Lab File ID: V6I1854.D Init. Calib. Date(s): 06/10/2011 06/10/2011

EPA Sample No. (VSTD####) VSTD05060 Init. Calib. Time(s): 12:51 15:00

Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
1,1,1,2-Tetrachloroethane	0.279	0.298	0.010	7.0	20.0
Ethylbenzene	0.383	0.407	0.010	6.1	20.0
m,p-Xylene	0.457	0.510	0.010	11.6	20.0
o-Xylene	0.455	0.500	0.010	9.8	20.0
Xylene (Total)	0.457	0.507	0.010	11.0	20.0
Styrene	0.790	0.902	0.010	14.2	20.0
Bromoform	0.185	0.177	0.010	-4.3	20.0
Isopropylbenzene	1.041	1.082	0.300	4.0	20.0
1,1,2,2-Tetrachloroethane	0.554	0.560	0.300	1.1	20.0
Bromobenzene	0.599	0.636	0.010	6.2	20.0
1,2,3-Trichloropropane	0.635	0.644	0.010	1.4	20.0
2-Chlorotoluene	0.516	0.560	0.010	8.5	20.0
1,3,5-Trimethylbenzene	1.575	1.696	0.010	7.7	20.0
4-Chlorotoluene	0.562	0.608	0.010	8.2	20.0
tert-Butylbenzene	1.464	1.537	0.010	5.0	20.0
1,2,4-Trimethylbenzene	1.655	1.769	0.010	6.9	20.0
sec-Butylbenzene	1.734	1.734	0.010	0.0	20.0
4-Isopropyltoluene	1.421	1.491	0.010	4.9	20.0
1,3-Dichlorobenzene	1.044	1.095	0.010	4.8	20.0
1,4-Dichlorobenzene	1.093	1.180	0.010	8.0	20.0
1,2-Dichlorobenzene	1.019	1.087	0.010	6.7	20.0
1,2-Dibromo-3-chloropropane	0.103	0.087	0.010	-15.6	20.0
1,2,4-Trichlorobenzene	0.606	0.551	0.010	-9.1	20.0
Hexachlorobutadiene	0.295	0.260	0.010	-12.0	20.0
1,2,3-Trichlorobenzene	0.572	0.491	0.010	-14.2	20.0
Naphthalene	1.488	1.238	0.010	-16.8	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.195	0.189	0.010	-3.1	20.0
1,4-Dioxane	0.002	(0.001)	0.010	-18.5	20.0
Cyclohexane	0.311	0.306	0.010	-1.6	20.0
Methyl acetate	0.169	0.168	0.010	-0.5	20.0
Methylcyclohexane	0.241	0.224	0.010	-6.9	20.0

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

CLIENT SAMPLE NO.

BFB6P

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Lab File ID: V6I1890.D BFB Injection Date: 07/05/2011
Instrument ID: V6 BFB Injection Time: 6:35
GC Column: DB-624 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.9
75	30.0 - 60.0% of mass 95	50.6
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.4
173	Less than 2.0% of mass 174	0.5 (0.6)1
174	50.0 - 100.0% of mass 95	80.7
175	5.0 - 9.0% of mass 174	6.0 (7.4)1
176	95.0 - 101.0% of mass 174	77.2 (95.7)1
177	5.0 - 9.0% of mass 176	5.4 (6.9)2

1 - Value is % mass 174

2 - Value is % mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0506P	VSTD0506P	V6I1891.D	07/05/2011	6:50
02	LCS-60166	LCS-60166	V6I1892.D	07/05/2011	7:31
03	MB-60166	MB-60166	V6I1896.D	07/05/2011	9:18
04	DEC-012DL	K1102-23ADL	V6I1903.D	07/05/2011	12:31
05	DEC-015DDL	K1102-27ADL	V6I1905.D	07/05/2011	13:26
06	DEC-043D	K1102-24A	V6I1912.D	07/05/2011	16:42
07	DEC-043	K1102-28A	V6I1913.D	07/05/2011	17:10

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102

Instrument ID: V6 Calibration Date: 07/05/2011 Time: 6:50

Lab File ID: V6I1891.D Init. Calib. Date(s): 06/10/2011 06/10/2011

EPA Sample No. (VSTD####) VSTD0506P Init. Calib. Time(s): 12:51 15:00

Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.152	0.171	0.100	12.6	20.0
Chloromethane	0.213	0.247	0.010	15.7	20.0
Vinyl chloride	0.199	0.222	0.010	11.5	20.0
Bromomethane	0.132	0.137	0.010	3.1	20.0
Chloroethane	0.107	0.111	0.010	3.0	20.0
Trichlorofluoromethane	0.330	0.361	0.010	9.3	20.0
1,1-Dichloroethene	0.199	0.202	0.100	1.3	20.0
Acetone	0.022	0.030	0.010	33.9	20.0
Iodomethane	0.368	0.376	0.010	2.4	20.0
Carbon disulfide	0.679	0.759	0.010	11.9	20.0
Methylene chloride	0.232	0.225	0.010	-3.1	20.0
trans-1,2-Dichloroethene	0.214	0.208	0.010	-2.7	20.0
Methyl tert-butyl ether	0.519	0.543	0.010	4.8	20.0
1,1-Dichloroethane	0.408	0.416	0.010	1.9	20.0
Vinyl acetate	0.838	0.838	0.010	0.0	20.0
2-Butanone	0.022	0.023	0.010	3.4	20.0
cis-1,2-Dichloroethene	0.229	0.220	0.010	-4.0	20.0
2,2-Dichloropropane	0.226	0.198	0.010	-12.1	20.0
Bromochloromethane	0.113	0.105	0.010	-7.4	20.0
Chloroform	0.407	0.396	0.010	-2.7	20.0
1,1,1-Trichloroethane	0.314	0.288	0.010	-8.5	20.0
1,1-Dichloropropene	0.103	0.099	0.010	-4.2	20.0
Carbon tetrachloride	0.321	0.285	0.010	-11.3	20.0
1,2-Dichloroethane	0.314	0.312	0.010	-0.8	20.0
Benzene	0.853	0.858	0.010	0.6	20.0
Trichloroethene	0.216	0.200	0.010	-7.4	20.0
1,2-Dichloropropane	0.263	0.257	0.010	-2.5	20.0
Dibromomethane	0.140	0.130	0.010	-6.9	20.0
Bromodichloromethane	0.288	0.280	0.010	-2.9	20.0
cis-1,3-Dichloropropene	0.354	0.341	0.010	-3.7	20.0
4-Methyl-2-pentanone	0.189	0.179	0.010	-5.3	20.0
Toluene	0.907	0.867	0.010	-4.4	20.0
trans-1,3-Dichloropropene	0.323	0.311	0.010	-3.7	20.0
1,1,2-Trichloroethane	0.182	0.169	0.010	-7.0	20.0
1,3-Dichloropropane	0.397	0.385	0.010	-3.0	20.0
Tetrachloroethene	0.224	0.201	0.010	-10.1	20.0
2-Hexanone	0.174	0.192	0.010	10.5	20.0
Dibromochloromethane	0.282	0.267	0.010	-5.4	20.0
1,2-Dibromoethane	0.250	0.227	0.010	-9.1	20.0
Chlorobenzene	0.761	0.728	0.010	-4.4	20.0

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102

Instrument ID: V6 Calibration Date: 07/05/2011 Time: 6:50

Lab File ID: V6I1891.D Init. Calib. Date(s): 06/10/2011 06/10/2011

EPA Sample No.(VSTD####) VSTD0506P Init. Calib. Time(s): 12:51 15:00

Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
1,1,1,2-Tetrachloroethane	0.279	0.259	0.010	-7.2	20.0
Ethylbenzene	0.383	0.354	0.010	-7.6	20.0
m,p-Xylene	0.457	0.429	0.010	-6.1	20.0
o-Xylene	0.455	0.420	0.010	-7.6	20.0
Xylene (Total)	0.457	0.426	0.010	-6.6	20.0
Styrene	0.790	0.750	0.010	-5.1	20.0
Bromoform	0.185	0.169	0.010	-8.4	20.0
Isopropylbenzene	1.041	0.907	0.300	-12.9	20.0
1,1,2,2-Tetrachloroethane	0.554	0.532	0.300	-3.9	20.0
Bromobenzene	0.599	0.566	0.010	-5.5	20.0
1,2,3-Trichloropropane	0.635	0.643	0.010	1.2	20.0
2-Chlorotoluene	0.516	0.476	0.010	-7.7	20.0
1,3,5-Trimethylbenzene	1.575	1.402	0.010	-11.0	20.0
4-Chlorotoluene	0.562	0.517	0.010	-7.9	20.0
tert-Butylbenzene	1.464	1.295	0.010	-11.6	20.0
1,2,4-Trimethylbenzene	1.655	1.524	0.010	-7.9	20.0
sec-Butylbenzene	1.734	1.414	0.010	-18.5	20.0
4-Isopropyltoluene	1.421	1.182	0.010	-16.8	20.0
1,3-Dichlorobenzene	1.044	0.927	0.010	-11.2	20.0
1,4-Dichlorobenzene	1.093	0.986	0.010	-9.8	20.0
1,2-Dichlorobenzene	1.019	0.939	0.010	-7.8	20.0
1,2-Dibromo-3-chloropropane	0.103	0.088	0.010	-14.2	20.0
1,2,4-Trichlorobenzene	0.606	0.465	0.010	(-23.4)	20.0
Hexachlorobutadiene	0.295	0.172	0.010	(-41.7)	20.0
1,2,3-Trichlorobenzene	0.572	0.385	0.010	(-32.7)	20.0
Naphthalene	1.488	1.214	0.010	-18.5	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.195	0.165	0.010	-15.3	20.0
1,4-Dioxane	0.002	(0.002)	0.010	-3.3	20.0
Cyclohexane	0.311	0.296	0.010	-4.7	20.0
Methyl acetate	0.169	0.199	0.010	18.0	20.0
Methylcyclohexane	0.241	0.206	0.010	-14.4	20.0

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

CLIENT SAMPLE NO.

BFB10L

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Lab File ID: V8A4319.D BFB Injection Date: 07/01/2011
Instrument ID: V10 BFB Injection Time: 17:57
GC Column: DB-624 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.3
75	30.0 - 60.0% of mass 95	59.5
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.2
173	Less than 2.0% of mass 174	0.7 (0.8)1
174	50.0 - 100.0% of mass 95	83.0
175	5.0 - 9.0% of mass 174	6.3 (7.6)1
176	95.0 - 101.0% of mass 174	79.3 (95.5)1
177	5.0 - 9.0% of mass 176	5.2 (6.5)2

1 - Value is % mass 174

2 - Value is % mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD05010L	VSTD05010L	V8A4321.D	07/01/2011	18:44
02	LCS-60151	LCS-60151	V8A4322.D	07/01/2011	19:08
03	LCSD-60151	LCSD-60151	V8A4323.D	07/01/2011	19:31
04	MB-60151	MB-60151	V8A4325.D	07/01/2011	20:18
05	DEC-065DDL	K1102-21ADL	V8A4326.D	07/01/2011	20:41
06	DEC-012	K1102-23A	V8A4336.D	07/02/2011	0:36
07	DUP-062211	K1102-25A	V8A4338.D	07/02/2011	1:23
08	DEC-015	K1102-26A	V8A4339.D	07/02/2011	1:47
09	DEC-015D	K1102-27A	V8A4340.D	07/02/2011	2:10

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
 Instrument ID: V10 Calibration Date: 07/01/2011 Time: 18:44
 Lab File ID: V8A4321.D Init. Calib. Date(s): 06/29/2011 06/29/2011
 EPA Sample No. (VSTD####) VSTD05010L Init. Calib. Time(s): 8:51 10:56
 Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)
 Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.234	0.225	0.100	-3.7	20.0
Chloromethane	0.308	0.254	0.010	-17.4	20.0
Vinyl chloride	0.322	0.268	0.010	-16.7	20.0
Bromomethane	0.224	0.232	0.010	3.4	20.0
Chloroethane	0.177	0.153	0.010	-13.5	20.0
Trichlorofluoromethane	0.487	0.530	0.010	8.7	20.0
1,1-Dichloroethene	0.279	0.259	0.100	-7.4	20.0
Acetone	0.045	0.033	0.010	-27.0	20.0
Iodomethane	0.423	0.466	0.010	10.3	20.0
Carbon disulfide	0.971	0.817	0.010	-15.8	20.0
Methylene chloride	0.326	0.293	0.010	-10.0	20.0
trans-1,2-Dichloroethene	0.309	0.273	0.010	-11.6	20.0
Methyl tert-butyl ether	1.008	1.028	0.010	1.9	20.0
1,1-Dichloroethane	0.601	0.505	0.010	-16.0	20.0
Vinyl acetate	1.281	1.135	0.010	-11.5	20.0
2-Butanone	0.040	0.033	0.010	-18.1	20.0
cis-1,2-Dichloroethene	0.311	0.247	0.010	-20.5	20.0
2,2-Dichloropropane	0.523	0.438	0.010	-16.2	20.0
Bromochloromethane	0.145	0.125	0.010	-14.1	20.0
Chloroform	0.616	0.554	0.010	-10.0	20.0
1,1,1-Trichloroethane	0.541	0.508	0.010	-6.3	20.0
1,1-Dichloropropene	0.136	0.111	0.010	-18.4	20.0
Carbon tetrachloride	0.437	0.427	0.010	-2.3	20.0
1,2-Dichloroethane	0.571	0.586	0.010	2.7	20.0
Benzene	1.164	0.920	0.010	-21.0	20.0
Trichloroethene	0.270	0.227	0.010	-15.9	20.0
1,2-Dichloropropane	0.353	0.283	0.010	-19.9	20.0
Dibromomethane	0.219	0.206	0.010	-5.8	20.0
Bromodichloromethane	0.459	0.429	0.010	-6.4	20.0
cis-1,3-Dichloropropene	0.502	0.434	0.010	-13.4	20.0
4-Methyl-2-pentanone	0.338	0.311	0.010	-8.0	20.0
Toluene	1.240	1.014	0.010	-18.2	20.0
trans-1,3-Dichloropropene	0.490	0.449	0.010	-8.3	20.0
1,1,2-Trichloroethane	0.272	0.236	0.010	-13.0	20.0
1,3-Dichloropropane	0.589	0.520	0.010	-11.7	20.0
Tetrachloroethene	0.314	0.282	0.010	-10.2	20.0
2-Hexanone	0.327	0.294	0.010	-10.0	20.0
Dibromochloromethane	0.406	0.385	0.010	-5.1	20.0
1,2-Dibromoethane	0.380	0.358	0.010	-5.7	20.0
Chlorobenzene	0.963	0.825	0.010	-14.4	20.0

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102

Instrument ID: V10 Calibration Date: 07/01/2011 Time: 18:44

Lab File ID: V8A4321.D Init. Calib. Date(s): 06/29/2011 06/29/2011

EPA Sample No. (VSTD####) VSTD05010L Init. Calib. Time(s): 8:51 10:56

Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
1,1,1,2-Tetrachloroethane	0.377	0.344	0.010	-8.7	20.0
Ethylbenzene	0.509	0.423	0.010	-16.8	20.0
m,p-Xylene	0.617	0.525	0.010	-14.9	20.0
o-Xylene	0.607	0.518	0.010	-14.7	20.0
Xylene (Total)	0.613	0.523	0.010	-14.8	20.0
Styrene	1.039	0.885	0.010	-14.8	20.0
Bromoform	0.288	0.278	0.010	-3.6	20.0
Isopropylbenzene	1.657	1.404	0.300	-15.2	20.0
1,1,2,2-Tetrachloroethane	0.949	0.758	0.300	-20.1	20.0
Bromobenzene	0.848	0.719	0.010	-15.3	20.0
1,2,3-Trichloropropane	1.214	1.052	0.010	-13.4	20.0
2-Chlorotoluene	0.715	0.566	0.010	-20.8	20.0
1,3,5-Trimethylbenzene	2.723	2.169	0.010	-20.3	20.0
4-Chlorotoluene	0.708	0.584	0.010	-17.5	20.0
tert-Butylbenzene	2.548	2.246	0.010	-11.8	20.0
1,2,4-Trimethylbenzene	2.708	2.197	0.010	-18.9	20.0
sec-Butylbenzene	3.101	2.436	0.010	-21.4	20.0
4-Isopropyltoluene	2.445	1.972	0.010	-19.3	20.0
1,3-Dichlorobenzene	1.369	1.137	0.010	-16.9	20.0
1,4-Dichlorobenzene	1.395	1.177	0.010	-15.6	20.0
1,2-Dichlorobenzene	1.363	1.165	0.010	-14.6	20.0
1,2-Dibromo-3-chloropropane	0.204	0.204	0.010	0.3	20.0
1,2,4-Trichlorobenzene	0.761	0.748	0.010	-1.8	20.0
Hexachlorobutadiene	0.429	0.386	0.010	-10.0	20.0
1,2,3-Trichlorobenzene	0.742	0.722	0.010	-2.8	20.0
Naphthalene	1.830	1.704	0.010	-6.9	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.302	0.294	0.010	-2.7	20.0
1,4-Dioxane	0.003	0.003	0.010	2.3	20.0
Cyclohexane	0.517	0.400	0.010	-22.5	20.0
Methyl acetate	0.253	0.248	0.010	-2.0	20.0
Methylcyclohexane	0.449	0.347	0.010	-22.8	20.0

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

CLIENT SAMPLE NO.

BFB10N

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Lab File ID: V8A4401.D BFB Injection Date: 07/06/2011
Instrument ID: V10 BFB Injection Time: 13:12
GC Column: DB-624 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.2
75	30.0 - 60.0% of mass 95	59.9
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	0.7 (0.8)1
174	50.0 - 100.0% of mass 95	88.5
175	5.0 - 9.0% of mass 174	7.1 (8.0)1
176	95.0 - 101.0% of mass 174	86.9 (98.2)1
177	5.0 - 9.0% of mass 176	5.8 (6.7)2

1 - Value is % mass 174

2 - Value is % mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD05010N	VSTD05010N	V8A4402.D	07/06/2011	13:26
02	LCS-60217	LCS-60217	V8A4403.D	07/06/2011	14:00
03	MB-60217	MB-60217	V8A4407.D	07/06/2011	15:36
04	DEC-011RX	K1102-18ARE	V8A4415.D	07/06/2011	18:45

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
 Instrument ID: V10 Calibration Date: 07/06/2011 Time: 13:26
 Lab File ID: V8A4402.D Init. Calib. Date(s): 07/06/2011 07/06/2011
 EPA Sample No. (VSTD####) VSTD05010N Init. Calib. Time(s): 9:48 12:19
 Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)
 Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.463	0.479	0.100	3.4	20.0
Chloromethane	0.281	0.297	0.010	5.5	20.0
Vinyl chloride	0.373	0.386	0.010	3.7	20.0
Bromomethane	0.286	0.304	0.010	6.1	20.0
Chloroethane	0.198	0.213	0.010	7.4	20.0
Trichlorofluoromethane	0.846	0.864	0.010	2.2	20.0
1,1-Dichloroethene	0.336	0.341	0.100	1.7	20.0
Acetone	0.035	0.051	0.010	44.0	20.0
Iodomethane	0.446	0.501	0.010	12.3	20.0
Carbon disulfide	1.088	1.113	0.010	2.3	20.0
Methylene chloride	0.372	0.391	0.010	5.1	20.0
trans-1,2-Dichloroethene	0.365	0.373	0.010	2.2	20.0
Methyl tert-butyl ether	1.247	1.315	0.010	5.4	20.0
1,1-Dichloroethane	0.560	0.583	0.010	4.1	20.0
Vinyl acetate	0.893	0.973	0.010	9.0	20.0
2-Butanone	0.038	0.049	0.010	28.6	20.0
cis-1,2-Dichloroethene	0.301	0.313	0.010	4.1	20.0
2,2-Dichloropropane	0.641	0.660	0.010	3.0	20.0
Bromochloromethane	0.144	0.156	0.010	8.9	20.0
Chloroform	0.720	0.744	0.010	3.3	20.0
1,1,1-Trichloroethane	0.689	0.696	0.010	1.1	20.0
1,1-Dichloropropene	0.136	0.146	0.010	7.2	20.0
Carbon tetrachloride	0.584	0.604	0.010	3.3	20.0
1,2-Dichloroethane	0.699	0.746	0.010	6.6	20.0
Benzene	1.169	1.223	0.010	4.6	20.0
Trichloroethene	0.276	0.290	0.010	4.8	20.0
1,2-Dichloropropane	0.290	0.309	0.010	6.6	20.0
Dibromomethane	0.251	0.268	0.010	7.1	20.0
Bromodichloromethane	0.540	0.570	0.010	5.5	20.0
cis-1,3-Dichloropropene	0.545	0.593	0.010	8.8	20.0
4-Methyl-2-pentanone	0.229	0.265	0.010	16.0	20.0
Toluene	1.298	1.362	0.010	4.9	20.0
trans-1,3-Dichloropropene	0.551	0.612	0.010	11.2	20.0
1,1,2-Trichloroethane	0.279	0.295	0.010	5.8	20.0
1,3-Dichloropropane	0.592	0.642	0.010	8.4	20.0
Tetrachloroethene	0.345	0.328	0.010	-5.0	20.0
2-Hexanone	0.199	0.261	0.010	31.0	20.0
Dibromochloromethane	0.422	0.462	0.010	9.3	20.0
1,2-Dibromoethane	0.360	0.398	0.010	10.6	20.0
Chlorobenzene	0.947	0.994	0.010	5.0	20.0

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102

Instrument ID: V10 Calibration Date: 07/06/2011 Time: 13:26

Lab File ID: V8A4402.D Init. Calib. Date(s): 07/06/2011 07/06/2011

EPA Sample No. (VSTD####) VSTD05010N Init. Calib. Time(s): 9:48 12:19

Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
1,1,1,2-Tetrachloroethane	0.379	0.401	0.010	6.0	20.0
Ethylbenzene	0.500	0.513	0.010	2.6	20.0
m,p-Xylene	0.621	0.639	0.010	2.9	20.0
o-Xylene	0.606	0.632	0.010	4.2	20.0
Xylene (Total)	0.616	0.637	0.010	3.3	20.0
Styrene	1.032	1.108	0.010	7.3	20.0
Bromoform	0.311	0.339	0.010	8.8	20.0
Isopropylbenzene	1.726	1.726	0.300	0.0	20.0
1,1,2,2-Tetrachloroethane	0.777	0.847	0.300	9.0	20.0
Bromobenzene	0.744	0.772	0.010	3.7	20.0
1,2,3-Trichloropropane	1.146	1.234	0.010	7.7	20.0
2-Chlorotoluene	0.622	0.631	0.010	1.5	20.0
1,3,5-Trimethylbenzene	2.587	2.579	0.010	-0.3	20.0
4-Chlorotoluene	0.630	0.656	0.010	4.1	20.0
tert-Butylbenzene	2.302	2.238	0.010	-2.8	20.0
1,2,4-Trimethylbenzene	2.619	2.646	0.010	1.0	20.0
sec-Butylbenzene	2.958	2.836	0.010	-4.1	20.0
4-Isopropyltoluene	2.271	2.242	0.010	-1.3	20.0
1,3-Dichlorobenzene	1.281	1.345	0.010	4.9	20.0
1,4-Dichlorobenzene	1.285	1.359	0.010	5.8	20.0
1,2-Dichlorobenzene	1.268	1.335	0.010	5.3	20.0
1,2-Dibromo-3-chloropropane	0.218	0.234	0.010	7.5	20.0
1,2,4-Trichlorobenzene	0.809	0.902	0.010	11.5	20.0
Hexachlorobutadiene	0.536	0.519	0.010	-3.3	20.0
1,2,3-Trichlorobenzene	0.806	0.905	0.010	12.3	20.0
Naphthalene	1.710	1.934	0.010	13.1	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.398	0.403	0.010	1.4	20.0
1,4-Dioxane	0.003	(0.004)	0.010	30.3	20.0
Cyclohexane	0.341	0.356	0.010	4.4	20.0
Methyl acetate	0.225	0.251	0.010	11.8	20.0
Methylcyclohexane	0.444	0.448	0.010	1.0	20.0

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Klink Cosmo Meeker

Laboratory Workorder / SDG #: K1102

SW846 8270D, SVOA by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8270D

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3510

V. INSTRUMENTATION

The following instrumentation was used
Instrument Code: S3
Instrument Type: GCMS-SEMI
Description: HP6890 / HP5973
Manufacturer: Hewlett-Packard
Model: 6890 / 5973

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits with the following exceptions. Please note that the acceptance criteria allow one surrogate recovery outside of the QC limits per fraction.

DEC-031D (K1102-08D), recovery is above criteria for 2,4,6-Tribromophenol at 138% with criteria of (40-125).

DEC-031 (K1102-09D), recovery is above criteria for 2,4,6-Tribromophenol at 137% with criteria of (40-125).

LCSD-60047, recovery is above criteria for 2,4,6-Tribromophenol at 144% with criteria of (40-125).

MB-60047, recovery is above criteria for 2,4,6-Tribromophenol at 135% with criteria of (40-125).

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits with the following exceptions. Please note that most test procedures allow for several compounds outside of the QC limits for the LCS, although this may indicate a bias for this specific compound.

LCS-60047 in batch 59922, recovery is below criteria for 2-Methylphenol at 38% with criteria of (40-110), and Caprolactam at 13% with criteria of (50-150).

LCSD-60047 in batch 59922, recovery is below criteria for Caprolactam at 15% with criteria of (50-150). Percent Recovery is above criteria for Pentachlorophenol at 121% with criteria of (40-115).

For LCS/LCSD-60047, 2,4-Dinitrophenol exceeded the RPD QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

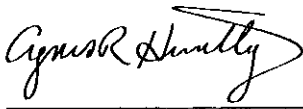
F. Dilutions:

No sample in this SDG required analysis at dilution.

G. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum RI, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed: 

Date: 07/21/11

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.

LCS-60047

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM

Case No.: K1102

Mod. Ref No.:

SDG No.: SK1102

Lab Sample ID: LCS-60047

LCS Lot No.: A079604

Date Extracted: 06/28/2011

Date Analyzed (1): 06/30/2011

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Phenol	50.0000	0.0000	9.4133	19		0 - 115
Bis(2-chloroethyl)ether	50.0000	0.0000	34.5475	69		35 - 110
2-Chlorophenol	50.0000	0.0000	30.8733	62		35 - 105
2-Methylphenol	50.0000	0.0000	19.1906	38	*	40 - 110
2,2'-oxybis(1-Chloropropan	50.0000	0.0000	29.9402	60		30 - 123
N-Nitroso-di-n-propylamine	50.0000	0.0000	34.1143	68		35 - 130
Hexachloroethane	50.0000	0.0000	33.2357	66		30 - 95
Nitrobenzene	50.0000	0.0000	34.5602	69		45 - 110
Isophorone	50.0000	0.0000	38.4874	77		50 - 110
2-Nitrophenol	50.0000	0.0000	37.1194	74		40 - 115
2,4-Dimethylphenol	50.0000	0.0000	34.0398	68		30 - 110
2,4-Dichlorophenol	50.0000	0.0000	38.8977	78		50 - 105
Naphthalene	50.0000	0.0000	36.3354	73		40 - 100
4-Chloroaniline	50.0000	0.0000	40.5971	81		15 - 110
Bis(2-chloroethoxy)methane	50.0000	0.0000	36.9325	74		45 - 105
Hexachlorobutadiene	50.0000	0.0000	32.2993	65		25 - 105
4-Chloro-3-methylphenol	50.0000	0.0000	39.0879	78		45 - 110
2-Methylnaphthalene	50.0000	0.0000	37.8775	76		45 - 105
Hexachlorocyclopentadiene	50.0000	0.0000	45.4816	91		27 - 147
2,4,6-Trichlorophenol	50.0000	0.0000	42.4340	85		50 - 115
2,4,5-Trichlorophenol	50.0000	0.0000	44.7928	90		50 - 110
2-Chloronaphthalene	50.0000	0.0000	40.5228	81		50 - 105
2-Nitroaniline	50.0000	0.0000	42.1582	84		50 - 115
Dimethylphthalate	50.0000	0.0000	40.7333	81		25 - 125
Acenaphthylene	50.0000	0.0000	40.7475	81		50 - 105
2,6-Dinitrotoluene	50.0000	0.0000	43.7859	88		50 - 115
3-Nitroaniline	50.0000	0.0000	43.2087	86		20 - 125
Acenaphthene	50.0000	0.0000	41.1874	82		45 - 110
2,4-Dinitrophenol	50.0000	0.0000	37.5617	75		15 - 140
4-Nitrophenol	50.0000	0.0000	9.4781	19		0 - 125
Dibenzofuran	50.0000	0.0000	40.7201	81		55 - 105
2,4-Dinitrotoluene	50.0000	0.0000	39.2228	78		50 - 120
Diethylphthalate	50.0000	0.0000	38.3485	77		40 - 120
4-Chlorophenyl-phenylether	50.0000	0.0000	43.0332	86		50 - 110
Fluorene	50.0000	0.0000	41.5131	83		50 - 110
4-Nitroaniline	50.0000	0.0000	41.3010	83		35 - 120
4,6-Dinitro-2-methylphenol	50.0000	0.0000	42.3010	85		40 - 130
N-Nitrosodiphenylamine	50.0000	0.0000	43.1887	86		50 - 110
4-Bromophenyl-phenylether	50.0000	0.0000	49.8873	100		50 - 115
Hexachlorobenzene	50.0000	0.0000	53.7029	107		50 - 110
Pentachlorophenol	50.0000	0.0000	50.3071	101		40 - 115
Phenanthrene	50.0000	0.0000	42.6102	85		50 - 115
Anthracene	50.0000	0.0000	43.0330	86		55 - 110
Carbazole	50.0000	0.0000	43.5483	87		50 - 115

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.

LCS-60047

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM

Case No.: K1102

Mod. Ref No.:

SDG No.: SK1102

Lab Sample ID: LCS-60047

LCS Lot No.:

A079604

Date Extracted: 06/28/2011

Date Analyzed (1): 06/30/2011

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Di-n-butylphthalate	50.0000	0.0000	42.2436	84		55 - 115
Fluoranthene	50.0000	0.0000	43.2033	86		55 - 115
Pyrene	50.0000	0.0000	37.6851	75		50 - 130
Butylbenzylphthalate	50.0000	0.0000	39.0034	78		45 - 115
3,3'-Dichlorobenzidine	50.0000	0.0000	51.8558	104		20 - 110
Benzo(a)anthracene	50.0000	0.0000	43.6516	87		55 - 110
Chrysene	50.0000	0.0000	40.9023	82		55 - 110
Bis(2-ethylhexyl)phthalate	50.0000	0.0000	38.3710	77		40 - 125
Di-n-octylphthalate	50.0000	0.0000	37.0673	74		35 - 135
Benzo(b)fluoranthene	50.0000	0.0000	52.2619	105		45 - 120
Benzo(k)fluoranthene	50.0000	0.0000	31.7999	64		45 - 125
Benzo(a)pyrene	50.0000	0.0000	40.6765	81		55 - 110
Indeno(1,2,3-cd)pyrene	50.0000	0.0000	43.8815	88		45 - 125
Dibenzo(a,h)anthracene	50.0000	0.0000	42.5430	85		40 - 125
Benzo(g,h,i)perylene	50.0000	0.0000	42.8621	86		40 - 125
1,1'-Biphenyl	50.0000	0.0000	41.2009	82		55 - 108
3-Methylphenol + 4-Methylp	50.0000	0.0000	22.1550	44		30 - 110
Acetophenone	50.0000	0.0000	35.3228	71		50 - 150
Atrazine	50.0000	0.0000	49.7972	100		52 - 175
Benzaldehyde	50.0000	0.0000	32.8297	66		50 - 150
Caprolactam	50.0000	0.0000	6.4087	13	*	50 - 150

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 2 out of 65 outside limits

COMMENTS:

5B - FORM V SV
SEMIVOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

EPA SAMPLE NO.

DFTPP3H

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Lab File ID: S3H4440.D DFTPP Injection Date: 06/30/2011
Instrument ID: S3 DFTPP Injection Time: 11:23

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	50.2
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	48.6
70	Less than 2.0% of mass 69	0.2 (0.4)1
127	40.0 - 60.0% of mass 198	54.3
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.6
275	10.0 - 30.0% of mass 198	24.3
365	Greater than 1.0% of mass 198	2.7
441	Present, but less than mass 443	11.3
442	40.0 - 99.9% of mass 198	71.4
443	17.0 - 23.0% of mass 442	13.9 (19.5)2

1 - Value is % mass 69

2 - Value is % mass 442

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0253H	SSTD0253H	S3H4441.D	06/30/2011	11:45
02	MB-60047	MB-60047	S3H4442.D	06/30/2011	12:12
03	LCS-60047	LCS-60047	S3H4443.D	06/30/2011	12:33
04	LCSD-60047	LCSD-60047	S3H4444.D	06/30/2011	12:53
05	DEC-031D	K1102-08D	S3H4445.D	06/30/2011	13:13
06	DEC-031	K1102-09D	S3H4446.D	06/30/2011	13:34

7E - FORM VII SV-1
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC.	Contract:
Lab Code: MITKEM Case No.: K1102	Mod. Ref No.: SDG No.: SK1102
Instrument ID: S3	Calibration Date: 06/30/2011 Time: 11:45
Lab File ID: S3H4441.D	Init. Calib. Date(s): 05/19/2011 05/19/2011
EPA Sample No. (SSTD020##) SSTD0253H	Init. Calib. Time(s): 12:17 14:08
GC Column: Rxi-5sil MS ID: 0.25 (mm)	

COMPOUND	RRF	RRF025	MIN RRF	%D	MAX %D
Phenol	1.838	1.748	0.010	-4.9	20.0
Bis(2-chloroethyl)ether	1.376	1.222	0.010	-11.1	20.0
2-Chlorophenol	1.444	1.317	0.010	-8.8	20.0
2-Methylphenol	1.383	1.324	0.010	-4.3	20.0
2,2'-oxybis(1-Chloropropane)	2.261	1.851	0.010	-18.1	20.0
N-Nitroso-di-n-propylamine	1.245	1.072	0.050	-13.9	20.0
Hexachloroethane	0.583	0.558	0.010	-4.2	20.0
Nitrobenzene	0.417	0.369	0.010	-11.5	20.0
Isophorone	0.760	0.701	0.010	-7.8	20.0
2-Nitrophenol	0.213	0.193	0.010	-9.4	20.0
2,4-Dimethylphenol	0.405	0.367	0.010	-9.4	20.0
2,4-Dichlorophenol	0.340	0.319	0.010	-6.0	20.0
Naphthalene	1.042	0.947	0.010	-9.1	20.0
4-Chloroaniline	0.455	0.448	0.010	-1.5	20.0
Bis(2-chloroethoxy)methane	0.428	0.390	0.010	-8.7	20.0
Hexachlorobutadiene	0.202	0.180	0.010	-10.9	20.0
4-Chloro-3-methylphenol	0.396	0.375	0.010	-5.2	20.0
2-Methylnaphthalene	0.794	0.730	0.010	-8.0	20.0
Hexachlorocyclopentadiene	0.300	0.314	0.050	4.9	20.0
2,4,6-Trichlorophenol	0.387	0.355	0.010	-8.2	20.0
2,4,5-Trichlorophenol	0.417	0.397	0.010	-4.8	20.0
2-Chloronaphthalene	1.114	1.008	0.010	-9.5	20.0
2-Nitroaniline	0.429	0.372	0.010	-13.4	20.0
Dimethylphthalate	1.479	1.284	0.010	-13.2	20.0
Acenaphthylene	1.848	1.683	0.010	-8.9	20.0
2,6-Dinitrotoluene	0.358	0.309	0.010	-13.9	20.0
3-Nitroaniline	0.363	0.338	0.010	-7.0	20.0
Acenaphthene	1.168	1.045	0.010	-10.6	20.0
2,4-Dinitrophenol	0.219	0.172	0.050	-21.4	20.0
4-Nitrophenol	0.307	0.263	0.050	-14.2	20.0
Dibenzofuran	1.687	1.471	0.010	-12.8	20.0
2,4-Dinitrotoluene	0.497	0.415	0.010	-16.5	20.0
Diethylphthalate	1.567	1.367	0.010	-12.8	20.0
4-Chlorophenyl-phenylether	0.679	0.609	0.010	-10.2	20.0
Fluorene	1.462	1.331	0.010	-9.0	20.0
4-Nitroaniline	0.414	0.353	0.010	-14.7	20.0
4,6-Dinitro-2-methylphenol	0.168	0.149	0.010	-11.3	20.0
N-Nitrosodiphenylamine	0.660	0.615	0.010	-6.9	20.0
4-Bromophenyl-phenylether	0.207	0.209	0.010	1.2	20.0
Hexachlorobenzene	0.218	0.231	0.010	6.4	20.0
Pentachlorophenol	0.155	0.157	0.010	1.1	20.0
Phenanthrene	1.137	1.063	0.010	-6.5	20.0

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Klink Cosmo Meeker

Laboratory Workorder / SDG #: K1102

SW846 8081B, Organochlorine Pesticides by GC-ECD

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8081B

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3510

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: E5

Instrument Type: GC-ECD

Description: HP6890

Manufacturer: Hewlett-Packard

Model: 6890

GC Column used: 30 m X 0.53 mm ID [0.50 um thickness] CLPPest capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control sample were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Dilutions:

No sample in this SDG required analysis at dilution.

F. Samples:

The lower concentration between the primary and confirmatory GC column concentrations is reported due to the presence of interferences unless otherwise indicated on Form 10. Both values are reported on Form 10. P flags are assigned to compounds on Form 1 when D% between the two columns is greater than 40%.

No unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum RI, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed: _____

Date: 07/21/11

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE NO.

DEC-031

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1102 Mod. Ref No.: _____ SDG No.: SK1102
Lab Sample ID: K1102-09D Date(s) Analyzed: 06/30/2011 06/30/2011
Instrument ID (1): E5 Instrument ID (2): E5
GC Column(1): CLPPest ID: 0.53 (mm) GC Column(2): CLPPestII ID: 0.53 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
gamma-BHC (Lindane)	1	3.986	3.924	4.024	0.077	49.7
	2	4.716	4.660	4.760	0.051	

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Klink Cosmo Meeker

Laboratory Workorder / SDG #: K1102

SW846 8082A, PCB by GC-ECD

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8082A

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3510

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: E2

Instrument Type: GC-ECD

Description: HP5890 II +

Manufacturer: Hewlett-Packard

Model: 5890

GC Column used: 30 m X 0.53 mm ID [0.50 um thickness] CLPPest capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control sample were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Dilutions:

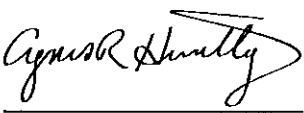
No sample in this SDG required analysis at dilution.

F. Samples:

The lower concentration between the primary and confirmatory GC column concentrations is reported due to the presence of interferences unless otherwise indicated on Form 10. Both values are reported on Form 10. P flags are assigned to compounds on Form 1 when D% between the two columns is greater than 40%.

No unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum RI, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed: _____

Date: 07/21/11

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Klink Cosmo Meeker

Laboratory Workorder / SDG #: K1102

SW846 6010C, SW846 7470A, SW846 9012B

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 6010C, SW846 7470A, SW846 9012B

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW9012B

Aqueous Samples were prepared following procedures in laboratory test code: SW3005

Aqueous Samples were prepared following procedures in laboratory test

code: SW7470A

V. INSTRUMENTATION

The following instrumentation was used to perform

Instrument Code: FIMS1
Instrument Type: CVAA
Description: FIMS
Manufacturer: Perkin-Elmer
Model: FIMS

Instrument Code: LACHAT1
Instrument Type: WC
Description: Flow Injection Analyzer
Manufacturer: Zellweger Analytics
Model: Quik-Chem 8000

Instrument Code: OPTIMA3
Instrument Type: ICP
Description: Optima ICP-OES
Manufacturer: Perkin-Elmer
Model: 4300 DV

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for laboratory control samples were within the QC limits.

2. Matrix spike (MS):

A matrix spike was not performed on any sample in this SDG.

D. Post Digestion Spike (PDS):

A post-digestion spike was not performed on any sample in this SDG.

E. Duplicate sample:

A duplicate analysis was not performed on any sample in this SDG.


F. Serial Dilution (SD):

A serial dilution was not performed on any sample in this SDG.

G. Samples:

No unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum RI, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed:  _____

Date: 07/21/11

CHAIN OF CUSTODY RECORD

PROJECT NO. 11176390

SITE NAME Klink/Cosmo

SAMPLERS (PRINT/SIGNATURE) C. Friedman / Amy P. L.

DELIVERY SERVICE: Courier AIRBILL NO.:

URS

LAB M. H. Kern

COOLER 2 of 2

PAGE 1 of 2

TESTS

TEL 125 + 7.5

BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (RPPMS ONLY)
DEC-022	6/22/11	1440		DEC-022D	WG	3					
DEC-032		11014		DEC-032							
DEC-060		1745		DEC-060D							
↓	↓	1837		DEC-060							
DEC-044	6/23/11	755		DEC-044D							
↓		905		DEC-044							
DEC-013		1040		DEC-013D							
↓		1150		DEC-013							
DEC-042		1320		DEC-042							
DEC-008		1440		DEC-008							
DEC-009	↓	1427		DEC-009							
	6/23/11			DUP-062311							
				TB							
					WG						

MATRIX CODES	AA - AMBIENT AIR	SE - SEDIMENT	SH - HAZARDOUS SOLID WASTE	SL - SLUDGE	WP - DRINKING WATER	WW - WASTE WATER	WG - GROUND WATER	WL - LEACHATE	WO - OCEAN WATER	WS - SURFACE WATER	WQ - WATER FIELD QC	LH - HAZARDOUS LIQUID WASTE	LF - FLOATING/FREE PRODUCT ON GW TABLE
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SAMPLE TYPE CODES	TB# - TRIP BLANK	SD# - MATRISPIKE-DUPPLICATE	RB# - RINSE BLANK	FR# - FIELD REPLICATE	MS# - MATRIX SPIKE	N# - NORMAL ENVIRONMENTAL SAMPLE	# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)
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RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME	SPECIAL INSTRUCTIONS
Amy P. L.	6/24/11	1325	AT	6/25/11	6:24	Please call George Kistuk w/any questions
Raymond	6/27/11	10:20				Temp - 10°C samples just taken

Distribution: Original accompanies shipment, copy to coordinator field files

OC, 10, 15C

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Klink Cosmo Meeker

Laboratory Workorder / SDG #: K1110

SW846 8260C, VOC by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8260C

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW5030

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: V10
Instrument Type: GCMS-VOA
Description: HP7890A
Manufacturer: Agilent
Model: 7890A / 5975C
GC Column used: 30 m X 0.25 mm ID [1.40 um thickness] DB-624
capillary column.

Instrument Code: V6
Instrument Type: GCMS-VOA
Description: HP6890 / HP5973
Manufacturer: Hewlett-Packard
Model: 6890 / 5973
GC Column used: 30 m X 0.25 mm ID [1.40 um thickness] DB-624
capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits with the following exceptions. Please note that the acceptance criteria allow one surrogate recovery outside of the QC limits per fraction.

DEC-009 (K1110-10A), recovery is above criteria for Dibromofluoromethane at 115% with criteria of (85-115).

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits with the following exceptions. Please note that most test procedures allow for several compounds outside of the QC limits for the LCS, although this may indicate a bias for this specific

compound.

LCS-60019 in batch 60019, recovery is above criteria for Iodomethane at 125% with criteria of (72-121).

LCS-60151 in batch 60151, recovery is above criteria for Iodomethane at 133% with criteria of (72-121).

LCS-60176 in batch 60176, recovery is above criteria for Iodomethane at 126% with criteria of (72-121), recovery is below criteria for Cyclohexane at 66% with criteria of (70-130).

LCSD-60102 in batch 60102, recovery is above criteria for 1,2,4-Trichlorobenzene at 138% with criteria of (65-135) and Iodomethane at 139% with criteria of (72-121).

LCSD-60151 in batch 60151, recovery is above criteria for 1,1,1-Trichloroethane at 130% with criteria of (65-130), 1,1,2-Trichloro-1,2,2-trifluoroethane at 136% with criteria of (70-130), Iodomethane at 153% with criteria of (72-121) and Trichlorofluoromethane at 155% with criteria of (60-145).

LCSD-60176 in batch 60176, recovery is above criteria for Iodomethane at 127% with criteria of (72-121), recovery is below criteria for Cyclohexane at 68% with criteria of (70-130).

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: DEC-048 (K1110-19AMS) and DEC-048 (K1110-19AMSD).

Percent recoveries were within the QC limits with the following exceptions:

DEC-048 (K1110-19AMS), recovery is above criteria for 1,4-Dioxane at 131% with criteria of (70-130).

DEC-048 (K1110-19AMSD), recovery is above criteria for 1,4-Dioxane at 132% with criteria of (70-130).

Replicate RPDs were within the QC limits.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

The following samples were re-analyzed at dilution:

DEC-022D (K1110-01ADL) : Dilution Factor: 16
DEC-044D (K1110-05ADL) : Dilution Factor: 5
DEC-044 (K1110-06ADL) : Dilution Factor: 20
DEC-008 (K1110-09ADL) : Dilution Factor: 25
DUP-062311 (K1110-11ADL) : Dilution Factor: 2
DEC-014R (K1110-12ADL) : Dilution Factor: 500
DEC-029 (K1110-14ADL) : Dilution Factor: 100
DEC-039 (K1110-17ADL) : Dilution Factor: 2
DEC-027 (K1110-18ADL) : Dilution Factor: 10
DUP-062411 (K1110-20ADL) : Dilution Factor: 2
DEC-013 (K1110-22ADL) : Dilution Factor: 40

G. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum RI, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed: 

Date: 07/25/11

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE RECOVERY

CLIENT SAMPLE NO.

LCS-60176

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM

Case No.: K1110

Mod. Ref No.:

SDG No.: SK1110

Lab Sample ID: LCS-60176

LCS Lot No.:

Date Extracted: 07/05/2011

Date Analyzed (1): 07/05/2011

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Xylene (Total)	150.0000	0.0000	151.9736	101		81 - 121
Styrene	50.0000	0.0000	51.3468	103		65 - 135
Bromoform	50.0000	0.0000	57.9949	116		70 - 130
Isopropylbenzene	50.0000	0.0000	52.7279	105		75 - 125
1,1,2,2-Tetrachloroethane	50.0000	0.0000	43.4489	87		65 - 130
Bromobenzene	50.0000	0.0000	44.8714	90		75 - 125
1,2,3-Trichloropropane	50.0000	0.0000	49.3703	99		75 - 125
2-Chlorotoluene	50.0000	0.0000	44.4094	89		75 - 125
1,3,5-Trimethylbenzene	50.0000	0.0000	51.8916	104		75 - 130
4-Chlorotoluene	50.0000	0.0000	46.6069	93		75 - 130
tert-Butylbenzene	50.0000	0.0000	46.9719	94		70 - 130
1,2,4-Trimethylbenzene	50.0000	0.0000	50.0176	100		75 - 130
sec-Butylbenzene	50.0000	0.0000	48.7571	98		70 - 125
4-Isopropyltoluene	50.0000	0.0000	48.0284	96		75 - 130
1,3-Dichlorobenzene	50.0000	0.0000	48.5796	97		75 - 125
1,4-Dichlorobenzene	50.0000	0.0000	48.6984	97		75 - 125
1,2-Dichlorobenzene	50.0000	0.0000	48.8311	98		70 - 120
1,2-Dibromo-3-chloropropan	50.0000	0.0000	55.8240	112		50 - 130
1,2,4-Trichlorobenzene	50.0000	0.0000	59.4831	119		65 - 135
Hexachlorobutadiene	50.0000	0.0000	64.8205	130		50 - 140
1,2,3-Trichlorobenzene	50.0000	0.0000	60.4439	121		55 - 140
Naphthalene	50.0000	0.0000	50.7843	102		55 - 140
1,1,2-Trichloro-1,2,2-trif	50.0000	0.0000	60.5456	121		70 - 130
1,4-Dioxane	1000.0000	0.0000	1025.8827	103		70 - 130
Cyclohexane	50.0000	0.0000	32.8293	66	*	70 - 130
Methyl acetate	50.0000	0.0000	46.1571	92		70 - 130
Methylcyclohexane	50.0000	0.0000	49.6360	99		70 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 2 out of 71 outside limits

COMMENTS:

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE DUPLICATE RECOVERY

EPA SAMPLE NO.

LCSD-60176

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM

Case No.: K1110

Mod. Ref No.:

SDG No.: SK1110

Lab Sample ID: LCSD-60176

LCS Lot No.:

COMPOUND	SPIKE ADDED	LCSD CONCENTRATION	LCSD %REC	#	%RPD	#	QC LIMITS	
							RPD	REC.
Bromoform	50.0000	56.1791	112		4		40	70 - 130
Isopropylbenzene	50.0000	53.6729	107		2		40	75 - 125
1,1,2,2-Tetrachloroethane	50.0000	42.1849	84		4		40	65 - 130
Bromobenzene	50.0000	43.5094	87		3		40	75 - 125
1,2,3-Trichloropropane	50.0000	48.3918	97		2		40	75 - 125
2-Chlorotoluene	50.0000	43.0819	86		3		40	75 - 125
1,3,5-Trimethylbenzene	50.0000	51.0355	102		2		40	75 - 130
4-Chlorotoluene	50.0000	44.8015	90		3		40	75 - 130
tert-Butylbenzene	50.0000	45.2256	90		4		40	70 - 130
1,2,4-Trimethylbenzene	50.0000	49.5012	99		1		40	75 - 130
sec-Butylbenzene	50.0000	48.8298	98		0		40	70 - 125
4-Isopropyltoluene	50.0000	48.4555	97		1		40	75 - 130
1,3-Dichlorobenzene	50.0000	47.3970	95		2		40	75 - 125
1,4-Dichlorobenzene	50.0000	47.2501	95		2		40	75 - 125
1,2-Dichlorobenzene	50.0000	47.3105	95		3		40	70 - 120
1,2-Dibromo-3-chloropropan	50.0000	55.4024	111		1		40	50 - 130
1,2,4-Trichlorobenzene	50.0000	60.2824	121		2		40	65 - 135
Hexachlorobutadiene	50.0000	62.1599	124		5		40	50 - 140
1,2,3-Trichlorobenzene	50.0000	60.0621	120		1		40	55 - 140
Naphthalene	50.0000	50.9006	102		0		40	55 - 140
1,1,2-Trichloro-1,2,2-trif	50.0000	60.8210	122		1		40	70 - 130
1,4-Dioxane	1000.0000	1058.6740	106		3		40	70 - 130
Cyclohexane	50.0000	34.0041	68		*	3	40	70 - 130
Methyl acetate	50.0000	46.8815	94		2		40	70 - 130
Methylcyclohexane	50.0000	50.7786	102		3		40	70 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 71 outside limits

Spike Recovery: 2 out of 71 outside limits

COMMENTS:

6B - FORM VI VOA-2
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
 Instrument ID: V6 Calibration Date(s): 06/10/2011 06/10/2011
 Heated Purge: (Y/N) N Calibration Time(s): 12:51 15:00
 Purge Volume: 5.0 (mL)
 GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

LAB FILE ID: _____	RRF005 = V6I1459.D	RRF020 = V6I1458.D					
RRF050 = V6I1457.D	RRF100 = V6I1461.D	RRF200 = V6I1460.D					
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF	%RSD
Dichlorodifluoromethane	0.167	0.151	0.127	0.159	0.157	0.152	10.1
Chloromethane	0.262	0.195	0.199	0.202	0.209	0.213	12.9
Vinyl chloride	0.227	0.188	0.179	0.205	0.197	0.199	9.1
Bromomethane	0.130	0.132	0.126	0.141	0.133	0.132	4.2
Chloroethane	0.140	0.100	0.093	0.105	0.099	0.107	17.4
Trichlorofluoromethane	0.348	0.318	0.280	0.346	0.358	0.330	9.6
1,1-Dichloroethene	0.224	0.185	0.169	0.208	0.209	0.199	11.0
Acetone	0.028	0.027	0.017	0.020	0.019	0.022	23.2
Iodomethane	0.398	0.351	0.328	0.389	0.373	0.368	7.7
Carbon disulfide	0.765	0.643	0.602	0.698	0.684	0.679	9.1
Methylene chloride	0.264	0.237	0.202	0.233	0.224	0.232	9.6
trans-1,2-Dichloroethene	0.244	0.205	0.186	0.220	0.214	0.214	10.0
Methyl tert-butyl ether	0.525	0.508	0.472	0.562	0.526	0.519	6.3
1,1-Dichloroethane	0.452	0.397	0.366	0.419	0.406	0.408	7.7
Vinyl acetate	0.883	0.836	0.770	0.878	0.822	0.838	5.5
2-Butanone	0.024	0.024	0.020	0.023	0.021	0.022	7.8
cis-1,2-Dichloroethene	0.252	0.222	0.203	0.237	0.232	0.229	7.8
2,2-Dichloropropane	0.252	0.206	0.206	0.236	0.229	0.226	9.0
Bromochloromethane	0.124	0.110	0.101	0.118	0.112	0.113	7.4
Chloroform	0.461	0.400	0.360	0.413	0.402	0.407	8.8
1,1,1-Trichloroethane	0.353	0.276	0.281	0.333	0.329	0.314	10.8
1,1-Dichloropropene	0.112	0.096	0.090	0.110	0.110	0.103	9.8
Carbon tetrachloride	0.410	0.296	0.260	0.317	0.322	0.321	17.2
1,2-Dichloroethane	0.332	0.311	0.286	0.325	0.318	0.314	5.7
Benzene	0.935	0.828	0.782	0.878	0.840	0.853	6.7
Trichloroethene	0.237	0.199	0.190	0.227	0.226	0.216	9.2
1,2-Dichloropropane	0.284	0.257	0.237	0.272	0.267	0.263	6.7
Dibromomethane	0.143	0.140	0.126	0.148	0.143	0.140	5.8
Bromodichloromethane	0.293	0.275	0.259	0.308	0.304	0.288	7.1
cis-1,3-Dichloropropene	0.342	0.340	0.326	0.389	0.374	0.354	7.4
4-Methyl-2-pentanone	0.178	0.187	0.176	0.211	0.194	0.189	7.6
Toluene	0.999	0.872	0.819	0.936	0.907	0.907	7.4
trans-1,3-Dichloropropene	0.322	0.309	0.292	0.350	0.342	0.323	7.3
1,1,2-Trichloroethane	0.195	0.175	0.162	0.192	0.185	0.182	7.3
1,3-Dichloropropane	0.413	0.395	0.359	0.416	0.400	0.397	5.8
Tetrachloroethene	0.252	0.196	0.196	0.239	0.234	0.224	11.6
2-Hexanone	0.167	0.169	0.161	0.190	0.181	0.174	6.7
Dibromochloromethane	0.278	0.263	0.252	0.309	0.309	0.282	9.3
1,2-Dibromoethane	0.255	0.242	0.224	0.269	0.259	0.250	6.9

6C - FORM VI VOA-3
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110

Instrument ID: V6 Calibration Date(s): 06/10/2011 06/10/2011

Heated Purge: (Y/N) N Calibration Time(s): 12:51 15:00

Purge Volume: 5.0 (mL)

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

LAB FILE ID: _____	RRF005 = <u>V6I1459.D</u>	RRF020 = <u>V6I1458.D</u>					
RRF050 = <u>V6I1457.D</u>	RRF100 = <u>V6I1461.D</u>	RRF200 = <u>V6I1460.D</u>					
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF	%RSD
Chlorobenzene	0.822	0.743	0.682	0.793	0.765	0.761	7.0
1,1,1,2-Tetrachloroethane	0.293	0.264	0.250	0.292	0.295	0.279	7.4
Ethylbenzene	0.400	0.347	0.346	0.412	0.411	0.383	8.8
m,p-Xylene	0.469	0.429	0.421	0.494	0.473	0.457	6.8
o-Xylene	0.440	0.429	0.424	0.496	0.486	0.455	7.3
Xylene (Total)	0.459	0.429	0.422	0.495	0.477	0.457	6.8
Styrene	0.768	0.764	0.749	0.852	0.818	0.790	5.5
Bromoform	0.167	0.176	0.167	0.206	0.208	0.185	11.2
Isopropylbenzene	1.005	0.940	0.985	1.152	1.120	1.041	8.8
1,1,2,2-Tetrachloroethane	0.584	0.568	0.496	0.588	0.533	0.554	7.1
Bromobenzene	0.646	0.576	0.531	0.634	0.608	0.599	7.8
1,2,3-Trichloropropane	0.655	0.619	0.567	0.685	0.650	0.635	7.1
2-Chlorotoluene	0.533	0.478	0.467	0.558	0.542	0.516	7.9
1,3,5-Trimethylbenzene	1.597	1.460	1.445	1.743	1.627	1.575	7.9
4-Chlorotoluene	0.616	0.536	0.502	0.587	0.568	0.562	7.9
tert-Butylbenzene	1.451	1.343	1.330	1.637	1.558	1.464	9.1
1,2,4-Trimethylbenzene	1.663	1.570	1.537	1.801	1.702	1.655	6.4
sec-Butylbenzene	1.812	1.591	1.565	1.925	1.779	1.734	8.8
4-Isopropyltoluene	1.405	1.295	1.310	1.602	1.494	1.421	9.1
1,3-Dichlorobenzene	1.155	0.999	0.945	1.087	1.035	1.044	7.7
1,4-Dichlorobenzene	1.211	1.070	0.973	1.140	1.072	1.093	8.1
1,2-Dichlorobenzene	1.104	1.003	0.914	1.080	0.996	1.019	7.4
1,2-Dibromo-3-chloropropane	0.122	0.100	0.083	0.110	0.099	0.103	14.3
1,2,4-Trichlorobenzene	0.696	0.598	0.487	0.673	0.577	0.606	13.8
Hexachlorobutadiene	0.419	0.288	0.207	0.321	0.241	0.295	27.8
1,2,3-Trichlorobenzene	0.783	0.569	0.409	0.618	0.484	0.572	24.8
Naphthalene	1.864	1.510	1.116	1.662	1.289	1.488	19.9
1,1,2-Trichloro-1,2,2-trifluoroethane	0.212	0.174	0.164	0.213	0.214	0.195	12.4
1,4-Dioxane	0.003	0.002	0.001	0.002	0.001	0.002	43.4
Cyclohexane	0.305	0.274	0.271	0.349	0.353	0.311	12.7
Methyl acetate	0.184	0.184	0.147	0.171	0.157	0.169	9.9
Methylcyclohexane	0.234	0.209	0.211	0.279	0.271	0.241	13.8

6C - FORM VI VOA-3
VOLATILE ORGANICS INITIAL CALIBRATION DATA
Contract:

Lab Name: Spectrum Analytical, Inc.

Lab Code: MITKEM Case No.: K1110 SAS No.: SDG No.: SK1110

Instrument ID: V10 Calibration Date(s): 07/06/2011 07/06/2011

Heated Purge: (Y/N) N Calibration Times: 9:48 12:19

Purge Volume: 5 (mL)

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (mm)

LAB FILE ID: RRF005 = V8A4395.D RRF020 = V8A4394.D RRF050 = V8A4393.D RRF100 = V8A4399.D RRF200 = V8A4398.D										
RRF005 = V8A4395.D										
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF005			RRF	% RSD
Dichlorodifluoromethane	0.508	0.394	0.467	0.452	0.449	0.508			0.463	9.3
Chloromethane	0.308	0.248	0.285	0.291	0.249	0.308			0.281	9.6
Vinyl chloride	0.414	0.306	0.377	0.384	0.341	0.414			0.373	11.3
Bromomethane	0.296	0.235	0.281	0.310	0.300	0.296			0.286	9.4
Chloroethane	0.210	0.172	0.192	0.213	0.193	0.210			0.198	8.1
Trichlorofluoromethane	0.934	0.709	0.840	0.815	0.840	0.934			0.846	9.9
1,1-Dichloroethene	0.379	0.276	0.328	0.323	0.327	0.379			0.336	11.6
Acetone	0.036	0.030	0.026	0.042	0.044	0.036			0.035	19.6
Iodomethane	0.430	0.356	0.497	0.496	0.469	0.430			0.446	12.0
Carbon disulfide	1.248	0.916	1.117	1.005	0.996	1.248			1.088	12.8
Methylene chloride	0.412	0.329	0.369	0.354	0.357	0.412			0.372	9.0
trans-1,2-Dichloroethene	0.421	0.301	0.362	0.335	0.350	0.421			0.365	13.1
Methyl tert-butyl ether	1.332	1.134	1.213	1.232	1.239	1.332			1.247	6.0
1,1-Dichloroethane	0.618	0.483	0.565	0.531	0.547	0.618			0.560	9.3
Vinyl acetate	0.921	0.806	0.886	0.904	0.918	0.921			0.893	5.0
2-Butanone	0.035	0.036	0.034	0.044	0.045	0.035			0.038	13.1
cis-1,2-Dichloroethene	0.331	0.257	0.298	0.287	0.300	0.331			0.301	9.3
2,2-Dichloropropane	0.705	0.523	0.652	0.604	0.654	0.705			0.641	10.7
Bromochloromethane	0.152	0.128	0.141	0.143	0.145	0.152			0.144	6.0
Chloroform	0.796	0.616	0.718	0.683	0.713	0.796			0.720	9.6
1,1,1-Trichloroethane	0.762	0.575	0.689	0.649	0.696	0.762			0.689	10.3
1,1-Dichloropropene	0.150	0.114	0.131	0.132	0.140	0.150			0.136	10.0
Carbon tetrachloride	0.620	0.485	0.585	0.572	0.624	0.620			0.584	9.1
1,2-Dichloroethane	0.739	0.631	0.689	0.685	0.714	0.739			0.699	5.9
Benzene	1.276	0.987	1.172	1.124	1.178	1.276			1.169	9.2
Trichloroethene	0.299	0.233	0.278	0.267	0.282	0.299			0.276	9.0
1,2-Dichloropropane	0.308	0.251	0.290	0.284	0.300	0.308			0.290	7.4

50ml110701.A

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

SW846

6C - FORM VI VOA-3
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc.

Contract:

Lab Code: MITKEM Case No.: K1110 SAS No.: SDG No.: SK1110

Instrument ID: V10 Calibration Date(s): 07/06/2011 07/06/2011

Heated Purge: (Y/N) N Calibration Times: 9:48 12:19

Purge Volume: 5 (mL)

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (mm)

LAB FILE ID: RRF005 = V8A4395.D RRF020 = V8A4394.D RRF050 = V8A4393.D RRF100 = V8A4399.D RRF200 = V8A4398.D
RRF005 = V8A4395.D

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF005	RRF	% RSD
tert-Butylbenzene	2.548	2.046	2.058	2.277	2.337	2.548	2.302	9.7
1,2,4-Trimethylbenzene	2.834	2.341	2.437	2.612	2.655	2.834	2.619	7.7
sec-Butylbenzene	3.256	2.599	2.642	2.973	3.021	3.256	2.958	9.7
4-Isopropyltoluene	2.430	1.990	2.081	2.314	2.383	2.430	2.271	8.3
1,3-Dichlorobenzene	1.393	1.149	1.208	1.266	1.280	1.393	1.281	7.6
1,4-Dichlorobenzene	1.357	1.173	1.219	1.294	1.308	1.357	1.285	5.8
1,2-Dichlorobenzene	1.362	1.164	1.196	1.260	1.268	1.362	1.268	6.5
1,2-Dibromo-3-chloropropane	0.224	0.204	0.197	0.230	0.228	0.224	0.218	6.3
1,2,4-Trichlorobenzene	0.718	0.736	0.779	0.938	0.967	0.718	0.809	14.0
Hexachlorobutadiene	0.613	0.481	0.477	0.516	0.517	0.613	0.536	11.5
1,2,3-Trichlorobenzene	0.752	0.744	0.767	0.904	0.915	0.752	0.806	10.0
Naphthalene	1.657	1.483	1.521	1.970	1.972	1.657	1.710	12.5
1,1,2-Trichloro-1,2,2-trifluoro	0.447	0.327	0.382	0.383	0.399	0.447	0.398	11.4
1,4-Dioxane	0.003	0.003	0.003	0.003	0.003	0.003	0.003	7.5
Cyclohexane	0.372	0.280	0.323	0.337	0.362	0.372	0.341	10.5
Methyl acetate	0.234	0.213	0.205	0.236	0.225	0.234	0.225	5.7
Methylcyclohexane	0.470	0.381	0.407	0.449	0.466	0.470	0.444	9.3

6C - FORM VI VOA-3
VOLATILE ORGANICS INITIAL CALIBRATION DATA
Contract:

Lab Name: Spectrum Analytical, Inc.

Lab Code: MITKEM Case No.: K1110 SAS No.: SK1110

Instrument ID: V10 Calibration Date(s): 06/29/2011 06/29/2011

Heated Purge: (Y/N) N Calibration Times: 8:51 10:56

Purge Volume: 5 (mL)

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (mm)

LAB FILE ID: RRF005 = <u>V8A4203.D</u> RRF020 = <u>V8A4204.D</u> RRF050 = <u>V8A4205.D</u> RRF100 = <u>V8A4206.D</u> RRF200 = <u>V8A4207.D</u>										
RRF001 = <u>V8A4202.D</u>										
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF001	RRF	% RSD		
Dichlorodifluoromethane	0.253	0.208	0.189	0.232	0.270	0.251	0.234	13.1		
Chloromethane	0.339	0.285	0.250	0.279	0.328	0.366	0.308	14.1		
Vinyl chloride	0.349	0.299	0.264	0.293	0.341	0.383	0.322	13.6		
Bromomethane	0.245	0.192	0.182	0.202	0.254	0.272	0.224	16.5		
Chloroethane	0.194	0.160	0.143	0.159	0.184	0.222	0.177	16.3		
Trichlorofluoromethane	0.510	0.436	0.388	0.466	0.542	0.581	0.487	14.5		
1,1-Dichloroethene	0.304	0.252	0.225	0.253	0.297	0.345	0.279	15.7		
Acetone	0.055	0.044	0.037	0.044	0.045		0.045	14.5		
Iodomethane	0.421	0.412	0.385	0.427	0.497	0.393	0.423	9.5		
Carbon disulfide	1.013	0.863	0.766	0.910	1.013	1.260	0.971	17.5		
Methylene chloride	0.346	0.306	0.274	0.289	0.331	0.407	0.326	14.7		
trans-1,2-Dichloroethene	0.318	0.281	0.248	0.276	0.318	0.416	0.309	19.0		
Methyl tert-butyl ether	1.042	0.978	0.939	0.932	1.056	1.104	1.008	6.9		
1,1-Dichloroethane	0.656	0.567	0.509	0.546	0.633	0.697	0.601	12.0		
Vinyl acetate	1.339	1.260	1.176	1.188	1.334	1.392	1.281	6.9		
2-Butanone	0.040	0.039	0.038	0.042	0.044		0.040	6.0		
cis-1,2-Dichloroethene	0.329	0.284	0.257	0.274	0.319	0.404	0.311	17.0		
2,2-Dichloropropane	0.553	0.469	0.413	0.486	0.568	0.647	0.523	15.9		
Bromochloromethane	0.151	0.139	0.129	0.132	0.150	0.169	0.145	10.3		
Chloroform	0.665	0.574	0.522	0.553	0.643	0.739	0.616	13.2		
1,1,1-Trichloroethane	0.578	0.494	0.445	0.499	0.584	0.649	0.541	13.8		
1,1-Dichloropropene	0.143	0.129	0.111	0.129	0.150	0.154	0.136	11.9		
Carbon tetrachloride	0.454	0.401	0.361	0.424	0.502	0.482	0.437	12.0		
1,2-Dichloroethane	0.591	0.551	0.517	0.526	0.601	0.638	0.571	8.3		
Benzene	1.263	1.073	0.966	1.050	1.231	1.401	1.164	13.9		
Trichloroethene	0.298	0.249	0.226	0.252	0.293	0.302	0.270	11.7		
1,2-Dichloropropane	0.377	0.327	0.305	0.318	0.370	0.422	0.353	12.5		

6C - FORM VI VOA-3
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc.

Contract:

Lab Code: MITKEM Case No.: K1110 SAS No.: SK1110
Instrument ID: V10 Calibration Date(s): 06/29/2011 06/29/2011
Heated Purge: (Y/N) N Calibration Times: 8:51 10:56
Purge Volume: 5 (mL)
GC Column: DB-624 ID: 0.25 (mm) Length: 30 (mm)

LAB FILE ID: RRF005 = V8A4203.D RRF020 = V8A4204.D RRF050 = V8A4205.D RRF100 = V8A4206.D RRF200 = V8A4207.D										
RRF001 = V8A4202.D										
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF001			RRF	% RSD
tert-Butylbenzene	2.786	2.383	2.005	2.297	2.651	3.167			2.548	16.0
1,2,4-Trimethylbenzene	2.988	2.536	2.212	2.465	2.831	3.213			2.708	13.7
sec-Butylbenzene	3.430	2.896	2.398	2.847	3.289	3.746			3.101	15.5
4-Isopropyltoluene	2.703	2.307	1.938	2.278	2.651	2.791			2.445	13.3
1,3-Dichlorobenzene	1.479	1.288	1.159	1.284	1.439	1.564			1.369	11.0
1,4-Dichlorobenzene	1.467	1.297	1.183	1.311	1.469	1.645			1.395	11.8
1,2-Dichlorobenzene	1.491	1.293	1.193	1.270	1.410	1.520			1.363	9.6
1,2-Dibromo-3-chloropropane	0.235	0.197	0.202	0.199	0.223	0.166			0.204	11.8
1,2,4-Trichlorobenzene	0.632	0.749	0.765	0.851	1.015	0.556			0.761	21.3
Hexachlorobutadiene	0.438	0.398	0.357	0.424	0.466	0.493			0.429	11.3
1,2,3-Trichlorobenzene	0.658	0.773	0.773	0.827	0.952	0.471			0.742	22.0
Naphthalene	1.406	1.655	1.848	1.995	2.327	1.747			1.830	17.1
1,1,2-Trichloro-1,2,2-trifluoro	0.314	0.267	0.227	0.298	0.343	0.364			0.302	16.6
1,4-Dioxane	0.003	0.004	0.003	0.003	0.004	0.003			0.003	7.7
Cyclohexane	0.540	0.452	0.376	0.494	0.566	0.671			0.517	19.6
Methyl acetate	0.221	0.243	0.241	0.230	0.255	0.328			0.253	15.3
Methylcyclohexane	0.481	0.395	0.315	0.437	0.507	0.561			0.449	19.4

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

CLIENT SAMPLE NO.

BFB6Q

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Lab File ID: V6I1930.D BFB Injection Date: 07/06/2011
Instrument ID: V6 BFB Injection Time: 7:27
GC Column: DB-624 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.7
75	30.0 - 60.0% of mass 95	49.7
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.0
173	Less than 2.0% of mass 174	0.2 (0.2)1
174	50.0 - 100.0% of mass 95	84.8
175	5.0 - 9.0% of mass 174	6.3 (7.4)1
176	95.0 - 101.0% of mass 174	83.3 (98.2)1
177	5.0 - 9.0% of mass 176	5.3 (6.3)2

1 - Value is % mass 174

2 - Value is % mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0506Q	VSTD0506Q	V6I1932.D	07/06/2011	8:20
02	LCS-60195	LCS-60195	V6I1933.D	07/06/2011	9:00
03	LCSD-60195	LCSD-60195	V6I1934.D	07/06/2011	9:27
04	MB-60195	MB-60195	V6I1936.D	07/06/2011	10:21
05	DEC-013DL	K1110-22ADL	V6I1944.D	07/06/2011	14:05
06	DEC-029DL	K1110-14ADL	V6I1945.D	07/06/2011	14:32
07	DEC-029D	K1110-15A	V6I1946.D	07/06/2011	15:00
08	DEC-004	K1110-16A	V6I1950.D	07/06/2011	16:53
09	DEC-039	K1110-17A	V6I1951.D	07/06/2011	17:22
10	DEC-027	K1110-18A	V6I1952.D	07/06/2011	17:50
11	DEC-048	K1110-19A	V6I1953.D	07/06/2011	18:19
12	DUP-062411	K1110-20A	V6I1954.D	07/06/2011	18:47
13	DUP2-062411	K1110-21A	V6I1955.D	07/06/2011	19:15

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
 Instrument ID: V6 Calibration Date: 07/06/2011 Time: 8:20
 Lab File ID: V6I1932.D Init. Calib. Date(s): 06/10/2011 06/10/2011
 EPA Sample No. (VSTD####) VSTD0506Q Init. Calib. Time(s): 12:51 15:00
 Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)
 Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.152	0.163	0.100	7.5	20.0
Chloromethane	0.213	0.284	0.010	(33.2)	20.0
Vinyl chloride	0.199	0.246	0.010	(23.5)	20.0
Bromomethane	0.132	0.157	0.010	18.5	20.0
Chloroethane	0.107	0.125	0.010	16.8	20.0
Trichlorofluoromethane	0.330	0.374	0.010	13.3	20.0
1,1-Dichloroethene	0.199	0.194	0.100	-2.5	20.0
Acetone	0.022	(0.023)	0.010	1.1	20.0
Iodomethane	0.368	0.366	0.010	-0.4	20.0
Carbon disulfide	0.679	0.762	0.010	12.3	20.0
Methylene chloride	0.232	0.217	0.010	-6.3	20.0
trans-1,2-Dichloroethene	0.214	0.209	0.010	-2.3	20.0
Methyl tert-butyl ether	0.519	0.493	0.010	-5.0	20.0
1,1-Dichloroethane	0.408	0.414	0.010	1.4	20.0
Vinyl acetate	0.838	0.822	0.010	-1.8	20.0
2-Butanone	0.022	(0.021)	0.010	-4.7	20.0
cis-1,2-Dichloroethene	0.229	0.219	0.010	-4.4	20.0
2,2-Dichloropropane	0.226	0.224	0.010	-0.6	20.0
Bromochloromethane	0.113	0.101	0.010	-10.8	20.0
Chloroform	0.407	0.390	0.010	-4.2	20.0
1,1,1-Trichloroethane	0.314	0.304	0.010	-3.4	20.0
1,1-Dichloropropene	0.103	0.096	0.010	-7.1	20.0
Carbon tetrachloride	0.321	0.281	0.010	-12.5	20.0
1,2-Dichloroethane	0.314	0.303	0.010	-3.6	20.0
Benzene	0.853	0.880	0.010	3.3	20.0
Trichloroethene	0.216	0.201	0.010	-6.9	20.0
1,2-Dichloropropane	0.263	0.259	0.010	-1.7	20.0
Dibromomethane	0.140	0.125	0.010	-10.5	20.0
Bromodichloromethane	0.288	0.277	0.010	-3.7	20.0
cis-1,3-Dichloropropene	0.354	0.334	0.010	-5.7	20.0
4-Methyl-2-pentanone	0.189	0.159	0.010	-16.0	20.0
Toluene	0.907	0.901	0.010	-0.6	20.0
trans-1,3-Dichloropropene	0.323	0.293	0.010	-9.3	20.0
1,1,2-Trichloroethane	0.182	0.161	0.010	-11.1	20.0
1,3-Dichloropropane	0.397	0.388	0.010	-2.3	20.0
Tetrachloroethene	0.224	0.221	0.010	-1.3	20.0
2-Hexanone	0.174	0.179	0.010	3.1	20.0
Dibromochloromethane	0.282	0.274	0.010	-3.0	20.0
1,2-Dibromoethane	0.250	0.229	0.010	-8.4	20.0
Chlorobenzene	0.761	0.809	0.010	6.3	20.0

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110

Instrument ID: V6 Calibration Date: 07/06/2011 Time: 8:20

Lab File ID: V6I1932.D Init. Calib. Date(s): 06/10/2011 06/10/2011

EPA Sample No. (VSTD####) VSTD0506Q Init. Calib. Time(s): 12:51 15:00

Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
1,1,1,2-Tetrachloroethane	0.279	0.285	0.010	2.3	20.0
Ethylbenzene	0.383	0.396	0.010	3.3	20.0
m,p-Xylene	0.457	0.492	0.010	7.6	20.0
o-Xylene	0.455	0.476	0.010	4.5	20.0
Xylene (Total)	0.457	0.487	0.010	6.6	20.0
Styrene	0.790	0.843	0.010	6.7	20.0
Bromoform	0.185	0.169	0.010	-8.7	20.0
Isopropylbenzene	1.041	1.077	0.300	3.5	20.0
1,1,2,2-Tetrachloroethane	0.554	0.520	0.300	-6.1	20.0
Bromobenzene	0.599	0.582	0.010	-2.7	20.0
1,2,3-Trichloropropane	0.635	0.611	0.010	-3.8	20.0
2-Chlorotoluene	0.516	0.529	0.010	2.6	20.0
1,3,5-Trimethylbenzene	1.575	1.622	0.010	3.0	20.0
4-Chlorotoluene	0.562	0.581	0.010	3.4	20.0
tert-Butylbenzene	1.464	1.502	0.010	2.6	20.0
1,2,4-Trimethylbenzene	1.655	1.739	0.010	5.1	20.0
sec-Butylbenzene	1.734	1.736	0.010	0.1	20.0
4-Isopropyltoluene	1.421	1.440	0.010	1.3	20.0
1,3-Dichlorobenzene	1.044	1.050	0.010	0.6	20.0
1,4-Dichlorobenzene	1.093	1.107	0.010	1.3	20.0
1,2-Dichlorobenzene	1.019	1.032	0.010	1.3	20.0
1,2-Dibromo-3-chloropropane	0.103	0.085	0.010	-17.5	20.0
1,2,4-Trichlorobenzene	0.606	0.525	0.010	-13.4	20.0
Hexachlorobutadiene	0.295	0.243	0.010	-17.7	20.0
1,2,3-Trichlorobenzene	0.572	0.476	0.010	-16.9	20.0
Naphthalene	1.488	1.230	0.010	-17.4	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.195	0.202	0.010	3.2	20.0
1,4-Dioxane	0.002	(0.001)	0.010	-20.3	20.0
Cyclohexane	0.311	0.327	0.010	5.1	20.0
Methyl acetate	0.169	0.163	0.010	-3.2	20.0
Methylcyclohexane	0.241	0.235	0.010	-2.3	20.0

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

CLIENT SAMPLE NO.

BFB10I

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Lab File ID: V8A4209.D BFB Injection Date: 06/29/2011
Instrument ID: V10 BFB Injection Time: 11:56
GC Column: DB-624 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.4
75	30.0 - 60.0% of mass 95	54.5
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.5 (0.6)1
174	50.0 - 100.0% of mass 95	79.3
175	5.0 - 9.0% of mass 174	5.8 (7.4)1
176	95.0 - 101.0% of mass 174	77.1 (97.3)1
177	5.0 - 9.0% of mass 176	5.3 (6.8)2

1 - Value is % mass 174

2 - Value is % mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD05010I	VSTD05010I	V8A4210.D	06/29/2011	12:10
02	LCS-60019	LCS-60019	V8A4211.D	06/29/2011	12:43
03	LCSD-60019	LCSD-60019	V8A4212.D	06/29/2011	13:06
04	MB-60019	MB-60019	V8A4215.D	06/29/2011	14:17
05	DEC-022D	K1110-01A	V8A4228.D	06/29/2011	19:23
06	DEC-066D	K1110-03A	V8A4230.D	06/29/2011	20:10
07	DEC-066	K1110-04A	V8A4231.D	06/29/2011	20:33
08	DEC-044D	K1110-05A	V8A4232.D	06/29/2011	20:56
09	DEC-044	K1110-06A	V8A4233.D	06/29/2011	21:20

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
 Instrument ID: V10 Calibration Date: 06/29/2011 Time: 12:10
 Lab File ID: V8A4210.D Init. Calib. Date(s): 06/29/2011 06/29/2011
 EPA Sample No. (VSTD####) VSTD050101 Init. Calib. Time(s): 8:51 10:56
 Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)
 Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.234	0.219	0.100	-6.5	20.0
Chloromethane	0.308	0.272	0.010	-11.7	20.0
Vinyl chloride	0.322	0.279	0.010	-13.3	20.0
Bromomethane	0.224	0.188	0.010	-16.0	20.0
Chloroethane	0.177	0.151	0.010	-14.5	20.0
Trichlorofluoromethane	0.487	0.429	0.010	-12.0	20.0
1,1-Dichloroethene	0.279	0.240	0.100	-14.2	20.0
Acetone	0.045	0.046	0.010	2.0	20.0
Iodomethane	0.423	0.416	0.010	-1.6	20.0
Carbon disulfide	0.971	0.874	0.010	-10.0	20.0
Methylene chloride	0.326	0.286	0.010	-12.2	20.0
trans-1,2-Dichloroethene	0.309	0.270	0.010	-12.9	20.0
Methyl tert-butyl ether	1.008	0.922	0.010	-8.6	20.0
1,1-Dichloroethane	0.601	0.528	0.010	-12.2	20.0
Vinyl acetate	1.281	1.172	0.010	-8.5	20.0
2-Butanone	0.040	0.040	0.010	-0.6	20.0
cis-1,2-Dichloroethene	0.311	0.266	0.010	-14.6	20.0
2,2-Dichloropropane	0.523	0.457	0.010	-12.6	20.0
Bromochloromethane	0.145	0.133	0.010	-8.0	20.0
Chloroform	0.616	0.547	0.010	-11.2	20.0
1,1,1-Trichloroethane	0.541	0.469	0.010	-13.3	20.0
1,1-Dichloropropene	0.136	0.117	0.010	-13.9	20.0
Carbon tetrachloride	0.437	0.379	0.010	-13.3	20.0
1,2-Dichloroethane	0.571	0.518	0.010	-9.2	20.0
Benzene	1.164	1.005	0.010	-13.6	20.0
Trichloroethene	0.270	0.240	0.010	-10.9	20.0
1,2-Dichloropropane	0.353	0.312	0.010	-11.6	20.0
Dibromomethane	0.219	0.200	0.010	-8.9	20.0
Bromodichloromethane	0.459	0.420	0.010	-8.3	20.0
cis-1,3-Dichloropropene	0.502	0.471	0.010	-6.2	20.0
4-Methyl-2-pentanone	0.338	0.327	0.010	-3.1	20.0
Toluene	1.240	1.090	0.010	-12.1	20.0
trans-1,3-Dichloropropene	0.490	0.466	0.010	-4.9	20.0
1,1,2-Trichloroethane	0.272	0.253	0.010	-7.0	20.0
1,3-Dichloropropane	0.589	0.540	0.010	-8.3	20.0
Tetrachloroethene	0.314	0.264	0.010	-16.0	20.0
2-Hexanone	0.327	0.344	0.010	5.2	20.0
Dibromochloromethane	0.406	0.380	0.010	-6.3	20.0
1,2-Dibromoethane	0.380	0.355	0.010	-6.6	20.0
Chlorobenzene	0.963	0.852	0.010	-11.5	20.0

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Instrument ID: V10 Calibration Date: 06/29/2011 Time: 12:10
Lab File ID: V8A4210.D Init. Calib. Date(s): 06/29/2011 06/29/2011
EPA Sample No. (VSTD####) VSTD050101 Init. Calib. Time(s): 8:51 10:56
Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)
Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
1,1,1,2-Tetrachloroethane	0.377	0.336	0.010	-10.8	20.0
Ethylbenzene	0.509	0.435	0.010	-14.4	20.0
m,p-Xylene	0.617	0.530	0.010	-14.1	20.0
o-Xylene	0.607	0.531	0.010	-12.5	20.0
Xylene (Total)	0.613	0.530	0.010	-13.6	20.0
Styrene	1.039	0.921	0.010	-11.4	20.0
Bromoform	0.288	0.272	0.010	-5.7	20.0
Isopropylbenzene	1.657	1.359	0.300	-17.9	20.0
1,1,2,2-Tetrachloroethane	0.949	0.847	0.300	-10.7	20.0
Bromobenzene	0.848	0.744	0.010	-12.3	20.0
1,2,3-Trichloropropane	1.214	1.135	0.010	-6.5	20.0
2-Chlorotoluene	0.715	0.608	0.010	-14.9	20.0
1,3,5-Trimethylbenzene	2.723	2.214	0.010	-18.7	20.0
4-Chlorotoluene	0.708	0.610	0.010	-13.9	20.0
tert-Butylbenzene	2.548	2.048	0.010	-19.6	20.0
1,2,4-Trimethylbenzene	2.708	2.284	0.010	-15.6	20.0
sec-Butylbenzene	3.101	2.461	0.010	-20.6	20.0
4-Isopropyltoluene	2.445	2.005	0.010	-18.0	20.0
1,3-Dichlorobenzene	1.369	1.208	0.010	-11.7	20.0
1,4-Dichlorobenzene	1.395	1.233	0.010	-11.6	20.0
1,2-Dichlorobenzene	1.363	1.214	0.010	-10.9	20.0
1,2-Dibromo-3-chloropropane	0.204	0.190	0.010	-6.6	20.0
1,2,4-Trichlorobenzene	0.761	0.782	0.010	2.8	20.0
Hexachlorobutadiene	0.429	0.378	0.010	-11.8	20.0
1,2,3-Trichlorobenzene	0.742	0.782	0.010	5.3	20.0
Naphthalene	1.830	1.870	0.010	2.2	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.302	0.263	0.010	-12.9	20.0
1,4-Dioxane	0.003	0.003	0.010	-2.1	20.0
Cyclohexane	0.517	0.423	0.010	-18.1	20.0
Methyl acetate	0.253	0.234	0.010	-7.5	20.0
Methylcyclohexane	0.449	0.357	0.010	-20.6	20.0

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

CLIENT SAMPLE NO.

BFB10J

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Lab File ID: V8A4250.D BFB Injection Date: 06/30/2011
Instrument ID: V10 BFB Injection Time: 7:57
GC Column: DB-624 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.4
75	30.0 - 60.0% of mass 95	57.7
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.6 (0.7)1
174	50.0 - 100.0% of mass 95	81.8
175	5.0 - 9.0% of mass 174	5.9 (7.2)1
176	95.0 - 101.0% of mass 174	80.1 (97.9)1
177	5.0 - 9.0% of mass 176	5.2 (6.5)2

1 - Value is % mass 174

2 - Value is % mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD05010J	VSTD05010J	V8A4252.D	06/30/2011	8:50
02	LCS-60102	LCS-60102	V8A4254.D	06/30/2011	10:02
03	LCSD-60102	LCSD-60102	V8A4255.D	06/30/2011	10:27
04	MB-60102	MB-60102	V8A4258.D	06/30/2011	11:42
05	DEC-032	K1110-02A	V8A4264.D	06/30/2011	14:03
06	DEC-013D	K1110-07A	V8A4265.D	06/30/2011	14:26
07	DEC-042	K1110-08A	V8A4266.D	06/30/2011	14:50
08	DEC-022DDL	K1110-01ADL	V8A4267.D	06/30/2011	15:13
09	DEC-044DDL	K1110-05ADL	V8A4268.D	06/30/2011	15:36
10	DEC-044DL	K1110-06ADL	V8A4269.D	06/30/2011	16:00

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
 Instrument ID: V10 Calibration Date: 06/30/2011 Time: 8:50
 Lab File ID: V8A4252.D Init. Calib. Date(s): 06/29/2011 06/29/2011
 EPA Sample No. (VSTD####) VSTD05010J Init. Calib. Time(s): 8:51 10:56
 Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)
 Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.234	0.200	0.100	-14.6	20.0
Chloromethane	0.308	0.267	0.010	-13.2	20.0
Vinyl chloride	0.322	0.265	0.010	-17.7	20.0
Bromomethane	0.224	0.212	0.010	-5.5	20.0
Chloroethane	0.177	0.143	0.010	-19.3	20.0
Trichlorofluoromethane	0.487	0.457	0.010	-6.1	20.0
1,1-Dichloroethene	0.279	0.235	0.100	-15.8	20.0
Acetone	0.045	0.033	0.010	-27.1	20.0
Iodomethane	0.423	0.442	0.010	4.7	20.0
Carbon disulfide	0.971	0.839	0.010	-13.6	20.0
Methylene chloride	0.326	0.283	0.010	-13.0	20.0
trans-1,2-Dichloroethene	0.309	0.267	0.010	-13.7	20.0
Methyl tert-butyl ether	1.008	0.954	0.010	-5.4	20.0
1,1-Dichloroethane	0.601	0.490	0.010	-18.5	20.0
Vinyl acetate	1.281	1.087	0.010	-15.2	20.0
2-Butanone	0.040	0.033	0.010	-19.7	20.0
cis-1,2-Dichloroethene	0.311	0.241	0.010	-22.5	20.0
2,2-Dichloropropane	0.523	0.464	0.010	-11.3	20.0
Bromochloromethane	0.145	0.123	0.010	-15.1	20.0
Chloroform	0.616	0.540	0.010	-12.4	20.0
1,1,1-Trichloroethane	0.541	0.486	0.010	-10.2	20.0
1,1-Dichloropropene	0.136	0.109	0.010	-20.1	20.0
Carbon tetrachloride	0.437	0.395	0.010	-9.7	20.0
1,2-Dichloroethane	0.571	0.560	0.010	-1.8	20.0
Benzene	1.164	0.903	0.010	-22.5	20.0
Trichloroethene	0.270	0.226	0.010	-16.4	20.0
1,2-Dichloropropane	0.353	0.276	0.010	-21.9	20.0
Dibromomethane	0.219	0.196	0.010	-10.5	20.0
Bromodichloromethane	0.459	0.421	0.010	-8.3	20.0
cis-1,3-Dichloropropene	0.502	0.433	0.010	-13.7	20.0
4-Methyl-2-pentanone	0.338	0.292	0.010	-13.6	20.0
Toluene	1.240	1.015	0.010	-18.1	20.0
trans-1,3-Dichloropropene	0.490	0.449	0.010	-8.4	20.0
1,1,2-Trichloroethane	0.272	0.231	0.010	-15.1	20.0
1,3-Dichloropropane	0.589	0.528	0.010	-10.4	20.0
Tetrachloroethene	0.314	0.280	0.010	-11.0	20.0
2-Hexanone	0.327	0.282	0.010	-13.9	20.0
Dibromochloromethane	0.406	0.390	0.010	-3.9	20.0
1,2-Dibromoethane	0.380	0.347	0.010	-8.6	20.0
Chlorobenzene	0.963	0.850	0.010	-11.8	20.0

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110

Instrument ID: V10 Calibration Date: 06/30/2011 Time: 8:50

Lab File ID: V8A4252.D Init. Calib. Date(s): 06/29/2011 06/29/2011

EPA Sample No. (VSTD####) VSTD05010J Init. Calib. Time(s): 8:51 10:56

Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
1,1,1,2-Tetrachloroethane	0.377	0.352	0.010	-6.4	20.0
Ethylbenzene	0.509	0.435	0.010	-14.4	20.0
m,p-Xylene	0.617	0.536	0.010	-13.1	20.0
o-Xylene	0.607	0.536	0.010	-11.6	20.0
Xylene (Total)	0.613	0.536	0.010	-12.6	20.0
Styrene	1.039	0.919	0.010	-11.6	20.0
Bromoform	0.288	0.286	0.010	-0.9	20.0
Isopropylbenzene	1.657	1.461	0.300	-11.8	20.0
1,1,2,2-Tetrachloroethane	0.949	0.765	0.300	-19.4	20.0
Bromobenzene	0.848	0.761	0.010	-10.3	20.0
1,2,3-Trichloropropane	1.214	1.077	0.010	-11.3	20.0
2-Chlorotoluene	0.715	0.617	0.010	-13.6	20.0
1,3,5-Trimethylbenzene	2.723	2.358	0.010	-13.4	20.0
4-Chlorotoluene	0.708	0.620	0.010	-12.4	20.0
tert-Butylbenzene	2.548	2.230	0.010	-12.5	20.0
1,2,4-Trimethylbenzene	2.708	2.395	0.010	-11.6	20.0
sec-Butylbenzene	3.101	2.636	0.010	-15.0	20.0
4-Isopropyltoluene	2.445	2.187	0.010	-10.5	20.0
1,3-Dichlorobenzene	1.369	1.242	0.010	-9.3	20.0
1,4-Dichlorobenzene	1.395	1.277	0.010	-8.5	20.0
1,2-Dichlorobenzene	1.363	1.258	0.010	-7.7	20.0
1,2-Dibromo-3-chloropropane	0.204	0.199	0.010	-2.1	20.0
1,2,4-Trichlorobenzene	0.761	0.815	0.010	7.1	20.0
Hexachlorobutadiene	0.429	0.438	0.010	2.0	20.0
1,2,3-Trichlorobenzene	0.742	0.806	0.010	8.5	20.0
Naphthalene	1.830	1.736	0.010	-5.1	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.302	0.251	0.010	-17.0	20.0
1,4-Dioxane	0.003	0.003	0.010	-5.3	20.0
Cyclohexane	0.517	0.356	0.010	(-31.2)	20.0
Methyl acetate	0.253	0.225	0.010	-11.1	20.0
Methylcyclohexane	0.449	0.320	0.010	(-28.7)	20.0

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

CLIENT SAMPLE NO.

BFB10L

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Lab File ID: V8A4319.D BFB Injection Date: 07/01/2011
Instrument ID: V10 BFB Injection Time: 17:57
GC Column: DB-624 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.3
75	30.0 - 60.0% of mass 95	59.5
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.2
173	Less than 2.0% of mass 174	0.7 (0.8)1
174	50.0 - 100.0% of mass 95	83.0
175	5.0 - 9.0% of mass 174	6.3 (7.6)1
176	95.0 - 101.0% of mass 174	79.3 (95.5)1
177	5.0 - 9.0% of mass 176	5.2 (6.5)2

1 - Value is % mass 174

2 - Value is % mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD05010L	VSTD05010L	V8A4321.D	07/01/2011	18:44
02	LCS-60151	LCS-60151	V8A4322.D	07/01/2011	19:08
03	LCSD-60151	LCSD-60151	V8A4323.D	07/01/2011	19:31
04	MB-60151	MB-60151	V8A4325.D	07/01/2011	20:18
05	DEC-008	K1110-09A	V8A4342.D	07/02/2011	2:57
06	DUP-062311	K1110-11A	V8A4344.D	07/02/2011	3:44
07	DEC-014R	K1110-12A	V8A4345.D	07/02/2011	4:07

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110

Instrument ID: V10 Calibration Date: 07/01/2011 Time: 18:44

Lab File ID: V8A4321.D Init. Calib. Date(s): 06/29/2011 06/29/2011

EPA Sample No. (VSTD####) VSTD05010L Init. Calib. Time(s): 8:51 10:56

Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.234	0.225	0.100	-3.7	20.0
Chloromethane	0.308	0.254	0.010	-17.4	20.0
Vinyl chloride	0.322	0.268	0.010	-16.7	20.0
Bromomethane	0.224	0.232	0.010	3.4	20.0
Chloroethane	0.177	0.153	0.010	-13.5	20.0
Trichlorofluoromethane	0.487	0.530	0.010	8.7	20.0
1,1-Dichloroethene	0.279	0.259	0.100	-7.4	20.0
Acetone	0.045	0.033	0.010	-27.0	20.0
Iodomethane	0.423	0.466	0.010	10.3	20.0
Carbon disulfide	0.971	0.817	0.010	-15.8	20.0
Methylene chloride	0.326	0.293	0.010	-10.0	20.0
trans-1,2-Dichloroethene	0.309	0.273	0.010	-11.6	20.0
Methyl tert-butyl ether	1.008	1.028	0.010	1.9	20.0
1,1-Dichloroethane	0.601	0.505	0.010	-16.0	20.0
Vinyl acetate	1.281	1.135	0.010	-11.5	20.0
2-Butanone	0.040	0.033	0.010	-18.1	20.0
cis-1,2-Dichloroethene	0.311	0.247	0.010	-20.5	20.0
2,2-Dichloropropane	0.523	0.438	0.010	-16.2	20.0
Bromochloromethane	0.145	0.125	0.010	-14.1	20.0
Chloroform	0.616	0.554	0.010	-10.0	20.0
1,1,1-Trichloroethane	0.541	0.508	0.010	-6.3	20.0
1,1-Dichloropropene	0.136	0.111	0.010	-18.4	20.0
Carbon tetrachloride	0.437	0.427	0.010	-2.3	20.0
1,2-Dichloroethane	0.571	0.586	0.010	2.7	20.0
Benzene	1.164	0.920	0.010	-21.0	20.0
Trichloroethene	0.270	0.227	0.010	-15.9	20.0
1,2-Dichloropropane	0.353	0.283	0.010	-19.9	20.0
Dibromomethane	0.219	0.206	0.010	-5.8	20.0
Bromodichloromethane	0.459	0.429	0.010	-6.4	20.0
cis-1,3-Dichloropropene	0.502	0.434	0.010	-13.4	20.0
4-Methyl-2-pentanone	0.338	0.311	0.010	-8.0	20.0
Toluene	1.240	1.014	0.010	-18.2	20.0
trans-1,3-Dichloropropene	0.490	0.449	0.010	-8.3	20.0
1,1,2-Trichloroethane	0.272	0.236	0.010	-13.0	20.0
1,3-Dichloropropane	0.589	0.520	0.010	-11.7	20.0
Tetrachloroethene	0.314	0.282	0.010	-10.2	20.0
2-Hexanone	0.327	0.294	0.010	-10.0	20.0
Dibromochloromethane	0.406	0.385	0.010	-5.1	20.0
1,2-Dibromoethane	0.380	0.358	0.010	-5.7	20.0
Chlorobenzene	0.963	0.825	0.010	-14.4	20.0

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110

Instrument ID: V10 Calibration Date: 07/01/2011 Time: 18:44

Lab File ID: V8A4321.D Init. Calib. Date(s): 06/29/2011 06/29/2011

EPA Sample No. (VSTD####) VSTD05010L Init. Calib. Time(s): 8:51 10:56

Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
1,1,1,2-Tetrachloroethane	0.377	0.344	0.010	-8.7	20.0
Ethylbenzene	0.509	0.423	0.010	-16.8	20.0
m,p-Xylene	0.617	0.525	0.010	-14.9	20.0
o-Xylene	0.607	0.518	0.010	-14.7	20.0
Xylene (Total)	0.613	0.523	0.010	-14.8	20.0
Styrene	1.039	0.885	0.010	-14.8	20.0
Bromoform	0.288	0.278	0.010	-3.6	20.0
Isopropylbenzene	1.657	1.404	0.300	-15.2	20.0
1,1,2,2-Tetrachloroethane	0.949	0.758	0.300	-20.1	20.0
Bromobenzene	0.848	0.719	0.010	-15.3	20.0
1,2,3-Trichloropropane	1.214	1.052	0.010	-13.4	20.0
2-Chlorotoluene	0.715	0.566	0.010	-20.8	20.0
1,3,5-Trimethylbenzene	2.723	2.169	0.010	-20.3	20.0
4-Chlorotoluene	0.708	0.584	0.010	-17.5	20.0
tert-Butylbenzene	2.548	2.246	0.010	-11.8	20.0
1,2,4-Trimethylbenzene	2.708	2.197	0.010	-18.9	20.0
sec-Butylbenzene	3.101	2.436	0.010	-21.4	20.0
4-Isopropyltoluene	2.445	1.972	0.010	-19.3	20.0
1,3-Dichlorobenzene	1.369	1.137	0.010	-16.9	20.0
1,4-Dichlorobenzene	1.395	1.177	0.010	-15.6	20.0
1,2-Dichlorobenzene	1.363	1.165	0.010	-14.6	20.0
1,2-Dibromo-3-chloropropane	0.204	0.204	0.010	0.3	20.0
1,2,4-Trichlorobenzene	0.761	0.748	0.010	-1.8	20.0
Hexachlorobutadiene	0.429	0.386	0.010	-10.0	20.0
1,2,3-Trichlorobenzene	0.742	0.722	0.010	-2.8	20.0
Naphthalene	1.830	1.704	0.010	-6.9	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.302	0.294	0.010	-2.7	20.0
1,4-Dioxane	0.003	0.003	0.010	2.3	20.0
Cyclohexane	0.517	0.400	0.010	-22.5	20.0
Methyl acetate	0.253	0.248	0.010	-2.0	20.0
Methylcyclohexane	0.449	0.347	0.010	-22.8	20.0

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

CLIENT SAMPLE NO.

BFB10M

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
Lab File ID: V8A4360.D BFB Injection Date: 07/05/2011
Instrument ID: V10 BFB Injection Time: 8:25
GC Column: DB-624 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.7
75	30.0 - 60.0% of mass 95	58.5
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	5.9
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	88.6
175	5.0 - 9.0% of mass 174	6.6 (7.5)1
176	95.0 - 101.0% of mass 174	88.2 (99.5)1
177	5.0 - 9.0% of mass 176	5.3 (6.0)2

1 - Value is % mass 174

2 - Value is % mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD05010M	VSTD05010M	V8A4362.D	07/05/2011	9:24
02	LCS-60176	LCS-60176	V8A4363.D	07/05/2011	9:58
03	LCSD-60176	LCSD-60176	V8A4364.D	07/05/2011	10:21
04	MB-60176	MB-60176	V8A4366.D	07/05/2011	11:36
05	TB	K1110-23A	V8A4378.D	07/05/2011	16:29
06	DUP-062311DL	K1110-11ADL	V8A4379.D	07/05/2011	16:52
07	DEC-014RDL	K1110-12ADL	V8A4380.D	07/05/2011	17:16
08	DEC-009	K1110-10A	V8A4381.D	07/05/2011	17:40
09	DEC-014D	K1110-13A	V8A4382.D	07/05/2011	18:03
10	DEC-029	K1110-14A	V8A4383.D	07/05/2011	18:27
11	DEC-013	K1110-22A	V8A4385.D	07/05/2011	19:14

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
 Instrument ID: V10 Calibration Date: 07/05/2011 Time: 9:24
 Lab File ID: V8A4362.D Init. Calib. Date(s): 06/29/2011 06/29/2011
 EPA Sample No. (VSTD####) VSTD05010M Init. Calib. Time(s): 8:51 10:56
 Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)
 Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.234	0.277	0.100	18.6	20.0
Chloromethane	0.308	0.217	0.010	(-29.6)	20.0
Vinyl chloride	0.322	0.287	0.010	-10.7	20.0
Bromomethane	0.224	0.250	0.010	11.6	20.0
Chloroethane	0.177	0.168	0.010	-5.1	20.0
Trichlorofluoromethane	0.487	0.653	0.010	(34.1)	20.0
1,1-Dichloroethene	0.279	0.302	0.100	8.2	20.0
Acetone	0.045	(0.043)	0.010	-3.9	20.0
Iodomethane	0.423	0.547	0.010	(29.4)	20.0
Carbon disulfide	0.971	1.037	0.010	6.8	20.0
Methylene chloride	0.326	0.349	0.010	7.0	20.0
trans-1,2-Dichloroethene	0.309	0.333	0.010	7.5	20.0
Methyl tert-butyl ether	1.008	1.196	0.010	18.6	20.0
1,1-Dichloroethane	0.601	0.538	0.010	-10.5	20.0
Vinyl acetate	1.281	0.886	0.010	(-30.9)	20.0
2-Butanone	0.040	(0.042)	0.010	4.3	20.0
cis-1,2-Dichloroethene	0.311	0.285	0.010	-8.4	20.0
2,2-Dichloropropane	0.523	0.603	0.010	15.4	20.0
Bromochloromethane	0.145	0.140	0.010	-3.8	20.0
Chloroform	0.616	0.680	0.010	10.4	20.0
1,1,1-Trichloroethane	0.541	0.632	0.010	16.6	20.0
1,1-Dichloropropene	0.136	0.129	0.010	-5.0	20.0
Carbon tetrachloride	0.437	0.531	0.010	(21.5)	20.0
1,2-Dichloroethane	0.571	0.670	0.010	17.4	20.0
Benzene	1.164	1.124	0.010	-3.4	20.0
Trichloroethene	0.270	0.263	0.010	-2.8	20.0
1,2-Dichloropropane	0.353	0.288	0.010	-18.5	20.0
Dibromomethane	0.219	0.238	0.010	8.8	20.0
Bromodichloromethane	0.459	0.524	0.010	14.4	20.0
cis-1,3-Dichloropropene	0.502	0.536	0.010	6.9	20.0
4-Methyl-2-pentanone	0.338	0.230	0.010	(-31.9)	20.0
Toluene	1.240	1.248	0.010	0.6	20.0
trans-1,3-Dichloropropene	0.490	0.562	0.010	14.7	20.0
1,1,2-Trichloroethane	0.272	0.266	0.010	-2.0	20.0
1,3-Dichloropropane	0.589	0.615	0.010	4.4	20.0
Tetrachloroethene	0.314	0.316	0.010	0.4	20.0
2-Hexanone	0.327	0.235	0.010	(-28.2)	20.0
Dibromochloromethane	0.406	0.459	0.010	13.1	20.0
1,2-Dibromoethane	0.380	0.375	0.010	-1.4	20.0
Chlorobenzene	0.963	0.971	0.010	0.8	20.0

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: K1110 Mod. Ref No.: _____ SDG No.: SK1110
 Instrument ID: V10 Calibration Date: 07/05/2011 Time: 9:24
 Lab File ID: V8A4362.D Init. Calib. Date(s): 06/29/2011 06/29/2011
 EPA Sample No. (VSTD####) VSTD05010M Init. Calib. Time(s): 8:51 10:56
 Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)
 Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
1,1,1,2-Tetrachloroethane	0.377	0.394	0.010	4.7	20.0
Ethylbenzene	0.509	0.515	0.010	1.4	20.0
m,p-Xylene	0.617	0.633	0.010	2.7	20.0
o-Xylene	0.607	0.628	0.010	3.5	20.0
Xylene (Total)	0.613	0.631	0.010	3.0	20.0
Styrene	1.039	1.084	0.010	4.4	20.0
Bromoform	0.288	0.337	0.010	17.0	20.0
Isopropylbenzene	1.657	1.756	0.300	6.0	20.0
1,1,2,2-Tetrachloroethane	0.949	0.818	0.300	-13.7	20.0
Bromobenzene	0.848	0.762	0.010	-10.1	20.0
1,2,3-Trichloropropane	1.214	1.194	0.010	-1.7	20.0
2-Chlorotoluene	0.715	0.635	0.010	-11.1	20.0
1,3,5-Trimethylbenzene	2.723	2.628	0.010	-3.5	20.0
4-Chlorotoluene	0.708	0.645	0.010	-8.9	20.0
tert-Butylbenzene	2.548	2.330	0.010	-8.5	20.0
1,2,4-Trimethylbenzene	2.708	2.693	0.010	-0.6	20.0
sec-Butylbenzene	3.101	2.933	0.010	-5.4	20.0
4-Isopropyltoluene	2.445	2.271	0.010	-7.1	20.0
1,3-Dichlorobenzene	1.369	1.319	0.010	-3.6	20.0
1,4-Dichlorobenzene	1.395	1.358	0.010	-2.7	20.0
1,2-Dichlorobenzene	1.363	1.329	0.010	-2.5	20.0
1,2-Dibromo-3-chloropropane	0.204	0.222	0.010	9.0	20.0
1,2,4-Trichlorobenzene	0.761	0.901	0.010	18.3	20.0
Hexachlorobutadiene	0.429	0.532	0.010	(24.0)	20.0
1,2,3-Trichlorobenzene	0.742	0.888	0.010	19.6	20.0
Naphthalene	1.830	1.811	0.010	-1.0	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.302	0.353	0.010	16.8	20.0
1,4-Dioxane	0.003	(0.003)	0.010	-2.3	20.0
Cyclohexane	0.517	0.324	0.010	(-37.4)	20.0
Methyl acetate	0.253	0.231	0.010	-8.6	20.0
Methylcyclohexane	0.449	0.410	0.010	-8.8	20.0

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Klink Cosmo Meeker

Laboratory Workorder / SDG #: K1110

SW846 8270D, SVOA by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8270D

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3510

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: S3
Instrument Type: GCMS-SEMI
Description: HP6890 / HP5973
Manufacturer: Hewlett-Packard
Model: 6890 / 5973

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits with the following exceptions. Please note that most test procedures allow for several compounds outside of the QC limits for the LCS, although this may indicate a bias for this specific compound.

LCS-60141 in batch 60141, recovery is above criteria for 2,4-Dinitrophenol at 167% with criteria of (15-140), 2,4-Dinitrotoluene at 128% with criteria of (50-120), 2,6-Dinitrotoluene at 117% with criteria of (50-115), 2-Nitrophenol at 116% with criteria of (40-115) and 4,6-Dinitro-2-methylphenol at 142% with criteria of (40-130).

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: DEC-048 (K1110-19DMS) and DEC-048 (K1110-19DMSD).

Percent recoveries were within the QC limits with the following exceptions:

DEC-048 (K1110-19DMS), recovery is below criteria for 2,4-Dimethylphenol at 9% with criteria of (30-110) and Caprolactam at 20% with criteria of (50-150).

DEC-048 (K1110-19DMSD), recovery is above criteria for 4,6-Dinitro-2-methylphenol at 137% with criteria of (40-130), recovery is below criteria for and Caprolactam at 20% with criteria of (50-150).

Replicate RPDs were within the QC limits with the exception of 2,4-Dimethylphenol.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

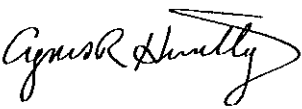
F. Dilutions:

No sample in this SDG required analysis at dilution.

G. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum RI, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed: 

Date: 07/25/11

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Klink Cosmo Meeker

Laboratory Workorder / SDG #: K1110

SW846 8081B, Organochlorine Pesticides by GC-ECD

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8081B

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3510

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: E4

Instrument Type: GC-ECD

Description: HP6890

Manufacturer: Hewlett-Packard

Model: 6890

GC Column used: 30 m X 0.53 mm ID [0.50 um thickness] CLPPest capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control sample were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: DEC-048 (K1110-19DMS) and DEC-048 (K1110-19DMSD).

Percent recoveries were within the QC limits.

Replicate RPDs were within the QC limits.

E. Dilutions:

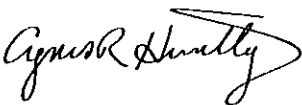
No sample in this SDG required analysis at dilution.

F. Samples:

The lower concentration between the primary and confirmatory GC column concentrations is reported due to the presence of interferences unless otherwise indicated on Form 10. Both values are reported on Form 10. P flags are assigned to compounds on Form 1 when D% between the two columns is greater than 40%.

No unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum RI, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed: 

Date: 07/25/11

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Klink Cosmo Meeker

Laboratory Workorder / SDG #: K1110

SW846 8082A, PCB by GC-ECD

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8082A

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3510

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: E2

Instrument Type: GC-ECD

Description: HP5890 II +

Manufacturer: Hewlett-Packard

Model: 5890

GC Column used: 30 m X 0.53 mm ID [0.50 um thickness] CLPPest capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control sample were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: DEC-048 (K1110-19DMS) and DEC-048 (K1110-19DMSD).

Percent recoveries were within the QC limits.

Replicate RPDs were within the QC limits.

E. Dilutions:

No sample in this SDG required analysis at dilution.

F. Samples:

The lower concentration between the primary and confirmatory GC column concentrations is reported due to the presence of interferences unless otherwise indicated on Form 10. Both values are reported on Form 10. P flags are assigned to compounds on Form 1 when D% between the two columns is greater than 40%.

No unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum RI, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed:  _____

Date: 07/25/11

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Klink Cosmo Meeker

Laboratory Workorder / SDG #: K1110

SW846 6010C, SW846 7470A, SW846 9012B

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 6010C, SW846 7470A, SW846 9012B

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW9012B

Aqueous Samples were prepared following procedures in laboratory test code: SW3005

Aqueous Samples were prepared following procedures in laboratory test

code: SW7470A

V. INSTRUMENTATION

The following instrumentation was used to perform

Instrument Code: FIMS1
Instrument Type: CVAA
Description: FIMS
Manufacturer: Perkin-Elmer
Model: FIMS

Instrument Code: LACHAT1
Instrument Type: WC
Description: Flow Injection Analyzer
Manufacturer: Zellweger Analytics
Model: Quik-Chem 8000

Instrument Code: OPTIMA3
Instrument Type: ICP
Description: Optima ICP-OES
Manufacturer: Perkin-Elmer
Model: 4300 DV

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for laboratory control samples were within the QC limits.

2. Matrix spike (MS):

Matrix spikes were performed on samples: DEC-048 (K1110-19BMS) and DEC-048 (K1110-19CMS).

Percent recoveries were within the QC limits.

D. Post Digestion Spike (PDS):

A post-digestion spike was not performed on any sample in this SDG.

E. Duplicate sample:

Duplicate analysis was performed on samples: DEC-048 (K1110-19BDUP) and DEC-048 (K1110-19CDUP).

Relative percent differences were within the QC limits.

F. Serial Dilution (SD):

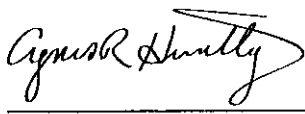
Serial Dilution analysis was performed on sample: DEC-048 (K1110-19BSD).

Percent differences were within the QC limits.

G. Samples:

No unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum RI, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed: 

Date: 07/25/11

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Klink Cosmo Meeker, LNAPL Sample

Laboratory Workorder / SDG #: K1120

SW846 8260C, VOC by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8260C

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW5030

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: V10
Instrument Type: GCMS-VOA
Description: HP7890A
Manufacturer: Agilent
Model: 7890A / 5975C

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control sample were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

The following sample was analyzed at dilution:

DEC-048 (K1120-01A) : Dilution Factor: 500

G. Samples:

No unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum RI, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed: _____

Date: 07/26/11

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MB-60218

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1120 Mod. Ref No.: _____ SDG No.: SK1120
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-60218
Sample wt/vol: 5.00 (g/mL) G Lab File ID: V8A4406.D
Level: (TRACE/LOW/MED) MED Date Received: _____
% Moisture: not dec. 0.0 Date Analyzed: 07/06/2011
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) $\mu\text{G/KG}$	Q
127-18-4	Tetrachloroethene	250	U
591-78-6	2-Hexanone	250	U
124-48-1	Dibromochloromethane	250	U
106-93-4	1,2-Dibromoethane	250	U
108-90-7	Chlorobenzene	250	U
630-20-6	1,1,1,2-Tetrachloroethane	250	U
100-41-4	Ethylbenzene	250	U
1330-20-7	m,p-Xylene	250	U
95-47-6	o-Xylene	250	U
1330-20-7	Xylene (Total)	250	U
100-42-5	Styrene	250	U
75-25-2	Bromoform	250	U
98-82-8	Isopropylbenzene	250	U
79-34-5	1,1,2,2-Tetrachloroethane	250	U
108-86-1	Bromobenzene	250	U
96-18-4	1,2,3-Trichloropropane	250	U
103-65-1	n-Propylbenzene	250	U
95-49-8	2-Chlorotoluene	250	U
108-67-8	1,3,5-Trimethylbenzene	250	U
106-43-4	4-Chlorotoluene	250	U
98-06-6	tert-Butylbenzene	250	U
95-63-6	1,2,4-Trimethylbenzene	250	U
135-98-8	sec-Butylbenzene	250	U
99-87-6	4-Isopropyltoluene	250	U
541-73-1	1,3-Dichlorobenzene	250	U
106-46-7	1,4-Dichlorobenzene	250	U
104-51-8	n-Butylbenzene	250	U
95-50-1	1,2-Dichlorobenzene	250	U
96-12-8	1,2-Dibromo-3-chloropropane	250	U
120-82-1	1,2,4-Trichlorobenzene	250	U
87-68-3	Hexachlorobutadiene	250	U
87-61-6	1,2,3-Trichlorobenzene	250	U
91-20-3	Naphthalene	56	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	250	U
123-91-1	1,4-Dioxane	5000	U

6C - FORM VI VOA-3
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc.

Contract:

Lab Code: MITKEM Case No.: K1120 SAS No.: SK1120
Instrument ID: V10 Calibration Date(s): 07/06/2011 07/06/2011
Heated Purge: (Y/N) N Calibration Times: 9:48 12:19
Purge Volume: 5 (mL)
GC Column: DB-624 ID: 0.25 (mm) Length: 30 (mm)

LAB FILE ID: RRF005 = V8A4395.D RRF020 = V8A4394.D RRF050 = V8A4393.D RRF100 = V8A4399.D RRF200 = V8A4398.D										
RRF005 = V8A4395.D										
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF005			RRF	% RSD
Dichlorodifluoromethane	0.508	0.394	0.467	0.452	0.449	0.508			0.463	9.3
Chloromethane	0.308	0.248	0.285	0.291	0.249	0.308			0.281	9.6
Vinyl chloride	0.414	0.306	0.377	0.384	0.341	0.414			0.373	11.3
Bromomethane	0.296	0.235	0.281	0.310	0.300	0.296			0.286	9.4
Chloroethane	0.210	0.172	0.192	0.213	0.193	0.210			0.198	8.1
Trichlorofluoromethane	0.934	0.709	0.840	0.815	0.840	0.934			0.846	9.9
1,1-Dichloroethene	0.379	0.276	0.328	0.323	0.327	0.379			0.336	11.6
Acetone	0.036	0.030	0.026	0.042	0.044	0.036			0.035	19.6
Iodomethane	0.430	0.356	0.497	0.496	0.469	0.430			0.446	12.0
Carbon disulfide	1.248	0.916	1.117	1.005	0.996	1.248			1.088	12.8
Methylene chloride	0.412	0.329	0.369	0.354	0.357	0.412			0.372	9.0
trans-1,2-Dichloroethene	0.421	0.301	0.362	0.335	0.350	0.421			0.365	13.1
Methyl tert-butyl ether	1.332	1.134	1.213	1.232	1.239	1.332			1.247	6.0
1,1-Dichloroethane	0.618	0.483	0.565	0.531	0.547	0.618			0.560	9.3
Vinyl acetate	0.921	0.806	0.886	0.904	0.918	0.921			0.893	5.0
2-Butanone	0.035	0.036	0.034	0.044	0.045	0.035			0.038	13.1
cis-1,2-Dichloroethene	0.331	0.257	0.298	0.287	0.300	0.331			0.301	9.3
2,2-Dichloropropane	0.705	0.523	0.652	0.604	0.654	0.705			0.641	10.7
Bromochloromethane	0.152	0.128	0.141	0.143	0.145	0.152			0.144	6.0
Chloroform	0.796	0.616	0.718	0.683	0.713	0.796			0.720	9.6
1,1,1-Trichloroethane	0.762	0.575	0.689	0.649	0.696	0.762			0.689	10.3
1,2-Dichloropropene	0.150	0.114	0.131	0.132	0.140	0.150			0.136	10.0
Carbon tetrachloride	0.620	0.485	0.585	0.572	0.624	0.620			0.584	9.1
1,2-Dichloroethane	0.739	0.631	0.689	0.685	0.714	0.739			0.699	5.9
Benzene	1.276	0.987	1.172	1.124	1.178	1.276			1.169	9.2
Trichloroethene	0.299	0.233	0.278	0.267	0.282	0.299			0.276	9.0
1,2-Dichloropropane	0.308	0.251	0.290	0.284	0.300	0.308			0.290	7.4

6C - FORM VI VOA-3
VOLATILE ORGANICS INITIAL CALIBRATION DATA
Contract:

Lab Name: Spectrum Analytical, Inc.

Lab Code: MITKEM Case No.: K1120 SAS No.: SK1120
Instrument ID: V10 Calibration Date(s): 07/06/2011 07/06/2011
Heated Purge: (Y/N) N Calibration Times: 9:48 12:19
Purge Volume: 5 (mL)
GC Column: DB-624 ID: 0.25 (mm) Length: 30 (mm)

LAB FILE ID: RRF005 = V8A4395.D RRF020 = V8A4394.D RRF050 = V8A4393.D RRF100 = V8A4399.D RRF200 = V8A4398.D											
RRF005 = V8A4395.D											
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF005				RRF	% RSD
4-Chlorotoluene	0.685	0.567	0.593	0.619	0.631	0.685				0.630	7.6
tert-Butylbenzene	2.548	2.046	2.058	2.277	2.337	2.548				2.302	9.7
1,2,4-Trimethylbenzene	2.834	2.341	2.437	2.612	2.655	2.834				2.619	7.7
sec-Butylbenzene	3.256	2.599	2.642	2.973	3.021	3.256				2.958	9.7
4-Isopropyltoluene	2.430	1.990	2.081	2.314	2.383	2.430				2.271	8.3
1,3-Dichlorobenzene	1.393	1.149	1.208	1.266	1.280	1.393				1.281	7.6
1,4-Dichlorobenzene	1.357	1.173	1.219	1.294	1.308	1.357				1.285	5.8
n-Butylbenzene	2.460	2.037	2.152	2.475	2.548	2.460				2.355	8.8
1,2-Dichlorobenzene	1.362	1.164	1.196	1.260	1.268	1.362				1.268	6.5
1,2-Dibromo-3-chloropropane	0.224	0.204	0.197	0.230	0.228	0.224				0.218	6.3
1,2,4-Trichlorobenzene	0.718	0.736	0.779	0.938	0.967	0.718				0.809	14.0
Hexachlorobutadiene	0.613	0.481	0.477	0.516	0.517	0.613				0.536	11.5
1,2,3-Trichlorobenzene	0.752	0.744	0.767	0.904	0.915	0.752				0.806	10.0
Naphthalene	1.657	1.483	1.521	1.970	1.972	1.657				1.710	12.5
1,1,2-Trichloro-1,2,2-trifluoro	0.447	0.327	0.382	0.383	0.399	0.447				0.398	11.4
1,4-Dioxane	0.003	0.003	0.003	0.003	0.003	0.003				0.003	7.5
Cyclohexane	0.372	0.280	0.323	0.337	0.362	0.372				0.341	10.5
Methyl acetate	0.234	0.213	0.205	0.236	0.225	0.234				0.225	5.7
Methylcyclohexane	0.470	0.381	0.407	0.449	0.486	0.470				0.444	9.3

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

CLIENT SAMPLE NO.

BFB10N

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1120 Mod. Ref No.: _____ SDG No.: SK1120
Lab File ID: V8A4401.D BFB Injection Date: 07/06/2011
Instrument ID: V10 BFB Injection Time: 13:12
GC Column: DB-624 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.2
75	30.0 - 60.0% of mass 95	59.9
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	0.7 (0.8) 1
174	50.0 - 100.0% of mass 95	88.5
175	5.0 - 9.0% of mass 174	7.1 (8.0) 1
176	95.0 - 101.0% of mass 174	86.9 (98.2) 1
177	5.0 - 9.0% of mass 176	5.8 (6.7) 2

1 - Value is % mass 174

2 - Value is % mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD05010N	VSTD05010N	V8A4402.D	07/06/2011	13:26
02	LCS-60218	LCS-60218	V8A4404.D	07/06/2011	14:24
03	MB-60218	MB-60218	V8A4406.D	07/06/2011	15:13
04	DEC-048	K1120-01A	V8A4427.D	07/06/2011	23:27

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: K1120 Mod. Ref No.: _____ SDG No.: SK1120

Instrument ID: V10 Calibration Date: 07/06/2011 Time: 13:26

Lab File ID: V8A4402.D Init. Calib. Date(s): 07/06/2011 07/06/2011

EPA Sample No. (VSTD####) VSTD05010N Init. Calib. Time(s): 9:48 12:19

Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.463	0.479	0.100	3.4	20.0
Chloromethane	0.281	0.297	0.010	5.5	20.0
Vinyl chloride	0.373	0.386	0.010	3.7	20.0
Bromomethane	0.286	0.304	0.010	6.1	20.0
Chloroethane	0.198	0.213	0.010	7.4	20.0
Trichlorofluoromethane	0.846	0.864	0.010	2.2	20.0
1,1-Dichloroethene	0.336	0.341	0.100	1.7	20.0
Acetone	0.035	0.051	0.010	44.0	20.0
Iodomethane	0.446	0.501	0.010	12.3	20.0
Carbon disulfide	1.088	1.113	0.010	2.3	20.0
Methylene chloride	0.372	0.391	0.010	5.1	20.0
trans-1,2-Dichloroethene	0.365	0.373	0.010	2.2	20.0
Methyl tert-butyl ether	1.247	1.315	0.010	5.4	20.0
1,1-Dichloroethane	0.560	0.583	0.010	4.1	20.0
Vinyl acetate	0.893	0.973	0.010	9.0	20.0
2-Butanone	0.038	0.049	0.010	28.6	20.0
cis-1,2-Dichloroethene	0.301	0.313	0.010	4.1	20.0
2,2-Dichloropropane	0.641	0.660	0.010	3.0	20.0
Bromochloromethane	0.144	0.156	0.010	8.9	20.0
Chloroform	0.720	0.744	0.010	3.3	20.0
1,1,1-Trichloroethane	0.689	0.696	0.010	1.1	20.0
1,1-Dichloropropene	0.136	0.146	0.010	7.2	20.0
Carbon tetrachloride	0.584	0.604	0.010	3.3	20.0
1,2-Dichloroethane	0.699	0.746	0.010	6.6	20.0
Benzene	1.169	1.223	0.010	4.6	20.0
Trichloroethene	0.276	0.290	0.010	4.8	20.0
1,2-Dichloropropane	0.290	0.309	0.010	6.6	20.0
Dibromomethane	0.251	0.268	0.010	7.1	20.0
Bromodichloromethane	0.540	0.570	0.010	5.5	20.0
cis-1,3-Dichloropropene	0.545	0.593	0.010	8.8	20.0
4-Methyl-2-pentanone	0.229	0.265	0.010	16.0	20.0
Toluene	1.298	1.362	0.010	4.9	20.0
trans-1,3-Dichloropropene	0.551	0.612	0.010	11.2	20.0
1,1,2-Trichloroethane	0.279	0.295	0.010	5.8	20.0
1,3-Dichloropropane	0.592	0.642	0.010	8.4	20.0
Tetrachloroethene	0.345	0.328	0.010	5.0	20.0
2-Hexanone	0.199	0.261	0.010	31.0	20.0
Dibromochloromethane	0.422	0.462	0.010	9.3	20.0
1,2-Dibromoethane	0.360	0.398	0.010	10.6	20.0
Chlorobenzene	0.947	0.994	0.010	5.0	20.0

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: K1120 Mod. Ref No.: _____ SDG No.: SK1120

Instrument ID: V10 Calibration Date: 07/06/2011 Time: 13:26

Lab File ID: V8A4402.D Init. Calib. Date(s): 07/06/2011 07/06/2011

EPA Sample No. (VSTD####) VSTD05010N Init. Calib. Time(s): 9:48 12:19

Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
1,1,1,2-Tetrachloroethane	0.379	0.401	0.010	6.0	20.0
Ethylbenzene	0.500	0.513	0.010	2.6	20.0
m,p-Xylene	0.621	0.639	0.010	2.9	20.0
o-Xylene	0.606	0.632	0.010	4.2	20.0
Xylene (Total)	0.616	0.637	0.010	3.3	20.0
Styrene	1.032	1.108	0.010	7.3	20.0
Bromoform	0.311	0.339	0.010	8.8	20.0
Isopropylbenzene	1.726	1.726	0.300	0.0	20.0
1,1,2,2-Tetrachloroethane	0.777	0.847	0.300	9.0	20.0
Bromobenzene	0.744	0.772	0.010	3.7	20.0
1,2,3-Trichloropropane	1.146	1.234	0.010	7.7	20.0
n-Propylbenzene	0.661	0.647	0.010	-2.2	20.0
2-Chlorotoluene	0.622	0.631	0.010	1.5	20.0
1,3,5-Trimethylbenzene	2.587	2.579	0.010	-0.3	20.0
4-Chlorotoluene	0.630	0.656	0.010	4.1	20.0
tert-Butylbenzene	2.302	2.238	0.010	-2.8	20.0
1,2,4-Trimethylbenzene	2.619	2.646	0.010	1.0	20.0
sec-Butylbenzene	2.958	2.836	0.010	-4.1	20.0
4-Isopropyltoluene	2.271	2.242	0.010	-1.3	20.0
1,3-Dichlorobenzene	1.281	1.345	0.010	4.9	20.0
1,4-Dichlorobenzene	1.285	1.359	0.010	5.8	20.0
n-Butylbenzene	2.355	2.360	0.100	0.2	20.0
1,2-Dichlorobenzene	1.268	1.335	0.010	5.3	20.0
1,2-Dibromo-3-chloropropane	0.218	0.234	0.010	7.5	20.0
1,2,4-Trichlorobenzene	0.809	0.902	0.010	11.5	20.0
Hexachlorobutadiene	0.536	0.519	0.010	-3.3	20.0
1,2,3-Trichlorobenzene	0.806	0.905	0.010	12.3	20.0
Naphthalene	1.710	1.934	0.010	13.1	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.398	0.403	0.010	1.4	20.0
1,4-Dioxane	0.003	0.004	0.010	30.3	20.0
Cyclohexane	0.341	0.356	0.010	4.4	20.0
Methyl acetate	0.225	0.251	0.010	11.8	20.0
Methylcyclohexane	0.444	0.448	0.010	1.0	20.0

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: S3

Instrument Type: GCMS-SEMI

Description: HP6890 / HP5973

Manufacturer: Hewlett-Packard

Model: 6890 / 5973

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits with the following exceptions. Please note that the acceptance criteria allow one surrogate recovery outside of the QC limits per fraction.

DEC-048 (K1120-01A), recovery is above criteria for 2,4,6-Tribromophenol at 135% with criteria of (35-125), 2-Fluorophenol at 108% with criteria of (35-105), Nitrobenzene-d5 at 538% with criteria of (35-100) and Phenol-d5 at 115% with criteria of (40-100).

LCS-60224, recovery is above criteria for 2,4,6-Tribromophenol at 131% with criteria of (35-125), 2-Fluorophenol at 110% with criteria of (35-105) and Phenol-d5 at 105% with criteria of (40-100).

LCSD-60224, recovery is above criteria for 2,4,6-Tribromophenol at 132% with criteria of (35-125), 2-Fluorophenol at 118% with criteria of (35-105) and Phenol-d5 at 109% with criteria of (40-100).

Please note that for samples of oil matrix, both the field samples and their associated method blank and LCS/LCSD were diluted to 10 mL. These dilutions resulted in increased imprecision in determining the surrogate recovery.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits with the following exceptions. Please note that most test procedures allow for several compounds outside of the QC limits for the LCS, although this may indicate a bias for this specific compound.

LCS-60224 in batch 60224, recovery is below criteria for 2,4-Dinitrophenol at 0% with criteria of (15-130) and Benzaldehyde at 0% with criteria of (10-118).

LCSD-60224 in batch 60224, recovery is below criteria for 2,4-Dinitrophenol at 0% with criteria of (15-130) and Benzaldehyde at 0% with criteria of (10-118).

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

The following sample was analyzed at dilution:

DEC-048 (K1120-01A) : Dilution Factor: 5

G. Samples:

Approximately 1gram of the oil sample was taken, spiked with surrogate and diluted to 10mL in methylene chloride. An aliquot of the resultant sample extract was transferred to the instrument lab for analysis.

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum RI, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as

verified by the following signature.

Signed: _____

Date: 07/26/11

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.

LCS-60224

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM

Case No.: K1120

Mod. Ref No.:

SDG No.: SK1120

Lab Sample ID: LCS-60224

LCS Lot No.: A079604

Date Extracted: 07/07/2011

Date Analyzed (1): 07/07/2011

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Phenol	50010.0000	0.0000	47319.2659	95		40 - 100
Bis(2-chloroethyl) ether	50010.0000	0.0000	44394.6538	89		40 - 105
2-Chlorophenol	50010.0000	0.0000	46121.9438	92		45 - 105
2-Methylphenol	50010.0000	0.0000	43842.4785	88		40 - 105
2,2'-oxybis(1-Chloropropan	50010.0000	0.0000	38718.3247	77		20 - 115
N-Nitroso-di-n-propylamine	50010.0000	0.0000	38247.1439	76		40 - 115
Hexachloroethane	50010.0000	0.0000	47234.7594	94		35 - 110
Nitrobenzene	50010.0000	0.0000	44164.0959	88		40 - 115
Isophorone	50010.0000	0.0000	39997.7010	80		45 - 110
2-Nitrophenol	50010.0000	0.0000	42488.8293	85		40 - 110
2,4-Dimethylphenol	50010.0000	0.0000	43758.2766	87		30 - 105
2,4-Dichlorophenol	50010.0000	0.0000	45464.5264	91		45 - 110
Naphthalene	50010.0000	0.0000	47397.4176	95		40 - 105
4-Chloroaniline	50010.0000	0.0000	36486.7247	73		10 - 100
Bis(2-chloroethoxy) methane	50010.0000	0.0000	43719.6261	87		45 - 110
Hexachlorobutadiene	50010.0000	0.0000	47820.7075	96		40 - 115
4-Chloro-3-methylphenol	50010.0000	0.0000	42732.2957	85		45 - 115
2-Methylnaphthalene	50010.0000	0.0000	43792.6506	88		45 - 105
Hexachlorocyclopentadiene	50010.0000	0.0000	44020.5790	88		8 - 148
2,4,6-Trichlorophenol	50010.0000	0.0000	44083.9832	88		45 - 110
2,4,5-Trichlorophenol	50010.0000	0.0000	49860.7669	100		50 - 110
2-Chloronaphthalene	50010.0000	0.0000	47121.1082	94		45 - 105
2-Nitroaniline	50010.0000	0.0000	37172.1647	74		45 - 120
Dimethylphthalate	50010.0000	0.0000	41941.5518	84		50 - 110
Acenaphthylene	50010.0000	0.0000	44360.5205	89		45 - 105
2,6-Dinitrotoluene	50010.0000	0.0000	39458.1426	79		50 - 110
3-Nitroaniline	50010.0000	0.0000	34788.1714	70		25 - 110
Acenaphthene	50010.0000	0.0000	43493.8614	87		45 - 110
2,4-Dinitrophenol	50010.0000	0.0000	0.0000	0	*	15 - 130
4-Nitrophenol	50010.0000	0.0000	37879.3849	76		15 - 140
Dibenzofuran	50010.0000	0.0000	44868.3460	90		50 - 105
2,4-Dinitrotoluene	50010.0000	0.0000	35587.3423	71		50 - 115
Diethylphthalate	50010.0000	0.0000	40830.0756	82		50 - 115
4-Chlorophenyl-phenylether	50010.0000	0.0000	45081.8903	90		45 - 110
Fluorene	50010.0000	0.0000	43741.2526	87		50 - 110
4-Nitroaniline	50010.0000	0.0000	35118.8605	70		35 - 115
4,6-Dinitro-2-methylphenol	50010.0000	0.0000	21936.5856	44		30 - 135
N-Nitrosodiphenylamine	50010.0000	0.0000	44016.8925	88		50 - 115
4-Bromophenyl-phenylether	50010.0000	0.0000	50400.8739	101		45 - 115
Hexachlorobenzene	50010.0000	0.0000	53458.2456	107		45 - 120
Pentachlorophenol	50010.0000	0.0000	53637.0296	107		25 - 120
Phenanthrene	50010.0000	0.0000	46344.2959	93		50 - 110
Anthracene	50010.0000	0.0000	45328.9124	91		55 - 105
Carbazole	50010.0000	0.0000	46032.0790	92		45 - 115

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.

LCS-60224

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: K1120 Mod. Ref No.: _____ SDG No.: SK1120
Lab Sample ID: LCS-60224 LCS Lot No.: A079604
Date Extracted: 07/07/2011 Date Analyzed (1): 07/07/2011

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Di-n-butylphthalate	50010.0000	0.0000	40826.4990	82		55 - 110
Fluoranthene	50010.0000	0.0000	46949.3678	94		55 - 115
Pyrene	50010.0000	0.0000	40144.4814	80		45 - 125
Butylbenzylphthalate	50010.0000	0.0000	33900.1798	68		50 - 125
3,3'-Dichlorobenzidine	50010.0000	0.0000	49017.5083	98		10 - 130
Benzo(a)anthracene	50010.0000	0.0000	47837.8613	96		50 - 110
Chrysene	50010.0000	0.0000	51976.0264	104		55 - 110
Bis(2-ethylhexyl)phthalate	50010.0000	0.0000	32911.2593	66		45 - 125
Di-n-octylphthalate	50010.0000	0.0000	28223.6744	56		40 - 130
Benzo(b)fluoranthene	50010.0000	0.0000	39798.7548	80		45 - 115
Benzo(k)fluoranthene	50010.0000	0.0000	46184.7413	92		45 - 125
Benzo(a)pyrene	50010.0000	0.0000	42715.6701	85		50 - 110
Indeno(1,2,3-cd)pyrene	50010.0000	0.0000	43229.7875	86		40 - 120
Dibenzo(a,h)anthracene	50010.0000	0.0000	41771.1073	84		40 - 125
Benzo(g,h,i)perylene	50010.0000	0.0000	45438.8978	91		40 - 125
1,1'-Biphenyl	50010.0000	0.0000	46391.0380	93		50 - 121
3-Methylphenol + 4-Methylp	50010.0000	0.0000	42591.4976	85		40 - 105
Acetophenone	50010.0000	0.0000	41307.2562	83		50 - 150
Atrazine	50010.0000	0.0000	44699.6757	89		50 - 150
Benzaldehyde	50010.0000	0.0000	0.0000	0	*	10 - 118
Caprolactam	50010.0000	0.0000	34495.0068	69		41 - 115

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 2 out of 65 outside limits

COMMENTS: _____

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE DUPLICATE RECOVERY

EPA SAMPLE NO.

LCSD-60224

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM

Case No.: K1120

Mod. Ref No.:

SDG No.: SK1120

Lab Sample ID: LCSD-60224

LCS Lot No.:

A079604

COMPOUND	SPIKE ADDED	LCSD CONCENTRATION	LCSD %REC	#	%RPD	QC LIMITS	
						RPD	REC.
Phenol	50010.0000	48841.1376	98		3	40	40 - 100
Bis(2-chloroethyl)ether	50010.0000	46278.9707	93		4	40	40 - 105
2-Chlorophenol	50010.0000	49053.3097	98		6	40	45 - 105
2-Methylphenol	50010.0000	46474.9193	93		6	40	40 - 105
2,2'-oxybis(1-Chloropropan	50010.0000	40384.1528	81		5	40	20 - 115
N-Nitroso-di-n-propylamine	50010.0000	40723.2166	81		6	40	40 - 115
Hexachloroethane	50010.0000	49471.3912	99		5	40	35 - 110
Nitrobenzene	50010.0000	46320.4238	93		6	40	40 - 115
Isophorone	50010.0000	43741.6395	87		8	40	45 - 110
2-Nitrophenol	50010.0000	43510.4022	87		2	40	40 - 110
2,4-Dimethylphenol	50010.0000	46530.4665	93		7	40	30 - 105
2,4-Dichlorophenol	50010.0000	49743.1812	99		8	40	45 - 110
Naphthalene	50010.0000	49533.3596	99		4	40	40 - 105
4-Chloroaniline	50010.0000	41558.2735	83		13	40	10 - 100
Bis(2-chloroethoxy)methane	50010.0000	46575.8791	93		7	40	45 - 110
Hexachlorobutadiene	50010.0000	51510.6394	103		7	40	40 - 115
4-Chloro-3-methylphenol	50010.0000	43417.2876	87		2	40	45 - 115
2-Methylnaphthalene	50010.0000	44039.3083	88		0	40	45 - 105
Hexachlorocyclopentadiene	50010.0000	49309.5546	99		12	40	8 - 148
2,4,6-Trichlorophenol	50010.0000	49766.1657	100		13	40	45 - 110
2,4,5-Trichlorophenol	50010.0000	48850.5173	98		2	40	50 - 110
2-Chloronaphthalene	50010.0000	48284.4951	97		3	40	45 - 105
2-Nitroaniline	50010.0000	40822.4885	82		10	40	45 - 120
Dimethylphthalate	50010.0000	43985.1221	88		5	40	50 - 110
Acenaphthylene	50010.0000	46996.6689	94		5	40	45 - 105
2,6-Dinitrotoluene	50010.0000	43878.5663	88		11	40	50 - 110
3-Nitroaniline	50010.0000	36151.8046	72		3	40	25 - 110
Acenaphthene	50010.0000	45109.9813	90		3	40	45 - 110
2,4-Dinitrophenol	50010.0000	0.0000	0		*zero	40	15 - 130
4-Nitrophenol	50010.0000	41226.2871	82		8	40	15 - 140
Dibenzofuran	50010.0000	47201.9458	94		4	40	50 - 105
2,4-Dinitrotoluene	50010.0000	40184.7837	80		12	40	50 - 115
Diethylphthalate	50010.0000	42923.3486	86		5	40	50 - 115
4-Chlorophenyl-phenylether	50010.0000	45964.2344	92		2	40	45 - 110
Fluorene	50010.0000	46776.3946	94		8	40	50 - 110
4-Nitroaniline	50010.0000	36125.9162	72		3	40	35 - 115
4,6-Dinitro-2-methylphenol	50010.0000	24691.2409	49		11	40	30 - 135
N-Nitrosodiphenylamine	50010.0000	47990.6965	96		9	40	50 - 115
4-Bromophenyl-phenylether	50010.0000	52531.4894	105		4	40	45 - 115
Hexachlorobenzene	50010.0000	55863.8304	112		5	40	45 - 120
Pentachlorophenol	50010.0000	59620.7448	119		11	40	25 - 120
Phenanthrene	50010.0000	48619.6383	97		4	40	50 - 110
Anthracene	50010.0000	47995.7168	96		5	40	55 - 105
Carbazole	50010.0000	47880.5238	96		4	40	45 - 115
Di-n-butylphthalate	50010.0000	44035.8113	88		7	40	55 - 110
Fluoranthene	50010.0000	49613.3133	99		5	40	55 - 115

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE DUPLICATE RECOVERY

EPA SAMPLE NO.

LCSD-60224

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM Case No.: K1120

Mod. Ref No.:

SDG No.: SK1120

Lab Sample ID: LCSD-60224

LCS Lot No.:

A079604

COMPOUND	SPIKE ADDED	LCSD CONCENTRATION	LCSD %REC #		%RPD #	QC LIMITS	
						RPD	REC.
Pyrene	50010.0000	42540.2024	85		6	40	45 - 125
Butylbenzylphthalate	50010.0000	36204.5204	72		6	40	50 - 125
3,3'-Dichlorobenzidine	50010.0000	53556.7698	107		9	40	10 - 130
Benzo(a)anthracene	50010.0000	53506.8849	107		11	40	50 - 110
Chrysene	50010.0000	51059.6562	102		2	40	55 - 110
Bis(2-ethylhexyl)phthalate	50010.0000	36366.8982	73		10	40	45 - 125
Di-n-octylphthalate	50010.0000	31232.1850	62		10	40	40 - 130
Benzo(b)fluoranthene	50010.0000	43803.0554	88		10	40	45 - 115
Benzo(k)fluoranthene	50010.0000	45761.2742	92		0	40	45 - 125
Benzo(a)pyrene	50010.0000	43127.5537	86		1	40	50 - 110
Indeno(1,2,3-cd)pyrene	50010.0000	33128.3444	66		26	40	40 - 120
Dibenzo(a,h)anthracene	50010.0000	44039.7938	88		5	40	40 - 125
Benzo(g,h,i)perylene	50010.0000	48560.0245	97		6	40	40 - 125
1,1'-Biphenyl	50010.0000	49304.2794	99		6	40	50 - 121
3-Methylphenol + 4-Methylp	50010.0000	44423.7701	89		5	40	40 - 105
Acetophenone	50010.0000	42663.3828	85		2	40	50 - 150
Atrazine	50010.0000	45545.5651	91		2	40	50 - 150
Benzaldehyde	50010.0000	0.0000	0	*	zero	40	10 - 118
Caprolactam	50010.0000	36479.6244	73		6	40	41 - 115

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 65 outside limits

Spike Recovery: 2 out of 65 outside limits

COMMENTS:

7E - FORM VII SV-1
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC.	Contract:
Lab Code: MITKEM Case No.: K1120	Mod. Ref No.: SDG No.: SK1120
Instrument ID: S3	Calibration Date: 07/07/2011 Time: 11:04
Lab File ID: S3H4541.D	Init. Calib. Date(s): 05/19/2011 05/19/2011
EPA Sample No.(SSTD020##) SSTD0253L	Init. Calib. Time(s): 12:17 14:08
GC Column: Rxi-5sil MS ID: 0.25 (mm)	

COMPOUND	RRF	RRF025	MIN RRF	%D	MAX %D
Phenol	1.838	1.657	0.010	-9.9	20.0
Bis(2-chloroethyl)ether	1.376	1.177	0.010	-14.4	20.0
2-Chlorophenol	1.444	1.290	0.010	-10.7	20.0
2-Methylphenol	1.383	1.203	0.010	-13.0	20.0
2,2'-oxybis(1-Chloropropane)	2.261	1.673	0.010	-26.0	20.0
N-Nitroso-di-n-propylamine	1.245	0.958	0.050	-23.0	20.0
Hexachloroethane	0.583	0.534	0.010	-8.4	20.0
Nitrobenzene	0.417	0.369	0.010	-11.7	20.0
Isophorone	0.760	0.634	0.010	-16.5	20.0
2-Nitrophenol	0.213	0.194	0.010	-8.7	20.0
2,4-Dimethylphenol	0.405	0.343	0.010	-15.3	20.0
2,4-Dichlorophenol	0.340	0.306	0.010	-10.0	20.0
Naphthalene	1.042	0.955	0.010	-8.3	20.0
4-Chloroaniline	0.455	0.440	0.010	-3.3	20.0
Bis(2-chloroethoxy)methane	0.428	0.371	0.010	-13.2	20.0
Hexachlorobutadiene	0.202	0.182	0.010	-9.7	20.0
4-Chloro-3-methylphenol	0.396	0.335	0.010	-15.4	20.0
2-Methylnaphthalene	0.794	0.712	0.010	-10.3	20.0
Hexachlorocyclopentadiene	0.300	0.299	0.050	-0.3	20.0
2,4,6-Trichlorophenol	0.387	0.371	0.010	-4.0	20.0
2,4,5-Trichlorophenol	0.417	0.403	0.010	-3.5	20.0
2-Chloronaphthalene	1.114	1.044	0.010	-6.3	20.0
2-Nitroaniline	0.429	0.371	0.010	-13.6	20.0
Dimethylphthalate	1.479	1.275	0.010	-13.8	20.0
Acenaphthylene	1.848	1.687	0.010	-8.7	20.0
2,6-Dinitrotoluene	0.358	0.315	0.010	-12.2	20.0
3-Nitroaniline	0.363	0.347	0.010	-4.5	20.0
Acenaphthene	1.168	1.063	0.010	-9.0	20.0
2,4-Dinitrophenol	0.219	0.186	0.050	-15.2	20.0
4-Nitrophenol	0.307	0.246	0.050	-19.8	20.0
Dibenzofuran	1.687	1.565	0.010	-7.2	20.0
2,4-Dinitrotoluene	0.497	0.402	0.010	-19.1	20.0
Diethylphthalate	1.567	1.323	0.010	-15.6	20.0
4-Chlorophenyl-phenylether	0.679	0.626	0.010	-7.8	20.0
Fluorene	1.462	1.361	0.010	-6.9	20.0
4-Nitroaniline	0.414	0.358	0.010	-13.7	20.0
4,6-Dinitro-2-methylphenol	0.168	0.152	0.010	-9.3	20.0
N-Nitrosodiphenylamine	0.660	0.614	0.010	-7.0	20.0
4-Bromophenyl-phenylether	0.207	0.210	0.010	1.6	20.0
Hexachlorobenzene	0.218	0.229	0.010	5.5	20.0
Pentachlorophenol	0.155	0.176	0.010	13.9	20.0
Phenanthrene	1.137	1.064	0.010	-6.4	20.0

7F - FORM VII SV-2
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: K1120 Mod. Ref No.: _____ SDG No.: SK1120

Instrument ID: S3 Calibration Date: 07/07/2011 Time: 11:04

Lab File ID: S3H4541.D Init. Calib. Date(s): 05/19/2011 05/19/2011

EPA Sample No. (SSTD020##) SSTD0253L Init. Calib. Time(s): 12:17 14:08

GC Column: Rxi-5sil MS ID: 0.25 (mm)

COMPOUND	RRF	RRF025	MIN RRF	%D	MAX %D
Anthracene	1.158	1.068	0.010	-7.8	20.0
Carbazole	1.132	1.063	0.010	-6.1	20.0
Di-n-butylphthalate	1.349	1.182	0.010	-12.4	20.0
Fluoranthene	1.295	1.191	0.010	-8.0	20.0
Pyrene	1.087	0.914	0.010	-15.9	20.0
Butylbenzylphthalate	0.533	0.406	0.010	(-23.8)	20.0
3,3'-Dichlorobenzidine	0.306	0.300	0.010	-2.1	20.0
Benzo(a)anthracene	1.110	1.032	0.010	-7.0	20.0
Chrysene	1.082	1.065	0.010	-1.5	20.0
Bis(2-ethylhexyl)phthalate	0.734	0.560	0.010	(-23.6)	20.0
Di-n-octylphthalate	1.261	0.936	0.010	(-25.8)	20.0
Benzo(b)fluoranthene	1.194	0.993	0.010	-16.8	20.0
Benzo(k)fluoranthene	1.146	1.097	0.010	-4.3	20.0
Benzo(a)pyrene	1.065	0.950	0.010	-10.8	20.0
Indeno(1,2,3-cd)pyrene	1.283	1.172	0.010	-8.6	20.0
Dibenzo(a,h)anthracene	1.068	0.974	0.010	-8.8	20.0
Benzo(g,h,i)perylene	1.104	1.029	0.010	-6.8	20.0
1,1'-Biphenyl	1.312	1.236	0.010	-5.8	20.0
3-Methylphenol + 4-Methylphenol	1.510	1.255	0.010	-16.9	20.0
Acetophenone	1.733	1.383	0.010	-20.2	20.0
Atrazine	0.210	0.161	0.010	(-23.3)	20.0
Benzaldehyde	1.072	0.939	0.010	-12.4	20.0
Caprolactam	0.157	0.126	0.010	-20.2	20.0

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Klink Cosmo Meeker, LNAPL Sample

Laboratory Workorder / SDG #: K1120

SW846 8015D, Fuel Identification by GC-FID

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8015D Nonhalogenated Organics Using GC/FID. Fuel identification was performed by comparison of the GC-FID sample chromatogram to a series of fuel standards. No final concentration result is applicable.

IV. PREPARATION

Samples were prepared following procedures in laboratory test code: SW846 3580A, Waste Dilution.

V. INSTRUMENTATION

The following instrumentation was used:

Instrument Code: F1

Instrument Type: GC-FID
Description: HP6890
Manufacturer: Hewlett-Packard
Model: 6890

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

N/A

D. Spikes:

1. Laboratory Control Spikes (LCS/LCSD):

Percent recoveries for lab control samples were within the QC limits.

E. Dilutions:

The following sample was analyzed at dilution:

DEC-048 (K1120-01A): Dilution Factor: 20

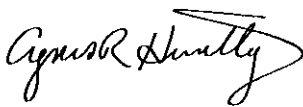
F. Samples:

Spectrum RI's analysis method is designed to separate and identify common hydrocarbon fuels and other petroleum-related products. Samples are analyzed using capillary gas chromatography with flame ionization detection. Results are compared to a library of standards of known petroleum products obtained from commercial analytical standard sources. The following petroleum products are included in the library of standards: Fuel oils #1, #2/diesel, #3, #4, #5, #6, kerosene, mineral spirits, turpentine, paint thinner, jet fuels JP-4, JP-5, gasoline, aviation gasoline, lubricating oil, motor oil, hydraulic oil, transmission oil, coal tar, creosote.

Copies of raw sample chromatograms for each sample and for standards of known hydrocarbon products follow this page. These samples and standards have been analyzed under similar conditions. The internal standard peak, chlorooctadecane, has been identified on each chromatogram. The retention time of this peak is used to match chromatograms analyzed at different times, or on different instruments.

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum RI, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed:  _____

Date: 07/26/11

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Klink Cosmo Meeker, LNAPL Sample

Laboratory Workorder / SDG #: K1120

Subcontracted Analysis

The following analysis was performed by subcontractor laboratory:

Modified Gravity:

Modified Gravity by ASTM method 2170F was performed by Mt. Tom Generating Co. LLC Analytical Laboratory. The entire Mt. Tom report, including any notes on these analyses is enclosed following the Total Petroleum Hydrocarbon section of the Spectrum RI report.

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

10/6/40

[illegible]

ORIGINAL

Data File: \\192.168.10.12\chem\10air7.i\062711.b\17804.D
Report Date: 27-Jun-2011 09:52

Pace Analytical Services

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10air7.i Injection Date: 27-JUN-2011 08:44
Lab File ID: 17804.D Init. Cal. Date(s): 25-JUN-2011 25-JUN-2011
Analysis Type: AIR Init. Cal. Times: 11:07 14:03
Lab Sample ID: CCAL Quant Type: ISTD
Method: \\192.168.10.12\chem\10air7.i\062711.b\TO15_176-11.m

COMPOUND	RRF / AMOUNT	RF10	RRF10	MIN RRF %D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
145 Methyl Isobutyl Ketone	10.00000	8.97137	0.33590	0.010	-10.28634	30.00000	Linear
146 cis-1,3-Dichloropropene	0.34096	0.32409	0.32409	0.010	-4.95311	30.00000	Averaged
147 trans-1,3-Dichloropropene	10.00000	9.19720	0.28862	0.010	-8.02798	30.00000	Linear
148 Toluene-d8 (S)	0.92283	0.87355	0.87355	0.010	-5.34010	30.00000	Averaged
149 Toluene	10.00000	9.46283	0.56354	0.010	-5.37173	30.00000	Linear
150 1,1,2-Trichloroethane	10.00000	9.00485	0.20086	0.010	-9.95153	30.00000	Linear
151 Methyl Butyl Ketone	10.00000	8.82813	0.56253	0.010	-11.71870	30.00000	Linear
152 Dibromochloromethane	10.00000	9.28664	0.73986	0.010	-7.13363	30.00000	Linear
153 1,2-Dibromoethane	0.59135	0.57428	0.57428	0.010	-2.88717	30.00000	Averaged
154 Tetrachloroethene	0.60403	0.66329	0.66329	0.010	9.81200	30.00000	Averaged
156 Chlorobenzene	10.00000	10.09104	0.81849	0.010	0.91043	30.00000	Linear
157 Ethyl Benzene	10.00000	9.95040	1.36557	0.010	-0.49598	30.00000	Linear
158 m&p-Xylene	1.16879	1.12745	1.12745	0.010	-3.53651	30.00000	Averaged
159 2-Heptanone	10.00000	7.09281	0.65657	0.010	-29.07191	0.000e+000	Quadratic<-
160 Bromoform	10.00000	8.77222	0.86487	0.010	-12.27782	30.00000	Linear
161 Styrene	10.00000	9.42725	0.84015	0.010	-5.72751	30.00000	Linear
162 o-Xylene	1.13935	1.10236	1.10236	0.010	-3.24658	30.00000	Averaged
163 1,1,2,2-Tetrachloroethane	0.87033	0.73673	0.73673	0.010	-15.35055	30.00000	Averaged
164 Isopropylbenzene	1.64340	1.44045	1.44045	0.010	-12.34983	30.00000	Averaged
165 N-Propylbenzene	10.00000	9.51431	1.59510	0.010	-4.85686	30.00000	Linear
166 4-Ethyltoluene	10.00000	9.27814	1.28872	0.010	-7.21865	30.00000	Linear
167 1,3,5-Trimethylbenzene	10.00000	9.33012	1.19519	0.010	-6.69875	30.00000	Linear
168 1,2,4-Trimethylbenzene	10.00000	9.21048	1.06285	0.010	-7.89518	30.00000	Linear
169 1,3-Dichlorobenzene	10.00000	8.70930	0.85322	0.010	-12.90697	30.00000	Linear
170 Sec- Butylbenzene	10.00000	8.94630	1.58447	0.010	-10.53698	30.00000	Linear
171 1,4-dichlorobenzene-d4 (S)	0.50620	0.49606	0.49606	0.010	-2.00130	30.00000	Averaged
172 Benzyl Chloride	10.00000	7.89083	0.75038	0.010	-21.09169	30.00000	Linear
173 1,4-Dichlorobenzene	10.00000	8.92939	0.81635	0.010	-10.70614	30.00000	Linear
174 1,2-Dichlorobenzene	10.00000	9.33660	0.78967	0.010	-6.63404	30.00000	Linear
175 N-Butylbenzene	10.00000	9.07979	1.19466	0.010	-9.26214	30.00000	Linear
176 1,2,4-Trichlorobenzene	10.00000	5.01058	0.49628	0.010	-49.89420	30.00000	Quadratic<-
177 Naphthalene	10.00000	5.17488	0.84945	0.010	-48.25124	30.00000	Quadratic<-
178 Hexachlorobutadiene	10.00000	6.14845	0.48614	0.010	-38.51547	30.00000	Quadratic<-

Average %D / Drift Results.

Calculated Average %D/Drift = 13.40040
Maximum Average %D/Drift = 30.00000
* Passed Average %D/Drift Test.

Data File: \\192.168.10.12\chem\10air0.i\062411.b\17502.D
Report Date: 24-Jun-2011 10:13

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10air0.i Injection Date: 24-JUN-2011 09:12
Lab File ID: 17502.D Init. Cal. Date(s): 20-JUN-2011 20-JUN-2011
Analysis Type: AIR Init. Cal. Times: 09:35 12:49
Lab Sample ID: CCAL Quant Type: ISTD
Method: \\192.168.10.12\chem\10air0.i\062411.b\TO15_171-11.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
144 Methyl Isobutyl Ketone	10.00000	10.44935	0.24247	0.010	4.49348	30.00000	Linear
145 cis-1,3-Dichloropropene	10.00000	11.19530	0.28856	0.010	11.95303	30.00000	Linear
146 trans-1,3-Dichloropropene	10.00000	10.74796	0.26047	0.010	7.47958	30.00000	Linear
147 47 Toluene-d8 (S)	0.81961	0.83379	0.83379	0.010	1.73055	30.00000	Averaged
148 Toluene	10.00000	11.06058	0.51149	0.010	10.60575	30.00000	Linear
149 1,1,2-Trichloroethane	10.00000	11.26736	0.18037	0.010	12.67365	30.00000	Linear
150 Methyl Butyl Ketone	10.00000	10.32790	0.41425	0.010	3.27900	30.00000	Linear
151 Dibromochloromethane	10.00000	10.98093	0.65996	0.010	9.80927	30.00000	Linear
152 1,2-Dibromoethane	10.00000	11.48102	0.54859	0.010	14.81024	30.00000	Linear
153 Tetrachloroethene	0.61892	0.59955	0.59955	0.010	-3.12899	30.00000	Averaged
155 Chlorobenzene	10.00000	11.52271	0.80335	0.010	15.22710	30.00000	Linear
156 Ethyl Benzene	10.00000	10.99729	1.31042	0.010	9.97286	30.00000	Linear
157 m&p-Xylene	20.00000	21.54721	0.96671	0.010	7.73603	30.00000	Linear
158 2-Heptanone	10.00000	9.16635	0.28465	0.010	-0.33645	30.00000	Linear
159 Bromoform	10.00000	10.41683	0.73077	0.010	4.16846	30.00000	Linear
160 Styrene	10.00000	10.91054	0.82996	0.010	9.10539	30.00000	Linear
161 o-Xylene	10.00000	10.49150	1.02689	0.010	4.91505	30.00000	Linear
162 1,1,2,2-Tetrachloroethane	10.00000	11.12953	0.70001	0.010	11.29528	30.00000	Linear
163 Isopropylbenzene	10.00000	10.76378	1.34549	0.010	7.63779	30.00000	Linear
164 N-Propylbenzene	1.48139	1.53970	1.53970	0.010	3.93569	30.00000	Averaged
165 4-Ethyltoluene	1.20931	1.29753	1.29753	0.010	7.29472	30.00000	Averaged
166 1,3,5-Trimethylbenzene	1.07318	1.10881	1.10881	0.010	3.31996	30.00000	Averaged
167 1,2,4-Trimethylbenzene	0.95635	1.05492	1.05492	0.010	10.30660	30.00000	Averaged
168 1,3-Dichlorobenzene	0.71818	0.77170	0.77170	0.010	7.45226	30.00000	Averaged
169 Sec- Butylbenzene	1.36808	1.45275	1.45275	0.010	6.18945	30.00000	Averaged
170 1,4-dichlorobenzene-d4 (S)	0.48974	0.49672	0.49672	0.010	1.42528	30.00000	Averaged
171 Benzyl Chloride	10.00000	10.14675	0.70322	0.010	1.46746	30.00000	Linear
172 1,4-Dichlorobenzene	0.72436	0.77343	0.77343	0.010	6.77530	30.00000	Averaged
173 1,2-Dichlorobenzene	0.67461	0.78522	0.78522	0.010	16.39620	30.00000	Averaged
174 N-Butylbenzene	0.92036	1.12100	1.12100	0.010	21.80108	30.00000	Averaged
175 1,2,4-Trichlorobenzene	10.00000	13.34280	0.44832	0.010	33.42802	30.00000	Quadratic<-
176 Naphthalene	10.00000	12.87230	0.81151	0.010	28.72300	30.00000	Quadratic
177 Hexachlorobutadiene	10.00000	14.50987	0.34817	0.010	45.09869	30.00000	Quadratic<-

Average %D / Drift Results.

Calculated Average %D/Drift = 10.54535

Maximum Average %D/Drift = 30.00000

* Passed Average %D/Drift Test.



AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

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AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

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Section A Required Client Information:			Section B Required Project Information:			Section C Invoice Information:			Section D Required Client Information		
Company: <u>URS</u>			Report To: <u>see pg. 1</u>			Attention: <u>see pg. 1</u>			Company Name: <u>see pg. 1</u>		
Address: <u>see pg. 1</u>			Copy To: <u>see pg. 1</u>			Address: <u>see pg. 1</u>			Address: <u>see pg. 1</u>		
Email To: <u>see pg. 1</u>			Purchase Order No.: <u>see pg. 1</u>			Pace Quote Reference: <u>see pg. 1</u>			Pace Project Manager/Sales Rep. <u>see pg. 1</u>		
Phone: <u>see pg. 1</u>			Project Name: <u>see pg. 1</u>			Pace Profile #: <u>see pg. 1</u>			Pace Project Manager/Sales Rep. <u>see pg. 1</u>		
Requested Due Date/TAT: <u>see pg. 1</u>			Project Number: <u>see pg. 1</u>			Pace Profile #: <u>see pg. 1</u>			Pace Project Manager/Sales Rep. <u>see pg. 1</u>		
Section D Required Client Information			Section B Required Project Information			Section C Invoice Information			Section D Required Client Information		
AIR SAMPLE ID			MEDIA CODE			PID Reading (Client only)			COLLECTED		
Sample IDs MUST BE UNIQUE			Valid Media Codes			DATE			TIME		
1. Litter Bag			TB			DATE			TIME		
2. Litter Bag			TLC			DATE			TIME		
3. Litter Bag			ELC			DATE			TIME		
4. Litter Bag			LVP			DATE			TIME		
5. Litter Bag			HVP			DATE			TIME		
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99. Litter Bag			Other			DATE			TIME		
100. Litter Bag			Other			DATE			TIME		

Comments :

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ORIGINAL

Data File: \\192.168.10.12\chem\10air0.i\062811.b\17860.D
Report Date: 28-Jun-2011 13:36

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10air0.i Injection Date: 28-JUN-2011 12:34
Lab File ID: 17860.D Init. Cal. Date(s): 27-JUN-2011 27-JUN-2011
Analysis Type: AIR Init. Cal. Times: 13:34 16:27
Lab Sample ID: CCAL Quant Type: ISTD
Method: \\192.168.10.12\chem\10air0.i\062811.b\TO15_178-11.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
144 Methyl Isobutyl Ketone	10.00000	10.80540	0.25278	0.010	8.05404	30.00000	Linear
145 cis-1,3-Dichloropropene	10.00000	10.85372	0.29573	0.010	8.53719	30.00000	Linear
146 trans-1,3-Dichloropropene	10.00000	10.27527	0.26456	0.010	2.75275	30.00000	Linear
147 Toluene-d8 (S)	0.79606	0.80867	0.80867	0.010	1.58424	30.00000	Averaged
148 Toluene	10.00000	11.48235	0.53117	0.010	14.82353	30.00000	Linear
149 1,1,2-Trichloroethane	10.00000	11.14458	0.18816	0.010	11.44577	30.00000	Linear
150 Methyl Butyl Ketone	10.00000	11.08523	0.44316	0.010	10.85232	30.00000	Linear
151 Dibromochloromethane	10.00000	11.26472	0.73819	0.010	12.64717	30.00000	Linear
152 1,2-Dibromoethane	10.00000	10.91022	0.56996	0.010	9.10219	30.00000	Linear
153 Tetrachloroethene	10.00000	11.74987	0.65906	0.010	17.49873	30.00000	Linear
155 Chlorobenzene	10.00000	11.15966	0.82852	0.010	11.59658	30.00000	Linear
156 Ethyl Benzene	10.00000	11.85819	1.41948	0.010	18.58193	30.00000	Linear
157 m,p-Xylene	1.02409	1.09042	1.09042	0.010	7.25018	30.00000	Averaged
158 2-Heptanone	10.00000	10.73051	0.33653	0.010	7.30507	30.00000	Linear
159 Bromoform	10.00000	11.49476	0.83294	0.010	14.94755	30.00000	Linear
160 Styrene	10.00000	11.62645	0.89137	0.010	16.26449	30.00000	Linear
161 o-Xylene	10.00000	11.68640	1.14033	0.010	16.86397	30.00000	Linear
162 1,1,2,2-Tetrachloroethane	10.00000	11.60313	0.78068	0.010	16.03129	30.00000	Linear
163 Isopropylbenzene	10.00000	11.92589	1.52499	0.010	19.25879	30.00000	Linear
164 N-Propylbenzene	10.00000	11.44803	1.80028	0.010	14.48031	30.00000	Linear
165 4-Ethyltoluene	10.00000	11.79269	1.43259	0.010	17.92689	30.00000	Linear
166 1,3,5-Trimethylbenzene	10.00000	11.64566	1.27028	0.010	16.45661	30.00000	Linear
167 1,2,4-Trimethylbenzene	10.00000	11.61109	1.21373	0.010	16.11086	30.00000	Linear
168 1,3-Dichlorobenzene	10.00000	11.72956	0.88046	0.010	17.29557	30.00000	Linear
169 Sec- Butylbenzene	1.39827	1.69553	1.69553	0.010	21.25951	30.00000	Averaged
170 1,4-dichlorobenzene-d4 (S)	0.52544	0.53405	0.53405	0.010	1.63937	30.00000	Averaged
171 Benzyl Chloride	10.00000	10.56378	0.80172	0.010	5.63782	30.00000	Linear
172 1,4-Dichlorobenzene	10.00000	11.05302	0.83372	0.010	10.53020	30.00000	Linear
173 1,2-Dichlorobenzene	10.00000	12.08743	0.86741	0.010	20.87430	30.00000	Linear
174 N-Butylbenzene	10.00000	13.41701	1.29583	0.010	34.17014	30.00000	Linear
175 1,2,4-Trichlorobenzene	10.00000	14.54738	0.50013	0.010	45.47382	30.00000	Quadratic
176 Naphthalene	10.00000	14.75624	0.92049	0.010	47.56239	30.00000	Quadratic
177 Hexachlorobutadiene	10.00000	17.11565	0.39285	0.010	71.15647	30.00000	Quadratic

Average %D / Drift Results.

Calculated Average %D/Drift = 14.23042
Maximum Average %D/Drift = 30.00000
* Passed Average %D/Drift Test.

Data File: \\192.168.10.12\chem\10air7.i\062811.b\17902.D
Report Date: 28-Jun-2011 09:27

Pace Analytical Services

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10air7.i Injection Date: 28-JUN-2011 09:05
Lab File ID: 17902.D Init. Cal. Date(s): 25-JUN-2011 25-JUN-2011
Analysis Type: AIR Init. Cal. Times: 11:07 14:03
Lab Sample ID: CCAL Quant Type: ISTD
Method: \\192.168.10.12\chem\10air7.i\062811.b\TO15_176-11.m

COMPOUND	RRF / AMOUNT	RF10	CCAL	MIN	MAX	CURVE TYPE	
			RRF10	RRF	%D / %DRIFT	%D / %DRIFT	
145 Methyl Isobutyl Ketone	10.00000	10.47095	0.39168	0.010	4.70953	30.00000	Linear
146 cis-1,3-Dichloropropene	0.34098	0.35792	0.35792	0.010	4.96803	30.00000	Averaged
147 trans-1,3-Dichloropropene	10.00000	10.17146	0.31969	0.010	1.71460	30.00000	Linear
148 Toluene-d8 (S)	0.92283	0.88793	0.88793	0.010	-3.78165	30.00000	Averaged
149 Toluene	10.00000	9.94869	0.59286	0.010	-0.51309	30.00000	Linear
150 1,1,2-Trichloroethane	10.00000	9.60269	0.21445	0.010	-3.97312	30.00000	Linear
151 Methyl Butyl Ketone	10.00000	10.66265	0.67743	0.010	6.62647	30.00000	Linear
152 Dibromochloromethane	10.00000	10.28631	0.82019	0.010	2.86307	30.00000	Linear
153 1,2-Dibromoethane	0.59135	0.61900	0.61900	0.010	4.67616	30.00000	Averaged
154 Tetrachloroethene	0.60403	0.66816	0.66816	0.010	10.61714	30.00000	Averaged
156 Chlorobenzene	10.00000	10.08878	0.81831	0.010	0.88784	30.00000	Linear
157 Ethyl Benzene	10.00000	10.75043	1.47554	0.010	7.50426	30.00000	Linear
158 m,p-Xylene	1.16879	1.33004	1.33004	0.010	13.79618	30.00000	Averaged
159 2-Heptanone	10.00000	9.39340	0.84858	0.010	-6.06599	0.000e+000	Quadratic<-
160 Bromoform	10.00000	9.71503	0.96080	0.010	-2.84171	30.00000	Linear
161 Styrene	10.00000	9.79338	0.87381	0.010	-2.06620	30.00000	Linear
162 o-Xylene	1.13935	1.27425	1.27425	0.010	11.83938	30.00000	Averaged
163 1,1,2,2-Tetrachloroethane	0.87033	0.84869	0.84869	0.010	-2.48672	30.00000	Averaged
164 Isopropylbenzene	1.64340	1.63022	1.63022	0.010	-0.80243	30.00000	Averaged
165 N-Propylbenzene	10.00000	10.81731	1.81455	0.010	8.17310	30.00000	Linear
166 4-Ethyltoluene	10.00000	10.54726	1.46704	0.010	5.47258	30.00000	Linear
167 1,3,5-Trimethylbenzene	10.00000	10.37737	1.33102	0.010	3.77366	30.00000	Linear
168 1,2,4-Trimethylbenzene	10.00000	10.14505	1.17324	0.010	1.45053	30.00000	Linear
169 1,3-Dichlorobenzene	10.00000	9.50304	0.93429	0.010	-4.96960	30.00000	Linear
170 Sec- Butylbenzene	10.00000	10.47363	1.85801	0.010	4.73635	30.00000	Linear
171 1,4-dichlorobenzene-d4 (S)	0.50620	0.52358	0.52358	0.010	3.43366	30.00000	Averaged
172 Benzyl Chloride	10.00000	9.71956	0.92862	0.010	-2.80438	30.00000	Linear
173 1,4-Dichlorobenzene	10.00000	9.69122	0.88858	0.010	-3.08782	30.00000	Linear
174 1,2-Dichlorobenzene	10.00000	9.69432	0.82113	0.010	-3.05680	30.00000	Linear
175 N-Butylbenzene	10.00000	10.86059	1.43081	0.010	8.60586	30.00000	Linear
176 1,2,4-Trichlorobenzene	10.00000	4.82131	0.47805	0.010	-51.78691	30.00000	Quadratic<-
177 Naphthalene	10.00000	5.21741	0.85624	0.010	-47.82593	30.00000	Quadratic<-
178 Hexachlorobutadiene	10.00000	6.57729	0.51671	0.010	-34.22709	30.00000	Quadratic<-

Average %D / Drift Results.

Calculated Average %D/Drift = 8.86003

Maximum Average %D/Drift = 30.00000

* Passed Average %D/Drift Test.

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

[illegible]

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

[illegible]

ORIGINAL

Data File: \\192.168.10.12\chem\10air0.i\062911.b\17941.D
Report Date: 29-Jun-2011 13:52

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10air0.i Injection Date: 29-JUN-2011 12:35
Lab File ID: 17941.D Init. Cal. Date(s): 27-JUN-2011 27-JUN-2011
Analysis Type: AIR Init. Cal. Times: 13:34 16:27
Lab Sample ID: CCAL Quant Type: ISTD
Method: \\192.168.10.12\chem\10air0.i\062911.b\TO15_178-11.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
144 Methyl Isobutyl Ketone	10.00000	10.94208	0.25596	0.010	9.42082	30.00000	Linear
145 cis-1,3-Dichloropropene	10.00000	10.86550	0.29605	0.010	8.65505	30.00000	Linear
146 trans-1,3-Dichloropropene	10.00000	10.50576	0.27054	0.010	5.05759	30.00000	Linear
148 Toluene-d8 (S)	0.79606	0.81585	0.81585	0.010	2.48622	30.00000	Averaged
148 Toluene	10.00000	11.64410	0.53850	0.010	16.44103	30.00000	Linear
149 1,1,2-Trichloroethane	10.00000	11.31469	0.19099	0.010	13.14694	30.00000	Linear
150 Methyl Butyl Ketone	10.00000	11.27427	0.45065	0.010	12.74272	30.00000	Linear
151 Dibromochloromethane	10.00000	11.34975	0.74367	0.010	13.49748	30.00000	Linear
152 1,2-Dibromoethane	10.00000	11.17082	0.58342	0.010	11.70816	30.00000	Linear
153 Tetrachloroethene	10.00000	11.53053	0.64701	0.010	15.30525	30.00000	Linear
155 Chlorobenzene	10.00000	11.37227	0.84408	0.010	13.72271	30.00000	Linear
156 Ethyl Benzene	10.00000	11.99610	1.43556	0.010	19.96105	30.00000	Linear
157 m&p-Xylene	1.02409	1.10169	1.10169	0.010	7.57807	30.00000	Averaged
158 2-Heptanone	10.00000	10.90950	0.34218	0.010	9.09501	30.00000	Linear
159 Bromoform	10.00000	11.42006	0.82761	0.010	14.20064	30.00000	Linear
160 Styrene	10.00000	11.70200	0.89706	0.010	17.01997	30.00000	Linear
161 o-Xylene	10.00000	11.67042	1.13881	0.010	16.70417	30.00000	Linear
162 1,1,2,2-Tetrachloroethane	10.00000	11.53681	0.77628	0.010	15.36808	30.00000	Linear
163 Isopropylbenzene	10.00000	11.66731	1.49276	0.010	16.67306	30.00000	Linear
164 N-Propylbenzene	10.00000	11.20755	1.76269	0.010	12.07548	30.00000	Linear
165 4-Ethyltoluene	10.00000	11.56224	1.40516	0.010	15.62243	30.00000	Linear
166 1,3,5-Trimethylbenzene	10.00000	11.51855	1.25666	0.010	15.18548	30.00000	Linear
167 1,2,4-Trimethylbenzene	10.00000	11.22395	1.17384	0.010	12.23952	30.00000	Linear
168 1,3-Dichlorobenzene	10.00000	11.37971	0.85471	0.010	13.79712	30.00000	Linear
169 Sec- Butylbenzene	1.39827	1.63264	1.63264	0.010	16.76150	30.00000	Averaged
170 1,4-dichlorobenzene-d4 (S)	0.52544	0.50958	0.50958	0.010	-3.01805	30.00000	Averaged
171 Benzyl Chloride	10.00000	10.16742	0.77144	0.010	1.67418	30.00000	Linear
172 1,4-Dichlorobenzene	10.00000	10.91383	0.82333	0.010	9.13833	30.00000	Linear
173 1,2-Dichlorobenzene	10.00000	11.94901	0.85759	0.010	19.49013	30.00000	Linear
174 N-Butylbenzene	10.00000	12.97401	1.25372	0.010	29.74010	30.00000	Linear
175 1,2,4-Trichlorobenzene	10.00000	13.84883	0.48073	0.010	38.48831	30.00000	Quadratic<-
176 Naphthalene	10.00000	14.07602	0.98516	0.010	40.76018	30.00000	Quadratic<-
177 Hexachlorobutadiene	10.00000	15.32092	0.35688	0.010	-53.20922	30.00000	Quadratic<-

Average %D / Drift Results.

Calculated Average %D/Drift = 15.08133
Maximum Average %D/Drift = 30.00000
* Passed Average %D/Drift Test.

Data File: \\192.168.10.12\chem\10air0.i\062811.b\17860.D
Report Date: 28-Jun-2011 13:36

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10air0.i Injection Date: 28-JUN-2011 12:34
Lab File ID: 17860.D Init. Cal. Date(s): 27-JUN-2011 27-JUN-2011
Analysis Type: AIR Init. Cal. Times: 13:34 16:27
Lab Sample ID: CCAL Quant Type: ISTD
Method: \\192.168.10.12\chem\10air0.i\062811.b\TO15_178-11.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
44 Methyl Isobutyl Ketone	10.00000	10.80540	0.25278	0.010	8.05404	30.00000	Linear
45 cis-1,3-Dichloropropene	10.00000	10.85372	0.29573	0.010	8.53719	30.00000	Linear
46 trans-1,3-Dichloropropene	10.00000	10.27527	0.26456	0.010	2.75275	30.00000	Linear
47 Toluene-d8 (S)	0.79606	0.80867	0.80867	0.010	1.58424	30.00000	Averaged
48 Toluene	10.00000	11.48235	0.53117	0.010	14.82353	30.00000	Linear
49 1,1,2-Trichloroethane	10.00000	11.14458	0.18816	0.010	11.44577	30.00000	Linear
50 Methyl Butyl Ketone	10.00000	11.08523	0.44316	0.010	10.85232	30.00000	Linear
51 Dibromochloromethane	10.00000	11.26472	0.73819	0.010	12.64717	30.00000	Linear
52 1,2-Dibromoethane	10.00000	10.91022	0.56996	0.010	9.10219	30.00000	Linear
53 Tetrachloroethene	10.00000	11.74987	0.65906	0.010	17.49873	30.00000	Linear
55 Chlorobenzene	10.00000	11.15966	0.82852	0.010	11.59658	30.00000	Linear
56 Ethyl Benzene	10.00000	11.85819	1.41948	0.010	18.58193	30.00000	Linear
57 m&p-Xylene	1.02409	1.09842	1.09842	0.010	7.25818	30.00000	Averaged
58 2-Heptanone	10.00000	10.73051	0.33653	0.010	7.30507	30.00000	Linear
59 Bromoform	10.00000	11.49476	0.83294	0.010	14.94755	30.00000	Linear
60 Styrene	10.00000	11.62645	0.89137	0.010	16.26449	30.00000	Linear
61 o-Xylene	10.00000	11.68640	1.14033	0.010	16.86397	30.00000	Linear
62 1,1,2,2-Tetrachloroethane	10.00000	11.60313	0.78068	0.010	16.03129	30.00000	Linear
63 Isopropylbenzene	10.00000	11.92588	1.52499	0.010	19.25879	30.00000	Linear
64 N-Propylbenzene	10.00000	11.44803	1.80028	0.010	14.48031	30.00000	Linear
65 4-Ethyltoluene	10.00000	11.79269	1.43259	0.010	17.92689	30.00000	Linear
66 1,3,5-Trimethylbenzene	10.00000	11.64566	1.27028	0.010	16.45661	30.00000	Linear
67 1,2,4-Trimethylbenzene	10.00000	11.61109	1.21373	0.010	16.11086	30.00000	Linear
68 1,3-Dichlorobenzene	10.00000	11.72956	0.88046	0.010	17.29557	30.00000	Linear
69 Sec- Butylbenzene	1.39827	1.69553	1.69553	0.010	21.25951	30.00000	Averaged
70 1,4-dichlorobenzene-d4 (S)	0.52544	0.53405	0.53405	0.010	1.63937	30.00000	Averaged
71 Benzyl Chloride	10.00000	10.56378	0.80172	0.010	5.63782	30.00000	Linear
72 1,4-Dichlorobenzene	10.00000	11.05302	0.83372	0.010	10.53020	30.00000	Linear
73 1,2-Dichlorobenzene	10.00000	12.08743	0.86741	0.010	20.87430	30.00000	Linear
74 N-Butylbenzene	10.00000	13.41701	1.29583	0.010	34.17014	30.00000	Linear
75 1,2,4-Trichlorobenzene	10.00000	14.54738	0.50013	0.010	45.47382	30.00000	Quadratic
76 Naphthalene	10.00000	14.75624	0.92049	0.010	47.56239	30.00000	Quadratic
77 Hexachlorobutadiene	10.00000	17.11565	0.39285	0.010	71.15647	30.00000	Quadratic

Average %D / Drift Results.

Calculated Average %D/Drift = 14.23042

Maximum Average %D/Drift = 30.00000

* Passed Average %D/Drift Test.

RI PHASE II

DATA USABILITY SUMMARY REPORT
PHASE II REMEDIAL INVESTIGATION
NYSDEC WORK ASSIGNMENT C007540-4
FEBRUARY – MARCH 2012 SAMPLING EVENT

FORMER KLINK COSMO CLEANERS SITE
EAST WILLIAMSBURG INDUSTRIAL AREA
BOROUGH OF BROOKLYN
KINGS COUNTY, NEW YORK
Site No. 22430

Prepared by:

URS CORPORATION
77 GOODELL STREET
BUFFALO, NY 14203

MAY 2012

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TABLES (Following Text)

Table 1	Summary of Data Qualifications
Table 2	Validated Soil Sample Results
Table 3	Validated Solid Investigative Derived Waste Sample Results

ATTACHMENTS

Attachment A	Validated Form 1's
Attachment B	Support Documentation

1.0 INTRODUCTION

This Data Usability Summary Report (DUSR) has been prepared following the guidelines provided in New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation *DER-10 Technical Guidance for Site Investigation and Remediation, Appendix 2B-Guidance for Data Deliverables and the Development of Data Usability and Summary Reports, May 2010*. Analytical data for 16 soil samples plus 1 matrix spike/ matrix spike duplicate (MS/MSD) pair, and 1 solid investigative derived waste (IDW) sample collected by URS personnel on February 28 to March 8, 2012 from the Former Klink Cosmo Cleaners site, work assignment C007540-4 are discussed in this DUSR.

2.0 ANALYTICAL METHODOLOGIES

All soil and IDW samples were sent to Spectrum Analytical, Inc. (formerly Miktem Corporation) located in Warwick, RI for analysis, and were analyzed for the following parameters.

Matrix	Parameter	Method No.
Soil	Target Compound List (TCL) Volatile Organic Compounds (VOCs) plus tentatively identified compounds (TICs)	SW8260C
Solid IDW	Toxicity Characteristic Leaching Procedure (TCLP) VOCs	SW1311/8260C
	TCLP Semivolatile Organic Compounds (SVOCs)	SW1311/8270D
	TCLP Metals	SW1311/6010C/7470A
	Corrosivity (as pH)	SW9045C
	Ignitability	SW1010
	Reactive Cyanide and Sulfide	SW-846, Sec. 7.3

A limited data validation was performed following the guidelines in the following USEPA Region II documents:

- *Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260B*, SOP HW-24, Rev. 2, August 2008;
- *Validating Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8270D*, SOP HW-22, Rev. 4, August 2008; and

- *Validation of Metals for the Contract Laboratory Program (CLP) Based on SOW ILM05.3, SOP HW-2, Rev. 13, September 2006.*

The limited validation included: a review of completeness of all required deliverables; holding times; a review of quality control (QC) results (blanks, instrument tunings, calibration standards, duplicate analyses, and laboratory control sample (LCS) recoveries to determine if the data are within the protocol-required limits and specifications; a determination that all samples were analyzed using established and agreed upon analytical protocols; an evaluation of the raw data to confirm the results provided in the data summary sheets; and a review of laboratory data qualifiers.

Qualifications applied to the data include 'J' (estimated concentration), 'UJ' (estimated quantitation limit), 'U' (non-detect), and 'R' (rejected /data unusable). Definitions of USEPA Region II data qualifiers are presented at the end of this text. A summary of data qualifications is provided on Table 1. The validated analytical results are presented on Tables 2 and 3. Copies of the validated laboratory results (i.e., Form 1's) are presented in Attachment A. Documentation supporting the qualification of data is presented in Attachment B. Only analytical deviations affecting data usability are discussed in this report.

3.0 DATA DELIVERABLE COMPLETENESS

Full deliverable data packages were provided by the laboratory, which included all reporting forms and raw data necessary to fully evaluate and verify the reported analytical results.

4.0 PRESERVATION/SAMPLE RECEIPT/HOLDING TIMES

All samples were received by the laboratory intact, properly preserved, and under proper chain-of-custody (COC). All samples were analyzed within the required holding times.

5.0 NON-CONFORMANCES

Instrument Calibration

The VOC relative response factors (RRF) for acetone, 2-butanone, and 1,4-dioxane in the initial calibration (ICAL) and/or the continuing calibration (CCAL) standards associated with the soil samples were below the lower QC limit (0.05). The non-detected results for these compounds in all associated soil samples listed on Table 1 have been qualified 'R'.

The VOC RRF for 2-butanone in the ICAL and/ or the CCAL standards associated with the solid IDW sample was below the lower QC limit (0.05). The non-detected result for this compound in the solid IDW sample listed on Table 1 has been qualified 'R'.

The percent difference (%D) between the ICAL average RRF and the RRF in one or more of the CCAL standards associated with the soil samples exceeded the QC limit of 20% for one or more of the following VOCs: 1,1,1-trichloroethane, 1,2,3-trichlorobenzene, 1,1-dichloropropene, 1,2-dibromo-3-chloropropane, bromochloromethane, bromoform, carbon tetrachloride, chloroethane, cyclohexane, iodomethane, methyl acetate, methylcyclohexane, naphthalene, n-butylbenzene, and/or trichlorofluoromethane. The non-detect results for these compounds in the associated soil samples listed on Table 1 were qualified 'UJ'.

The %D between the ICAL average RRF and the RRF in the CCAL standard associated with the solid IDW sample exceeded the QC limit of 20% for SVOC pyridine. The non-detect result for this compound in the solid IDW sample listed on Table 1 was qualified 'UJ'.

Documentation supporting the qualification of data (i.e., Forms 6 and 7) is presented in Attachment B.

Matrix Spikes

The MS/MSD of soil sample DEC-088D (37-38') exhibited low percent recoveries (%Rs) for the following VOCs: 4-isopropyltoluene, cyclohexane, and methylcyclohexane. The non-detect results for these compounds in this sample were qualified 'UJ', as listed on Table 1.

Laboratory Control Samples (LCS)

The reactive cyanide %Rs in the LCS/LCSD were 0%. The laboratory indicated that they spike the LCSs with "total" cyanide, where only a small portion of which represents "reactive" cyanide. Furthermore, it is common for labs to experience very low %Rs for reactive cyanide. Therefore, the non-detect reactive cyanide result for the solid IDW sample was qualified 'UJ', as listed on Table 1.

Documentation supporting the qualification of data (i.e., QC Summary) is presented in Attachment B.

Laboratory Blanks

Methylene chloride and naphthalene was detected below the quantitation limit (QL) in one or more laboratory method blanks associated with soil samples. Soil sample results with methylene chloride or naphthalene concentrations less than the QL were qualified 'U' at the QL, as listed on Table 1.

Chromium was detected in the laboratory preparation blank associated with the solid IDW sample. Since this sample had a concentration of chromium less than ten times the associated blank level, the result was qualified 'U' at the reported value.

Documentation supporting the qualification of data (i.e., Forms 1, 3, and 4) is presented in Attachment B.

6.0 SAMPLE RESULTS AND REPORTING

All quantitation/detection limits were reported in accordance with method requirements and were adjusted for sample volume, moisture content, and dilution factors. Results below the quantitation limits were qualified 'J', 'B' (metals), by the laboratory.

7.0 SUMMARY

All sample analyses were found to be compliant with the method criteria, except where previously noted. Those results qualified 'J' or 'UJ' are considered conditionally usable, while results qualified 'U' are considered non-detect. Results qualified 'R' are considered unusable. All other sample results are usable as reported. URS does not recommend the recollection of any samples at this time.

Prepared By: Peter R. Fairbanks, Senior Chemist



Date:

5/18/12

Reviewed By: George E. Kisluk, Senior Chemist



Date:

5/18/12

DEFINITIONS OF USEPA REGION II DATA QUALIFIERS

- U – The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J – The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ – The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R – The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.
- B – The analyte was detected in the sample at a concentration greater than the instrument detection limit, but less than the quantitation limit.
- D – The positive value is the result of an analysis at a secondary dilution factor.

TABLE 1
SUMMARY OF DATA QUALIFICATIONS
FORMER KLINK COSMO CLEANERS SITE

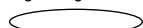
Fraction	Samples	Reason	Action
VOC	All soil samples.	RRF < 0.05 for acetone, 2-butanone, and 1,4-dioxane.	Qualify non-detect results 'R'.
VOC	IDW-SOIL	RRF < 0.05 for 2-butanone.	Qualify non-detect result 'R'.
VOC	Soil sample DEC-088D (37-38').	CCAL %D > 20% for n-butylbenzene and naphthalene.	Qualify non-detect results 'UJ'.
VOC	Soil samples SG-61R (5.0-5.5') and SG-112 (4.5-5.0').	CCAL %D > 20% for 1,2,3-trichlorobenzene, bromoform, and chloroethane.	Qualify non-detect results 'UJ'.
VOC	Soil samples DEC-089D (34-35'), SG-113 (7.5-8.0'), SG-114 (7.5-8.0'), SG-115 (6.5-7.0'), SG-116 (4.0-4.5'), SG-117 (3.0-3.5'), SG-118 (6.5-7.0'), and SG-119 (3.5-4.0').	CCAL %D > 20% for 1,1,1-trichloroethane, 1,1-dichloropropene, bromochloromethane, carbon tetrachloride, cyclohexane, methyl acetate, methylcyclohexane, and trichlorofluoromethane.	Qualify non-detected results 'UJ'.
VOC	Soil samples DEC-090D (30-31'), SG-120 (2.0-2.5'), SG-121 (2.0-2.5'), and SG-122 (2.0-2.5').	CCAL %D > 20% for iodomethane.	Qualify non-detect results 'UJ'.
VOC	Soil sample DEC-091D (30-31')	CCAL %D > 20% for 1,2-dibromo-3-chloropropane and naphthalene.	Qualify non-detect results 'UJ'.
VOC	Soil samples DEC-088D (37-38').	MS/MSD %R > QC limit for 4-isopropyltoluene, cyclohexane, and methylcyclohexane.	Qualify non-detect results 'UJ'.
VOC	Soil samples SG-61R (5.0-5.5'), SG-112 (4.5-5.0'), SG-117 (3.0-3.5'), and SG-122 (2.0-2.5').	Naphthalene detected in the laboratory method blank.	Qualify results 'U' at the QL.
VOC	Soil sample DEC-091D (30-31').	Methylene chloride detected in the laboratory method blank.	Qualify result 'U' at the QL.
TCLP SVOC	IDW-SOIL.	CCAL %D > 20% for pyridine.	Qualify non-detect result 'UJ'.
Reactive Cyanide	IDW-SOIL	LCS/LCSD %Rs for reactive cyanide 0%.	Qualify non-detect result 'UJ'.

TABLE 2
VALIDATED SOIL SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-088D	DEC-089D	DEC-090D	DEC-091D	SG-061R
Sample ID			DEC-088D 37-38	DEC-89D 34-35	DEC-090D 30-31	DEC-091D 30-31	SG-61R 5-5.5
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			37.0-38.0	34.0-35.0	30.0-31.0	30.0-31.0	5.0-5.5
Date Sampled			02/28/12	03/02/12	03/06/12	03/08/12	03/02/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	MG/KG	-	0.0046 U	0.0052 U	0.0055 U	0.0058 U	0.0055 U
1,1,1-Trichloroethane	MG/KG	0.68	0.0046 U	0.0052 UJ	0.0055 U	0.0058 U	0.0055 U
1,1,2,2-Tetrachloroethane	MG/KG	0.6 CP-51	0.0046 U	0.0052 U	0.0055 U	0.0058 U	0.0055 U
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	6 CP-51	0.0046 U	0.0052 U	0.0055 U	0.0058 U	0.0055 U
1,1,2-Trichloroethane	MG/KG	-	0.0046 U	0.0052 U	0.0055 U	0.0058 U	0.0055 U
1,1-Dichloroethane	MG/KG	0.27	0.0046 U	0.0052 U	0.0055 U	0.0058 U	0.0055 U
1,1-Dichloroethene	MG/KG	0.33	0.0046 U	0.0052 U	0.0055 U	0.0058 U	0.0055 U
1,1-Dichloropropene	MG/KG	-	0.0046 U	0.0052 UJ	0.0055 U	0.0058 U	0.0055 U
1,2,3-Trichlorobenzene	MG/KG	20 CP-51	0.0046 U	0.0052 U	0.0055 U	0.0058 U	0.0055 UJ
1,2,3-Trichloropropane	MG/KG	0.34 CP-51	0.0046 U	0.0052 U	0.0055 U	0.0058 U	0.0055 U
1,2,4-Trichlorobenzene	MG/KG	3.4 CP-51	0.0046 U	0.0052 U	0.0055 U	0.0058 U	0.0055 U
1,2,4-Trimethylbenzene	MG/KG	3.6	0.0046 U	0.0052 U	0.0055 U	0.0058 U	0.0055 U
1,2-Dibromo-3-chloropropane	MG/KG	-	0.0046 U	0.0052 U	0.0055 U	0.0058 UJ	0.0055 U
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	-	0.0046 U	0.0052 U	0.0055 U	0.0058 U	0.0055 U
1,2-Dichlorobenzene	MG/KG	1.1	0.0046 U	0.0052 U	0.0055 U	0.0058 U	0.0055 U
1,2-Dichloroethane	MG/KG	0.02	0.0046 U	0.0052 U	0.0055 U	0.0058 U	0.0055 U
1,2-Dichloroethene (cis)	MG/KG	0.25	0.0046 U	0.0052 U	0.0055 U	0.0058 U	0.0055 U
1,2-Dichloroethene (trans)	MG/KG	0.19	0.0046 U	0.0052 U	0.0055 U	0.0058 U	0.0055 U
1,2-Dichloropropane	MG/KG	700 CP-51	0.0046 U	0.0052 U	0.0055 U	0.0058 U	0.0055 U
1,3,5-Trimethylbenzene (Mesitylene)	MG/KG	8.4	0.0046 U	0.0052 U	0.0055 U	0.0058 U	0.0055 U
1,3-Dichlorobenzene	MG/KG	2.4	0.0046 U	0.0052 U	0.0055 U	0.0058 U	0.0055 U
1,3-Dichloropropane	MG/KG	0.3 CP-51	0.0046 U	0.0052 U	0.0055 U	0.0058 U	0.0055 U
1,3-Dichloropropene (cis)	MG/KG	-	0.0046 U	0.0052 U	0.0055 U	0.0058 U	0.0055 U
1,3-Dichloropropene (trans)	MG/KG	-	0.0046 U	0.0052 U	0.0055 U	0.0058 U	0.0055 U
1,4-Dichlorobenzene	MG/KG	1.8	0.0046 U	0.0052 U	0.0055 U	0.0058 U	0.0055 U

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.

J - The reported concentration is an estimated value.

R - The data is rejected.

Made By: PRF 04/11/2012 Checked By: AMK 04/12/2012

Detection Limits shown are PQL

TABLE 2
VALIDATED SOIL SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-088D	DEC-089D	DEC-090D	DEC-091D	SG-061R
Sample ID			DEC-088D 37-38	DEC-89D 34-35	DEC-090D 30-31	DEC-091D 30-31	SG-61R 5-5.5
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			37.0-38.0	34.0-35.0	30.0-31.0	30.0-31.0	5.0-5.5
Date Sampled			02/28/12	03/02/12	03/06/12	03/08/12	03/02/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,4-Dioxane	MG/KG	0.1	R	R	R	R	R
2,2-Dichloropropane	MG/KG	-	0.0046 U	0.0052 U	0.0055 U	0.0058 U	0.0055 U
2-Chlorotoluene	MG/KG	-	0.0046 U	0.0052 U	0.0055 U	0.0058 U	0.0055 U
2-Hexanone	MG/KG	-	0.0046 U	0.0052 U	0.0055 U	0.0058 U	0.0055 U
4-Chlorotoluene	MG/KG	-	0.0046 U	0.0052 U	0.0055 U	0.0058 U	0.0055 U
4-Isopropyltoluene (p-Cymene)	MG/KG	10 CP-51	0.0046 UJ	0.0052 U	0.0055 U	0.0058 U	0.0055 U
4-Methyl-2-pentanone	MG/KG	1 CP-51	0.0046 U	0.0052 U	0.0055 U	0.0058 U	0.0055 U
Acetone	MG/KG	0.05	R	R	R	R	R
Benzene	MG/KG	0.06	0.0046 U	0.0052 U	0.0055 U	0.0058 U	0.0055 U
Bromobenzene	MG/KG	-	0.0046 U	0.0052 U	0.0055 U	0.0058 U	0.0055 U
Bromochloromethane	MG/KG	-	0.0046 U	0.0052 UJ	0.0055 U	0.0058 U	0.0055 U
Bromodichloromethane	MG/KG	-	0.0046 U	0.0052 U	0.0055 U	0.0058 U	0.0055 U
Bromoform	MG/KG	-	0.0046 U	0.0052 U	0.0055 U	0.0058 U	0.0055 UJ
Bromomethane	MG/KG	-	0.0046 U	0.0052 U	0.0055 U	0.0058 U	0.0055 U
Carbon disulfide	MG/KG	2.7 CP-51	0.0046 U	0.0052 U	0.0055 U	0.0058 U	0.0055 U
Carbon tetrachloride	MG/KG	0.76	0.0046 U	0.0052 UJ	0.0055 U	0.0058 U	0.0055 U
Chlorobenzene	MG/KG	1.1	0.0046 U	0.0052 U	0.0055 U	0.0058 U	0.0055 U
Chloroethane	MG/KG	1.9 CP-51	0.0046 U	0.0052 U	0.0055 U	0.0058 U	0.0055 UJ
Chloroform	MG/KG	0.37	0.0046 U	0.0052 U	0.0055 U	0.0058 U	0.0055 U
Chloromethane	MG/KG	-	0.0046 U	0.0052 U	0.0055 U	0.0058 U	0.0055 U
Cyclohexane	MG/KG	-	0.0046 UJ	0.0052 UJ	0.0055 U	0.0058 U	0.0055 U
Dibromochloromethane	MG/KG	10 CP-51	0.0046 U	0.0052 U	0.0055 U	0.0058 U	0.0055 U
Dibromomethane	MG/KG	-	0.0046 U	0.0052 U	0.0055 U	0.0058 U	0.0055 U
Dichlorodifluoromethane	MG/KG	-	0.0046 U	0.0052 U	0.0055 U	0.0058 U	0.0055 U
Ethylbenzene	MG/KG	1	0.0046 U	0.0052 U	0.0055 U	0.0058 U	0.0055 U

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.

J - The reported concentration is an estimated value.

R - The data is rejected.

Made By: PRF 04/11/2012 Checked By: AMK 04/12/2012

Detection Limits shown are PQL

TABLE 2
VALIDATED SOIL SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-088D	DEC-089D	DEC-090D	DEC-091D	SG-061R
Sample ID			DEC-088D 37-38	DEC-89D 34-35	DEC-090D 30-31	DEC-091D 30-31	SG-61R 5-5.5
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			37.0-38.0	34.0-35.0	30.0-31.0	30.0-31.0	5.0-5.5
Date Sampled			02/28/12	03/02/12	03/06/12	03/08/12	03/02/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Hexachlorobutadiene	MG/KG	-	0.0046 U	0.0052 U	0.0055 U	0.0058 U	0.0055 U
Iodomethane (Methyl iodide)	MG/KG	-	0.0046 U	0.0052 U	0.0055 UJ	0.0058 U	0.0055 U
Isopropylbenzene (Cumene)	MG/KG	2.3 CP-51	0.0046 U	0.0052 U	0.0055 U	0.0058 U	0.0055 U
Methyl acetate	MG/KG	-	0.0046 U	0.0052 UJ	0.0055 U	0.0058 U	0.0055 U
Methyl ethyl ketone (2-Butanone)	MG/KG	0.12	R	R	R	R	R
Methyl tert-butyl ether	MG/KG	0.93	0.0046 U	0.0052 U	0.0055 U	0.0058 U	0.0055 U
Methylcyclohexane	MG/KG	-	0.0046 UJ	0.0052 UJ	0.0055 U	0.0058 U	0.0055 U
Methylene chloride	MG/KG	0.05	0.0046 U	0.0052 U	0.0019 J	0.0058 U	0.0055 U
Naphthalene	MG/KG	12	0.0046 UJ	0.0052 U	0.0055 U	0.0058 UJ	0.0055 U
n-Butylbenzene	MG/KG	12	0.0046 UJ	0.0052 U	0.0055 U	0.0058 U	0.0055 U
n-Propylbenzene	MG/KG	3.9	0.0046 U	0.0052 U	0.0055 U	0.0058 U	0.0055 U
sec-Butylbenzene	MG/KG	11	0.0046 U	0.0052 U	0.0055 U	0.0058 U	0.0055 U
Styrene	MG/KG	300 CP-51	0.0046 U	0.0052 U	0.0055 U	0.0058 U	0.0055 U
tert-Butylbenzene	MG/KG	5.9	0.0046 U	0.0052 U	0.0055 U	0.0058 U	0.0055 U
Tetrachloroethene	MG/KG	1.3	0.0046 U	0.0052 U	0.0055 U	0.0058 U	0.0055 U
Toluene	MG/KG	0.7	0.0046 U	0.0052 U	0.0055 U	0.0058 U	0.0055 U
Trichloroethene	MG/KG	0.47	0.0046 U	0.0052 U	0.0055 U	0.0058 U	0.0055 U
Trichlorofluoromethane	MG/KG	-	0.0046 U	0.0052 UJ	0.0055 U	0.0058 U	0.0055 U
Vinyl acetate	MG/KG	-	0.0046 U	0.0052 U	0.0055 U	0.0058 U	0.0055 U
Vinyl chloride	MG/KG	0.02	0.0046 U	0.0052 U	0.0055 U	0.0058 U	0.0055 U
Xylene (total)	MG/KG	0.26	0.0046 U	0.0052 U	0.0055 U	0.0058 U	0.0055 U

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria

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Made By: PRF 04/11/2012 Checked By: AMK 04/12/2012

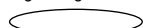
Detection Limits shown are PQL

TABLE 2
VALIDATED SOIL SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			SG-112	SG-113	SG-114	SG-115	SG-116
Sample ID			SG-112 4.5-5	SG-113 7.5-8	SG-114 7.5-8.0	SG-115 6.5-7.0	SG-116 4.0-4.5
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			4.5-5.0	7.5-8.0	7.5-8.0	6.5-7.0	4.0-4.5
Date Sampled			03/02/12	03/02/12	03/01/12	03/01/12	03/01/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	MG/KG	-	0.0054 U	0.0052 U	0.0047 U	0.0052 U	0.0054 U
1,1,1-Trichloroethane	MG/KG	0.68	0.0054 U	0.0052 UJ	0.0047 UJ	0.0052 UJ	0.0054 UJ
1,1,2,2-Tetrachloroethane	MG/KG	0.6 CP-51	0.0054 U	0.0052 U	0.0047 U	0.0052 U	0.0054 U
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	6 CP-51	0.0054 U	0.0052 U	0.0047 U	0.0052 U	0.0054 U
1,1,2-Trichloroethane	MG/KG	-	0.0054 U	0.0052 U	0.0047 U	0.0052 U	0.0054 U
1,1-Dichloroethane	MG/KG	0.27	0.0054 U	0.0052 U	0.0047 U	0.0052 U	0.0054 U
1,1-Dichloroethene	MG/KG	0.33	0.0054 U	0.0052 U	0.0047 U	0.0052 U	0.0054 U
1,1-Dichloropropene	MG/KG	-	0.0054 U	0.0052 UJ	0.0047 UJ	0.0052 UJ	0.0054 UJ
1,2,3-Trichlorobenzene	MG/KG	20 CP-51	0.0054 UJ	0.0052 U	0.0047 U	0.0052 U	0.0054 U
1,2,3-Trichloropropane	MG/KG	0.34 CP-51	0.0054 U	0.0052 U	0.0047 U	0.0052 U	0.0054 U
1,2,4-Trichlorobenzene	MG/KG	3.4 CP-51	0.0054 U	0.0052 U	0.0047 U	0.0052 U	0.0054 U
1,2,4-Trimethylbenzene	MG/KG	3.6	0.0054 U	0.0052 U	0.0047 U	0.0052 U	0.0054 U
1,2-Dibromo-3-chloropropane	MG/KG	-	0.0054 U	0.0052 U	0.0047 U	0.0052 U	0.0054 U
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	-	0.0054 U	0.0052 U	0.0047 U	0.0052 U	0.0054 U
1,2-Dichlorobenzene	MG/KG	1.1	0.0054 U	0.0052 U	0.0047 U	0.0052 U	0.0054 U
1,2-Dichloroethane	MG/KG	0.02	0.0054 U	0.0052 U	0.0047 U	0.0052 U	0.0054 U
1,2-Dichloroethene (cis)	MG/KG	0.25	0.0054 U	0.0052 U	0.0047 U	0.0052 U	0.0054 U
1,2-Dichloroethene (trans)	MG/KG	0.19	0.0054 U	0.0052 U	0.0047 U	0.0052 U	0.0054 U
1,2-Dichloropropane	MG/KG	700 CP-51	0.0054 U	0.0052 U	0.0047 U	0.0052 U	0.0054 U
1,3,5-Trimethylbenzene (Mesitylene)	MG/KG	8.4	0.0054 U	0.0052 U	0.0047 U	0.0052 U	0.0054 U
1,3-Dichlorobenzene	MG/KG	2.4	0.0054 U	0.0052 U	0.0047 U	0.0052 U	0.0054 U
1,3-Dichloropropane	MG/KG	0.3 CP-51	0.0054 U	0.0052 U	0.0047 U	0.0052 U	0.0054 U
1,3-Dichloropropene (cis)	MG/KG	-	0.0054 U	0.0052 U	0.0047 U	0.0052 U	0.0054 U
1,3-Dichloropropene (trans)	MG/KG	-	0.0054 U	0.0052 U	0.0047 U	0.0052 U	0.0054 U
1,4-Dichlorobenzene	MG/KG	1.8	0.0054 U	0.0052 U	0.0047 U	0.0052 U	0.0054 U

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria

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R - The data is rejected.

Made By: PRF 04/11/2012 Checked By: AMK 04/12/2012

Detection Limits shown are PQL

TABLE 2
VALIDATED SOIL SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			SG-112	SG-113	SG-114	SG-115	SG-116
Sample ID			SG-112 4.5-5	SG-113 7.5-8	SG-114 7.5-8.0	SG-115 6.5-7.0	SG-116 4.0-4.5
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			4.5-5.0	7.5-8.0	7.5-8.0	6.5-7.0	4.0-4.5
Date Sampled			03/02/12	03/02/12	03/01/12	03/01/12	03/01/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,4-Dioxane	MG/KG	0.1	R	R	R	R	R
2,2-Dichloropropane	MG/KG	-	0.0054 U	0.0052 U	0.0047 U	0.0052 U	0.0054 U
2-Chlorotoluene	MG/KG	-	0.0054 U	0.0052 U	0.0047 U	0.0052 U	0.0054 U
2-Hexanone	MG/KG	-	0.0054 U	0.0052 U	0.0047 U	0.0052 U	0.0054 U
4-Chlorotoluene	MG/KG	-	0.0054 U	0.0052 U	0.0047 U	0.0052 U	0.0054 U
4-Isopropyltoluene (p-Cymene)	MG/KG	10 CP-51	0.0054 U	0.0052 U	0.0047 U	0.0052 U	0.0054 U
4-Methyl-2-pentanone	MG/KG	1 CP-51	0.0054 U	0.0052 U	0.0047 U	0.0052 U	0.0054 U
Acetone	MG/KG	0.05	R	R	R	R	R
Benzene	MG/KG	0.06	0.0054 U	0.0052 U	0.0047 U	0.0052 U	0.0054 U
Bromobenzene	MG/KG	-	0.0054 U	0.0052 U	0.0047 U	0.0052 U	0.0054 U
Bromochloromethane	MG/KG	-	0.0054 U	0.0052 UJ	0.0047 UJ	0.0052 UJ	0.0054 UJ
Bromodichloromethane	MG/KG	-	0.0054 U	0.0052 U	0.0047 U	0.0052 U	0.0054 U
Bromoform	MG/KG	-	0.0054 UJ	0.0052 U	0.0047 U	0.0052 U	0.0054 U
Bromomethane	MG/KG	-	0.0054 U	0.0052 U	0.0047 U	0.0052 U	0.0054 U
Carbon disulfide	MG/KG	2.7 CP-51	0.0054 U	0.0052 U	0.0047 U	0.0052 U	0.0054 U
Carbon tetrachloride	MG/KG	0.76	0.0054 U	0.0052 UJ	0.0047 UJ	0.0052 UJ	0.0054 UJ
Chlorobenzene	MG/KG	1.1	0.0054 U	0.0052 U	0.0047 U	0.0052 U	0.0054 U
Chloroethane	MG/KG	1.9 CP-51	0.0054 UJ	0.0052 U	0.0047 U	0.0052 U	0.0054 U
Chloroform	MG/KG	0.37	0.0054 U	0.0052 U	0.0047 U	0.0052 U	0.0054 U
Chloromethane	MG/KG	-	0.0054 U	0.0052 U	0.0047 U	0.0052 U	0.0054 U
Cyclohexane	MG/KG	-	0.0054 U	0.0052 UJ	0.0047 UJ	0.0052 UJ	0.0054 UJ
Dibromochloromethane	MG/KG	10 CP-51	0.0054 U	0.0052 U	0.0047 U	0.0052 U	0.0054 U
Dibromomethane	MG/KG	-	0.0054 U	0.0052 U	0.0047 U	0.0052 U	0.0054 U
Dichlorodifluoromethane	MG/KG	-	0.0054 U	0.0052 U	0.0047 U	0.0052 U	0.0054 U
Ethylbenzene	MG/KG	1	0.0054 U	0.0052 U	0.0047 U	0.0052 U	0.0054 U

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.

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Made By: PRF 04/11/2012 Checked By: AMK 04/12/2012

Detection Limits shown are PQL

TABLE 2
VALIDATED SOIL SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			SG-112	SG-113	SG-114	SG-115	SG-116
Sample ID			SG-112 4.5-5	SG-113 7.5-8	SG-114 7.5-8.0	SG-115 6.5-7.0	SG-116 4.0-4.5
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			4.5-5.0	7.5-8.0	7.5-8.0	6.5-7.0	4.0-4.5
Date Sampled			03/02/12	03/02/12	03/01/12	03/01/12	03/01/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Hexachlorobutadiene	MG/KG	-	0.0054 U	0.0052 U	0.0047 U	0.0052 U	0.0054 U
Iodomethane (Methyl iodide)	MG/KG	-	0.0054 U	0.0052 U	0.0047 U	0.0052 U	0.0054 U
Isopropylbenzene (Cumene)	MG/KG	2.3 CP-51	0.0054 U	0.0052 U	0.0047 U	0.0052 U	0.0054 U
Methyl acetate	MG/KG	-	0.0054 U	0.0052 UJ	0.0047 UJ	0.0052 UJ	0.0054 UJ
Methyl ethyl ketone (2-Butanone)	MG/KG	0.12	R	R	R	R	R
Methyl tert-butyl ether	MG/KG	0.93	0.0054 U	0.0052 U	0.0047 U	0.0052 U	0.0054 U
Methylcyclohexane	MG/KG	-	0.0054 U	0.0052 UJ	0.0047 UJ	0.0052 UJ	0.0054 UJ
Methylene chloride	MG/KG	0.05	0.0054 U	0.0052 U	0.0015 J	0.0031 J	0.0054 U
Naphthalene	MG/KG	12	0.0054 U	0.0052 U	0.0047 U	0.0052 U	0.0054 U
n-Butylbenzene	MG/KG	12	0.0054 U	0.0052 U	0.0047 U	0.0052 U	0.0054 U
n-Propylbenzene	MG/KG	3.9	0.0054 U	0.0052 U	0.0047 U	0.0052 U	0.0054 U
sec-Butylbenzene	MG/KG	11	0.0054 U	0.0052 U	0.0047 U	0.0052 U	0.0054 U
Styrene	MG/KG	300 CP-51	0.0054 U	0.0052 U	0.0047 U	0.0052 U	0.0054 U
tert-Butylbenzene	MG/KG	5.9	0.0054 U	0.0052 U	0.0047 U	0.0052 U	0.0054 U
Tetrachloroethene	MG/KG	1.3	0.0054 U	0.0052 U	0.0011 J	0.011	0.0043 J
Toluene	MG/KG	0.7	0.0054 U	0.0052 U	0.0047 U	0.0052 U	0.0054 U
Trichloroethene	MG/KG	0.47	0.0054 U	0.0052 U	0.0021 J	0.0052 U	0.0054 U
Trichlorofluoromethane	MG/KG	-	0.0054 U	0.0052 UJ	0.0047 UJ	0.0052 UJ	0.0054 UJ
Vinyl acetate	MG/KG	-	0.0054 U	0.0052 U	0.0047 U	0.0052 U	0.0054 U
Vinyl chloride	MG/KG	0.02	0.0054 U	0.0052 U	0.0047 U	0.0052 U	0.0054 U
Xylene (total)	MG/KG	0.26	0.0054 U	0.0052 U	0.0047 U	0.0052 U	0.0054 U

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.

J - The reported concentration is an estimated value.

R - The data is rejected.

Made By: PRF 04/11/2012 Checked By: AMK 04/12/2012

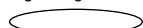
Detection Limits shown are PQL

TABLE 2
VALIDATED SOIL SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			SG-117	SG-118	SG-119	SG-120	SG-121
Sample ID			SG-117 3.0-3.5	SG-118 6.5-7.0	SG-119 3.5-4	SG-120 2-2.5	SG-121 2-2.5
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			3.0-3.5	6.5-7.0	3.5-4.0	2.0-2.5	2.0-2.5
Date Sampled			03/01/12	03/01/12	03/01/12	03/02/12	03/02/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	MG/KG	-	0.0053 U	0.005 U	0.0058 U	0.0055 U	0.0058 U
1,1,1-Trichloroethane	MG/KG	0.68	0.0053 UJ	0.005 UJ	0.0058 UJ	0.0055 U	0.0058 U
1,1,2,2-Tetrachloroethane	MG/KG	0.6 CP-51	0.0053 U	0.005 U	0.0058 U	0.0055 U	0.0058 U
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	6 CP-51	0.0053 U	0.005 U	0.0058 U	0.0055 U	0.0058 U
1,1,2-Trichloroethane	MG/KG	-	0.0053 U	0.005 U	0.0058 U	0.0055 U	0.0058 U
1,1-Dichloroethane	MG/KG	0.27	0.0053 U	0.005 U	0.0058 U	0.0055 U	0.0058 U
1,1-Dichloroethene	MG/KG	0.33	0.0053 U	0.005 U	0.0058 U	0.0055 U	0.0058 U
1,1-Dichloropropene	MG/KG	-	0.0053 UJ	0.005 UJ	0.0058 UJ	0.0055 U	0.0058 U
1,2,3-Trichlorobenzene	MG/KG	20 CP-51	0.0053 U	0.005 U	0.0058 U	0.0055 U	0.0058 U
1,2,3-Trichloropropane	MG/KG	0.34 CP-51	0.0053 U	0.005 U	0.0058 U	0.0055 U	0.0058 U
1,2,4-Trichlorobenzene	MG/KG	3.4 CP-51	0.0053 U	0.005 U	0.0058 U	0.0055 U	0.0058 U
1,2,4-Trimethylbenzene	MG/KG	3.6	0.0053 U	0.005 U	0.0058 U	0.0055 U	0.0058 U
1,2-Dibromo-3-chloropropane	MG/KG	-	0.0053 U	0.005 U	0.0058 U	0.0055 U	0.0058 U
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	-	0.0053 U	0.005 U	0.0058 U	0.0055 U	0.0058 U
1,2-Dichlorobenzene	MG/KG	1.1	0.0053 U	0.005 U	0.0058 U	0.0055 U	0.0058 U
1,2-Dichloroethane	MG/KG	0.02	0.0053 U	0.005 U	0.0058 U	0.0055 U	0.0058 U
1,2-Dichloroethene (cis)	MG/KG	0.25	0.0053 U	0.005 U	0.0058 U	0.0055 U	0.0058 U
1,2-Dichloroethene (trans)	MG/KG	0.19	0.0053 U	0.005 U	0.0058 U	0.0055 U	0.0058 U
1,2-Dichloropropane	MG/KG	700 CP-51	0.0053 U	0.005 U	0.0058 U	0.0055 U	0.0058 U
1,3,5-Trimethylbenzene (Mesitylene)	MG/KG	8.4	0.0053 U	0.005 U	0.0058 U	0.0055 U	0.0058 U
1,3-Dichlorobenzene	MG/KG	2.4	0.0053 U	0.005 U	0.0058 U	0.0055 U	0.0058 U
1,3-Dichloropropane	MG/KG	0.3 CP-51	0.0053 U	0.005 U	0.0058 U	0.0055 U	0.0058 U
1,3-Dichloropropene (cis)	MG/KG	-	0.0053 U	0.005 U	0.0058 U	0.0055 U	0.0058 U
1,3-Dichloropropene (trans)	MG/KG	-	0.0053 U	0.005 U	0.0058 U	0.0055 U	0.0058 U
1,4-Dichlorobenzene	MG/KG	1.8	0.0053 U	0.005 U	0.0058 U	0.0055 U	0.0058 U

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.

Flags assigned during chemistry validation are shown.



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R - The data is rejected.

Made By: PRF 04/11/2012 Checked By: AMK 04/12/2012

Detection Limits shown are PQL

TABLE 2
VALIDATED SOIL SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			SG-117	SG-118	SG-119	SG-120	SG-121
Sample ID			SG-117 3.0-3.5	SG-118 6.5-7.0	SG-119 3.5-4	SG-120 2-2.5	SG-121 2-2.5
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			3.0-3.5	6.5-7.0	3.5-4.0	2.0-2.5	2.0-2.5
Date Sampled			03/01/12	03/01/12	03/01/12	03/02/12	03/02/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,4-Dioxane	MG/KG	0.1	R	R	R	R	R
2,2-Dichloropropane	MG/KG	-	0.0053 U	0.005 U	0.0058 U	0.0055 U	0.0058 U
2-Chlorotoluene	MG/KG	-	0.0053 U	0.005 U	0.0058 U	0.0055 U	0.0058 U
2-Hexanone	MG/KG	-	0.0053 U	0.005 U	0.0058 U	0.0055 U	0.0058 U
4-Chlorotoluene	MG/KG	-	0.0053 U	0.005 U	0.0058 U	0.0055 U	0.0058 U
4-Isopropyltoluene (p-Cymene)	MG/KG	10 CP-51	0.0053 U	0.005 U	0.0058 U	0.0055 U	0.0058 U
4-Methyl-2-pentanone	MG/KG	1 CP-51	0.0053 U	0.005 U	0.0058 U	0.0055 U	0.0058 U
Acetone	MG/KG	0.05	R	R	R	R	R
Benzene	MG/KG	0.06	0.0053 U	0.005 U	0.0058 U	0.0055 U	0.0058 U
Bromobenzene	MG/KG	-	0.0053 U	0.005 U	0.0058 U	0.0055 U	0.0058 U
Bromochloromethane	MG/KG	-	0.0053 UJ	0.005 UJ	0.0058 UJ	0.0055 U	0.0058 U
Bromodichloromethane	MG/KG	-	0.0053 U	0.005 U	0.0058 U	0.0055 U	0.0058 U
Bromoform	MG/KG	-	0.0053 U	0.005 U	0.0058 U	0.0055 U	0.0058 U
Bromomethane	MG/KG	-	0.0053 U	0.005 U	0.0058 U	0.0055 U	0.0058 U
Carbon disulfide	MG/KG	2.7 CP-51	0.0053 U	0.005 U	0.0058 U	0.0055 U	0.0058 U
Carbon tetrachloride	MG/KG	0.76	0.0053 UJ	0.005 UJ	0.0058 UJ	0.0055 U	0.0058 U
Chlorobenzene	MG/KG	1.1	0.0053 U	0.005 U	0.0058 U	0.0055 U	0.0058 U
Chloroethane	MG/KG	1.9 CP-51	0.0053 U	0.005 U	0.0058 U	0.0055 U	0.0058 U
Chloroform	MG/KG	0.37	0.0053 U	0.005 U	0.0058 U	0.0055 U	0.0058 U
Chloromethane	MG/KG	-	0.0053 U	0.005 U	0.0058 U	0.0055 U	0.0058 U
Cyclohexane	MG/KG	-	0.0053 UJ	0.005 UJ	0.0058 UJ	0.0055 U	0.0058 U
Dibromochloromethane	MG/KG	10 CP-51	0.0053 U	0.005 U	0.0058 U	0.0055 U	0.0058 U
Dibromomethane	MG/KG	-	0.0053 U	0.005 U	0.0058 U	0.0055 U	0.0058 U
Dichlorodifluoromethane	MG/KG	-	0.0053 U	0.005 U	0.0058 U	0.0055 U	0.0058 U
Ethylbenzene	MG/KG	1	0.0053 U	0.005 U	0.0058 U	0.0055 U	0.0058 U

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.

Flags assigned during chemistry validation are shown.

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Made By: PRF 04/11/2012 Checked By: AMK 04/12/2012

Detection Limits shown are PQL

TABLE 2
VALIDATED SOIL SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			SG-117	SG-118	SG-119	SG-120	SG-121
Sample ID			SG-117 3.0-3.5	SG-118 6.5-7.0	SG-119 3.5-4	SG-120 2-2.5	SG-121 2-2.5
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			3.0-3.5	6.5-7.0	3.5-4.0	2.0-2.5	2.0-2.5
Date Sampled			03/01/12	03/01/12	03/01/12	03/02/12	03/02/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Hexachlorobutadiene	MG/KG	-	0.0053 U	0.005 U	0.0058 U	0.0055 U	0.0058 U
Iodomethane (Methyl iodide)	MG/KG	-	0.0053 U	0.005 U	0.0058 U	0.0055 UJ	0.0058 UJ
Isopropylbenzene (Cumene)	MG/KG	2.3 CP-51	0.0053 U	0.005 U	0.0058 U	0.0055 U	0.0058 U
Methyl acetate	MG/KG	-	0.0053 UJ	0.005 UJ	0.0058 UJ	0.0055 U	0.0058 U
Methyl ethyl ketone (2-Butanone)	MG/KG	0.12	R	R	R	R	R
Methyl tert-butyl ether	MG/KG	0.93	0.0053 U	0.005 U	0.0058 U	0.0055 U	0.0058 U
Methylcyclohexane	MG/KG	-	0.0053 UJ	0.005 UJ	0.0058 UJ	0.0055 U	0.0058 U
Methylene chloride	MG/KG	0.05	0.0053 U	0.005 U	0.0058 U	0.0055 U	0.0063
Naphthalene	MG/KG	12	0.0053 U	0.005 U	0.0058 U	0.0055 U	0.0058 U
n-Butylbenzene	MG/KG	12	0.0053 U	0.005 U	0.0058 U	0.0055 U	0.0058 U
n-Propylbenzene	MG/KG	3.9	0.0053 U	0.005 U	0.0058 U	0.0055 U	0.0058 U
sec-Butylbenzene	MG/KG	11	0.0053 U	0.005 U	0.0058 U	0.0055 U	0.0058 U
Styrene	MG/KG	300 CP-51	0.0053 U	0.005 U	0.0058 U	0.0055 U	0.0058 U
tert-Butylbenzene	MG/KG	5.9	0.0053 U	0.005 U	0.0058 U	0.0055 U	0.0058 U
Tetrachloroethene	MG/KG	1.3	0.0028 J	0.005 U	0.0058 U	0.0055 U	0.0058 U
Toluene	MG/KG	0.7	0.0053 U	0.005 U	0.0058 U	0.0055 U	0.0058 U
Trichloroethene	MG/KG	0.47	0.0053 U	0.005 U	0.0058 U	0.0055 U	0.0058 U
Trichlorofluoromethane	MG/KG	-	0.0053 UJ	0.005 UJ	0.0058 UJ	0.0055 U	0.0058 U
Vinyl acetate	MG/KG	-	0.0053 U	0.005 U	0.0058 U	0.0055 U	0.0058 U
Vinyl chloride	MG/KG	0.02	0.0053 U	0.005 U	0.0058 U	0.0055 U	0.0058 U
Xylene (total)	MG/KG	0.26	0.0053 U	0.005 U	0.0058 U	0.0055 U	0.0058 U

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.

Flags assigned during chemistry validation are shown.

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Made By: PRF 04/11/2012 Checked By: AMK 04/12/2012

Detection Limits shown are PQL

TABLE 2
VALIDATED SOIL SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			SG-122
Sample ID			SG-122 2-2.5
Matrix			Soil
Depth Interval (ft)			2.0-2.5
Date Sampled			03/02/12
Parameter	Units	Criteria*	
Volatile Organic Compounds			
1,1,1,2-Tetrachloroethane	MG/KG	-	0.0054 U
1,1,1-Trichloroethane	MG/KG	0.68	0.0054 U
1,1,2,2-Tetrachloroethane	MG/KG	0.6 CP-51	0.0054 U
1,1,2-Trichloro-1,2,2-trifluoroethane	MG/KG	6 CP-51	0.0054 U
1,1,2-Trichloroethane	MG/KG	-	0.0054 U
1,1-Dichloroethane	MG/KG	0.27	0.0054 U
1,1-Dichloroethene	MG/KG	0.33	0.0054 U
1,1-Dichloropropene	MG/KG	-	0.0054 U
1,2,3-Trichlorobenzene	MG/KG	20 CP-51	0.0054 U
1,2,3-Trichloropropane	MG/KG	0.34 CP-51	0.0054 U
1,2,4-Trichlorobenzene	MG/KG	3.4 CP-51	0.0054 U
1,2,4-Trimethylbenzene	MG/KG	3.6	0.0054 U
1,2-Dibromo-3-chloropropane	MG/KG	-	0.0054 U
1,2-Dibromoethane (Ethylene dibromide)	MG/KG	-	0.0054 U
1,2-Dichlorobenzene	MG/KG	1.1	0.0054 U
1,2-Dichloroethane	MG/KG	0.02	0.0054 U
1,2-Dichloroethene (cis)	MG/KG	0.25	0.0054 U
1,2-Dichloroethene (trans)	MG/KG	0.19	0.0054 U
1,2-Dichloropropane	MG/KG	700 CP-51	0.0054 U
1,3,5-Trimethylbenzene (Mesitylene)	MG/KG	8.4	0.0054 U
1,3-Dichlorobenzene	MG/KG	2.4	0.0054 U
1,3-Dichloropropane	MG/KG	0.3 CP-51	0.0054 U
1,3-Dichloropropene (cis)	MG/KG	-	0.0054 U
1,3-Dichloropropene (trans)	MG/KG	-	0.0054 U
1,4-Dichlorobenzene	MG/KG	1.8	0.0054 U

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.

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R - The data is rejected.

Made By: PRF 04/11/2012 Checked By: AMK 04/12/2012

Detection Limits shown are PQL

TABLE 2
VALIDATED SOIL SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			SG-122
Sample ID			SG-122 2-2.5
Matrix			Soil
Depth Interval (ft)			2.0-2.5
Date Sampled			03/02/12
Parameter	Units	Criteria*	
Volatile Organic Compounds			
1,4-Dioxane	MG/KG	0.1	R
2,2-Dichloropropane	MG/KG	-	0.0054 U
2-Chlorotoluene	MG/KG	-	0.0054 U
2-Hexanone	MG/KG	-	0.0054 U
4-Chlorotoluene	MG/KG	-	0.0054 U
4-Isopropyltoluene (p-Cymene)	MG/KG	10 CP-51	0.0054 U
4-Methyl-2-pentanone	MG/KG	1 CP-51	0.0054 U
Acetone	MG/KG	0.05	R
Benzene	MG/KG	0.06	0.0054 U
Bromobenzene	MG/KG	-	0.0054 U
Bromochloromethane	MG/KG	-	0.0054 U
Bromodichloromethane	MG/KG	-	0.0054 U
Bromoform	MG/KG	-	0.0054 U
Bromomethane	MG/KG	-	0.0054 U
Carbon disulfide	MG/KG	2.7 CP-51	0.0054 U
Carbon tetrachloride	MG/KG	0.76	0.0054 U
Chlorobenzene	MG/KG	1.1	0.0054 U
Chloroethane	MG/KG	1.9 CP-51	0.0054 U
Chloroform	MG/KG	0.37	0.0054 U
Chloromethane	MG/KG	-	0.0054 U
Cyclohexane	MG/KG	-	0.0054 U
Dibromochloromethane	MG/KG	10 CP-51	0.0054 U
Dibromomethane	MG/KG	-	0.0054 U
Dichlorodifluoromethane	MG/KG	-	0.0054 U
Ethylbenzene	MG/KG	1	0.0054 U

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Made By: PRF 04/11/2012 Checked By: AMK 04/12/2012

Detection Limits shown are PQL

TABLE 2
VALIDATED SOIL SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			SG-122
Sample ID			SG-122 2-2.5
Matrix			Soil
Depth Interval (ft)			2.0-2.5
Date Sampled			03/02/12
Parameter	Units	Criteria*	
Volatile Organic Compounds			
Hexachlorobutadiene	MG/KG	-	0.0054 U
Iodomethane (Methyl iodide)	MG/KG	-	0.0054 UJ
Isopropylbenzene (Cumene)	MG/KG	2.3 CP-51	0.0054 U
Methyl acetate	MG/KG	-	0.0054 U
Methyl ethyl ketone (2-Butanone)	MG/KG	0.12	R
Methyl tert-butyl ether	MG/KG	0.93	0.0054 U
Methylcyclohexane	MG/KG	-	0.0054 U
Methylene chloride	MG/KG	0.05	0.0054 U
Naphthalene	MG/KG	12	0.0054 U
n-Butylbenzene	MG/KG	12	0.0054 U
n-Propylbenzene	MG/KG	3.9	0.0054 U
sec-Butylbenzene	MG/KG	11	0.0054 U
Styrene	MG/KG	300 CP-51	0.0054 U
tert-Butylbenzene	MG/KG	5.9	0.0054 U
Tetrachloroethene	MG/KG	1.3	0.0054 U
Toluene	MG/KG	0.7	0.0054 U
Trichloroethene	MG/KG	0.47	0.0054 U
Trichlorofluoromethane	MG/KG	-	0.0054 U
Vinyl acetate	MG/KG	-	0.0054 U
Vinyl chloride	MG/KG	0.02	0.0054 U
Xylene (total)	MG/KG	0.26	0.0054 U

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use, plus CP-51 Table 1 10/21/10.

Flags assigned during chemistry validation are shown.

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Made By: PRF 04/11/2012 Checked By: AMK 04/12/2012

Detection Limits shown are PQL

TABLE 3
VALIDATED INVESTIGATIVE DERIVED WASTE SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		IDW-SOIL
Sample ID		IDW-SOIL
Matrix		Soil
Depth Interval (ft)		-
Date Sampled		03/02/12
Parameter	Units	
TCLP Volatile Organic Compounds		
1,1-Dichloroethene	UG/L	5.0 U
1,2-Dichloroethane	UG/L	5.0 U
Benzene	UG/L	5.0 U
Carbon tetrachloride	UG/L	5.0 U
Chlorobenzene	UG/L	5.0 U
Chloroform	UG/L	5.0 U
Methyl ethyl ketone (2-Butanone)	UG/L	R
Tetrachloroethene	UG/L	5.0 U
Trichloroethene	UG/L	5.0 U
Vinyl chloride	UG/L	5.0 U
TCLP Semivolatile Organic Compounds		
1,4-Dichlorobenzene	UG/L	33 U
2,4,5-Trichlorophenol	UG/L	67 U
2,4,6-Trichlorophenol	UG/L	33 U
2,4-Dinitrotoluene	UG/L	33 U
2-Methylphenol (o-cresol)	UG/L	33 U
4-Methylphenol (p-cresol)	UG/L	33 U
Hexachlorobenzene	UG/L	33 U
Hexachlorobutadiene	UG/L	33 U
Hexachloroethane	UG/L	33 U
Nitrobenzene	UG/L	33 U
Pentachlorophenol	UG/L	67 U
Pyridine	UG/L	67 UJ

Flags assigned during chemistry validation are shown.

U - Not detected above the reported quantitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.

B (metals only) - The reported concentration is above the method detection limit but below the quantitation limit.

R - The data is rejected.

Made By: PRF 04/11/2012 Checked By: AMK 04/12/2012

Detection Limits shown are PQL

TABLE 3
VALIDATED INVESTIGATIVE DERIVED WASTE SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		IDW-SOIL
Sample ID		IDW-SOIL
Matrix		Soil
Depth Interval (ft)		-
Date Sampled		03/02/12
Parameter	Units	
TCLP Metals		
Arsenic	UG/L	20 U
Barium	UG/L	626
Cadmium	UG/L	5.0 U
Chromium	UG/L	20 U
Lead	UG/L	10 U
Mercury	UG/L	0.042 B
Selenium	UG/L	30.0 U
Silver	UG/L	30 U
RCRA Characteristics		
Corrosivity (as pH)	S.U.	6.3
Ignitability	DEG. F	200 U
Reactive Cyanide	MG/KG	1.0 UJ
Reactive Sulfide	MG/KG	1.0 U

Flags assigned during chemistry validation are shown.

U - Not detected above the reported quantitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.

B (metals only) - The reported concentration is above the method detection limit but below the quantitation limit.

R - The data is rejected.

Made By: PRF 04/11/2012 Checked By: AMK 04/12/2012

Detection Limits shown are PQL

ATTACHMENT A

VALIDATED FORM 1's

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DEC-088D 37-38

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0414 Mod. Ref No.: _____ SDG No.: SL0414
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0414-01B
Sample wt/vol: 5.60 (g/mL) G Lab File ID: V1M5379.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/01/2012
% Moisture: not dec. 3.5 Date Analyzed: 03/02/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	4.6	U
74-87-3	Chloromethane	4.6	U
75-01-4	Vinyl chloride	4.6	U
74-83-9	Bromomethane	4.6	U
75-00-3	Chloroethane	4.6	U
75-69-4	Trichlorofluoromethane	4.6	U
75-35-4	1,1-Dichloroethene	4.6	U
67-64-1	Acetone	4.6	U
74-88-4	Iodomethane	4.6	U
75-15-0	Carbon disulfide	4.6	U
75-09-2	Methylene chloride	4.6	U
156-60-5	trans-1,2-Dichloroethene	4.6	U
1634-04-4	Methyl tert-butyl ether	4.6	U
75-34-3	1,1-Dichloroethane	4.6	U
108-05-4	Vinyl acetate	4.6	U
78-93-3	2-Butanone	4.6	U
156-59-2	cis-1,2-Dichloroethene	4.6	U
594-20-7	2,2-Dichloropropane	4.6	U
74-97-5	Bromochloromethane	4.6	U
67-66-3	Chloroform	4.6	U
71-55-6	1,1,1-Trichloroethane	4.6	U
563-58-6	1,1-Dichloropropene	4.6	U
56-23-5	Carbon tetrachloride	4.6	U
107-06-2	1,2-Dichloroethane	4.6	U
71-43-2	Benzene	4.6	U
79-01-6	Trichloroethene	4.6	U
78-87-5	1,2-Dichloropropane	4.6	U
74-95-3	Dibromomethane	4.6	U
75-27-4	Bromodichloromethane	4.6	U
10061-01-5	cis-1,3-Dichloropropene	4.6	U
108-10-1	4-Methyl-2-pentanone	4.6	U
108-88-3	Toluene	4.6	U
10061-02-6	trans-1,3-Dichloropropene	4.6	U
79-00-5	1,1,2-Trichloroethane	4.6	U
142-28-9	1,3-Dichloropropane	4.6	U

4/1/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-088D 37-38

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0414 Mod. Ref No.: _____ SDG No.: SL0414
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0414-01B
Sample wt/vol: 5.60 (g/mL) G Lab File ID: V1M5379.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/01/2012
% Moisture: not dec. 3.5 Date Analyzed: 03/02/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	4.6	U
591-78-6	2-Hexanone	4.6	U
124-48-1	Dibromochloromethane	4.6	U
106-93-4	1,2-Dibromoethane	4.6	U
108-90-7	Chlorobenzene	4.6	U
630-20-6	1,1,1,2-Tetrachloroethane	4.6	U
100-41-4	Ethylbenzene	4.6	U
1330-20-7	m,p-Xylene	4.6	U
95-47-6	o-Xylene	4.6	U
1330-20-7	Xylene (Total)	4.6	U
100-42-5	Styrene	4.6	U
75-25-2	Bromoform	4.6	U
98-82-8	Isopropylbenzene	4.6	U
79-34-5	1,1,2,2-Tetrachloroethane	4.6	U
108-86-1	Bromobenzene	4.6	U
96-18-4	1,2,3-Trichloropropane	4.6	U
103-65-1	n-Propylbenzene	4.6	U
95-49-8	2-Chlorotoluene	4.6	U
108-67-8	1,3,5-Trimethylbenzene	4.6	U
106-43-4	4-Chlorotoluene	4.6	U
98-06-6	tert-Butylbenzene	4.6	U
95-63-6	1,2,4-Trimethylbenzene	4.6	U
135-98-8	sec-Butylbenzene	4.6	U
99-87-6	4-Isopropyltoluene	4.6	U J
541-73-1	1,3-Dichlorobenzene	4.6	U
106-46-7	1,4-Dichlorobenzene	4.6	U
104-51-8	n-Butylbenzene	4.6	U J
95-50-1	1,2-Dichlorobenzene	4.6	U
96-12-8	1,2-Dibromo-3-chloropropane	4.6	U
120-82-1	1,2,4-Trichlorobenzene	4.6	U
87-68-3	Hexachlorobutadiene	4.6	U
87-61-6	1,2,3-Trichlorobenzene	4.6	U
91-20-3	Naphthalene	4.6	U J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	4.6	U
123-91-1	1,4-Dioxane	93	U R

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-088D 37-38

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L0414 Mod. Ref No.: _____ SDG No.: SL0414

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0414-01B

Sample wt/vol: 5.60 (g/mL) G Lab File ID: V1M5379.D

Level: (TRACE/LOW/MED) LOW Date Received: 03/01/2012

% Moisture: not dec. 3.5 Date Analyzed: 03/02/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
110-82-7	Cyclohexane	4.6	U <i>J</i>
79-20-9	Methyl acetate	4.6	U
108-87-2	Methylcyclohexane	4.6	U <i>J</i>

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DEC-088D 37-38

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0414 Mod. Ref No.: _____ SDG No.: SL0414
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0414-01B
Sample wt/vol: 5.60 (g/mL) G Lab File ID: V1M5379.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/01/2012
% Moisture: not dec. 3.5 Date Analyzed: 03/02/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-89D 34-35

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0437 Mod. Ref No.: _____ SDG No.: SL0437
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0437-07A
Sample wt/vol: 5.20 (g/mL) G Lab File ID: V1M5422.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/05/2012
% Moisture: not dec. 6.7 Date Analyzed: 03/07/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	5.2	U
74-87-3	Chloromethane	5.2	U
75-01-4	Vinyl chloride	5.2	U
74-83-9	Bromomethane	5.2	U
75-00-3	Chloroethane	5.2	U
75-69-4	Trichlorofluoromethane	5.2	U J
75-35-4	1,1-Dichloroethene	5.2	U
67-64-1	Acetone	5.2	U R
74-88-4	Iodomethane	5.2	U
75-15-0	Carbon disulfide	5.2	U
75-09-2	Methylene chloride	5.2	U
156-60-5	trans-1,2-Dichloroethene	5.2	U
1634-04-4	Methyl tert-butyl ether	5.2	U
75-34-3	1,1-Dichloroethane	5.2	U
108-05-4	Vinyl acetate	5.2	U
78-93-3	2-Butanone	5.2	U R
156-59-2	cis-1,2-Dichloroethene	5.2	U
594-20-7	2,2-Dichloropropane	5.2	U
74-97-5	Bromochloromethane	5.2	U J
67-66-3	Chloroform	5.2	U
71-55-6	1,1,1-Trichloroethane	5.2	U J
563-58-6	1,1-Dichloropropene	5.2	U J
56-23-5	Carbon tetrachloride	5.2	U J
107-06-2	1,2-Dichloroethane	5.2	U
71-43-2	Benzene	5.2	U
79-01-6	Trichloroethene	5.2	U
78-87-5	1,2-Dichloropropane	5.2	U
74-95-3	Dibromomethane	5.2	U
75-27-4	Bromodichloromethane	5.2	U
10061-01-5	cis-1,3-Dichloropropene	5.2	U
108-10-1	4-Methyl-2-pentanone	5.2	U
108-88-3	Toluene	5.2	U
10061-02-6	trans-1,3-Dichloropropene	5.2	U
79-00-5	1,1,2-Trichloroethane	5.2	U
142-28-9	1,3-Dichloropropane	5.2	U

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-89D 34-35

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0437 Mod. Ref No.: _____ SDG No.: SL0437
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0437-07A
Sample wt/vol: 5.20 (g/mL) G Lab File ID: V1M5422.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/05/2012
% Moisture: not dec. 6.7 Date Analyzed: 03/07/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	5.2	U
591-78-6	2-Hexanone	5.2	U
124-48-1	Dibromochloromethane	5.2	U
106-93-4	1,2-Dibromoethane	5.2	U
108-90-7	Chlorobenzene	5.2	U
630-20-6	1,1,1,2-Tetrachloroethane	5.2	U
100-41-4	Ethylbenzene	5.2	U
1330-20-7	m,p-Xylene	5.2	U
95-47-6	o-Xylene	5.2	U
1330-20-7	Xylene (Total)	5.2	U
100-42-5	Styrene	5.2	U
75-25-2	Bromoform	5.2	U
98-82-8	Isopropylbenzene	5.2	U
79-34-5	1,1,2,2-Tetrachloroethane	5.2	U
108-86-1	Bromobenzene	5.2	U
96-18-4	1,2,3-Trichloropropane	5.2	U
103-65-1	n-Propylbenzene	5.2	U
95-49-8	2-Chlorotoluene	5.2	U
108-67-8	1,3,5-Trimethylbenzene	5.2	U
106-43-4	4-Chlorotoluene	5.2	U
98-06-6	tert-Butylbenzene	5.2	U
95-63-6	1,2,4-Trimethylbenzene	5.2	U
135-98-8	sec-Butylbenzene	5.2	U
99-87-6	4-Isopropyltoluene	5.2	U
541-73-1	1,3-Dichlorobenzene	5.2	U
106-46-7	1,4-Dichlorobenzene	5.2	U
104-51-8	n-Butylbenzene	5.2	U
95-50-1	1,2-Dichlorobenzene	5.2	U
96-12-8	1,2-Dibromo-3-chloropropane	5.2	U
120-82-1	1,2,4-Trichlorobenzene	5.2	U
87-68-3	Hexachlorobutadiene	5.2	U
87-61-6	1,2,3-Trichlorobenzene	5.2	U
91-20-3	Naphthalene	5.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.2	U
123-91-1	1,4-Dioxane	100	U R

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-89D 34-35

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L0437 Mod. Ref No.: _____ SDG No.: SL0437
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0437-07A
 Sample wt/vol: 5.20 (g/mL) G Lab File ID: V1M5422.D
 Level: (TRACE/LOW/MED) LOW Date Received: 03/05/2012
 % Moisture: not dec. 6.7 Date Analyzed: 03/07/2012
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
110-82-7	Cyclohexane	5.2	U <u>J</u>
79-20-9	Methyl acetate	5.2	U <u>J</u>
108-87-2	Methylcyclohexane	5.2	U <u>J</u>

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1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DEC-89D 34-35

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0437 Mod. Ref No.: _____ SDG No.: SL0437
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0437-07A
Sample wt/vol: 5.20 (g/mL) G Lab File ID: V1M5422.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/05/2012
% Moisture: not dec. 6.7 Date Analyzed: 03/07/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-090D 30-31

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0460 Mod. Ref No.: _____ SDG No.: SL0460
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0460-04A
Sample wt/vol: 5.50 (g/mL) G Lab File ID: V1M5488.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/08/2012
% Moisture: not dec. 17 Date Analyzed: 03/09/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
75-71-8	Dichlorodifluoromethane	5.5	U
74-87-3	Chloromethane	5.5	U
75-01-4	Vinyl chloride	5.5	U
74-83-9	Bromomethane	5.5	U
75-00-3	Chloroethane	5.5	U
75-69-4	Trichlorofluoromethane	5.5	U
75-35-4	1,1-Dichloroethene	5.5	U
67-64-1	Acetone	5.5	U <i>R</i>
74-88-4	Iodomethane	5.5	U <i>J</i>
75-15-0	Carbon disulfide	5.5	U
75-09-2	Methylene chloride	1.9	J
156-60-5	trans-1,2-Dichloroethene	5.5	U
1634-04-4	Methyl tert-butyl ether	5.5	U
75-34-3	1,1-Dichloroethane	5.5	U
108-05-4	Vinyl acetate	5.5	U
78-93-3	2-Butanone	5.5	U <i>R</i>
156-59-2	cis-1,2-Dichloroethene	5.5	U
594-20-7	2,2-Dichloropropane	5.5	U
74-97-5	Bromochloromethane	5.5	U
67-66-3	Chloroform	5.5	U
71-55-6	1,1,1-Trichloroethane	5.5	U
563-58-6	1,1-Dichloropropene	5.5	U
56-23-5	Carbon tetrachloride	5.5	U
107-06-2	1,2-Dichloroethane	5.5	U
71-43-2	Benzene	5.5	U
79-01-6	Trichloroethene	5.5	U
78-87-5	1,2-Dichloropropane	5.5	U
74-95-3	Dibromomethane	5.5	U
75-27-4	Bromodichloromethane	5.5	U
10061-01-5	cis-1,3-Dichloropropene	5.5	U
108-10-1	4-Methyl-2-pentanone	5.5	U
108-88-3	Toluene	5.5	U
10061-02-6	trans-1,3-Dichloropropene	5.5	U
79-00-5	1,1,2-Trichloroethane	5.5	U
142-28-9	1,3-Dichloropropane	5.5	U

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-090D 30-31

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0460 Mod. Ref No.: _____ SDG No.: SL0460
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0460-04A
Sample wt/vol: 5.50 (g/mL) G Lab File ID: V1M5488.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/08/2012
% Moisture: not dec. 17 Date Analyzed: 03/09/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	5.5	U
591-78-6	2-Hexanone	5.5	U
124-48-1	Dibromochloromethane	5.5	U
106-93-4	1,2-Dibromoethane	5.5	U
108-90-7	Chlorobenzene	5.5	U
630-20-6	1,1,1,2-Tetrachloroethane	5.5	U
100-41-4	Ethylbenzene	5.5	U
1330-20-7	m,p-Xylene	5.5	U
95-47-6	o-Xylene	5.5	U
1330-20-7	Xylene (Total)	5.5	U
100-42-5	Styrene	5.5	U
75-25-2	Bromoform	5.5	U
98-82-8	Isopropylbenzene	5.5	U
79-34-5	1,1,2,2-Tetrachloroethane	5.5	U
108-86-1	Bromobenzene	5.5	U
96-18-4	1,2,3-Trichloropropane	5.5	U
103-65-1	n-Propylbenzene	5.5	U
95-49-8	2-Chlorotoluene	5.5	U
108-67-8	1,3,5-Trimethylbenzene	5.5	U
106-43-4	4-Chlorotoluene	5.5	U
98-06-6	tert-Butylbenzene	5.5	U
95-63-6	1,2,4-Trimethylbenzene	5.5	U
135-98-8	sec-Butylbenzene	5.5	U
99-87-6	4-Isopropyltoluene	5.5	U
541-73-1	1,3-Dichlorobenzene	5.5	U
106-46-7	1,4-Dichlorobenzene	5.5	U
104-51-8	n-Butylbenzene	5.5	U
95-50-1	1,2-Dichlorobenzene	5.5	U
96-12-8	1,2-Dibromo-3-chloropropane	5.5	U
120-82-1	1,2,4-Trichlorobenzene	5.5	U
87-68-3	Hexachlorobutadiene	5.5	U
87-61-6	1,2,3-Trichlorobenzene	5.5	U
91-20-3	Naphthalene	5.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.5	U
123-91-1	1,4-Dioxane	110	U

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2

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-090D 30-31

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L0460 Mod. Ref No.: _____ SDG No.: SL0460

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0460-04A

Sample wt/vol: 5.50 (g/mL) G Lab File ID: V1M5488.D

Level: (TRACE/LOW/MED) LOW Date Received: 03/08/2012

% Moisture: not dec. 17 Date Analyzed: 03/09/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
110-82-7	Cyclohexane	5.5	U
79-20-9	Methyl acetate	5.5	U
108-87-2	Methylcyclohexane	5.5	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DEC-090D 30-31

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L0460 Mod. Ref No.: _____ SDG No.: SL0460

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0460-04A

Sample wt/vol: 5.50 (g/mL) G Lab File ID: V1M5488.D

Level: (TRACE or LOW/MED) LOW Date Received: 03/08/2012

% Moisture: not dec. 17 Date Analyzed: 03/09/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-091D 30-31

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0486 Mod. Ref No.: _____ SDG No.: SL0486
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0486-01A
Sample wt/vol: 5.30 (g/mL) G Lab File ID: V5N5251.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/12/2012
% Moisture: not dec. 18 Date Analyzed: 03/16/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	5.8	U
74-87-3	Chloromethane	5.8	U
75-01-4	Vinyl chloride	5.8	U
74-83-9	Bromomethane	5.8	U
75-00-3	Chloroethane	5.8	U
75-69-4	Trichlorofluoromethane	5.8	U
75-35-4	1,1-Dichloroethene	5.8	U
67-64-1	Acetone	5.8	U R
74-88-4	Iodomethane	5.8	U
75-15-0	Carbon disulfide	5.8	U
75-09-2	Methylene chloride	5.8 1.9	BJ u
156-60-5	trans-1,2-Dichloroethene	5.8	U
1634-04-4	Methyl tert-butyl ether	5.8	U
75-34-3	1,1-Dichloroethane	5.8	U
108-05-4	Vinyl acetate	5.8	U
78-93-3	2-Butanone	5.8	U R
156-59-2	cis-1,2-Dichloroethene	5.8	U
594-20-7	2,2-Dichloropropane	5.8	U
74-97-5	Bromochloromethane	5.8	U
67-66-3	Chloroform	5.8	U
71-55-6	1,1,1-Trichloroethane	5.8	U
563-58-6	1,1-Dichloropropene	5.8	U
56-23-5	Carbon tetrachloride	5.8	U
107-06-2	1,2-Dichloroethane	5.8	U
71-43-2	Benzene	5.8	U
79-01-6	Trichloroethene	5.8	U
78-87-5	1,2-Dichloropropane	5.8	U
74-95-3	Dibromomethane	5.8	U
75-27-4	Bromodichloromethane	5.8	U
10061-01-5	cis-1,3-Dichloropropene	5.8	U
108-10-1	4-Methyl-2-pentanone	5.8	U
108-88-3	Toluene	5.8	U
10061-02-6	trans-1,3-Dichloropropene	5.8	U
79-00-5	1,1,2-Trichloroethane	5.8	U
142-28-9	1,3-Dichloropropane	5.8	U

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-091D 30-31

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0486 Mod. Ref No.: _____ SDG No.: SL0486
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0486-01A
Sample wt/vol: 5.30 (g/mL) G Lab File ID: V5N5251.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/12/2012
% Moisture: not dec. 18 Date Analyzed: 03/16/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	5.8	U
591-78-6	2-Hexanone	5.8	U
124-48-1	Dibromochloromethane	5.8	U
106-93-4	1,2-Dibromoethane	5.8	U
108-90-7	Chlorobenzene	5.8	U
630-20-6	1,1,1,2-Tetrachloroethane	5.8	U
100-41-4	Ethylbenzene	5.8	U
1330-20-7	m,p-Xylene	5.8	U
95-47-6	o-Xylene	5.8	U
1330-20-7	Xylene (Total)	5.8	U
100-42-5	Styrene	5.8	U
75-25-2	Bromoform	5.8	U
98-82-8	Isopropylbenzene	5.8	U
79-34-5	1,1,2,2-Tetrachloroethane	5.8	U
108-86-1	Bromobenzene	5.8	U
96-18-4	1,2,3-Trichloropropane	5.8	U
103-65-1	n-Propylbenzene	5.8	U
95-49-8	2-Chlorotoluene	5.8	U
108-67-8	1,3,5-Trimethylbenzene	5.8	U
106-43-4	4-Chlorotoluene	5.8	U
98-06-6	tert-Butylbenzene	5.8	U
95-63-6	1,2,4-Trimethylbenzene	5.8	U
135-98-8	sec-Butylbenzene	5.8	U
99-87-6	4-Isopropyltoluene	5.8	U
541-73-1	1,3-Dichlorobenzene	5.8	U
106-46-7	1,4-Dichlorobenzene	5.8	U
104-51-8	n-Butylbenzene	5.8	U
95-50-1	1,2-Dichlorobenzene	5.8	U
96-12-8	1,2-Dibromo-3-chloropropane	5.8	U J
120-82-1	1,2,4-Trichlorobenzene	5.8	U
87-68-3	Hexachlorobutadiene	5.8	U
87-61-6	1,2,3-Trichlorobenzene	5.8	U
91-20-3	Naphthalene	5.8	U J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.8	U
123-91-1	1,4-Dioxane	120	U R

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-091D 30-31

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L0486 Mod. Ref No.: _____ SDG No.: SL0486

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0486-01A

Sample wt/vol: 5.30 (g/mL) G Lab File ID: V5N5251.D

Level: (TRACE/LOW/MED) LOW Date Received: 03/12/2012

% Moisture: not dec. 18 Date Analyzed: 03/16/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
110-82-7	Cyclohexane	5.8	U
79-20-9	Methyl acetate	5.8	U
108-87-2	Methylcyclohexane	5.8	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DEC-091D 30-31

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0486 Mod. Ref No.: _____ SDG No.: SL0486
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0486-01A
Sample wt/vol: 5.30 (g/mL) G Lab File ID: V5N5251.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/12/2012
% Moisture: not dec. 18 Date Analyzed: 03/16/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SG-61R 5-5.5

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0437 Mod. Ref No.: _____ SDG No.: SL0437
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0437-10A
Sample wt/vol: 5.10 (g/mL) G Lab File ID: V1M5450.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/05/2012
% Moisture: not dec. 11 Date Analyzed: 03/08/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	5.5	U
74-87-3	Chloromethane	5.5	U
75-01-4	Vinyl chloride	5.5	U
74-83-9	Bromomethane	5.5	U
75-00-3	Chloroethane	5.5	U J
75-69-4	Trichlorofluoromethane	5.5	U
75-35-4	1,1-Dichloroethene	5.5	U
67-64-1	Acetone	5.5	U R
74-88-4	Iodomethane	5.5	U
75-15-0	Carbon disulfide	5.5	U
75-09-2	Methylene chloride	5.5	U
156-60-5	trans-1,2-Dichloroethene	5.5	U
1634-04-4	Methyl tert-butyl ether	5.5	U
75-34-3	1,1-Dichloroethane	5.5	U
108-05-4	Vinyl acetate	5.5	U
78-93-3	2-Butanone	5.5	U R
156-59-2	cis-1,2-Dichloroethene	5.5	U
594-20-7	2,2-Dichloropropane	5.5	U
74-97-5	Bromochloromethane	5.5	U
67-66-3	Chloroform	5.5	U
71-55-6	1,1,1-Trichloroethane	5.5	U
563-58-6	1,1-Dichloropropene	5.5	U
56-23-5	Carbon tetrachloride	5.5	U
107-06-2	1,2-Dichloroethane	5.5	U
71-43-2	Benzene	5.5	U
79-01-6	Trichloroethene	5.5	U
78-87-5	1,2-Dichloropropane	5.5	U
74-95-3	Dibromomethane	5.5	U
75-27-4	Bromodichloromethane	5.5	U
10061-01-5	cis-1,3-Dichloropropene	5.5	U
108-10-1	4-Methyl-2-pentanone	5.5	U
108-88-3	Toluene	5.5	U
10061-02-6	trans-1,3-Dichloropropene	5.5	U
79-00-5	1,1,2-Trichloroethane	5.5	U
142-28-9	1,3-Dichloropropane	5.5	U

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SG-61R 5-5.5

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0437 Mod. Ref No.: _____ SDG No.: SL0437
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0437-10A
Sample wt/vol: 5.10 (g/mL) G Lab File ID: V1M5450.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/05/2012
% Moisture: not dec. 11 Date Analyzed: 03/08/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	5.5	U
591-78-6	2-Hexanone	5.5	U
124-48-1	Dibromochloromethane	5.5	U
106-93-4	1,2-Dibromoethane	5.5	U
108-90-7	Chlorobenzene	5.5	U
630-20-6	1,1,1,2-Tetrachloroethane	5.5	U
100-41-4	Ethylbenzene	5.5	U
1330-20-7	m,p-Xylene	5.5	U
95-47-6	o-Xylene	5.5	U
1330-20-7	Xylene (Total)	5.5	U
100-42-5	Styrene	5.5	U
75-25-2	Bromoform	5.5	U J
98-82-8	Isopropylbenzene	5.5	U
79-34-5	1,1,2,2-Tetrachloroethane	5.5	U
108-86-1	Bromobenzene	5.5	U
96-18-4	1,2,3-Trichloropropane	5.5	U
103-65-1	n-Propylbenzene	5.5	U
95-49-8	2-Chlorotoluene	5.5	U
108-67-8	1,3,5-Trimethylbenzene	5.5	U
106-43-4	4-Chlorotoluene	5.5	U
98-06-6	tert-Butylbenzene	5.5	U
95-63-6	1,2,4-Trimethylbenzene	5.5	U
135-98-8	sec-Butylbenzene	5.5	U
99-87-6	4-Isopropyltoluene	5.5	U
541-73-1	1,3-Dichlorobenzene	5.5	U
106-46-7	1,4-Dichlorobenzene	5.5	U
104-51-8	n-Butylbenzene	5.5	U
95-50-1	1,2-Dichlorobenzene	5.5	U
96-12-8	1,2-Dibromo-3-chloropropane	5.5	U
120-82-1	1,2,4-Trichlorobenzene	5.5	U
87-68-3	Hexachlorobutadiene	5.5	U
87-61-6	1,2,3-Trichlorobenzene	5.5	U J
91-20-3	Naphthalene	5.5 2.5	U J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.5	U
123-91-1	1,4-Dioxane	110	U R

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SG-61R 5-5.5

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L0437 Mod. Ref No.: _____ SDG No.: SL0437

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0437-10A

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V1M5450.D

Level: (TRACE/LOW/MED) LOW Date Received: 03/05/2012

% Moisture: not dec. 11 Date Analyzed: 03/08/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
110-82-7	Cyclohexane	5.5	U
79-20-9	Methyl acetate	5.5	U
108-87-2	Methylcyclohexane	5.5	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SG-61R 5-5.5

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L0437 Mod. Ref No.: _____ SDG No.: SL0437

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0437-10A

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V1M5450.D

Level: (TRACE or LOW/MED) LOW Date Received: 03/05/2012

% Moisture: not dec. 11 Date Analyzed: 03/08/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SG-112 4.5-5

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0437 Mod. Ref No.: _____ SDG No.: SL0437
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0437-09A
Sample wt/vol: 5.20 (g/mL) G Lab File ID: V1M5449.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/05/2012
% Moisture: not dec. 11 Date Analyzed: 03/08/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	5.4	U
74-87-3	Chloromethane	5.4	U
75-01-4	Vinyl chloride	5.4	U
74-83-9	Bromomethane	5.4	U
75-00-3	Chloroethane	5.4	U J
75-69-4	Trichlorofluoromethane	5.4	U
75-35-4	1,1-Dichloroethene	5.4	U
67-64-1	Acetone	5.4	U R
74-88-4	Iodomethane	5.4	U
75-15-0	Carbon disulfide	5.4	U
75-09-2	Methylene chloride	5.4	U
156-60-5	trans-1,2-Dichloroethene	5.4	U
1634-04-4	Methyl tert-butyl ether	5.4	U
75-34-3	1,1-Dichloroethane	5.4	U
108-05-4	Vinyl acetate	5.4	U
78-93-3	2-Butanone	5.4	U R
156-59-2	cis-1,2-Dichloroethene	5.4	U
594-20-7	2,2-Dichloropropane	5.4	U
74-97-5	Bromochloromethane	5.4	U
67-66-3	Chloroform	5.4	U
71-55-6	1,1,1-Trichloroethane	5.4	U
563-58-6	1,1-Dichloropropene	5.4	U
56-23-5	Carbon tetrachloride	5.4	U
107-06-2	1,2-Dichloroethane	5.4	U
71-43-2	Benzene	5.4	U
79-01-6	Trichloroethene	5.4	U
78-87-5	1,2-Dichloropropane	5.4	U
74-95-3	Dibromomethane	5.4	U
75-27-4	Bromodichloromethane	5.4	U
10061-01-5	cis-1,3-Dichloropropene	5.4	U
108-10-1	4-Methyl-2-pentanone	5.4	U
108-88-3	Toluene	5.4	U
10061-02-6	trans-1,3-Dichloropropene	5.4	U
79-00-5	1,1,2-Trichloroethane	5.4	U
142-28-9	1,3-Dichloropropane	5.4	U

4/9/12
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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SG-112 4.5-5

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0437 Mod. Ref No.: _____ SDG No.: SL0437
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0437-09A
Sample wt/vol: 5.20 (g/mL) G Lab File ID: V1M5449.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/05/2012
% Moisture: not dec. 11 Date Analyzed: 03/08/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	5.4	U
591-78-6	2-Hexanone	5.4	U
124-48-1	Dibromochloromethane	5.4	U
106-93-4	1,2-Dibromoethane	5.4	U
108-90-7	Chlorobenzene	5.4	U
630-20-6	1,1,1,2-Tetrachloroethane	5.4	U
100-41-4	Ethylbenzene	5.4	U
1330-20-7	m,p-Xylene	5.4	U
95-47-6	o-Xylene	5.4	U
1330-20-7	Xylene (Total)	5.4	U
100-42-5	Styrene	5.4	U
75-25-2	Bromoform	5.4	U J
98-82-8	Isopropylbenzene	5.4	U
79-34-5	1,1,2,2-Tetrachloroethane	5.4	U
108-86-1	Bromobenzene	5.4	U
96-18-4	1,2,3-Trichloropropane	5.4	U
103-65-1	n-Propylbenzene	5.4	U
95-49-8	2-Chlorotoluene	5.4	U
108-67-8	1,3,5-Trimethylbenzene	5.4	U
106-43-4	4-Chlorotoluene	5.4	U
98-06-6	tert-Butylbenzene	5.4	U
95-63-6	1,2,4-Trimethylbenzene	5.4	U
135-98-8	sec-Butylbenzene	5.4	U
99-87-6	4-Isopropyltoluene	5.4	U
541-73-1	1,3-Dichlorobenzene	5.4	U
106-46-7	1,4-Dichlorobenzene	5.4	U
104-51-8	n-Butylbenzene	5.4	U
95-50-1	1,2-Dichlorobenzene	5.4	U
96-12-8	1,2-Dibromo-3-chloropropane	5.4	U
120-82-1	1,2,4-Trichlorobenzene	5.4	U
87-68-3	Hexachlorobutadiene	5.4	U
87-61-6	1,2,3-Trichlorobenzene	5.4	U J
91-20-3	Naphthalene	5.4	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.4	U
123-91-1	1,4-Dioxane	110	U R

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SG-112 4.5-5

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L0437 Mod. Ref No.: _____ SDG No.: SL0437

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0437-09A

Sample wt/vol: 5.20 (g/mL) G Lab File ID: V1M5449.D

Level: (TRACE/LOW/MED) LOW Date Received: 03/05/2012

% Moisture: not dec. 11 Date Analyzed: 03/08/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
110-82-7	Cyclohexane	5.4	U
79-20-9	Methyl acetate	5.4	U
108-87-2	Methylcyclohexane	5.4	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SG-112 4.5-5

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L0437 Mod. Ref No.: _____ SDG No.: SL0437

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0437-09A

Sample wt/vol: 5.20 (g/mL) G Lab File ID: V1M5449.D

Level: (TRACE or LOW/MED) LOW Date Received: 03/05/2012

% Moisture: not dec. 11 Date Analyzed: 03/08/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SG-113 7.5-8

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0437 Mod. Ref No.: _____ SDG No.: SL0437
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0437-08A
Sample wt/vol: 5.30 (g/mL) G Lab File ID: V1M5423.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/05/2012
% Moisture: not dec. 8.9 Date Analyzed: 03/07/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	5.2	U
74-87-3	Chloromethane	5.2	U
75-01-4	Vinyl chloride	5.2	U
74-83-9	Bromomethane	5.2	U
75-00-3	Chloroethane	5.2	U
75-69-4	Trichlorofluoromethane	5.2	U J
75-35-4	1,1-Dichloroethene	5.2	U
67-64-1	Acetone	5.2	U R
74-88-4	Iodomethane	5.2	U
75-15-0	Carbon disulfide	5.2	U
75-09-2	Methylene chloride	5.2	U
156-60-5	trans-1,2-Dichloroethene	5.2	U
1634-04-4	Methyl tert-butyl ether	5.2	U
75-34-3	1,1-Dichloroethane	5.2	U
108-05-4	Vinyl acetate	5.2	U
78-93-3	2-Butanone	5.2	U R
156-59-2	cis-1,2-Dichloroethene	5.2	U
594-20-7	2,2-Dichloropropane	5.2	U
74-97-5	Bromochloromethane	5.2	U J
67-66-3	Chloroform	5.2	U
71-55-6	1,1,1-Trichloroethane	5.2	U J
563-58-6	1,1-Dichloropropene	5.2	U J
56-23-5	Carbon tetrachloride	5.2	U J
107-06-2	1,2-Dichloroethane	5.2	U
71-43-2	Benzene	5.2	U
79-01-6	Trichloroethene	5.2	U
78-87-5	1,2-Dichloropropane	5.2	U
74-95-3	Dibromomethane	5.2	U
75-27-4	Bromodichloromethane	5.2	U
10061-01-5	cis-1,3-Dichloropropene	5.2	U
108-10-1	4-Methyl-2-pentanone	5.2	U
108-88-3	Toluene	5.2	U
10061-02-6	trans-1,3-Dichloropropene	5.2	U
79-00-5	1,1,2-Trichloroethane	5.2	U
142-28-9	1,3-Dichloropropane	5.2	U

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SG-113 7.5-8

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0437 Mod. Ref No.: _____ SDG No.: SL0437
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0437-08A
Sample wt/vol: 5.30 (g/mL) G Lab File ID: V1M5423.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/05/2012
% Moisture: not dec. 8.9 Date Analyzed: 03/07/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	5.2	U
591-78-6	2-Hexanone	5.2	U
124-48-1	Dibromochloromethane	5.2	U
106-93-4	1,2-Dibromoethane	5.2	U
108-90-7	Chlorobenzene	5.2	U
630-20-6	1,1,1,2-Tetrachloroethane	5.2	U
100-41-4	Ethylbenzene	5.2	U
1330-20-7	m,p-Xylene	5.2	U
95-47-6	o-Xylene	5.2	U
1330-20-7	Xylene (Total)	5.2	U
100-42-5	Styrene	5.2	U
75-25-2	Bromoform	5.2	U
98-82-8	Isopropylbenzene	5.2	U
79-34-5	1,1,2,2-Tetrachloroethane	5.2	U
108-86-1	Bromobenzene	5.2	U
96-18-4	1,2,3-Trichloropropane	5.2	U
103-65-1	n-Propylbenzene	5.2	U
95-49-8	2-Chlorotoluene	5.2	U
108-67-8	1,3,5-Trimethylbenzene	5.2	U
106-43-4	4-Chlorotoluene	5.2	U
98-06-6	tert-Butylbenzene	5.2	U
95-63-6	1,2,4-Trimethylbenzene	5.2	U
135-98-8	sec-Butylbenzene	5.2	U
99-87-6	4-Isopropyltoluene	5.2	U
541-73-1	1,3-Dichlorobenzene	5.2	U
106-46-7	1,4-Dichlorobenzene	5.2	U
104-51-8	n-Butylbenzene	5.2	U
95-50-1	1,2-Dichlorobenzene	5.2	U
96-12-8	1,2-Dibromo-3-chloropropane	5.2	U
120-82-1	1,2,4-Trichlorobenzene	5.2	U
87-68-3	Hexachlorobutadiene	5.2	U
87-61-6	1,2,3-Trichlorobenzene	5.2	U
91-20-3	Naphthalene	5.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.2	U
123-91-1	1,4-Dioxane	100	U R

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SG-113 7.5-8

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L0437 Mod. Ref No.: _____ SDG No.: SL0437
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0437-08A
 Sample wt/vol: 5.30 (g/mL) G Lab File ID: V1M5423.D
 Level: (TRACE/LOW/MED) LOW Date Received: 03/05/2012
 % Moisture: not dec. 8.9 Date Analyzed: 03/07/2012
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
110-82-7	Cyclohexane	5.2	U <u>J</u>
79-20-9	Methyl acetate	5.2	U <u>J</u>
108-87-2	Methylcyclohexane	5.2	U <u>J</u>

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SG-113 7.5-8

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0437 Mod. Ref No.: _____ SDG No.: SL0437
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0437-08A
Sample wt/vol: 5.30 (g/mL) G Lab File ID: V1M5423.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/05/2012
% Moisture: not dec. 8.9 Date Analyzed: 03/07/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SG-114 7.5-8.0

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0437 Mod. Ref No.: _____ SDG No.: SL0437
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0437-03A
Sample wt/vol: 5.90 (g/mL) G Lab File ID: V1M5418.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/05/2012
% Moisture: not dec. 9.7 Date Analyzed: 03/07/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	4.7	U
74-87-3	Chloromethane	4.7	U
75-01-4	Vinyl chloride	4.7	U
74-83-9	Bromomethane	4.7	U
75-00-3	Chloroethane	4.7	U
75-69-4	Trichlorofluoromethane	4.7	U J
75-35-4	1,1-Dichloroethene	4.7	U
67-64-1	Acetone	4.7	U R
74-88-4	Iodomethane	4.7	U
75-15-0	Carbon disulfide	4.7	U
75-09-2	Methylene chloride	1.5	J
156-60-5	trans-1,2-Dichloroethene	4.7	U
1634-04-4	Methyl tert-butyl ether	4.7	U
75-34-3	1,1-Dichloroethane	4.7	U
108-05-4	Vinyl acetate	4.7	U
78-93-3	2-Butanone	4.7	U R
156-59-2	cis-1,2-Dichloroethene	4.7	U
594-20-7	2,2-Dichloropropane	4.7	U
74-97-5	Bromochloromethane	4.7	U J
67-66-3	Chloroform	4.7	U
71-55-6	1,1,1-Trichloroethane	4.7	U J
563-58-6	1,1-Dichloropropene	4.7	U J
56-23-5	Carbon tetrachloride	4.7	U J
107-06-2	1,2-Dichloroethane	4.7	U
71-43-2	Benzene	4.7	U
79-01-6	Trichloroethene	2.1	J
78-87-5	1,2-Dichloropropane	4.7	U
74-95-3	Dibromomethane	4.7	U
75-27-4	Bromodichloromethane	4.7	U
10061-01-5	cis-1,3-Dichloropropene	4.7	U
108-10-1	4-Methyl-2-pentanone	4.7	U
108-88-3	Toluene	4.7	U
10061-02-6	trans-1,3-Dichloropropene	4.7	U
79-00-5	1,1,2-Trichloroethane	4.7	U
142-28-9	1,3-Dichloropropane	4.7	U

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SG-114 7.5-8.0

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0437 Mod. Ref No.: _____ SDG No.: SL0437
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0437-03A
Sample wt/vol: 5.90 (g/mL) G Lab File ID: V1M5418.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/05/2012
% Moisture: not dec. 9.7 Date Analyzed: 03/07/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	1.1	J
591-78-6	2-Hexanone	4.7	U
124-48-1	Dibromochloromethane	4.7	U
106-93-4	1,2-Dibromoethane	4.7	U
108-90-7	Chlorobenzene	4.7	U
630-20-6	1,1,1,2-Tetrachloroethane	4.7	U
100-41-4	Ethylbenzene	4.7	U
1330-20-7	m,p-Xylene	4.7	U
95-47-6	o-Xylene	4.7	U
1330-20-7	Xylene (Total)	4.7	U
100-42-5	Styrene	4.7	U
75-25-2	Bromoform	4.7	U
98-82-8	Isopropylbenzene	4.7	U
79-34-5	1,1,2,2-Tetrachloroethane	4.7	U
108-86-1	Bromobenzene	4.7	U
96-18-4	1,2,3-Trichloropropane	4.7	U
103-65-1	n-Propylbenzene	4.7	U
95-49-8	2-Chlorotoluene	4.7	U
108-67-8	1,3,5-Trimethylbenzene	4.7	U
106-43-4	4-Chlorotoluene	4.7	U
98-06-6	tert-Butylbenzene	4.7	U
95-63-6	1,2,4-Trimethylbenzene	4.7	U
135-98-8	sec-Butylbenzene	4.7	U
99-87-6	4-Isopropyltoluene	4.7	U
541-73-1	1,3-Dichlorobenzene	4.7	U
106-46-7	1,4-Dichlorobenzene	4.7	U
104-51-8	n-Butylbenzene	4.7	U
95-50-1	1,2-Dichlorobenzene	4.7	U
96-12-8	1,2-Dibromo-3-chloropropane	4.7	U
120-82-1	1,2,4-Trichlorobenzene	4.7	U
87-68-3	Hexachlorobutadiene	4.7	U
87-61-6	1,2,3-Trichlorobenzene	4.7	U
91-20-3	Naphthalene	4.7	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	4.7	U
123-91-1	1,4-Dioxane	94	U R

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SG-114 7.5-8.0

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L0437 Mod. Ref No.: _____ SDG No.: SL0437
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0437-03A
 Sample wt/vol: 5.90 (g/mL) G Lab File ID: V1M5418.D
 Level: (TRACE/LOW/MED) LOW Date Received: 03/05/2012
 % Moisture: not dec. 9.7 Date Analyzed: 03/07/2012
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/KG	
110-82-7	Cyclohexane	4.7	U	J
79-20-9	Methyl acetate	4.7	U	J
108-87-2	Methylcyclohexane	4.7	U	J

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1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SG-114 7.5-8.0

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0437 Mod. Ref No.: _____ SDG No.: SL0437
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0437-03A
Sample wt/vol: 5.90 (g/mL) G Lab File ID: V1M5418.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/05/2012
% Moisture: not dec. 9.7 Date Analyzed: 03/07/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SG-115 6.5-7.0

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0437 Mod. Ref No.: _____ SDG No.: SL0437
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0437-02A
Sample wt/vol: 5.90 (g/mL) G Lab File ID: V1M5417.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/05/2012
% Moisture: not dec. 18 Date Analyzed: 03/07/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	5.2	U
74-87-3	Chloromethane	5.2	U
75-01-4	Vinyl chloride	5.2	U
74-83-9	Bromomethane	5.2	U
75-00-3	Chloroethane	5.2	U
75-69-4	Trichlorofluoromethane	5.2	U J
75-35-4	1,1-Dichloroethene	5.2	U
67-64-1	Acetone	5.2	U R
74-88-4	Iodomethane	5.2	U
75-15-0	Carbon disulfide	5.2	U
75-09-2	Methylene chloride	3.1	J
156-60-5	trans-1,2-Dichloroethene	5.2	U
1634-04-4	Methyl tert-butyl ether	5.2	U
75-34-3	1,1-Dichloroethane	5.2	U
108-05-4	Vinyl acetate	5.2	U
78-93-3	2-Butanone	5.2	U R
156-59-2	cis-1,2-Dichloroethene	5.2	U
594-20-7	2,2-Dichloropropane	5.2	U
74-97-5	Bromochloromethane	5.2	U J
67-66-3	Chloroform	5.2	U
71-55-6	1,1,1-Trichloroethane	5.2	U J
563-58-6	1,1-Dichloropropene	5.2	U J
56-23-5	Carbon tetrachloride	5.2	U J
107-06-2	1,2-Dichloroethane	5.2	U
71-43-2	Benzene	5.2	U
79-01-6	Trichloroethene	5.2	U
78-87-5	1,2-Dichloropropane	5.2	U
74-95-3	Dibromomethane	5.2	U
75-27-4	Bromodichloromethane	5.2	U
10061-01-5	cis-1,3-Dichloropropene	5.2	U
108-10-1	4-Methyl-2-pentanone	5.2	U
108-88-3	Toluene	5.2	U
10061-02-6	trans-1,3-Dichloropropene	5.2	U
79-00-5	1,1,2-Trichloroethane	5.2	U
142-28-9	1,3-Dichloropropane	5.2	U

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SG-115 6.5-7.0

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0437 Mod. Ref No.: _____ SDG No.: SL0437
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0437-02A
Sample wt/vol: 5.90 (g/mL) G Lab File ID: V1M5417.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/05/2012
% Moisture: not dec. 18 Date Analyzed: 03/07/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	11	
591-78-6	2-Hexanone	5.2	U
124-48-1	Dibromochloromethane	5.2	U
106-93-4	1,2-Dibromoethane	5.2	U
108-90-7	Chlorobenzene	5.2	U
630-20-6	1,1,1,2-Tetrachloroethane	5.2	U
100-41-4	Ethylbenzene	5.2	U
1330-20-7	m,p-Xylene	5.2	U
95-47-6	o-Xylene	5.2	U
1330-20-7	Xylene (Total)	5.2	U
100-42-5	Styrene	5.2	U
75-25-2	Bromoform	5.2	U
98-82-8	Isopropylbenzene	5.2	U
79-34-5	1,1,2,2-Tetrachloroethane	5.2	U
108-86-1	Bromobenzene	5.2	U
96-18-4	1,2,3-Trichloropropane	5.2	U
103-65-1	n-Propylbenzene	5.2	U
95-49-8	2-Chlorotoluene	5.2	U
108-67-8	1,3,5-Trimethylbenzene	5.2	U
106-43-4	4-Chlorotoluene	5.2	U
98-06-6	tert-Butylbenzene	5.2	U
95-63-6	1,2,4-Trimethylbenzene	5.2	U
135-98-8	sec-Butylbenzene	5.2	U
99-87-6	4-Isopropyltoluene	5.2	U
541-73-1	1,3-Dichlorobenzene	5.2	U
106-46-7	1,4-Dichlorobenzene	5.2	U
104-51-8	n-Butylbenzene	5.2	U
95-50-1	1,2-Dichlorobenzene	5.2	U
96-12-8	1,2-Dibromo-3-chloropropane	5.2	U
120-82-1	1,2,4-Trichlorobenzene	5.2	U
87-68-3	Hexachlorobutadiene	5.2	U
87-61-6	1,2,3-Trichlorobenzene	5.2	U
91-20-3	Naphthalene	5.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.2	U
123-91-1	1,4-Dioxane	100	U R

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SG-115 6.5-7.0

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0437 Mod. Ref No.: _____ SDG No.: SL0437
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0437-02A
Sample wt/vol: 5.90 (g/mL) G Lab File ID: V1M5417.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/05/2012
% Moisture: not dec. 18 Date Analyzed: 03/07/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
110-82-7	Cyclohexane	5.2	U J
79-20-9	Methyl acetate	5.2	U J
108-87-2	Methylcyclohexane	5.2	U J

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1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SG-115 6.5-7.0

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L0437 Mod. Ref No.: _____ SDG No.: SL0437

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0437-02A

Sample wt/vol: 5.90 (g/mL) G Lab File ID: V1M5417.D

Level: (TRACE or LOW/MED) LOW Date Received: 03/05/2012

% Moisture: not dec. 18 Date Analyzed: 03/07/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SG-116 4.0-4.5

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0437 Mod. Ref No.: _____ SDG No.: SL0437
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0437-04A
Sample wt/vol: 5.10 (g/mL) G Lab File ID: V1M5419.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/05/2012
% Moisture: not dec. 9.3 Date Analyzed: 03/07/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	5.4	U
74-87-3	Chloromethane	5.4	U
75-01-4	Vinyl chloride	5.4	U
74-83-9	Bromomethane	5.4	U
75-00-3	Chloroethane	5.4	U
75-69-4	Trichlorofluoromethane	5.4	U J
75-35-4	1,1-Dichloroethene	5.4	U
67-64-1	Acetone	5.4	U R
74-88-4	Iodomethane	5.4	U
75-15-0	Carbon disulfide	5.4	U
75-09-2	Methylene chloride	5.4	U
156-60-5	trans-1,2-Dichloroethene	5.4	U
1634-04-4	Methyl tert-butyl ether	5.4	U
75-34-3	1,1-Dichloroethane	5.4	U
108-05-4	Vinyl acetate	5.4	U
78-93-3	2-Butanone	5.4	U R
156-59-2	cis-1,2-Dichloroethene	5.4	U
594-20-7	2,2-Dichloropropane	5.4	U
74-97-5	Bromochloromethane	5.4	U J
67-66-3	Chloroform	5.4	U
71-55-6	1,1,1-Trichloroethane	5.4	U J
563-58-6	1,1-Dichloropropene	5.4	U J
56-23-5	Carbon tetrachloride	5.4	U J
107-06-2	1,2-Dichloroethane	5.4	U
71-43-2	Benzene	5.4	U
79-01-6	Trichloroethene	5.4	U
78-87-5	1,2-Dichloropropane	5.4	U
74-95-3	Dibromomethane	5.4	U
75-27-4	Bromodichloromethane	5.4	U
10061-01-5	cis-1,3-Dichloropropene	5.4	U
108-10-1	4-Methyl-2-pentanone	5.4	U
108-88-3	Toluene	5.4	U
10061-02-6	trans-1,3-Dichloropropene	5.4	U
79-00-5	1,1,2-Trichloroethane	5.4	U
142-28-9	1,3-Dichloropropane	5.4	U

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SG-116 4.0-4.5

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0437 Mod. Ref No.: _____ SDG No.: SL0437
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0437-04A
Sample wt/vol: 5.10 (g/mL) G Lab File ID: V1M5419.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/05/2012
% Moisture: not dec. 9.3 Date Analyzed: 03/07/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	4.3	J
591-78-6	2-Hexanone	5.4	U
124-48-1	Dibromochloromethane	5.4	U
106-93-4	1,2-Dibromoethane	5.4	U
108-90-7	Chlorobenzene	5.4	U
630-20-6	1,1,1,2-Tetrachloroethane	5.4	U
100-41-4	Ethylbenzene	5.4	U
1330-20-7	m,p-Xylene	5.4	U
95-47-6	o-Xylene	5.4	U
1330-20-7	Xylene (Total)	5.4	U
100-42-5	Styrene	5.4	U
75-25-2	Bromoform	5.4	U
98-82-8	Isopropylbenzene	5.4	U
79-34-5	1,1,2,2-Tetrachloroethane	5.4	U
108-86-1	Bromobenzene	5.4	U
96-18-4	1,2,3-Trichloropropane	5.4	U
103-65-1	n-Propylbenzene	5.4	U
95-49-8	2-Chlorotoluene	5.4	U
108-67-8	1,3,5-Trimethylbenzene	5.4	U
106-43-4	4-Chlorotoluene	5.4	U
98-06-6	tert-Butylbenzene	5.4	U
95-63-6	1,2,4-Trimethylbenzene	5.4	U
135-98-8	sec-Butylbenzene	5.4	U
99-87-6	4-Isopropyltoluene	5.4	U
541-73-1	1,3-Dichlorobenzene	5.4	U
106-46-7	1,4-Dichlorobenzene	5.4	U
104-51-8	n-Butylbenzene	5.4	U
95-50-1	1,2-Dichlorobenzene	5.4	U
96-12-8	1,2-Dibromo-3-chloropropane	5.4	U
120-82-1	1,2,4-Trichlorobenzene	5.4	U
87-68-3	Hexachlorobutadiene	5.4	U
87-61-6	1,2,3-Trichlorobenzene	5.4	U
91-20-3	Naphthalene	5.4	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.4	U
123-91-1	1,4-Dioxane	110	U R

4/9/12
2

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SG-116 4.0-4.5

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L0437 Mod. Ref No.: _____ SDG No.: SL0437
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0437-04A
 Sample wt/vol: 5.10 (g/mL) G Lab File ID: V1M5419.D
 Level: (TRACE/LOW/MED) LOW Date Received: 03/05/2012
 % Moisture: not dec. 9.3 Date Analyzed: 03/07/2012
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/KG	
110-82-7	Cyclohexane	5.4	U	J
79-20-9	Methyl acetate	5.4	U	J
108-87-2	Methylcyclohexane	5.4	U	J

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1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SG-116 4.0-4.5

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L0437 Mod. Ref No.: _____ SDG No.: SL0437

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0437-04A

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V1M5419.D

Level: (TRACE or LOW/MED) LOW Date Received: 03/05/2012

% Moisture: not dec. 9.3 Date Analyzed: 03/07/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SG-117 3.0-3.5

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0437 Mod. Ref No.: _____ SDG No.: SL0437
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0437-05A
Sample wt/vol: 5.30 (g/mL) G Lab File ID: V1M5420.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/05/2012
% Moisture: not dec. 11 Date Analyzed: 03/07/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	<u>Q</u>
75-71-8	Dichlorodifluoromethane	5.3	U
74-87-3	Chloromethane	5.3	U
75-01-4	Vinyl chloride	5.3	U
74-83-9	Bromomethane	5.3	U
75-00-3	Chloroethane	5.3	U
75-69-4	Trichlorofluoromethane	5.3	U J
75-35-4	1,1-Dichloroethene	5.3	U
67-64-1	Acetone	5.3	U R
74-88-4	Iodomethane	5.3	U
75-15-0	Carbon disulfide	5.3	U
75-09-2	Methylene chloride	5.3	U
156-60-5	trans-1,2-Dichloroethene	5.3	U
1634-04-4	Methyl tert-butyl ether	5.3	U
75-34-3	1,1-Dichloroethane	5.3	U
108-05-4	Vinyl acetate	5.3	U
78-93-3	2-Butanone	5.3	U R
156-59-2	cis-1,2-Dichloroethene	5.3	U
594-20-7	2,2-Dichloropropane	5.3	U
74-97-5	Bromochloromethane	5.3	U J
67-66-3	Chloroform	5.3	U
71-55-6	1,1,1-Trichloroethane	5.3	U J
563-58-6	1,1-Dichloropropene	5.3	U J
56-23-5	Carbon tetrachloride	5.3	U J
107-06-2	1,2-Dichloroethane	5.3	U
71-43-2	Benzene	5.3	U
79-01-6	Trichloroethene	5.3	U
78-87-5	1,2-Dichloropropane	5.3	U
74-95-3	Dibromomethane	5.3	U
75-27-4	Bromodichloromethane	5.3	U
10061-01-5	cis-1,3-Dichloropropene	5.3	U
108-10-1	4-Methyl-2-pentanone	5.3	U
108-88-3	Toluene	5.3	U
10061-02-6	trans-1,3-Dichloropropene	5.3	U
79-00-5	1,1,2-Trichloroethane	5.3	U
142-28-9	1,3-Dichloropropane	5.3	U

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SG-117 3.0-3.5

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0437 Mod. Ref No.: _____ SDG No.: SL0437
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0437-05A
Sample wt/vol: 5.30 (g/mL) G Lab File ID: V1M5420.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/05/2012
% Moisture: not dec. 11 Date Analyzed: 03/07/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	2.8	J
591-78-6	2-Hexanone	5.3	U
124-48-1	Dibromochloromethane	5.3	U
106-93-4	1,2-Dibromoethane	5.3	U
108-90-7	Chlorobenzene	5.3	U
630-20-6	1,1,1,2-Tetrachloroethane	5.3	U
100-41-4	Ethylbenzene	5.3	U
1330-20-7	m,p-Xylene	5.3	U
95-47-6	o-Xylene	5.3	U
1330-20-7	Xylene (Total)	5.3	U
100-42-5	Styrene	5.3	U
75-25-2	Bromoform	5.3	U
98-82-8	Isopropylbenzene	5.3	U
79-34-5	1,1,2,2-Tetrachloroethane	5.3	U
108-86-1	Bromobenzene	5.3	U
96-18-4	1,2,3-Trichloropropane	5.3	U
103-65-1	n-Propylbenzene	5.3	U
95-49-8	2-Chlorotoluene	5.3	U
108-67-8	1,3,5-Trimethylbenzene	5.3	U
106-43-4	4-Chlorotoluene	5.3	U
98-06-6	tert-Butylbenzene	5.3	U
95-63-6	1,2,4-Trimethylbenzene	5.3	U
135-98-8	sec-Butylbenzene	5.3	U
99-87-6	4-Isopropyltoluene	5.3	U
541-73-1	1,3-Dichlorobenzene	5.3	U
106-46-7	1,4-Dichlorobenzene	5.3	U
104-51-8	n-Butylbenzene	5.3	U
95-50-1	1,2-Dichlorobenzene	5.3	U
96-12-8	1,2-Dibromo-3-chloropropane	5.3	U
120-82-1	1,2,4-Trichlorobenzene	5.3	U
87-68-3	Hexachlorobutadiene	5.3	U
87-61-6	1,2,3-Trichlorobenzene	5.3	U
91-20-3	Naphthalene	5.3	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.3	U
123-91-1	1,4-Dioxane	110	U R

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SG-117 3.0-3.5

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0437 Mod. Ref No.: _____ SDG No.: SL0437
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0437-05A
Sample wt/vol: 5.30 (g/mL) G Lab File ID: V1M5420.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/05/2012
% Moisture: not dec. 11 Date Analyzed: 03/07/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/KG	
110-82-7	Cyclohexane	5.3	U	J
79-20-9	Methyl acetate	5.3	U	J
108-87-2	Methylcyclohexane	5.3	U	J

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2

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SG-117 3.0-3.5

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L0437 Mod. Ref No.: _____ SDG No.: SL0437

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0437-05A

Sample wt/vol: 5.30 (g/mL) G Lab File ID: V1M5420.D

Level: (TRACE or LOW/MED) LOW Date Received: 03/05/2012

% Moisture: not dec. 11 Date Analyzed: 03/07/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SG-118 6.5-7.0

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0437 Mod. Ref No.: _____ SDG No.: SL0437
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0437-01A
Sample wt/vol: 5.60 (g/mL) G Lab File ID: V1M5416.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/05/2012
% Moisture: not dec. 11 Date Analyzed: 03/07/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U J
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U R
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U J
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U J
563-58-6	1,1-Dichloropropene	5.0	U J
56-23-5	Carbon tetrachloride	5.0	U J
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

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2

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SG-118 6.5-7.0

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0437 Mod. Ref No.: _____ SDG No.: SL0437
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0437-01A
Sample wt/vol: 5.60 (g/mL) G Lab File ID: V1M5416.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/05/2012
% Moisture: not dec. 11 Date Analyzed: 03/07/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SG-118 6.5-7.0

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L0437 Mod. Ref No.: _____ SDG No.: SL0437
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0437-01A
 Sample wt/vol: 5.60 (g/mL) G Lab File ID: V1M5416.D
 Level: (TRACE/LOW/MED) LOW Date Received: 03/05/2012
 % Moisture: not dec. 11 Date Analyzed: 03/07/2012
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/KG	
110-82-7	Cyclohexane	5.0	U	J
79-20-9	Methyl acetate	5.0	U	J
108-87-2	Methylcyclohexane	5.0	U	J

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2

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SG-118 6.5-7.0

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0437 Mod. Ref No.: _____ SDG No.: SL0437
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0437-01A
Sample wt/vol: 5.60 (g/mL) G Lab File ID: V1M5416.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/05/2012
% Moisture: not dec. 11 Date Analyzed: 03/07/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SG-119 3.5-4

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0437 Mod. Ref No.: _____ SDG No.: SL0437
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0437-06A
Sample wt/vol: 5.10 (g/mL) G Lab File ID: V1M5421.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/05/2012
% Moisture: not dec. 15 Date Analyzed: 03/07/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	5.8	U
74-87-3	Chloromethane	5.8	U
75-01-4	Vinyl chloride	5.8	U
74-83-9	Bromomethane	5.8	U
75-00-3	Chloroethane	5.8	U
75-69-4	Trichlorofluoromethane	5.8	U J
75-35-4	1,1-Dichloroethene	5.8	U
67-64-1	Acetone	5.8	U R
74-88-4	Iodomethane	5.8	U
75-15-0	Carbon disulfide	5.8	U
75-09-2	Methylene chloride	5.8	U
156-60-5	trans-1,2-Dichloroethene	5.8	U
1634-04-4	Methyl tert-butyl ether	5.8	U
75-34-3	1,1-Dichloroethane	5.8	U
108-05-4	Vinyl acetate	5.8	U
78-93-3	2-Butanone	5.8	U R
156-59-2	cis-1,2-Dichloroethene	5.8	U
594-20-7	2,2-Dichloropropane	5.8	U
74-97-5	Bromochloromethane	5.8	U J
67-66-3	Chloroform	5.8	U
71-55-6	1,1,1-Trichloroethane	5.8	U J
563-58-6	1,1-Dichloropropene	5.8	U J
56-23-5	Carbon tetrachloride	5.8	U J
107-06-2	1,2-Dichloroethane	5.8	U
71-43-2	Benzene	5.8	U
79-01-6	Trichloroethene	5.8	U
78-87-5	1,2-Dichloropropane	5.8	U
74-95-3	Dibromomethane	5.8	U
75-27-4	Bromodichloromethane	5.8	U
10061-01-5	cis-1,3-Dichloropropene	5.8	U
108-10-1	4-Methyl-2-pentanone	5.8	U
108-88-3	Toluene	5.8	U
10061-02-6	trans-1,3-Dichloropropene	5.8	U
79-00-5	1,1,2-Trichloroethane	5.8	U
142-28-9	1,3-Dichloropropane	5.8	U

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SG-119 3.5-4

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0437 Mod. Ref No.: _____ SDG No.: SL0437
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0437-06A
Sample wt/vol: 5.10 (g/mL) G Lab File ID: V1M5421.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/05/2012
% Moisture: not dec. 15 Date Analyzed: 03/07/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	5.8	U
591-78-6	2-Hexanone	5.8	U
124-48-1	Dibromochloromethane	5.8	U
106-93-4	1,2-Dibromoethane	5.8	U
108-90-7	Chlorobenzene	5.8	U
630-20-6	1,1,1,2-Tetrachloroethane	5.8	U
100-41-4	Ethylbenzene	5.8	U
1330-20-7	m,p-Xylene	5.8	U
95-47-6	o-Xylene	5.8	U
1330-20-7	Xylene (Total)	5.8	U
100-42-5	Styrene	5.8	U
75-25-2	Bromoform	5.8	U
98-82-8	Isopropylbenzene	5.8	U
79-34-5	1,1,2,2-Tetrachloroethane	5.8	U
108-86-1	Bromobenzene	5.8	U
96-18-4	1,2,3-Trichloropropane	5.8	U
103-65-1	n-Propylbenzene	5.8	U
95-49-8	2-Chlorotoluene	5.8	U
108-67-8	1,3,5-Trimethylbenzene	5.8	U
106-43-4	4-Chlorotoluene	5.8	U
98-06-6	tert-Butylbenzene	5.8	U
95-63-6	1,2,4-Trimethylbenzene	5.8	U
135-98-8	sec-Butylbenzene	5.8	U
99-87-6	4-Isopropyltoluene	5.8	U
541-73-1	1,3-Dichlorobenzene	5.8	U
106-46-7	1,4-Dichlorobenzene	5.8	U
104-51-8	n-Butylbenzene	5.8	U
95-50-1	1,2-Dichlorobenzene	5.8	U
96-12-8	1,2-Dibromo-3-chloropropane	5.8	U
120-82-1	1,2,4-Trichlorobenzene	5.8	U
87-68-3	Hexachlorobutadiene	5.8	U
87-61-6	1,2,3-Trichlorobenzene	5.8	U
91-20-3	Naphthalene	5.8	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.8	U
123-91-1	1,4-Dioxane	120	U R

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SG-119 3.5-4

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0437 Mod. Ref No.: _____ SDG No.: SL0437
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0437-06A
Sample wt/vol: 5.10 (g/mL) G Lab File ID: V1M5421.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/05/2012
% Moisture: not dec. 15 Date Analyzed: 03/07/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
110-82-7	Cyclohexane	5.8	U J
79-20-9	Methyl acetate	5.8	U J
108-87-2	Methylcyclohexane	5.8	U J

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1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SG-119 3.5-4

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L0437 Mod. Ref No.: _____ SDG No.: SL0437

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0437-06A

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V1M5421.D

Level: (TRACE or LOW/MED) LOW Date Received: 03/05/2012

% Moisture: not dec. 15 Date Analyzed: 03/07/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SG-120 2-2.5

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0460 Mod. Ref No.: _____ SDG No.: SL0460
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0460-02A
Sample wt/vol: 5.20 (g/mL) G Lab File ID: V1M5486.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/08/2012
% Moisture: not dec. 13 Date Analyzed: 03/09/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
75-71-8	Dichlorodifluoromethane	5.5	U
74-87-3	Chloromethane	5.5	U
75-01-4	Vinyl chloride	5.5	U
74-83-9	Bromomethane	5.5	U
75-00-3	Chloroethane	5.5	U
75-69-4	Trichlorofluoromethane	5.5	U
75-35-4	1,1-Dichloroethene	5.5	U
67-64-1	Acetone	5.5	U <i>R</i>
74-88-4	Iodomethane	5.5	U <i>J</i>
75-15-0	Carbon disulfide	5.5	U
75-09-2	Methylene chloride	5.5	U
156-60-5	trans-1,2-Dichloroethene	5.5	U
1634-04-4	Methyl tert-butyl ether	5.5	U
75-34-3	1,1-Dichloroethane	5.5	U
108-05-4	Vinyl acetate	5.5	U
78-93-3	2-Butanone	5.5	U <i>R</i>
156-59-2	cis-1,2-Dichloroethene	5.5	U
594-20-7	2,2-Dichloropropane	5.5	U
74-97-5	Bromochloromethane	5.5	U
67-66-3	Chloroform	5.5	U
71-55-6	1,1,1-Trichloroethane	5.5	U
563-58-6	1,1-Dichloropropene	5.5	U
56-23-5	Carbon tetrachloride	5.5	U
107-06-2	1,2-Dichloroethane	5.5	U
71-43-2	Benzene	5.5	U
79-01-6	Trichloroethene	5.5	U
78-87-5	1,2-Dichloropropane	5.5	U
74-95-3	Dibromomethane	5.5	U
75-27-4	Bromodichloromethane	5.5	U
10061-01-5	cis-1,3-Dichloropropene	5.5	U
108-10-1	4-Methyl-2-pentanone	5.5	U
108-88-3	Toluene	5.5	U
10061-02-6	trans-1,3-Dichloropropene	5.5	U
79-00-5	1,1,2-Trichloroethane	5.5	U
142-28-9	1,3-Dichloropropane	5.5	U

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SG-120 2-2.5

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0460 Mod. Ref No.: _____ SDG No.: SL0460
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0460-02A
Sample wt/vol: 5.20 (g/mL) G Lab File ID: V1M5486.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/08/2012
% Moisture: not dec. 13 Date Analyzed: 03/09/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
127-18-4	Tetrachloroethene	5.5	U
591-78-6	2-Hexanone	5.5	U
124-48-1	Dibromochloromethane	5.5	U
106-93-4	1,2-Dibromoethane	5.5	U
108-90-7	Chlorobenzene	5.5	U
630-20-6	1,1,1,2-Tetrachloroethane	5.5	U
100-41-4	Ethylbenzene	5.5	U
1330-20-7	m,p-Xylene	5.5	U
95-47-6	o-Xylene	5.5	U
1330-20-7	Xylene (Total)	5.5	U
100-42-5	Styrene	5.5	U
75-25-2	Bromoform	5.5	U
98-82-8	Isopropylbenzene	5.5	U
79-34-5	1,1,2,2-Tetrachloroethane	5.5	U
108-86-1	Bromobenzene	5.5	U
96-18-4	1,2,3-Trichloropropane	5.5	U
103-65-1	n-Propylbenzene	5.5	U
95-49-8	2-Chlorotoluene	5.5	U
108-67-8	1,3,5-Trimethylbenzene	5.5	U
106-43-4	4-Chlorotoluene	5.5	U
98-06-6	tert-Butylbenzene	5.5	U
95-63-6	1,2,4-Trimethylbenzene	5.5	U
135-98-8	sec-Butylbenzene	5.5	U
99-87-6	4-Isopropyltoluene	5.5	U
541-73-1	1,3-Dichlorobenzene	5.5	U
106-46-7	1,4-Dichlorobenzene	5.5	U
104-51-8	n-Butylbenzene	5.5	U
95-50-1	1,2-Dichlorobenzene	5.5	U
96-12-8	1,2-Dibromo-3-chloropropane	5.5	U
120-82-1	1,2,4-Trichlorobenzene	5.5	U
87-68-3	Hexachlorobutadiene	5.5	U
87-61-6	1,2,3-Trichlorobenzene	5.5	U
91-20-3	Naphthalene	5.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.5	U
123-91-1	1,4-Dioxane	110	U

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SG-120 2-2.5

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L0460 Mod. Ref No.: _____ SDG No.: SL0460
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0460-02A
 Sample wt/vol: 5.20 (g/mL) G Lab File ID: V1M5486.D
 Level: (TRACE/LOW/MED) LOW Date Received: 03/08/2012
 % Moisture: not dec. 13 Date Analyzed: 03/09/2012
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
110-82-7	Cyclohexane	5.5	U
79-20-9	Methyl acetate	5.5	U
108-87-2	Methylcyclohexane	5.5	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SG-120 2-2.5

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0460 Mod. Ref No.: _____ SDG No.: SL0460
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0460-02A
Sample wt/vol: 5.20 (g/mL) G Lab File ID: V1M5486.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/08/2012
% Moisture: not dec. 13 Date Analyzed: 03/09/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SG-121 2-2.5

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0460 Mod. Ref No.: _____ SDG No.: SL0460
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0460-03A
Sample wt/vol: 5.40 (g/mL) G Lab File ID: V1M5487.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/08/2012
% Moisture: not dec. 20 Date Analyzed: 03/09/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	5.8	U
74-87-3	Chloromethane	5.8	U
75-01-4	Vinyl chloride	5.8	U
74-83-9	Bromomethane	5.8	U
75-00-3	Chloroethane	5.8	U
75-69-4	Trichlorofluoromethane	5.8	U
75-35-4	1,1-Dichloroethene	5.8	U
67-64-1	Acetone	5.8	U
74-88-4	Iodomethane	5.8	U
75-15-0	Carbon disulfide	5.8	U
75-09-2	Methylene chloride	6.3	
156-60-5	trans-1,2-Dichloroethene	5.8	U
1634-04-4	Methyl tert-butyl ether	5.8	U
75-34-3	1,1-Dichloroethane	5.8	U
108-05-4	Vinyl acetate	5.8	U
78-93-3	2-Butanone	5.8	U
156-59-2	cis-1,2-Dichloroethene	5.8	U
594-20-7	2,2-Dichloropropane	5.8	U
74-97-5	Bromochloromethane	5.8	U
67-66-3	Chloroform	5.8	U
71-55-6	1,1,1-Trichloroethane	5.8	U
563-58-6	1,1-Dichloropropene	5.8	U
56-23-5	Carbon tetrachloride	5.8	U
107-06-2	1,2-Dichloroethane	5.8	U
71-43-2	Benzene	5.8	U
79-01-6	Trichloroethene	5.8	U
78-87-5	1,2-Dichloropropane	5.8	U
74-95-3	Dibromomethane	5.8	U
75-27-4	Bromodichloromethane	5.8	U
10061-01-5	cis-1,3-Dichloropropene	5.8	U
108-10-1	4-Methyl-2-pentanone	5.8	U
108-88-3	Toluene	5.8	U
10061-02-6	trans-1,3-Dichloropropene	5.8	U
79-00-5	1,1,2-Trichloroethane	5.8	U
142-28-9	1,3-Dichloropropane	5.8	U

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SG-121 2-2.5

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0460 Mod. Ref No.: _____ SDG No.: SL0460
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0460-03A
Sample wt/vol: 5.40 (g/mL) G Lab File ID: V1M5487.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/08/2012
% Moisture: not dec. 20 Date Analyzed: 03/09/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	5.8	U
591-78-6	2-Hexanone	5.8	U
124-48-1	Dibromochloromethane	5.8	U
106-93-4	1,2-Dibromoethane	5.8	U
108-90-7	Chlorobenzene	5.8	U
630-20-6	1,1,1,2-Tetrachloroethane	5.8	U
100-41-4	Ethylbenzene	5.8	U
1330-20-7	m,p-Xylene	5.8	U
95-47-6	o-Xylene	5.8	U
1330-20-7	Xylene (Total)	5.8	U
100-42-5	Styrene	5.8	U
75-25-2	Bromoform	5.8	U
98-82-8	Isopropylbenzene	5.8	U
79-34-5	1,1,2,2-Tetrachloroethane	5.8	U
108-86-1	Bromobenzene	5.8	U
96-18-4	1,2,3-Trichloropropane	5.8	U
103-65-1	n-Propylbenzene	5.8	U
95-49-8	2-Chlorotoluene	5.8	U
108-67-8	1,3,5-Trimethylbenzene	5.8	U
106-43-4	4-Chlorotoluene	5.8	U
98-06-6	tert-Butylbenzene	5.8	U
95-63-6	1,2,4-Trimethylbenzene	5.8	U
135-98-8	sec-Butylbenzene	5.8	U
99-87-6	4-Isopropyltoluene	5.8	U
541-73-1	1,3-Dichlorobenzene	5.8	U
106-46-7	1,4-Dichlorobenzene	5.8	U
104-51-8	n-Butylbenzene	5.8	U
95-50-1	1,2-Dichlorobenzene	5.8	U
96-12-8	1,2-Dibromo-3-chloropropane	5.8	U
120-82-1	1,2,4-Trichlorobenzene	5.8	U
87-68-3	Hexachlorobutadiene	5.8	U
87-61-6	1,2,3-Trichlorobenzene	5.8	U
91-20-3	Naphthalene	5.8	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.8	U
123-91-1	1,4-Dioxane	120	U

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2

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SG-121 2-2.5

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L0460 Mod. Ref No.: _____ SDG No.: SL0460
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0460-03A
 Sample wt/vol: 5.40 (g/mL) G Lab File ID: V1M5487.D
 Level: (TRACE/LOW/MED) LOW Date Received: 03/08/2012
 % Moisture: not dec. 20 Date Analyzed: 03/09/2012
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
110-82-7	Cyclohexane	5.8	U
79-20-9	Methyl acetate	5.8	U
108-87-2	Methylcyclohexane	5.8	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SG-121 2-2.5

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0460 Mod. Ref No.: _____ SDG No.: SL0460
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0460-03A
Sample wt/vol: 5.40 (g/mL) G Lab File ID: V1M5487.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/08/2012
% Moisture: not dec. 20 Date Analyzed: 03/09/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SG-122 2-2.5

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0460 Mod. Ref No.: _____ SDG No.: SL0460
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0460-01A
Sample wt/vol: 5.40 (g/mL) G Lab File ID: V1M5485.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/08/2012
% Moisture: not dec. 14 Date Analyzed: 03/09/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	5.4	U
74-87-3	Chloromethane	5.4	U
75-01-4	Vinyl chloride	5.4	U
74-83-9	Bromomethane	5.4	U
75-00-3	Chloroethane	5.4	U
75-69-4	Trichlorofluoromethane	5.4	U
75-35-4	1,1-Dichloroethene	5.4	U
67-64-1	Acetone	5.4	U R
74-88-4	Iodomethane	5.4	U J
75-15-0	Carbon disulfide	5.4	U
75-09-2	Methylene chloride	5.4	U
156-60-5	trans-1,2-Dichloroethene	5.4	U
1634-04-4	Methyl tert-butyl ether	5.4	U
75-34-3	1,1-Dichloroethane	5.4	U
108-05-4	Vinyl acetate	5.4	U
78-93-3	2-Butanone	5.4	U R
156-59-2	cis-1,2-Dichloroethene	5.4	U
594-20-7	2,2-Dichloropropane	5.4	U
74-97-5	Bromochloromethane	5.4	U
67-66-3	Chloroform	5.4	U
71-55-6	1,1,1-Trichloroethane	5.4	U
563-58-6	1,1-Dichloropropene	5.4	U
56-23-5	Carbon tetrachloride	5.4	U
107-06-2	1,2-Dichloroethane	5.4	U
71-43-2	Benzene	5.4	U
79-01-6	Trichloroethene	5.4	U
78-87-5	1,2-Dichloropropane	5.4	U
74-95-3	Dibromomethane	5.4	U
75-27-4	Bromodichloromethane	5.4	U
10061-01-5	cis-1,3-Dichloropropene	5.4	U
108-10-1	4-Methyl-2-pentanone	5.4	U
108-88-3	Toluene	5.4	U
10061-02-6	trans-1,3-Dichloropropene	5.4	U
79-00-5	1,1,2-Trichloroethane	5.4	U
142-28-9	1,3-Dichloropropane	5.4	U

4/6/12
a

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SG-122 2-2.5

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0460 Mod. Ref No.: _____ SDG No.: SL0460
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0460-01A
Sample wt/vol: 5.40 (g/mL) G Lab File ID: V1M5485.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/08/2012
% Moisture: not dec. 14 Date Analyzed: 03/09/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	5.4	U
591-78-6	2-Hexanone	5.4	U
124-48-1	Dibromochloromethane	5.4	U
106-93-4	1,2-Dibromoethane	5.4	U
108-90-7	Chlorobenzene	5.4	U
630-20-6	1,1,1,2-Tetrachloroethane	5.4	U
100-41-4	Ethylbenzene	5.4	U
1330-20-7	m,p-Xylene	5.4	U
95-47-6	o-Xylene	5.4	U
1330-20-7	Xylene (Total)	5.4	U
100-42-5	Styrene	5.4	U
75-25-2	Bromoform	5.4	U
98-82-8	Isopropylbenzene	5.4	U
79-34-5	1,1,2,2-Tetrachloroethane	5.4	U
108-86-1	Bromobenzene	5.4	U
96-18-4	1,2,3-Trichloropropane	5.4	U
103-65-1	n-Propylbenzene	5.4	U
95-49-8	2-Chlorotoluene	5.4	U
108-67-8	1,3,5-Trimethylbenzene	5.4	U
106-43-4	4-Chlorotoluene	5.4	U
98-06-6	tert-Butylbenzene	5.4	U
95-63-6	1,2,4-Trimethylbenzene	5.4	U
135-98-8	sec-Butylbenzene	5.4	U
99-87-6	4-Isopropyltoluene	5.4	U
541-73-1	1,3-Dichlorobenzene	5.4	U
106-46-7	1,4-Dichlorobenzene	5.4	U
104-51-8	n-Butylbenzene	5.4	U
95-50-1	1,2-Dichlorobenzene	5.4	U
96-12-8	1,2-Dibromo-3-chloropropane	5.4	U
120-82-1	1,2,4-Trichlorobenzene	5.4	U
87-68-3	Hexachlorobutadiene	5.4	U
87-61-6	1,2,3-Trichlorobenzene	5.4	U
91-20-3	Naphthalene	5.4	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.4	U
123-91-1	1,4-Dioxane	110	U

5.4 2.5 BJ 47

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SG-122 2-2.5

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L0460 Mod. Ref No.: _____ SDG No.: SL0460

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0460-01A

Sample wt/vol: 5.40 (g/mL) G Lab File ID: V1M5485.D

Level: (TRACE/LOW/MED) LOW Date Received: 03/08/2012

% Moisture: not dec. 14 Date Analyzed: 03/09/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
110-82-7	Cyclohexane	5.4	U
79-20-9	Methyl acetate	5.4	U
108-87-2	Methylcyclohexane	5.4	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SG-122 2-2.5

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L0460 Mod. Ref No.: _____ SDG No.: SL0460

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L0460-01A

Sample wt/vol: 5.40 (g/mL) G Lab File ID: V1M5485.D

Level: (TRACE or LOW/MED) LOW Date Received: 03/08/2012

% Moisture: not dec. 14 Date Analyzed: 03/09/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown (15.50198)	15.502	17	J
02	629-50-5	Tridecane	15.778	20	NJ
03	3891-98-3	Dodecane, 2,6,10-trimethyl-	16.566	23	NJ
04	629-59-4	Tetradecane	16.763	27	NJ
05		Unknown (16.90063)	16.901	29	J
06		Unknown (17.06807)	17.068	30	J
07		Unknown (17.26507)	17.265	19	J
08		Unknown (17.42265)	17.423	27	J
09		Unknown (17.73783)	17.738	21	J
10	112-95-8	Eicosane	17.836	16	NJ

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

IDW-SOIL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L0438 Mod. Ref No.: _____ SDG No.: SL0438

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0438-01B

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I5491.D

Level: (TRACE/LOW/MED) LOW Date Received: 03/05/2012

% Moisture: not dec. Date Analyzed: 03/06/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
75-01-4	Vinyl chloride	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
78-93-3	2-Butanone	5.0	U <i>R</i>
67-66-3	Chloroform	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
127-18-4	Tetrachloroethene	5.0	U
108-90-7	Chlorobenzene	5.0	U

4/9/12

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

IDW-SOIL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0438 Mod. Ref No.: _____ SDG No.: SL0438
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0438-01A
Sample wt/vol: 300 (g/mL) ML Lab File ID: S3H9191.D
Level: (LOW/MED) LOW Extraction: (Type) SEPF
% Moisture: _____ Decanted: (Y/N) _____ Date Received: 03/05/2012
Concentrated Extract Volume: 1000 (uL) Date Extracted: 03/08/2012
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 03/09/2012
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
106-46-7	1,4-Dichlorobenzene	33	U
95-48-7	2-Methylphenol	33	U
106-44-5	4-Methylphenol	33	U
67-72-1	Hexachloroethane	33	U
98-95-3	Nitrobenzene	33	U
87-68-3	Hexachlorobutadiene	33	U
88-06-2	2,4,6-Trichlorophenol	33	U
95-95-4	2,4,5-Trichlorophenol	67	U
121-14-2	2,4-Dinitrotoluene	33	U
118-74-1	Hexachlorobenzene	33	U
87-86-5	Pentachlorophenol	67	U
110-86-1	Pyridine	67	U <i>J</i>

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U.S. EPA - CLP

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EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

IDW-SOIL

Lab Name: Spectrum Analytical, Inc.Contract: 250626USLab Code: MITKEM

Case No.: _____

SAS No.: _____

SDG No.: SL0438Matrix (soil/water): WATERLab Sample ID: L0438-01Level (low/med): MEDDate Received: 03/05/2012% Solids: 0.0Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	626			P
7440-43-9	Cadmium	0.89	U		P
7440-47-3	Chromium	6.7	B U		P
7439-92-1	Lead	4.2	U		P
7439-97-6	Mercury	0.042	B BB		CV
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P

4/9/12
✓

Comments:

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

03/13/2012

Client: URS Corporation

Client Sample ID: IDW-SOIL

Lab ID: L0438-01

Project: Klink Cosmo Meeker

Collection Date: 03/02/12 10:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 1010 -- FLASHPOINT by Pensky-Martens Closed-Cup Method				SW1010_S
Ignitability	NO FLASH @ 140	200 °F	1 03/09/2012 9:30	R65782
SW846 7.3.3.2 -- Reactive Cyanide Released from Wastes				SW7.3.3.2_S
Reactive Cyanide	ND <i>UJ</i>	1.0 mg/Kg	1 03/12/2012 11:21	65042
SW846 7.3.4.2 -- Reactive Sulfide Released from Wastes				SW7.3.4.2_S
Reactive Sulfide	ND	1.0 mg/Kg	1 03/09/2012 13:18	65043
SW846 9045C -- Soil and Waste pH				SW9045_S
pH	6.3	1.0 S.U.	1 03/09/2012 9:30	R65783

4/9/12
✓

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

ATTACHMENT B

SUPPORT DOCUMENTATION

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Klink Cosmo Meeker

Laboratory Workorder / SDG #: L0414

SW846 8260C, VOC by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8260C

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW5035

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: V1
Instrument Type: GCMS-VOA
Description: HP5890 II / HP5972
Manufacturer: Hewlett-Packard
Model: 5890 / 5972

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits with the following exceptions. Please note that most test procedures allow for several compounds outside of the QC limits for the LCS, although this may indicate a bias for this specific compound.

LCS-64905 in batch 64905, Percent Recovery is outside QC Limits, recovery is below criteria for 1,4-Dioxane at 69% with criteria of (70-130).

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: DEC-088D 37-38 (L0414-01BMS) and DEC-088D 37-38 (L0414-01BMSD).

Percent recoveries were within the QC limits with the following exceptions:

DEC-088D 37-38 (L0414-01BMS) Percent Recovery is outside QC Limits, recovery is below criteria for 4-Isopropyltoluene at 72% with

criteria of (75-135), Cyclohexane at 66% with criteria of (70-130), Iodomethane at 67% with criteria of (70-126), m,p-Xylene at 79% with criteria of (80-125), Methylcyclohexane at 68% with criteria of (70-130) and Xylene (Total) at 79% with criteria of (83-125).

DEC-088D 37-38 (L0414-01BMSD) Percent Recovery is outside QC Limits, recovery is above criteria for 1,4-Dioxane at 148% with criteria of (70-130), recovery is below criteria for 1,1,2-Trichloro-1,2,2-trifluoroethane at 57% with criteria of (70-130), 1,1-Dichloroethane at 68% with criteria of (75-125), 1,1-Dichloropropene at 66% with criteria of (70-135), 4-Chlorotoluene at 70% with criteria of (75-125), 4-Isopropyltoluene at 66% with criteria of (75-135), Benzene at 70% with criteria of (75-125), Chlorobenzene at 72% with criteria of (75-125), Cyclohexane at 59% with criteria of (70-130), Ethylbenzene at 70% with criteria of (75-125), Isopropylbenzene at 68% with criteria of (75-130), m,p-Xylene at 70% with criteria of (80-125), Methylcyclohexane at 61% with criteria of (70-130), n-Butylbenzene at 62% with criteria of (65-140), o-Xylene at 74% with criteria of (75-125), Styrene at 72% with criteria of (75-125), Vinyl chloride at 56% with criteria of (60-125) and Xylene (Total) at 72% with criteria of (83-125).

Replicate RPDs were within the advisory QC limits.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

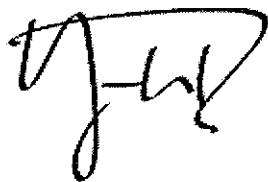
F. Dilutions:

No sample in this SDG required analysis at dilution.

G. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

A handwritten signature in black ink, appearing to be 'J. W.' or similar, written above the 'Signed:' line.

Signed: _____

Date: 3/18/2012 _____

3B - FORM III VOA-2
SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0414 Mod. Ref No.: _____ SDG No.: SL0414
Matrix Spike - EPA Sample No.: DEC-088D 37-38 Level: (LOW/MED) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS %REC	#	QC. LIMITS REC.
Dichlorodifluoromethane	49.8427	0.0000	35.8686	72		35-135
Chloromethane	49.8427	0.0000	36.3088	73		50-130
Vinyl chloride	49.8427	0.0000	32.1683	65		60-125
Bromomethane	49.8427	0.0000	35.1063	70		30-160
Chloroethane	49.8427	0.0000	30.8878	62		40-155
Trichlorofluoromethane	49.8427	0.0000	38.2529	77		25-185
1,1-Dichloroethene	49.8427	0.0000	40.9691	82		65-135
Acetone	49.8427	0.0000	43.1541	87		20-160
Iodomethane	49.8427	0.0000	33.4040	67	*	70-126
Carbon disulfide	49.8427	0.0000	35.1709	71		45-160
Methylene chloride	49.8427	0.0000	38.4081	77		55-140
trans-1,2-Dichloroethene	49.8427	0.0000	38.1439	77		65-135
Methyl tert-butyl ether	49.8427	0.0000	39.8019	80		75-126
1,1-Dichloroethane	49.8427	0.0000	37.5381	75		75-125
Vinyl acetate	49.8427	0.0000	38.2766	77		65-138
2-Butanone	49.8427	0.0000	39.6161	79		30-160
cis-1,2-Dichloroethene	49.8427	0.0000	40.3821	81		65-125
2,2-Dichloropropane	49.8427	0.0000	38.2873	77		65-135
Bromochloromethane	49.8427	0.0000	45.1339	91		70-125
Chloroform	49.8427	0.0000	41.8858	84		70-125
1,1,1-Trichloroethane	49.8427	0.0000	39.9494	80		70-135
1,1-Dichloropropene	49.8427	0.0000	38.7718	78		70-135
Carbon tetrachloride	49.8427	0.0000	38.5237	77		65-135
1,2-Dichloroethane	49.8427	0.0000	42.9307	86		70-135
Benzene	49.8427	0.0000	37.6450	76		75-125
Trichloroethene	49.8427	0.0000	42.2609	85		75-125
1,2-Dichloropropane	49.8427	0.0000	41.1274	83		70-120
Dibromomethane	49.8427	0.0000	43.2866	87		75-130
Bromodichloromethane	49.8427	0.0000	43.9702	88		70-130
cis-1,3-Dichloropropene	49.8427	0.0000	39.6760	80		70-125
4-Methyl-2-pentanone	49.8427	0.0000	41.7714	84		45-145
Toluene	49.8427	0.0000	39.1924	79		70-125
trans-1,3-Dichloropropene	49.8427	0.0000	42.9692	86		65-125
1,1,2-Trichloroethane	49.8427	0.0000	45.5639	91		60-125
1,3-Dichloropropane	49.8427	0.0000	40.5032	81		75-125
Tetrachloroethene	49.8427	0.0000	42.6726	86		65-140
2-Hexanone	49.8427	0.0000	34.9470	70		45-145
Dibromochloromethane	49.8427	0.0000	43.0378	86		65-130
1,2-Dibromoethane	49.8427	0.0000	44.0098	88		70-125
Chlorobenzene	49.8427	0.0000	39.9705	80		75-125
1,1,1,2-Tetrachloroethane	49.8427	0.0000	43.7652	88		75-125
Ethylbenzene	49.8427	0.0000	38.6850	78		75-125
m,p-Xylene	99.6854	0.0000	78.4639	79	*	80-125
o-Xylene	49.8427	0.0000	39.9667	80		75-125

3B - FORM III VOA-2
SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L0414 Mod. Ref No.: _____ SDG No.: SL0414
 Matrix Spike - EPA Sample No.: DEC-088D 37-38 Level: (LOW/MED) LOW

Xylene (Total)	149.5281	0.0000	118.4306	79	*	83-125
Styrene	49.8427	0.0000	38.6653	78		75-125
Bromoform	49.8427	0.0000	48.1347	97		55-135
Isopropylbenzene	49.8427	0.0000	37.9204	76		75-130
1,1,2,2-Tetrachloroethane	49.8427	0.0000	39.6863	80		55-130
Bromobenzene	49.8427	0.0000	41.5343	83		65-120
1,2,3-Trichloropropane	49.8427	0.0000	37.7143	76		65-130
n-Propylbenzene	49.8427	0.0000	36.7521	74		65-135
2-Chlorotoluene	49.8427	0.0000	38.4733	77		70-130
1,3,5-Trimethylbenzene	49.8427	0.0000	35.9364	72		65-135
4-Chlorotoluene	49.8427	0.0000	39.3785	79		75-125
tert-Butylbenzene	49.8427	0.0000	37.0364	74		65-130
1,2,4-Trimethylbenzene	49.8427	0.0000	37.2661	75		65-135
sec-Butylbenzene	49.8427	0.0000	34.8927	70		65-130
4-Isopropyltoluene	49.8427	0.0000	35.7471	72	*	75-135
1,3-Dichlorobenzene	49.8427	0.0000	40.8514	82		70-125
1,4-Dichlorobenzene	49.8427	0.0000	41.3137	83		70-125
n-Butylbenzene	49.8427	0.0000	32.4059	65		65-140
1,2-Dichlorobenzene	49.8427	0.0000	42.4527	85		75-120
1,2-Dibromo-3-chloropropan	49.8427	0.0000	39.4810	79		40-135
1,2,4-Trichlorobenzene	49.8427	0.0000	38.3006	77		65-130
Hexachlorobutadiene	49.8427	0.0000	35.8374	72		55-140
1,2,3-Trichlorobenzene	49.8427	0.0000	41.3630	83		60-135
Naphthalene	49.8427	0.0000	36.3117	73		40-125
1,1,2-Trichloro-1,2,2-trif	49.8427	0.0000	36.9302	74		70-130
1,4-Dioxane	996.8537	0.0000	1065.3555	107		70-130
Cyclohexane	49.8427	0.0000	33.0410	66	*	70-130
Methyl acetate	49.8427	0.0000	41.1020	82		70-130
Methylcyclohexane	49.8427	0.0000	33.7844	68	*	70-130

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD %REC	#	%RPD	QC LIMITS	
						RPD	REC.
Dichlorodifluoromethane	43.9291	26.1272	59		19	0-40	35-135
Chloromethane	43.9291	27.4987	63		15	0-40	50-130
Vinyl chloride	43.9291	24.6397	56	*	14	0-40	60-125
Bromomethane	43.9291	27.2002	62		13	0-40	30-160
Chloroethane	43.9291	25.5421	58		6	0-40	40-155
Trichlorofluoromethane	43.9291	29.0617	66		15	0-40	25-185
1,1-Dichloroethene	43.9291	29.5249	67		20	0-40	65-135
Acetone	43.9291	35.8064	82		6	0-40	20-160
Iodomethane	43.9291	30.9086	70		5	0-40	70-126
Carbon disulfide	43.9291	26.6307	61		15	0-40	45-160
Methylene chloride	43.9291	31.6997	72		7	0-40	55-140
trans-1,2-Dichloroethene	43.9291	30.0836	68		11	0-40	65-135
Methyl tert-butyl ether	43.9291	35.3870	81		1	0-40	75-126
1,1-Dichloroethane	43.9291	29.8333	68	*	10	0-40	75-125

3B - FORM III VOA-2
SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0414 Mod. Ref No.: _____ SDG No.: SL0414
Matrix Spike - EPA Sample No.: DEC-088D 37-38 Level: (LOW/MED) LOW

Vinyl acetate	43.9291	33.3558	76		1	0-40	65-138
2-Butanone	43.9291	34.0402	77		3	0-40	30-160
cis-1,2-Dichloroethene	43.9291	32.2615	73		10	0-40	65-125
2,2-Dichloropropane	43.9291	30.6003	70		10	0-40	65-135
Bromochloromethane	43.9291	39.1188	89		2	0-40	70-125
Chloroform	43.9291	34.1557	78		8	0-40	70-125
1,1,1-Trichloroethane	43.9291	32.3654	74		8	0-40	70-135
1,1-Dichloropropene	43.9291	28.9101	66	*	17	0-40	70-135
Carbon tetrachloride	43.9291	32.0188	73		6	0-40	65-135
1,2-Dichloroethane	43.9291	37.2105	85		2	0-40	70-135
Benzene	43.9291	30.6069	70	*	8	0-40	75-125
Trichloroethene	43.9291	33.7178	77		10	0-40	75-125
1,2-Dichloropropane	43.9291	34.2741	78		6	0-40	70-120
Dibromomethane	43.9291	38.4989	88		1	0-40	75-130
Bromodichloromethane	43.9291	37.3807	85		4	0-40	70-130
cis-1,3-Dichloropropene	43.9291	34.7232	79		1	0-40	70-125
4-Methyl-2-pentanone	43.9291	40.8871	93		10	0-40	45-145
Toluene	43.9291	32.7122	74		5	0-40	70-125
trans-1,3-Dichloropropene	43.9291	36.6201	83		3	0-40	65-125
1,1,2-Trichloroethane	43.9291	39.8254	91		1	0-40	60-125
1,3-Dichloropropane	43.9291	34.2395	78		4	0-40	75-125
Tetrachloroethene	43.9291	34.5530	79		8	0-40	65-140
2-Hexanone	43.9291	34.7880	79		12	0-40	45-145
Dibromochloromethane	43.9291	35.3395	80		7	0-40	65-130
1,2-Dibromoethane	43.9291	37.5059	85		3	0-40	70-125
Chlorobenzene	43.9291	31.4790	72	*	11	0-40	75-125
1,1,1,2-Tetrachloroethane	43.9291	35.0408	80		10	0-40	75-125
Ethylbenzene	43.9291	30.6769	70	*	11	0-40	75-125
m,p-Xylene	87.8583	61.9329	70	*	11	0-40	80-125
o-Xylene	43.9291	32.3765	74	*	8	0-40	75-125
Xylene (Total)	131.7874	94.3095	72	*	10	0-40	83-125
Styrene	43.9291	31.5445	72	*	8	0-40	75-125
Bromoform	43.9291	41.1290	94		3	0-40	55-135
Isopropylbenzene	43.9291	29.9448	68	*	11	0-40	75-130
1,1,2,2-Tetrachloroethane	43.9291	34.9276	80		0	0-40	55-130
Bromobenzene	43.9291	34.7743	79		5	0-40	65-120
1,2,3-Trichloropropane	43.9291	34.2160	78		3	0-40	65-130
n-Propylbenzene	43.9291	29.9232	68		8	0-40	65-135
2-Chlorotoluene	43.9291	31.8295	72		6	0-40	70-130
1,3,5-Trimethylbenzene	43.9291	30.7331	70		3	0-40	65-135
4-Chlorotoluene	43.9291	30.7555	70	*	12	0-40	75-125
tert-Butylbenzene	43.9291	30.8628	70		6	0-40	65-130
1,2,4-Trimethylbenzene	43.9291	30.2687	69		8	0-40	65-135
sec-Butylbenzene	43.9291	28.6569	65		7	0-40	65-130
4-Isopropyltoluene	43.9291	29.1767	66	*	8	0-40	75-135
1,3-Dichlorobenzene	43.9291	32.6783	74		10	0-40	70-125
1,4-Dichlorobenzene	43.9291	33.0045	75		10	0-40	70-125

3B - FORM III VOA-2
SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L0414 Mod. Ref No.: _____ SDG No.: SL0414
 Matrix Spike - EPA Sample No.: DEC-088D 37-38 Level: (LOW/MED) LOW

n-Butylbenzene	43.9291	27.3470	62	*	4	0-40	65-140
1,2-Dichlorobenzene	43.9291	35.3045	80		6	0-40	75-120
1,2-Dibromo-3-chloropropan	43.9291	34.2385	78		2	0-40	40-135
1,2,4-Trichlorobenzene	43.9291	31.9998	73		5	0-40	65-130
Hexachlorobutadiene	43.9291	31.4566	72		0	0-40	55-140
1,2,3-Trichlorobenzene	43.9291	36.5526	83		0	0-40	60-135
Naphthalene	43.9291	34.5960	79		8	0-40	40-125
1,1,2-Trichloro-1,2,2-trif	43.9291	25.1066	57	*	26	0-40	70-130
1,4-Dioxane	878.5829	1299.5785	148	*	32	0-40	70-130
Cyclohexane	43.9291	25.9762	59	*	11	0-40	70-130
Methyl acetate	43.9291	40.0793	91		10	0-40	70-130
Methylcyclohexane	43.9291	26.8987	61	*	10	0-40	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 73 outside limits

Spike Recovery: 24 out of 146 outside limits

COMMENTS: _____

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB1Q

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0414 Mod. Ref No.: _____ SDG No.: SL0414
Lab File ID: V1M5370.D BFB Injection Date: 03/02/2012
Instrument ID: V1 BFB Injection Time: 9:15
GC Column: DB-624 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.8
75	30.0 - 60.0% of mass 95	43.2
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.1 (0.1)1
174	Greater than 50.0% of mass 95	89.2
175	5.0 - 9.0% of mass 174	7.3 (8.2)1
176	95.0 - 101.0% of mass 174	87.6 (98.2)1
177	5.0 - 9.0% of mass 176	5.5 (6.3)2

1 - Value is % mass 174

2 - Value is % mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0501Q	VSTD0501Q	V1M5371.D	03/02/2012	9:35
02	LCS-64905	LCS-64905	V1M5372.D	03/02/2012	10:28
03	MB-64905	MB-64905	V1M5374.D	03/02/2012	11:39
04	DEC-088D 37-38	L0414-01B	V1M5379.D	03/02/2012	15:12
05	DEC-088D 37-38MS	L0414-01BMS	V1M5388.D	03/02/2012	19:20
06	DEC-088D 37-38MSD	L0414-01BMSD	V1M5389.D	03/02/2012	19:48

6A - FORM VI VOA-1
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L0414 Mod. Ref No.: _____ SDG No.: SL0414
 Instrument ID: V1 Calibration Date(s): 03/01/2012 03/01/2012
 Heated Purge: (Y/N) Y Calibration Time(s): 14:38 16:28
 Purge Volume: 5.0 (mL)
 GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

LAB FILE ID: _____		RRF005 = <u>V1M5341.D</u>		RRF020 = <u>V1M5342.D</u>			
RRF050 = <u>V1M5343.D</u>		RRF100 = <u>V1M5344.D</u>		RRF200 = <u>V1M5345.D</u>			
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF	%RSD
Dichlorodifluoromethane	0.300	0.291	0.245	0.270	0.262	0.274	8.2
Chloromethane	0.502	0.474	0.420	0.455	0.437	0.458	7.0
Vinyl chloride	0.391	0.383	0.337	0.352	0.340	0.361	6.9
Bromomethane	0.258	0.237	0.213	0.244	0.244	0.239	6.9
Chloroethane	0.275	0.217	0.199	0.202	0.202	0.219	14.6
Trichlorofluoromethane	0.463	0.473	0.448	0.460	0.457	0.460	2.0
1,1-Dichloroethene	0.255	0.373	0.358	0.369	0.354	0.342	14.3
Acetone	0.056	0.039	0.036	0.037	0.034	0.040	22.6
Iodomethane	0.688	0.636	0.614	0.642	0.619	0.640	4.6
Carbon disulfide	1.191	1.156	1.060	1.095	1.063	1.113	5.2
Methylene chloride	0.500	0.421	0.355	0.389	0.374	0.408	13.9
trans-1,2-Dichloroethene	0.421	0.401	0.363	0.371	0.373	0.386	6.3
Methyl tert-butyl ether	0.851	0.854	0.775	0.863	0.860	0.841	4.4
1,1-Dichloroethane	0.649	0.640	0.570	0.625	0.594	0.615	5.3
Vinyl acetate	1.097	1.131	0.948	1.066	1.044	1.057	6.6
2-Butanone	0.036	0.035	0.034	0.037	0.035	0.035	2.6
cis-1,2-Dichloroethene	0.473	0.427	0.390	0.426	0.405	0.424	7.4
2,2-Dichloropropane	0.260	0.280	0.247	0.241	0.237	0.253	7.0
Bromochloromethane	0.207	0.211	0.186	0.209	0.198	0.202	5.0
Chloroform	0.645	0.673	0.598	0.662	0.647	0.645	4.4
1,1,1-Trichloroethane	0.441	0.464	0.420	0.424	0.407	0.431	5.1
1,1-Dichloropropene	0.178	0.171	0.162	0.169	0.170	0.170	3.4
Carbon tetrachloride	0.376	0.392	0.373	0.381	0.377	0.380	1.9
1,2-Dichloroethane	0.504	0.469	0.430	0.465	0.449	0.463	5.9
Benzene	1.477	1.430	1.250	1.361	1.303	1.364	6.7
Trichloroethene	0.419	0.434	0.382	0.407	0.393	0.407	5.1
1,2-Dichloropropane	0.329	0.349	0.319	0.352	0.340	0.338	4.1
Dibromomethane	0.237	0.246	0.228	0.246	0.241	0.240	3.2
Bromodichloromethane	0.486	0.482	0.455	0.513	0.497	0.486	4.4
cis-1,3-Dichloropropene	0.555	0.577	0.503	0.571	0.562	0.554	5.3
4-Methyl-2-pentanone	0.322	0.232	0.229	0.263	0.253	0.260	14.6
Toluene	1.419	1.456	1.353	1.426	1.389	1.409	2.8
trans-1,3-Dichloropropene	0.407	0.446	0.420	0.483	0.480	0.447	7.6
1,1,2-Trichloroethane	0.312	0.297	0.267	0.292	0.291	0.292	5.5
1,3-Dichloropropane	0.689	0.653	0.603	0.689	0.663	0.660	5.4
Tetrachloroethene	0.637	0.574	0.529	0.544	0.518	0.560	8.5
2-Hexanone	0.322	0.227	0.236	0.270	0.259	0.263	14.1
Dibromochloromethane	0.517	0.513	0.485	0.557	0.546	0.524	5.5
1,2-Dibromoethane	0.401	0.425	0.394	0.455	0.444	0.424	6.3

6B - FORM VI VOA-2
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L0414 Mod. Ref No.: _____ SDG No.: SL0414

Instrument ID: V1 Calibration Date(s): 03/01/2012 03/01/2012

Heated Purge: (Y/N) Y Calibration Time(s): 14:38 16:28

Purge Volume: 5.0 (mL)

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

LAB FILE ID: _____	RRF005 = <u>V1M5341.D</u>	RRF020 = <u>V1M5342.D</u>					
RRF050 = <u>V1M5343.D</u>	RRF100 = <u>V1M5344.D</u>	RRF200 = <u>V1M5345.D</u>					
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF	%RSD
Chlorobenzene	1.326	1.276	1.163	1.283	1.243	1.258	4.8
1,1,1,2-Tetrachloroethane	0.438	0.477	0.444	0.489	0.489	0.467	5.3
Ethylbenzene	0.659	0.670	0.607	0.677	0.672	0.657	4.4
m,p-Xylene	0.777	0.838	0.767	0.843	0.823	0.810	4.4
o-Xylene	0.831	0.831	0.733	0.818	0.810	0.805	5.1
Xylene (Total)	0.795	0.836	0.756	0.835	0.819	0.808	4.2
Styrene	1.349	1.369	1.209	1.390	1.378	1.339	5.5
Bromoform	0.261	0.306	0.282	0.338	0.341	0.306	11.4
Isopropylbenzene	2.012	2.074	1.879	2.032	2.021	2.004	3.7
1,1,2,2-Tetrachloroethane	1.006	0.926	0.829	0.893	0.874	0.906	7.3
Bromobenzene	1.154	1.103	0.997	1.081	1.054	1.078	5.4
1,2,3-Trichloropropane	0.965	0.894	0.909	0.934	0.928	0.926	2.9
n-Propylbenzene	1.066	0.997	0.927	0.959	0.953	0.980	5.5
2-Chlorotoluene	0.952	1.005	0.887	0.947	0.906	0.939	4.9
1,3,5-Trimethylbenzene	3.510	3.431	3.000	3.122	3.060	3.225	7.1
4-Chlorotoluene	0.998	1.007	0.849	0.935	0.925	0.943	6.8
tert-Butylbenzene	3.055	3.148	2.775	2.930	2.846	2.951	5.1
1,2,4-Trimethylbenzene	3.188	3.373	2.871	3.065	3.046	3.109	6.0
sec-Butylbenzene	4.579	4.331	3.696	3.910	3.912	4.085	8.8
4-Isopropyltoluene	3.450	3.174	2.742	2.921	2.913	3.040	9.1
1,3-Dichlorobenzene	2.140	2.015	1.792	1.968	1.891	1.961	6.7
1,4-Dichlorobenzene	1.979	2.048	1.755	1.973	1.910	1.933	5.7
n-Butylbenzene	3.290	2.931	2.542	2.816	2.903	2.897	9.3
1,2-Dichlorobenzene	1.948	1.853	1.676	1.844	1.749	1.814	5.8
1,2-Dibromo-3-chloropropane	0.134	0.122	0.103	0.120	0.122	0.120	9.2
1,2,4-Trichlorobenzene	0.968	0.868	0.708	0.847	0.881	0.854	11.0
Hexachlorobutadiene	0.730	0.559	0.444	0.483	0.539	0.551	20.0
1,2,3-Trichlorobenzene	0.812	0.715	0.634	0.771	0.806	0.748	10.0
Naphthalene	2.010	1.500	1.407	1.644	1.701	1.652	14.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.338	0.322	0.287	0.332	0.321	0.320	6.2
1,4-Dioxane	0.001	0.002	0.002	0.002	0.003	0.002	26.4
Cyclohexane	0.441	0.550	0.483	0.543	0.497	0.503	8.9
Methyl acetate	0.216	0.222	0.207	0.206	0.204	0.211	3.6
Methylcyclohexane	0.595	0.606	0.537	0.563	0.571	0.574	4.7

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L0414 Mod. Ref No.: _____ SDG No.: SL0414

Instrument ID: V1 Calibration Date: 03/02/2012 Time: 9:35

Lab File ID: V1M5371.D Init. Calib. Date(s): 03/01/2012 03/01/2012

EPA Sample No. (VSTD####) VSTD0501Q Init. Calib. Time(s): 14:38 16:28

Heated Purge: (Y/N) Y GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
1,1,1,2-Tetrachloroethane	0.467	0.458	0.010	-2.0	20.0
Ethylbenzene	0.657	0.574	0.010	-12.6	20.0
m,p-Xylene	0.810	0.723	0.010	-10.7	20.0
o-Xylene	0.805	0.726	0.010	-9.8	20.0
Xylene (Total)	0.808	0.724	0.010	-10.4	20.0
Styrene	1.339	1.181	0.010	-11.8	20.0
Bromoform	0.306	0.318	0.010	4.0	20.0
Isopropylbenzene	2.004	1.773	0.300	-11.5	20.0
1,1,2,2-Tetrachloroethane	0.906	0.791	0.300	-12.7	20.0
Bromobenzene	1.078	0.963	0.010	-10.6	20.0
1,2,3-Trichloropropane	0.926	0.789	0.010	-14.8	20.0
n-Propylbenzene	0.980	0.843	0.010	-14.0	20.0
2-Chlorotoluene	0.939	0.823	0.010	-12.4	20.0
1,3,5-Trimethylbenzene	3.225	2.674	0.010	-17.1	20.0
4-Chlorotoluene	0.943	0.828	0.010	-12.2	20.0
tert-Butylbenzene	2.951	2.571	0.010	-12.9	20.0
1,2,4-Trimethylbenzene	3.109	2.622	0.010	-15.7	20.0
sec-Butylbenzene	4.085	3.292	0.010	-19.4	20.0
4-Isopropyltoluene	3.040	2.542	0.010	-16.4	20.0
1,3-Dichlorobenzene	1.961	1.726	0.010	-12.0	20.0
1,4-Dichlorobenzene	1.933	1.758	0.010	-9.0	20.0
n-Butylbenzene	2.897	2.240	0.100	-22.7	20.0
1,2-Dichlorobenzene	1.814	1.602	0.010	-11.7	20.0
1,2-Dibromo-3-chloropropane	0.120	0.103	0.010	-14.3	20.0
1,2,4-Trichlorobenzene	0.854	0.726	0.010	-15.1	20.0
Hexachlorobutadiene	0.551	0.462	0.010	-16.2	20.0
1,2,3-Trichlorobenzene	0.748	0.631	0.010	-15.6	20.0
Naphthalene	1.652	1.319	0.010	-20.2	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.320	0.304	0.010	-5.1	20.0
1,4-Dioxane	0.002	0.003	0.010	29.0	20.0
Cyclohexane	0.503	0.424	0.010	-15.7	20.0
Methyl acetate	0.211	0.206	0.010	-2.5	20.0
Methylcyclohexane	0.574	0.518	0.010	-9.8	20.0

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Klink Cosmo Meeker

Laboratory Workorder / SDG #: L0437

SW846 8260C, VOC by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8260C

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW5035

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: V1

Instrument Type: GCMS-VOA

Description: HP5890 II / HP5972

Manufacturer: Hewlett-Packard

Model: 5890 / 5972

GC Column used: 30 m X 0.25 mm ID [1.40 um thickness] DB-624 capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits with the following exceptions. Please note that the acceptance criteria allow one surrogate recovery outside of the QC limits per fraction.

SG-116 4.0-4.5 (L0437-04A), recovery is below criteria for Toluene-d8 at 85% with criteria of (85-115).

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits with the following exceptions. Please note that most test procedures allow for several compounds outside of the QC limits for the LCS, although this may indicate a bias for this specific compound.

LCSD-65002 in batch 65002, Percent Recovery is outside QC Limits, recovery is above criteria for 1,4-Dioxane at 148% with criteria of (70-130).

LCSD-65027 in batch 65027, Percent Recovery is outside QC Limits, recovery is above criteria for 1,4-Dioxane at 136% with

criteria of (70-130).

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

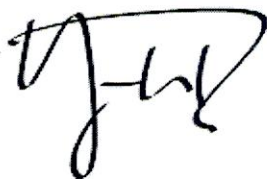
F. Dilutions:

No sample in this SDG required analysis at dilution.

G. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

A handwritten signature in black ink, appearing to be 'J. H. P.', is written over a horizontal line.

Signed: _____

Date: 3/20/2012 _____

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

MB-65002

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L0437 Mod. Ref No.: _____ SDG No.: SL0437

Lab File ID: V1M5409.D Lab Sample ID: MB-65002

Instrument ID: V1

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 03/07/2012

Level: (TRACE or LOW/MED) LOW Time Analyzed: 14:11

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS-65002	LCS-65002	V1M5405.D	12:14
02	LCSD-65002	LCSD-65002	V1M5406.D	12:43
03	SG-118 6.5-7.0	L0437-01A	V1M5416.D	18:16
04	SG-115 6.5-7.0	L0437-02A	V1M5417.D	18:43
05	SG-114 7.5-8.0	L0437-03A	V1M5418.D	19:11
06	SG-116 4.0-4.5	L0437-04A	V1M5419.D	19:39
07	SG-117 3.0-3.5	L0437-05A	V1M5420.D	20:07
08	SG-119 3.5-4	L0437-06A	V1M5421.D	20:34
09	DEC-89D 34-35	L0437-07A	V1M5422.D	21:02
10	SG-113 7.5-8	L0437-08A	V1M5423.D	21:30

COMMENTS:

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

MB-65027

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0437 Mod. Ref No.: _____ SDG No.: SL0437
Lab File ID: V1M5448.D Lab Sample ID: MB-65027
Instrument ID: V1
Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 03/08/2012
Level: (TRACE or LOW/MED) LOW Time Analyzed: 13:28
GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS-65027	LCS-65027	V1M5444.D	11:36
02	LCSD-65027	LCSD-65027	V1M5445.D	12:04
03	SG-112 4.5-5	L0437-09A	V1M5449.D	13:56
04	SG-61R 5-5.5	L0437-10A	V1M5450.D	14:23

COMMENTS:

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-65002

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0437 Mod. Ref No.: _____ SDG No.: SL0437
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-65002
Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1M5409.D
Level: (TRACE/LOW/MED) LOW Date Received: _____
% Moisture: not dec. 0.0 Date Analyzed: 03/07/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	2.0	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-65027

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L0437 Mod. Ref No.: _____ SDG No.: SL0437

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-65027

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1M5448.D

Level: (TRACE/LOW/MED) LOW Date Received: _____

% Moisture: not dec. 0.0 Date Analyzed: 03/08/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	1.9	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB1R

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0437 Mod. Ref No.: _____ SDG No.: SL0437
Lab File ID: V1M5402.D BFB Injection Date: 03/07/2012
Instrument ID: V1 BFB Injection Time: 9:52
GC Column: DB-624 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.6
75	30.0 - 60.0% of mass 95	41.2
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	5.9
173	Less than 2.0% of mass 174	0.3 (0.4)1
174	Greater than 50.0% of mass 95	83.6
175	5.0 - 9.0% of mass 174	6.3 (7.5)1
176	95.0 - 101.0% of mass 174	81.0 (96.8)1
177	5.0 - 9.0% of mass 176	5.5 (6.8)2

1 - Value is % mass 174

2 - Value is % mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0501R	VSTD0501R	V1M5404.D	03/07/2012	11:31
02	LCS-65002	LCS-65002	V1M5405.D	03/07/2012	12:14
03	LCSD-65002	LCSD-65002	V1M5406.D	03/07/2012	12:43
04	MB-65002	MB-65002	V1M5409.D	03/07/2012	14:11
05	SG-118 6.5-7.0	L0437-01A	V1M5416.D	03/07/2012	18:16
06	SG-115 6.5-7.0	L0437-02A	V1M5417.D	03/07/2012	18:43
07	SG-114 7.5-8.0	L0437-03A	V1M5418.D	03/07/2012	19:11
08	SG-116 4.0-4.5	L0437-04A	V1M5419.D	03/07/2012	19:39
09	SG-117 3.0-3.5	L0437-05A	V1M5420.D	03/07/2012	20:07
10	SG-119 3.5-4	L0437-06A	V1M5421.D	03/07/2012	20:34
11	DEC-89D 34-35	L0437-07A	V1M5422.D	03/07/2012	21:02
12	SG-113 7.5-8	L0437-08A	V1M5423.D	03/07/2012	21:30

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB1S

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0437 Mod. Ref No.: _____ SDG No.: SL0437
Lab File ID: V1M5442.D BFB Injection Date: 03/08/2012
Instrument ID: V1 BFB Injection Time: 10:26
GC Column: DB-624 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.0
75	30.0 - 60.0% of mass 95	42.8
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.4
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	89.3
175	5.0 - 9.0% of mass 174	6.5 (7.3)1
176	95.0 - 101.0% of mass 174	86.8 (97.2)1
177	5.0 - 9.0% of mass 176	5.2 (6.0)2

1 - Value is % mass 174

2 - Value is % mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0501S	VSTD0501S	V1M5443.D	03/08/2012	10:54
02	LCS-65027	LCS-65027	V1M5444.D	03/08/2012	11:36
03	LCSD-65027	LCSD-65027	V1M5445.D	03/08/2012	12:04
04	MB-65027	MB-65027	V1M5448.D	03/08/2012	13:28
05	SG-112 4.5-5	L0437-09A	V1M5449.D	03/08/2012	13:56
06	SG-61R 5-5.5	L0437-10A	V1M5450.D	03/08/2012	14:23

6A - FORM VI VOA-1
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L0437 Mod. Ref No.: _____ SDG No.: SL0437

Instrument ID: V1 Calibration Date(s): 03/01/2012 03/01/2012

Heated Purge: (Y/N) Y Calibration Time(s): 14:38 16:28

Purge Volume: 5.0 (mL)

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

LAB FILE ID: _____	RRF005 = <u>V1M5341.D</u>	RRF020 = <u>V1M5342.D</u>					
RRF050 = <u>V1M5343.D</u>	RRF100 = <u>V1M5344.D</u>	RRF200 = <u>V1M5345.D</u>					
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF	%RSD
Dichlorodifluoromethane	0.300	0.291	0.245	0.270	0.262	0.274	8.2
Chloromethane	0.502	0.474	0.420	0.455	0.437	0.458	7.0
Vinyl chloride	0.391	0.383	0.337	0.352	0.340	0.361	6.9
Bromomethane	0.258	0.237	0.213	0.244	0.244	0.239	6.9
Chloroethane	0.275	0.217	0.199	0.202	0.202	0.219	14.6
Trichlorofluoromethane	0.463	0.473	0.448	0.460	0.457	0.460	2.0
1,1-Dichloroethene	0.255	0.373	0.358	0.369	0.354	0.342	14.3
Acetone	0.056	0.039	0.036	0.037	0.034	0.040	22.6
Iodomethane	0.688	0.636	0.614	0.642	0.619	0.640	4.6
Carbon disulfide	1.191	1.156	1.060	1.095	1.063	1.113	5.2
Methylene chloride	0.500	0.421	0.355	0.389	0.374	0.408	13.9
trans-1,2-Dichloroethene	0.421	0.401	0.363	0.371	0.373	0.386	6.3
Methyl tert-butyl ether	0.851	0.854	0.775	0.863	0.860	0.841	4.4
1,1-Dichloroethane	0.649	0.640	0.570	0.625	0.594	0.615	5.3
Vinyl acetate	1.097	1.131	0.948	1.066	1.044	1.057	6.6
2-Butanone	0.036	0.035	0.034	0.037	0.035	0.035	2.6
cis-1,2-Dichloroethene	0.473	0.427	0.390	0.426	0.405	0.424	7.4
2,2-Dichloropropane	0.260	0.280	0.247	0.241	0.237	0.253	7.0
Bromochloromethane	0.207	0.211	0.186	0.209	0.198	0.202	5.0
Chloroform	0.645	0.673	0.598	0.662	0.647	0.645	4.4
1,1,1-Trichloroethane	0.441	0.464	0.420	0.424	0.407	0.431	5.1
1,1-Dichloropropene	0.178	0.171	0.162	0.169	0.170	0.170	3.4
Carbon tetrachloride	0.376	0.392	0.373	0.381	0.377	0.380	1.9
1,2-Dichloroethane	0.504	0.469	0.430	0.465	0.449	0.463	5.9
Benzene	1.477	1.430	1.250	1.361	1.303	1.364	6.7
Trichloroethene	0.419	0.434	0.382	0.407	0.393	0.407	5.1
1,2-Dichloropropane	0.329	0.349	0.319	0.352	0.340	0.338	4.1
Dibromomethane	0.237	0.246	0.228	0.246	0.241	0.240	3.2
Bromodichloromethane	0.486	0.482	0.455	0.513	0.497	0.486	4.4
cis-1,3-Dichloropropene	0.555	0.577	0.503	0.571	0.562	0.554	5.3
4-Methyl-2-pentanone	0.322	0.232	0.229	0.263	0.253	0.260	14.6
Toluene	1.419	1.456	1.353	1.426	1.389	1.409	2.8
trans-1,3-Dichloropropene	0.407	0.446	0.420	0.483	0.480	0.447	7.6
1,1,2-Trichloroethane	0.312	0.297	0.267	0.292	0.291	0.292	5.5
1,3-Dichloropropane	0.689	0.653	0.603	0.689	0.663	0.660	5.4
Tetrachloroethene	0.637	0.574	0.529	0.544	0.518	0.560	8.5
2-Hexanone	0.322	0.227	0.236	0.270	0.259	0.263	14.1
Dibromochloromethane	0.517	0.513	0.485	0.557	0.546	0.524	5.5
1,2-Dibromoethane	0.401	0.425	0.394	0.455	0.444	0.424	6.3

6B - FORM VI VOA-2
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L0437 Mod. Ref No.: _____ SDG No.: SL0437

Instrument ID: V1 Calibration Date(s): 03/01/2012 03/01/2012

Heated Purge: (Y/N) Y Calibration Time(s): 14:38 16:28

Purge Volume: 5.0 (mL)

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

LAB FILE ID: _____	RRF005 = _____	V1M5341.D	RRF020 = _____	V1M5342.D			
RRF050 = _____	V1M5343.D	RRF100 = _____	V1M5344.D	RRF200 = _____			
V1M5345.D							
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF	%RSD
Chlorobenzene	1.326	1.276	1.163	1.283	1.243	1.258	4.8
1,1,1,2-Tetrachloroethane	0.438	0.477	0.444	0.489	0.489	0.467	5.3
Ethylbenzene	0.659	0.670	0.607	0.677	0.672	0.657	4.4
m,p-Xylene	0.777	0.838	0.767	0.843	0.823	0.810	4.4
o-Xylene	0.831	0.831	0.733	0.818	0.810	0.805	5.1
Xylene (Total)	0.795	0.836	0.756	0.835	0.819	0.808	4.2
Styrene	1.349	1.369	1.209	1.390	1.378	1.339	5.5
Bromoform	0.261	0.306	0.282	0.338	0.341	0.306	11.4
Isopropylbenzene	2.012	2.074	1.879	2.032	2.021	2.004	3.7
1,1,2,2-Tetrachloroethane	1.006	0.926	0.829	0.893	0.874	0.906	7.3
Bromobenzene	1.154	1.103	0.997	1.081	1.054	1.078	5.4
1,2,3-Trichloropropane	0.965	0.894	0.909	0.934	0.928	0.926	2.9
n-Propylbenzene	1.066	0.997	0.927	0.959	0.953	0.980	5.5
2-Chlorotoluene	0.952	1.005	0.887	0.947	0.906	0.939	4.9
1,3,5-Trimethylbenzene	3.510	3.431	3.000	3.122	3.060	3.225	7.1
4-Chlorotoluene	0.998	1.007	0.849	0.935	0.925	0.943	6.8
tert-Butylbenzene	3.055	3.148	2.775	2.930	2.846	2.951	5.1
1,2,4-Trimethylbenzene	3.188	3.373	2.871	3.065	3.046	3.109	6.0
sec-Butylbenzene	4.579	4.331	3.696	3.910	3.912	4.085	8.8
4-Isopropyltoluene	3.450	3.174	2.742	2.921	2.913	3.040	9.1
1,3-Dichlorobenzene	2.140	2.015	1.792	1.968	1.891	1.961	6.7
1,4-Dichlorobenzene	1.979	2.048	1.755	1.973	1.910	1.933	5.7
n-Butylbenzene	3.290	2.931	2.542	2.816	2.903	2.897	9.3
1,2-Dichlorobenzene	1.948	1.853	1.676	1.844	1.749	1.814	5.8
1,2-Dibromo-3-chloropropane	0.134	0.122	0.103	0.120	0.122	0.120	9.2
1,2,4-Trichlorobenzene	0.968	0.868	0.708	0.847	0.881	0.854	11.0
Hexachlorobutadiene	0.730	0.559	0.444	0.483	0.539	0.551	20.0
1,2,3-Trichlorobenzene	0.812	0.715	0.634	0.771	0.806	0.748	10.0
Naphthalene	2.010	1.500	1.407	1.644	1.701	1.652	14.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.338	0.322	0.287	0.332	0.321	0.320	6.2
1,4-Dioxane	0.001	0.002	0.002	0.002	0.003	0.002	26.4
Cyclohexane	0.441	0.550	0.483	0.543	0.497	0.503	8.9
Methyl acetate	0.216	0.222	0.207	0.206	0.204	0.211	3.6
Methylcyclohexane	0.595	0.606	0.537	0.563	0.571	0.574	4.7

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L0437 Mod. Ref No.: _____ SDG No.: SL0437

Instrument ID: V1 Calibration Date: 03/07/2012 Time: 11:31

Lab File ID: V1M5404.D Init. Calib. Date(s): 03/01/2012 03/01/2012

EPA Sample No. (VSTD####) VSTD0501R Init. Calib. Time(s): 14:38 16:28

Heated Purge: (Y/N) Y GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.274	0.303	0.100	10.8	20.0
Chloromethane	0.458	0.526	0.010	14.9	20.0
Vinyl chloride	0.361	0.405	0.010	12.4	20.0
Bromomethane	0.239	0.271	0.010	13.5	20.0
Chloroethane	0.219	0.235	0.010	7.4	20.0
Trichlorofluoromethane	0.460	0.560	0.010	21.8	20.0
1,1-Dichloroethene	0.342	0.403	0.100	18.1	20.0
Acetone	0.040	0.045	0.010	11.5	20.0
Iodomethane	0.640	0.648	0.010	1.3	20.0
Carbon disulfide	1.113	1.329	0.010	19.4	20.0
Methylene chloride	0.408	0.437	0.010	7.1	20.0
trans-1,2-Dichloroethene	0.386	0.436	0.010	12.9	20.0
Methyl tert-butyl ether	0.841	0.934	0.010	11.1	20.0
1,1-Dichloroethane	0.615	0.700	0.010	13.8	20.0
Vinyl acetate	1.057	1.237	0.010	17.0	20.0
2-Butanone	0.035	0.046	0.010	31.0	20.0
cis-1,2-Dichloroethene	0.424	0.467	0.010	10.0	20.0
2,2-Dichloropropane	0.253	0.298	0.010	17.7	20.0
Bromochloromethane	0.202	0.245	0.010	21.3	20.0
Chloroform	0.645	0.770	0.010	19.3	20.0
1,1,1-Trichloroethane	0.431	0.526	0.010	22.0	20.0
1,1-Dichloropropene	0.170	0.214	0.010	26.3	20.0
Carbon tetrachloride	0.380	0.476	0.010	25.4	20.0
1,2-Dichloroethane	0.463	0.526	0.010	13.5	20.0
Benzene	1.364	1.543	0.010	13.1	20.0
Trichloroethene	0.407	0.482	0.010	18.4	20.0
1,2-Dichloropropane	0.338	0.378	0.010	12.1	20.0
Dibromomethane	0.240	0.274	0.010	14.4	20.0
Bromodichloromethane	0.486	0.580	0.010	19.2	20.0
cis-1,3-Dichloropropene	0.554	0.640	0.010	15.6	20.0
4-Methyl-2-pentanone	0.260	0.304	0.010	17.1	20.0
Toluene	1.409	1.674	0.010	18.8	20.0
trans-1,3-Dichloropropene	0.447	0.523	0.010	16.9	20.0
1,1,2-Trichloroethane	0.292	0.343	0.010	17.6	20.0
1,3-Dichloropropane	0.660	0.623	0.010	-5.6	20.0
Tetrachloroethene	0.560	0.489	0.010	-12.7	20.0
2-Hexanone	0.263	0.261	0.010	-0.6	20.0
Dibromochloromethane	0.524	0.514	0.010	-1.8	20.0
1,2-Dibromoethane	0.424	0.428	0.010	1.0	20.0
Chlorobenzene	1.258	1.237	0.010	-1.7	20.0

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L0437 Mod. Ref No.: _____ SDG No.: SL0437

Instrument ID: V1 Calibration Date: 03/07/2012 Time: 11:31

Lab File ID: V1M5404.D Init. Calib. Date(s): 03/01/2012 03/01/2012

EPA Sample No. (VSTD####) VSTD0501R Init. Calib. Time(s): 14:38 16:28

Heated Purge: (Y/N) Y GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
1,1,1,2-Tetrachloroethane	0.467	0.468	0.010	0.1	20.0
Ethylbenzene	0.657	0.653	0.010	-0.7	20.0
m,p-Xylene	0.810	0.820	0.010	1.2	20.0
o-Xylene	0.805	0.785	0.010	-2.4	20.0
Xylene (Total)	0.808	0.808	0.010	0.0	20.0
Styrene	1.339	1.274	0.010	-4.8	20.0
Bromoform	0.306	0.316	0.010	3.2	20.0
Isopropylbenzene	2.004	2.025	0.300	1.1	20.0
1,1,2,2-Tetrachloroethane	0.906	0.838	0.300	-7.5	20.0
Bromobenzene	1.078	0.984	0.010	-8.6	20.0
1,2,3-Trichloropropane	0.926	0.814	0.010	-12.0	20.0
n-Propylbenzene	0.980	0.897	0.010	-8.5	20.0
2-Chlorotoluene	0.939	0.847	0.010	-9.8	20.0
1,3,5-Trimethylbenzene	3.225	2.897	0.010	-10.1	20.0
4-Chlorotoluene	0.943	0.869	0.010	-7.9	20.0
tert-Butylbenzene	2.951	2.781	0.010	-5.8	20.0
1,2,4-Trimethylbenzene	3.109	2.845	0.010	-8.5	20.0
sec-Butylbenzene	4.085	3.727	0.010	-8.8	20.0
4-Isopropyltoluene	3.040	2.823	0.010	-7.1	20.0
1,3-Dichlorobenzene	1.961	1.780	0.010	-9.2	20.0
1,4-Dichlorobenzene	1.933	1.760	0.010	-9.0	20.0
n-Butylbenzene	2.897	2.499	0.100	-13.7	20.0
1,2-Dichlorobenzene	1.814	1.647	0.010	-9.2	20.0
1,2-Dibromo-3-chloropropane	0.120	0.105	0.010	-12.6	20.0
1,2,4-Trichlorobenzene	0.854	0.729	0.010	-14.7	20.0
Hexachlorobutadiene	0.551	0.480	0.010	-13.0	20.0
1,2,3-Trichlorobenzene	0.748	0.673	0.010	-10.0	20.0
Naphthalene	1.652	1.476	0.010	-10.7	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.320	0.320	0.010	0.0	20.0
1,4-Dioxane	0.002	0.002	0.010	-0.4	20.0
Cyclohexane	0.503	0.620	0.010	23.3	20.0
Methyl acetate	0.211	0.260	0.010	23.1	20.0
Methylcyclohexane	0.574	0.693	0.010	20.6	20.0

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L0437 Mod. Ref No.: _____ SDG No.: SL0437

Instrument ID: V1 Calibration Date: 03/08/2012 Time: 10:54

Lab File ID: V1M5443.D Init. Calib. Date(s): 03/01/2012 03/01/2012

EPA Sample No. (VSTD####) VSTD0501S Init. Calib. Time(s): 14:38 16:28

Heated Purge: (Y/N) Y GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.274	0.268	0.100	-2.0	20.0
Chloromethane	0.458	0.389	0.010	-14.9	20.0
Vinyl chloride	0.361	0.315	0.010	-12.7	20.0
Bromomethane	0.239	0.216	0.010	-9.7	20.0
Chloroethane	0.219	0.171	0.010	-22.0	20.0
Trichlorofluoromethane	0.460	0.480	0.010	4.3	20.0
1,1-Dichloroethene	0.342	0.349	0.100	2.1	20.0
Acetone	0.040	0.039	0.010	-3.9	20.0
Iodomethane	0.640	0.660	0.010	3.1	20.0
Carbon disulfide	1.113	1.028	0.010	-7.7	20.0
Methylene chloride	0.408	0.343	0.010	-15.9	20.0
trans-1,2-Dichloroethene	0.386	0.357	0.010	-7.5	20.0
Methyl tert-butyl ether	0.841	0.747	0.010	-11.1	20.0
1,1-Dichloroethane	0.615	0.554	0.010	-10.0	20.0
Vinyl acetate	1.057	0.956	0.010	-9.5	20.0
2-Butanone	0.035	0.035	0.010	-1.4	20.0
cis-1,2-Dichloroethene	0.424	0.374	0.010	-11.7	20.0
2,2-Dichloropropane	0.253	0.265	0.010	4.8	20.0
Bromochloromethane	0.202	0.210	0.010	4.0	20.0
Chloroform	0.645	0.604	0.010	-6.4	20.0
1,1,1-Trichloroethane	0.431	0.463	0.010	7.3	20.0
1,1-Dichloropropene	0.170	0.179	0.010	5.5	20.0
Carbon tetrachloride	0.380	0.412	0.010	8.5	20.0
1,2-Dichloroethane	0.463	0.434	0.010	-6.3	20.0
Benzene	1.364	1.207	0.010	-11.5	20.0
Trichloroethene	0.407	0.420	0.010	3.1	20.0
1,2-Dichloropropane	0.338	0.296	0.010	-12.2	20.0
Dibromomethane	0.240	0.232	0.010	-3.1	20.0
Bromodichloromethane	0.486	0.482	0.010	-0.8	20.0
cis-1,3-Dichloropropene	0.554	0.492	0.010	-11.1	20.0
4-Methyl-2-pentanone	0.260	0.245	0.010	-5.6	20.0
Toluene	1.409	1.349	0.010	-4.2	20.0
trans-1,3-Dichloropropene	0.447	0.438	0.010	-2.0	20.0
1,1,2-Trichloroethane	0.292	0.284	0.010	-2.5	20.0
1,3-Dichloropropane	0.660	0.636	0.010	-3.5	20.0
Tetrachloroethene	0.560	0.567	0.010	1.2	20.0
2-Hexanone	0.263	0.251	0.010	-4.6	20.0
Dibromochloromethane	0.524	0.564	0.010	7.6	20.0
1,2-Dibromoethane	0.424	0.456	0.010	7.5	20.0
Chlorobenzene	1.258	1.306	0.010	3.8	20.0

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L0437 Mod. Ref No.: _____ SDG No.: SL0437

Instrument ID: V1 Calibration Date: 03/08/2012 Time: 10:54

Lab File ID: V1M5443.D Init. Calib. Date(s): 03/01/2012 03/01/2012

EPA Sample No. (VSTD####) VSTD0501S Init. Calib. Time(s): 14:38 16:28

Heated Purge: (Y/N) Y GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
1,1,1,2-Tetrachloroethane	0.467	0.505	0.010	8.0	20.0
Ethylbenzene	0.657	0.700	0.010	6.5	20.0
m,p-Xylene	0.810	0.857	0.010	5.8	20.0
o-Xylene	0.805	0.843	0.010	4.8	20.0
Xylene (Total)	0.808	0.852	0.010	5.5	20.0
Styrene	1.339	1.334	0.010	-0.4	20.0
Bromoform	0.306	0.373	0.010	22.1	20.0
Isopropylbenzene	2.004	2.134	0.300	6.5	20.0
1,1,2,2-Tetrachloroethane	0.906	0.939	0.300	3.7	20.0
Bromobenzene	1.078	1.182	0.010	9.7	20.0
1,2,3-Trichloropropane	0.926	0.986	0.010	6.5	20.0
n-Propylbenzene	0.980	1.059	0.010	8.0	20.0
2-Chlorotoluene	0.939	1.031	0.010	9.8	20.0
1,3,5-Trimethylbenzene	3.225	3.388	0.010	5.1	20.0
4-Chlorotoluene	0.943	1.024	0.010	8.6	20.0
tert-Butylbenzene	2.951	3.301	0.010	11.9	20.0
1,2,4-Trimethylbenzene	3.109	3.239	0.010	4.2	20.0
sec-Butylbenzene	4.085	4.322	0.010	5.8	20.0
4-Isopropyltoluene	3.040	3.287	0.010	8.1	20.0
1,3-Dichlorobenzene	1.961	2.137	0.010	9.0	20.0
1,4-Dichlorobenzene	1.933	2.187	0.010	13.1	20.0
n-Butylbenzene	2.897	2.931	0.100	1.2	20.0
1,2-Dichlorobenzene	1.814	1.985	0.010	9.4	20.0
1,2-Dibromo-3-chloropropane	0.120	0.133	0.010	10.2	20.0
1,2,4-Trichlorobenzene	0.854	0.999	0.010	16.9	20.0
Hexachlorobutadiene	0.551	0.641	0.010	16.4	20.0
1,2,3-Trichlorobenzene	0.748	0.927	0.010	23.9	20.0
Naphthalene	1.652	1.951	0.010	18.1	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.320	0.342	0.010	6.8	20.0
1,4-Dioxane	0.002	0.003	0.010	34.6	20.0
Cyclohexane	0.503	0.480	0.010	-4.6	20.0
Methyl acetate	0.211	0.200	0.010	-5.3	20.0
Methylcyclohexane	0.574	0.563	0.010	-1.9	20.0

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Klink Cosmo Meeker

Laboratory Workorder / SDG #: L0438

SW846 8260C, VOC by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8260C

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW5030

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: V6
Instrument Type: GCMS-VOA
Description: HP6890 / HP5973
Manufacturer: Hewlett-Packard
Model: 6890 / 5973

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

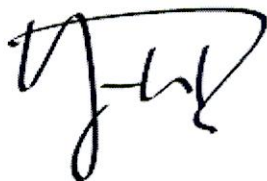
F. Dilutions:

No sample in this SDG required analysis at dilution.

G. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

A handwritten signature in black ink, appearing to be 'J. H. P.' or similar, written in a cursive style.

Signed: _____

Date: 3/22/2012

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Klink Cosmo Meeker

Laboratory Workorder / SDG #: L0438

SW846 8270D, SVOA by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8270D

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3510

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: S3
Instrument Type: GCMS-SEMI
Description: HP6890 / HP5973
Manufacturer: Hewlett-Packard
Model: 6890 / 5973

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits with the following exceptions. Please note that the acceptance criteria allow one surrogate recovery outside of the QC limits per fraction.

(LCSD-65024), recovery is above criteria for 2,4,6-Tribromophenol at 130% with criteria of (40-125).

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits with the following exceptions. Please note that most test procedures allow for several compounds outside of the QC limits for the LCS, although this may indicate a bias for this specific compound.

LCSD-65024 in batch 65024, Percent Recovery is outside QC Limits, recovery is above criteria for Hexachloroethane at 98% with criteria of (30-95).

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

No sample in this SDG required analysis at dilution.

G. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

A handwritten signature in black ink, appearing to be 'J. H. P.' or similar, written over a horizontal line.

Signed:_____

Date:___3/22/2012_____

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Klink Cosmo Meeker

Laboratory Workorder / SDG #: L0438

SW846 6010C, SW846 7470A

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 6010C, SW846 7470A

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3005A
Aqueous Samples were prepared following procedures in laboratory test code: SW7470A

V. INSTRUMENTATION

The following instrumentation was used to perform

Instrument Code: FIMS2
Instrument Type: CVAA
Description: FIMS
Manufacturer: Perkin-Elmer
Model: FIMS100

Instrument Code: OPTIMA3
Instrument Type: ICP
Description: Optima ICP-OES
Manufacturer: Perkin-Elmer
Model: 4300 DV

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for laboratory control samples were within the QC limits.

2. Matrix spike (MS):

A matrix spike was not performed on any sample in this SDG.

D. Post Digestion Spike (PDS):

A post-digestion spike was not performed on any sample in this SDG.

E. Duplicate sample:

A duplicate analysis was not performed on any sample in this SDG.

F. Serial Dilution (SD):

A serial dilution was not performed on any sample in this SDG.

G. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed:  _____

Date: 03/26/12

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Klink Cosmo Meeker

Laboratory Workorder / SDG #: L0438

SW846 1010, SW846 7.3.3.2, SW846 7.3.4.2, SW846 9045C

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 1010, SW846 7.3.3.2, SW846 7.3.4.2, SW846 9045C

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code:
SW846 1010, SW846 7.3.3.2, SW846 7.3.4.2, SW846 9045C

V. INSTRUMENTATION

The following instrumentation was used to perform

Instrument Code: FLASH1
Instrument Type: WC
Description: Flash Point
Manufacturer: Koehler
Model: K16200

Instrument Code: LACHAT1
Instrument Type: WC
Description: Flow Injection Analyzer
Manufacturer: Zellweger Analytics
Model: Quik-Chem 8000

Instrument Code: SPEC2
Instrument Type: SP
Description: Spectronic 20 Genesys
Manufacturer: Spectronic Instruments
Model: 4004-000

Instrument Code: WC01
Instrument Type: Probe
Description: pH Meter
Manufacturer: Thermo Electron Corporation
Model: Orion 520A+

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

The lab control sample for reactive cyanide typically results in a

percent recovery of approximately 10%. This indicates the analysis is only measuring the correct type of cyanide. The LCS is performed with a "total" cyanide spike, only a small portion of which is "reactive". Recovery of significantly greater than this level in the analysis of the LCS indicates the test is over estimating the concentration of reactive cyanide.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

D. Duplicate sample:

No client-requested laboratory duplicate analyses were included in this SDG.

E. Dilutions:

No sample required dilution in this SDG.

F. Samples:

For Flashpoint analysis, the result of "No Flash" indicates that no flash was observed, or that non-ignitable vapors from the sample extinguished the test flame at the temperature indicated. Where non-flammable vapors from the sample extinguished the test flame below 140 degrees, the sample temperature was elevated to at least 140 degrees, and re-exposed to the test flame.

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed: 

Date: 03/27/12

6C - FORM VI VOA-3
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc.

Contract:

Lab Code: MITKEM

Case No.: L0438

SAS No.:

SDG No.: SL0438

Instrument ID: V6

Calibration Date(s):

03/02/2012

Heated Purge: (Y/N) N

Calibration Times:

9:42 12:05

Purge Volume: 5

(mL)

GC Column: DB-624

ID: 0.25

(mm)

Length: 30

(mm)

LAB FILE ID: RRF005 = V6I5413.D RRF020 = V6I5412.D RRF050 = V6I5411.D RRF100 = V6I5417.D RRF200 = V6I5416.D

RRF001 = V6I5415.D

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF001	RRF	% RSD
Vinyl chloride	0.239	0.224	0.239	0.251	0.248	0.231	0.239	4.3
1,1-Dichloroethene	0.201	0.213	0.228	0.236	0.229	0.159	0.211	13.6
2-Butanone	0.027	0.020	0.020	0.027	0.026		0.024	14.9
Chloroform	0.472	0.405	0.415	0.422	0.405	0.405	0.421	6.2
Carbon tetrachloride	0.476	0.405	0.390	0.411	0.391	0.397	0.411	7.9
1,2-Dichloroethane	0.412	0.366	0.371	0.382	0.375	0.422	0.388	6.0
Benzene	0.814	0.694	0.688	0.699	0.658	0.844	0.733	10.4
Trichloroethene	0.353	0.292	0.302	0.305	0.294	0.353	0.317	9.0
Tetrachloroethene	0.296	0.266	0.262	0.288	0.270	0.330	0.285	8.9
Chlorobenzene	0.869	0.736	0.766	0.747	0.722	0.800	0.773	7.0

5B - FORM V SV
SEMIVOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

EPA SAMPLE NO.

DFTPP3E

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0438 Mod. Ref No.: _____ SDG No.: SL0438
Lab File ID: S3H9182A.D DFTPP Injection Date: 03/09/2012
Instrument ID: S3 DFTPP Injection Time: 14:32

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	55.3
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	44.3
70	Less than 2.0% of mass 69	0.3 (0.7)1
127	40.0 - 60.0% of mass 198	58.7
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	7.2
275	10.0 - 30.0% of mass 198	22.9
365	Greater than 1.0% of mass 198	3.0
441	Present, but less than mass 443	10.2
442	40.0 - 99.9% of mass 198	76.0
443	17.0 - 23.0% of mass 442	15.9 (20.9)2

1 - Value is % mass 69

2 - Value is % mass 442

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0253E	SSTD0253E	S3H9183A.D	03/09/2012	14:47
02	MB-65011	MB-65011	S3H9188.D	03/09/2012	16:52
03	LCS-65024	LCS-65024	S3H9189.D	03/09/2012	17:13
04	LCSD-65024	LCSD-65024	S3H9190.D	03/09/2012	17:34
05	IDW-SOIL	L0438-01A	S3H9191.D	03/09/2012	17:56

7E - FORM VII SV-1
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L0438 Mod. Ref No.: _____ SDG No.: SL0438

Instrument ID: S3 Calibration Date: 03/09/2012 Time: 14:47

Lab File ID: S3H9183A.D Init. Calib. Date(s): 12/27/2011 12/27/2011

EPA Sample No. (SSTD020##) SSTD0253E Init. Calib. Time(s): 12:13 14:08

GC Column: Rxi-5sil MS ID: 0.25 (mm)

COMPOUND	RRF	RRF025	MIN RRF	%D	MAX %D
1,4-Dichlorobenzene	1.469	1.422	0.010	-3.2	20.0
2-Methylphenol	1.261	1.067	0.010	-15.4	20.0
4-Methylphenol	1.383	1.158	0.010	-16.3	20.0
Hexachloroethane	0.491	0.532	0.010	8.5	20.0
Nitrobenzene	0.303	0.314	0.010	3.4	20.0
Hexachlorobutadiene	0.164	0.185	0.010	12.6	20.0
2,4,6-Trichlorophenol	0.354	0.332	0.010	-6.3	20.0
2,4,5-Trichlorophenol	0.394	0.367	0.010	-6.8	20.0
2,4-Dinitrotoluene	0.415	0.403	0.010	-2.8	20.0
Hexachlorobenzene	0.214	0.240	0.010	11.9	20.0
Pentachlorophenol	0.145	0.143	0.010	-1.3	20.0
Pyridine	1.180	0.699	0.010	-40.7	20.0

U.S. EPA - CLP

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BLANKS

Lab Name: Spectrum Analytical, Inc.Contract: 250626USLab Code: MITKEM

Case No.: _____

SAS No.: _____

SDG No.: SL0438Preparation Blank Matrix (soil/water): WATER

Method Blank ID:

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L**MB-65011****OPTIMA3_120310B**

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	03/10/12 10:24	C	03/10/12 11:07	C		C		C	
Arsenic	4.3	U	4.3	U	4.3	U			4.300	U	P
Barium	4.6	B	3.1	B	6.7	B			1.100	U	P
Cadmium	0.9	U	0.9	U	0.9	U			0.890	U	P
Chromium	1.3	B	0.9	B	1.1	B			1.287	B	P
Lead	4.2	U	4.2	U	4.2	U			4.200	U	P
Selenium	12.0	U	12.0	U	12.0	U			12.000	U	P
Silver	6.9	U	6.9	U	6.9	U			6.900	U	P

U.S. EPA - CLP

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PREPARATION LOG

Lab Name: Spectrum Analytical, Inc. Contract: 250626US
Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL0438
Preparation Method: 3005A Batch ID: 65034

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
IDW-SOIL	03/09/2012		50
LCSW	03/09/2012		50
PBW	03/09/2012		50
PBW	03/09/2012		50

Comments:

U.S. EPA - CLP
14
ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: 250626US
 Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: SL0438
 Instrument ID Number: OPTIMA3 Method: P
 Start Date: 03/10/2012 End Date: 03/10/2012

OPTIMA3_120310B

EPA Sample No.	D/F	Time	% R	Analytes																					
				A L	S B	A S	B A	B E	C D	C A	C O	C R	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V
S0	1.0	0947				X	X		X			X			X						X	X			
S1	1.0	0950				X	X		X			X			X						X	X			
S2	1.0	0954				X	X		X			X			X						X	X			
S3	1.0	0958				X	X		X			X			X						X	X			
ICV	1.0	1001				X	X		X			X			X						X	X			
ICB	1.0	1005				X	X		X			X			X						X	X			
ZZZZZZ	1.0	1009																							
ICSA	1.0	1012				X	X		X			X			X						X	X			
ICSAB	1.0	1016				X	X		X			X			X						X	X			
CCV	1.0	1020				X	X		X			X			X						X	X			
CCB	1.0	1024				X	X		X			X			X						X	X			
PBW	1.0	1027				X	X		X			X			X						X	X			
ZZZZZZ	1.0	1031																							
LCSW	1.0	1035				X	X		X			X			X						X	X			
PBW	1.0	1041				X	X		X			X			X						X	X			
IDW-SOIL	1.0	1044				X	X		X			X			X						X	X			
ZZZZZZ	1.0	1048																							
ZZZZZZ	1.0	1052																							
ZZZZZZ	1.0	1056																							
ZZZZZZ	1.0	1059																							
CCV	1.0	1103				X	X		X			X			X						X	X			
CCB	1.0	1107				X	X		X			X			X						X	X			

ANALYTICAL QC SUMMARY REPORT

CLIENT: URS Corporation

Work Order: L0438

SW7.3.3.2_S

Project: Klink Cosmo Mecker

SW846 7.3.3.2 -- Reactive Cyanide Released from Wastes

Sample ID: MB-65042	SampType: MBLK	TestCode: SW7.3.3.2_S	Units: mg/Kg	Prep Date: 03/09/12 8:30	Run ID: LACHAT1_120312A
Client ID: MB-65042	Batch ID: 65042	MDL	RL	Analysis Date: 03/12/12 11:14	SeqNo: 1703661
Analyte	Result	MDL	RL	SPK Ref Val	%REC LowLimit HighLimit
Reactive Cyanide	ND	1.0	1.0	SPK value	RPD Ref Val %RPD RPDLimit Qual
Sample ID: LCS-65042	SampType: LCS	TestCode: SW7.3.3.2_S	Units: mg/Kg	Prep Date: 03/09/12 8:30	Run ID: LACHAT1_120312A
Client ID: LCS-65042	Batch ID: 65042	MDL	RL	Analysis Date: 03/12/12 11:16	SeqNo: 1703662
Analyte	Result	MDL	RL	SPK Ref Val	%REC LowLimit HighLimit
Reactive Cyanide	ND	1.0	1.0	SPK value	RPD Ref Val %RPD RPDLimit Qual
Sample ID: LCSD-65042	SampType: LCSD	TestCode: SW7.3.3.2_S	Units: mg/Kg	Prep Date: 03/09/12 8:30	Run ID: LACHAT1_120312A
Client ID: LCSD-65042	Batch ID: 65042	MDL	RL	Analysis Date: 03/12/12 11:19	SeqNo: 1703663
Analyte	Result	MDL	RL	SPK Ref Val	%REC LowLimit HighLimit
Reactive Cyanide	ND	1.0	1.0	SPK value	RPD Ref Val %RPD RPDLimit Qual

CHAIN OF CUSTODY RECORD

PROJECT NO.

1176390, 00002

SITE NAME

Leidy Cosmo

SAMPLERS (PRINT/SIGNATURE)

S. VALLABH M. ABDEL AZIZ

DELIVERY SERVICE: Sh. Courner AIRBILL NO.:TOTAL NO.#
CONTAINERS

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX
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CON GR

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FIELD TIONS

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REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Klink Cosmo Meeker

Laboratory Workorder / SDG #: L0460

SW846 8260C, VOC by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8260C

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW5035

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: V1
Instrument Type: GCMS-VOA
Description: HP5890 II / HP5972
Manufacturer: Hewlett-Packard
Model: 5890 / 5972

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits with the following exceptions. Please note that most test procedures allow for several compounds outside of the QC limits for the LCS, although this may indicate a bias for this specific compound.

LCSD-65037 in batch 65037, Percent Recovery is outside QC Limits, recovery is below criteria for Iodomethane at 70% with criteria of (70-126).

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

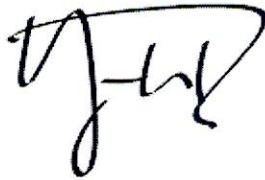
F. Dilutions:

No sample in this SDG required analysis at dilution.

G. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

A handwritten signature in black ink, appearing to be 'J. H. P.', written over a horizontal line.

Signed:_____

Date: 3/25/2012

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

MB-65037

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0460 Mod. Ref No.: _____ SDG No.: SL0460
Lab File ID: V1M5476.D Lab Sample ID: MB-65037
Instrument ID: V1
Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 03/09/2012
Level: (TRACE or LOW/MED) LOW Time Analyzed: 12:14
GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS-65037	LCS-65037	V1M5472.D	10:21
02	LCSD-65037	LCSD-65037	V1M5473.D	10:49
03	SG-122 2-2.5	L0460-01A	V1M5485.D	16:37
04	SG-120 2-2.5	L0460-02A	V1M5486.D	17:05
05	SG-121 2-2.5	L0460-03A	V1M5487.D	17:33
06	DEC-090D 30-31	L0460-04A	V1M5488.D	18:01

COMMENTS:

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-65037

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0460 Mod. Ref No.: _____ SDG No.: SL0460
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-65037
Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1M5476.D
Level: (TRACE/LOW/MED) LOW Date Received: _____
% Moisture: not dec. 0.0 Date Analyzed: 03/09/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	2.3	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB1T

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0460 Mod. Ref No.: _____ SDG No.: SL0460
Lab File ID: V1M5470.D BFB Injection Date: 03/09/2012
Instrument ID: V1 BFB Injection Time: 8:40
GC Column: DB-624 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.8
75	30.0 - 60.0% of mass 95	42.9
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	87.6
175	5.0 - 9.0% of mass 174	7.0 (8.0)1
176	95.0 - 101.0% of mass 174	83.7 (95.6)1
177	5.0 - 9.0% of mass 176	6.0 (7.2)2

1 - Value is % mass 174

2 - Value is % mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0501T	VSTD0501T	V1M5471.D	03/09/2012	9:54
02	LCS-65037	LCS-65037	V1M5472.D	03/09/2012	10:21
03	LCSD-65037	LCSD-65037	V1M5473.D	03/09/2012	10:49
04	MB-65037	MB-65037	V1M5476.D	03/09/2012	12:14
05	SG-122 2-2.5	L0460-01A	V1M5485.D	03/09/2012	16:37
06	SG-120 2-2.5	L0460-02A	V1M5486.D	03/09/2012	17:05
07	SG-121 2-2.5	L0460-03A	V1M5487.D	03/09/2012	17:33
08	DEC-090D 30-31	L0460-04A	V1M5488.D	03/09/2012	18:01

6A - FORM VI VOA-1
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L0460 Mod. Ref No.: _____ SDG No.: SL0460

Instrument ID: V1 Calibration Date(s): 03/01/2012 03/01/2012

Heated Purge: (Y/N) Y Calibration Time(s): 14:38 16:28

Purge Volume: 5.0 (mL)

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

LAB FILE ID: _____	RRF005 = _____	V1M5341.D	RRF020 = _____	V1M5342.D			
RRF050 = _____	V1M5343.D	RRF100 = _____	V1M5344.D	RRF200 = _____			
V1M5345.D							
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF	%RSD
Dichlorodifluoromethane	0.300	0.291	0.245	0.270	0.262	0.274	8.2
Chloromethane	0.502	0.474	0.420	0.455	0.437	0.458	7.0
Vinyl chloride	0.391	0.383	0.337	0.352	0.340	0.361	6.9
Bromomethane	0.258	0.237	0.213	0.244	0.244	0.239	6.9
Chloroethane	0.275	0.217	0.199	0.202	0.202	0.219	14.6
Trichlorofluoromethane	0.463	0.473	0.448	0.460	0.457	0.460	2.0
1,1-Dichloroethene	0.255	0.373	0.358	0.369	0.354	0.342	14.3
Acetone	0.056	0.039	0.036	0.037	0.034	0.040	22.6
Iodomethane	0.688	0.636	0.614	0.642	0.619	0.640	4.6
Carbon disulfide	1.191	1.156	1.060	1.095	1.063	1.113	5.2
Methylene chloride	0.500	0.421	0.355	0.389	0.374	0.408	13.9
trans-1,2-Dichloroethene	0.421	0.401	0.363	0.371	0.373	0.386	6.3
Methyl tert-butyl ether	0.851	0.854	0.775	0.863	0.860	0.841	4.4
1,1-Dichloroethane	0.649	0.640	0.570	0.625	0.594	0.615	5.3
Vinyl acetate	1.097	1.131	0.948	1.066	1.044	1.057	6.6
2-Butanone	0.036	0.035	0.034	0.037	0.035	0.035	2.6
cis-1,2-Dichloroethene	0.473	0.427	0.390	0.426	0.405	0.424	7.4
2,2-Dichloropropane	0.260	0.280	0.247	0.241	0.237	0.253	7.0
Bromochloromethane	0.207	0.211	0.186	0.209	0.198	0.202	5.0
Chloroform	0.645	0.673	0.598	0.662	0.647	0.645	4.4
1,1,1-Trichloroethane	0.441	0.464	0.420	0.424	0.407	0.431	5.1
1,1-Dichloropropene	0.178	0.171	0.162	0.169	0.170	0.170	3.4
Carbon tetrachloride	0.376	0.392	0.373	0.381	0.377	0.380	1.9
1,2-Dichloroethane	0.504	0.469	0.430	0.465	0.449	0.463	5.9
Benzene	1.477	1.430	1.250	1.361	1.303	1.364	6.7
Trichloroethene	0.419	0.434	0.382	0.407	0.393	0.407	5.1
1,2-Dichloropropane	0.329	0.349	0.319	0.352	0.340	0.338	4.1
Dibromomethane	0.237	0.246	0.228	0.246	0.241	0.240	3.2
Bromodichloromethane	0.486	0.482	0.455	0.513	0.497	0.486	4.4
cis-1,3-Dichloropropene	0.555	0.577	0.503	0.571	0.562	0.554	5.3
4-Methyl-2-pentanone	0.322	0.232	0.229	0.263	0.253	0.260	14.6
Toluene	1.419	1.456	1.353	1.426	1.389	1.409	2.8
trans-1,3-Dichloropropene	0.407	0.446	0.420	0.483	0.480	0.447	7.6
1,1,2-Trichloroethane	0.312	0.297	0.267	0.292	0.291	0.292	5.5
1,3-Dichloropropane	0.689	0.653	0.603	0.689	0.663	0.660	5.4
Tetrachloroethene	0.637	0.574	0.529	0.544	0.518	0.560	8.5
2-Hexanone	0.322	0.227	0.236	0.270	0.259	0.263	14.1
Dibromochloromethane	0.517	0.513	0.485	0.557	0.546	0.524	5.5
1,2-Dibromoethane	0.401	0.425	0.394	0.455	0.444	0.424	6.3

6B - FORM VI VOA-2
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L0460 Mod. Ref No.: _____ SDG No.: SL0460

Instrument ID: V1 Calibration Date(s): 03/01/2012 03/01/2012

Heated Purge: (Y/N) Y Calibration Time(s): 14:38 16:28

Purge Volume: 5.0 (mL)

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

LAB FILE ID: _____	RRF005 = V1M5341.D	RRF020 = V1M5342.D					
RRF050 = V1M5343.D	RRF100 = V1M5344.D	RRF200 = V1M5345.D					
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF	%RSD
Chlorobenzene	1.326	1.276	1.163	1.283	1.243	1.258	4.8
1,1,1,2-Tetrachloroethane	0.438	0.477	0.444	0.489	0.489	0.467	5.3
Ethylbenzene	0.659	0.670	0.607	0.677	0.672	0.657	4.4
m,p-Xylene	0.777	0.838	0.767	0.843	0.823	0.810	4.4
o-Xylene	0.831	0.831	0.733	0.818	0.810	0.805	5.1
Xylene (Total)	0.795	0.836	0.756	0.835	0.819	0.808	4.2
Styrene	1.349	1.369	1.209	1.390	1.378	1.339	5.5
Bromoform	0.261	0.306	0.282	0.338	0.341	0.306	11.4
Isopropylbenzene	2.012	2.074	1.879	2.032	2.021	2.004	3.7
1,1,2,2-Tetrachloroethane	1.006	0.926	0.829	0.893	0.874	0.906	7.3
Bromobenzene	1.154	1.103	0.997	1.081	1.054	1.078	5.4
1,2,3-Trichloropropane	0.965	0.894	0.909	0.934	0.928	0.926	2.9
n-Propylbenzene	1.066	0.997	0.927	0.959	0.953	0.980	5.5
2-Chlorotoluene	0.952	1.005	0.887	0.947	0.906	0.939	4.9
1,3,5-Trimethylbenzene	3.510	3.431	3.000	3.122	3.060	3.225	7.1
4-Chlorotoluene	0.998	1.007	0.849	0.935	0.925	0.943	6.8
tert-Butylbenzene	3.055	3.148	2.775	2.930	2.846	2.951	5.1
1,2,4-Trimethylbenzene	3.188	3.373	2.871	3.065	3.046	3.109	6.0
sec-Butylbenzene	4.579	4.331	3.696	3.910	3.912	4.085	8.8
4-Isopropyltoluene	3.450	3.174	2.742	2.921	2.913	3.040	9.1
1,3-Dichlorobenzene	2.140	2.015	1.792	1.968	1.891	1.961	6.7
1,4-Dichlorobenzene	1.979	2.048	1.755	1.973	1.910	1.933	5.7
n-Butylbenzene	3.290	2.931	2.542	2.816	2.903	2.897	9.3
1,2-Dichlorobenzene	1.948	1.853	1.676	1.844	1.749	1.814	5.8
1,2-Dibromo-3-chloropropane	0.134	0.122	0.103	0.120	0.122	0.120	9.2
1,2,4-Trichlorobenzene	0.968	0.868	0.708	0.847	0.881	0.854	11.0
Hexachlorobutadiene	0.730	0.559	0.444	0.483	0.539	0.551	20.0
1,2,3-Trichlorobenzene	0.812	0.715	0.634	0.771	0.806	0.748	10.0
Naphthalene	2.010	1.500	1.407	1.644	1.701	1.652	14.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.338	0.322	0.287	0.332	0.321	0.320	6.2
1,4-Dioxane	0.001	0.002	0.002	0.002	0.003	0.002	26.4
Cyclohexane	0.441	0.550	0.483	0.543	0.497	0.503	8.9
Methyl acetate	0.216	0.222	0.207	0.206	0.204	0.211	3.6
Methylcyclohexane	0.595	0.606	0.537	0.563	0.571	0.574	4.7

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L0460 Mod. Ref No.: _____ SDG No.: SL0460

Instrument ID: V1 Calibration Date: 03/09/2012 Time: 9:54

Lab File ID: V1M5471.D Init. Calib. Date(s): 03/01/2012 03/01/2012

EPA Sample No. (VSTD####) VSTD0501T Init. Calib. Time(s): 14:38 16:28

Heated Purge: (Y/N) Y GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.274	0.256	0.100	-6.5	20.0
Chloromethane	0.458	0.429	0.010	-6.2	20.0
Vinyl chloride	0.361	0.310	0.010	-14.0	20.0
Bromomethane	0.239	0.231	0.010	-3.2	20.0
Chloroethane	0.219	0.178	0.010	-18.7	20.0
Trichlorofluoromethane	0.460	0.477	0.010	3.6	20.0
1,1-Dichloroethene	0.342	0.336	0.100	-1.6	20.0
Acetone	0.040	0.034	0.010	-14.4	20.0
Iodomethane	0.640	0.506	0.010	-21.0	20.0
Carbon disulfide	1.113	1.002	0.010	-10.0	20.0
Methylene chloride	0.408	0.355	0.010	-13.0	20.0
trans-1,2-Dichloroethene	0.386	0.347	0.010	-9.9	20.0
Methyl tert-butyl ether	0.841	0.707	0.010	-15.8	20.0
1,1-Dichloroethane	0.615	0.548	0.010	-11.0	20.0
Vinyl acetate	1.057	0.908	0.010	-14.1	20.0
2-Butanone	0.035	0.034	0.010	-3.7	20.0
cis-1,2-Dichloroethene	0.424	0.380	0.010	-10.5	20.0
2,2-Dichloropropane	0.253	0.241	0.010	-4.9	20.0
Bromochloromethane	0.202	0.193	0.010	-4.4	20.0
Chloroform	0.645	0.596	0.010	-7.6	20.0
1,1,1-Trichloroethane	0.431	0.426	0.010	-1.2	20.0
1,1-Dichloropropene	0.170	0.173	0.010	1.7	20.0
Carbon tetrachloride	0.380	0.391	0.010	2.9	20.0
1,2-Dichloroethane	0.463	0.436	0.010	-5.8	20.0
Benzene	1.364	1.195	0.010	-12.4	20.0
Trichloroethene	0.407	0.398	0.010	-2.3	20.0
1,2-Dichloropropane	0.338	0.300	0.010	-11.0	20.0
Dibromomethane	0.240	0.228	0.010	-4.7	20.0
Bromodichloromethane	0.486	0.462	0.010	-5.1	20.0
cis-1,3-Dichloropropene	0.554	0.498	0.010	-10.0	20.0
4-Methyl-2-pentanone	0.260	0.235	0.010	-9.5	20.0
Toluene	1.409	1.332	0.010	-5.5	20.0
trans-1,3-Dichloropropene	0.447	0.418	0.010	-6.6	20.0
1,1,2-Trichloroethane	0.292	0.276	0.010	-5.4	20.0
1,3-Dichloropropane	0.660	0.625	0.010	-5.2	20.0
Tetrachloroethene	0.560	0.539	0.010	-3.7	20.0
2-Hexanone	0.263	0.243	0.010	-7.5	20.0
Dibromochloromethane	0.524	0.548	0.010	4.6	20.0
1,2-Dibromoethane	0.424	0.440	0.010	3.7	20.0
Chlorobenzene	1.258	1.275	0.010	1.4	20.0

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Klink Cosmo Meeker

Laboratory Workorder / SDG #: L0486

SW846 8260C, VOC by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8260C

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW5035

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: V5
Instrument Type: GCMS-VOA
Description: HP6890 / HP6890
Manufacturer: Hewlett-Packard
Model: 6890 / 6890

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits with the following exceptions. Please note that most test procedures allow for several compounds outside of the QC limits for the LCS, although this may indicate a bias for this specific compound.

LCS-65144 in batch 65144, Percent Recovery is outside QC Limits, recovery is above criteria for Acetone at 160% with criteria of (20-160).

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

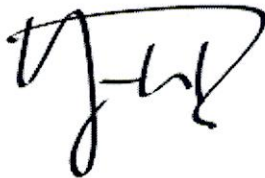
F. Dilutions:

No sample in this SDG required analysis at dilution.

G. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

A handwritten signature in black ink, appearing to be 'J. H. P.', written over a horizontal line.

Signed: _____

Date: _____ 3/26/2012 _____

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

MB-65144

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0486 Mod. Ref No.: _____ SDG No.: SL0486
Lab File ID: V5N5244.D Lab Sample ID: MB-65144
Instrument ID: V5
Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 03/16/2012
Level: (TRACE or LOW/MED) LOW Time Analyzed: 11:29
GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS-65144	LCS-65144	V5N5242.D	10:34
02	DEC-091D 30-31	L0486-01A	V5N5251.D	14:41

COMMENTS: _____

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-65144

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0486 Mod. Ref No.: _____ SDG No.: SL0486
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-65144
Sample wt/vol: 5.00 (g/mL) G Lab File ID: V5N5244.D
Level: (TRACE/LOW/MED) LOW Date Received: _____
% Moisture: not dec. 0.0 Date Analyzed: 03/16/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	1.4	J
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB5Q

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0486 Mod. Ref No.: _____ SDG No.: SL0486
Lab File ID: V5N5240.D BFB Injection Date: 03/16/2012
Instrument ID: V5 BFB Injection Time: 9:38
GC Column: DB-624 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.9
75	30.0 - 60.0% of mass 95	41.7
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.1
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	71.4
175	5.0 - 9.0% of mass 174	5.7 (7.9)1
176	95.0 - 101.0% of mass 174	68.3 (95.5)1
177	5.0 - 9.0% of mass 176	4.1 (5.9)2

1 - Value is % mass 174

2 - Value is % mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0505Q	VSTD0505Q	V5N5241.D	03/16/2012	10:06
02	LCS-65144	LCS-65144	V5N5242.D	03/16/2012	10:34
03	MB-65144	MB-65144	V5N5244.D	03/16/2012	11:29
04	DEC-091D 30-31	L0486-01A	V5N5251.D	03/16/2012	14:41

6A - FORM VI VOA-1
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L0486 Mod. Ref No.: _____ SDG No.: SL0486

Instrument ID: V5 Calibration Date(s): 03/15/2012 03/15/2012

Heated Purge: (Y/N) Y Calibration Time(s): 21:39 23:29

Purge Volume: 5.0 (mL)

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

LAB FILE ID: _____	RRF005 = _____	RRF020 = _____					
RRF050 = _____	RRF100 = _____	RRF200 = _____					
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF	%RSD
Dichlorodifluoromethane	0.281	0.240	0.202	0.261	0.238	0.245	12.1
Chloromethane	0.477	0.472	0.452	0.439	0.412	0.450	5.8
Vinyl chloride	0.400	0.410	0.381	0.373	0.360	0.385	5.2
Bromomethane	0.322	0.322	0.302	0.290	0.266	0.301	7.9
Chloroethane	0.239	0.228	0.222	0.224	0.206	0.224	5.3
Trichlorofluoromethane	0.395	0.394	0.363	0.395	0.367	0.383	4.3
1,1-Dichloroethene	0.297	0.279	0.267	0.291	0.267	0.280	4.8
Acetone	0.034	0.022	0.026	0.017	0.018	0.024	30.2
Iodomethane	0.663	0.673	0.634	0.640	0.615	0.645	3.6
Carbon disulfide	1.111	1.098	0.990	1.088	0.972	1.052	6.2
Methylene chloride	0.511	0.422	0.364	0.341	0.341	0.396	18.4
trans-1,2-Dichloroethene	0.329	0.328	0.298	0.324	0.298	0.315	5.1
Methyl tert-butyl ether	0.770	0.706	0.694	0.577	0.616	0.672	11.4
1,1-Dichloroethane	0.607	0.591	0.538	0.547	0.522	0.561	6.5
Vinyl acetate	1.035	1.023	0.959	0.796	0.796	0.922	12.8
2-Butanone	0.020	0.025	0.027	0.020	0.022	0.023	13.3
cis-1,2-Dichloroethene	0.341	0.341	0.308	0.323	0.298	0.322	6.0
2,2-Dichloropropane	0.374	0.354	0.309	0.335	0.298	0.334	9.4
Bromochloromethane	0.167	0.186	0.166	0.151	0.158	0.165	7.9
Chloroform	0.499	0.495	0.453	0.457	0.429	0.466	6.4
1,1,1-Trichloroethane	0.364	0.370	0.342	0.375	0.339	0.358	4.6
1,1-Dichloropropene	0.166	0.143	0.138	0.156	0.136	0.148	8.5
Carbon tetrachloride	0.349	0.345	0.313	0.349	0.319	0.335	5.2
1,2-Dichloroethane	0.312	0.296	0.298	0.257	0.255	0.284	9.1
Benzene	1.137	1.145	1.037	1.085	0.978	1.076	6.5
Trichloroethene	0.313	0.339	0.308	0.333	0.307	0.320	4.6
1,2-Dichloropropane	0.308	0.307	0.293	0.288	0.280	0.295	4.2
Dibromomethane	0.175	0.174	0.170	0.144	0.154	0.163	8.4
Bromodichloromethane	0.356	0.353	0.336	0.317	0.319	0.336	5.5
cis-1,3-Dichloropropene	0.414	0.432	0.416	0.386	0.389	0.407	4.8
4-Methyl-2-pentanone	0.116	0.221	0.242	0.173	0.202	0.191	25.5
Toluene	1.150	1.100	1.018	1.048	0.945	1.052	7.4
trans-1,3-Dichloropropene	0.310	0.322	0.342	0.299	0.309	0.316	5.2
1,1,2-Trichloroethane	0.209	0.215	0.212	0.180	0.191	0.201	7.5
1,3-Dichloropropane	0.472	0.501	0.462	0.429	0.434	0.459	6.5
Tetrachloroethene	0.360	0.343	0.331	0.361	0.331	0.345	4.3
2-Hexanone	0.136	0.177	0.220	0.166	0.197	0.179	17.6
Dibromochloromethane	0.394	0.418	0.392	0.362	0.386	0.390	5.1
1,2-Dibromoethane	0.329	0.334	0.335	0.295	0.315	0.322	5.2

6B - FORM VI VOA-2
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L0486 Mod. Ref No.: _____ SDG No.: SL0486

Instrument ID: V5 Calibration Date(s): 03/15/2012 03/15/2012

Heated Purge: (Y/N) Y Calibration Time(s): 21:39 23:29

Purge Volume: 5.0 (mL)

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

LAB FILE ID: _____	RRF005 = _____	RRF020 = _____					
RRF050 = _____	RRF100 = _____	RRF200 = _____					
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF	%RSD
Chlorobenzene	1.058	1.028	0.949	1.030	0.964	1.006	4.7
1,1,1,2-Tetrachloroethane	0.393	0.385	0.349	0.369	0.358	0.371	4.9
Ethylbenzene	0.510	0.504	0.477	0.540	0.499	0.506	4.5
m,p-Xylene	0.663	0.682	0.605	0.679	0.579	0.641	7.3
o-Xylene	0.661	0.655	0.596	0.668	0.611	0.638	5.1
Xylene (Total)	0.663	0.673	0.602	0.675	0.589	0.640	6.5
Styrene	1.092	1.129	1.013	1.099	1.005	1.067	5.2
Bromoform	0.229	0.244	0.243	0.208	0.233	0.231	6.2
Isopropylbenzene	1.670	1.700	1.542	1.732	1.492	1.627	6.4
1,1,2,2-Tetrachloroethane	0.811	0.816	0.787	0.691	0.706	0.762	7.8
Bromobenzene	0.850	0.835	0.782	0.872	0.820	0.832	4.1
1,2,3-Trichloropropane	0.844	0.811	0.807	0.744	0.750	0.791	5.4
n-Propylbenzene	0.844	0.889	0.800	1.021	0.886	0.888	9.3
2-Chlorotoluene	0.821	0.822	0.759	0.891	0.812	0.821	5.7
1,3,5-Trimethylbenzene	2.599	2.669	2.409	2.860	2.397	2.587	7.5
4-Chlorotoluene	0.853	0.795	0.792	0.937	0.834	0.842	7.0
tert-Butylbenzene	2.699	2.764	2.879	3.343	2.860	2.909	8.7
1,2,4-Trimethylbenzene	2.686	2.719	2.452	2.781	2.374	2.602	6.9
sec-Butylbenzene	3.782	3.760	3.377	3.957	3.333	3.642	7.5
4-Isopropyltoluene	2.861	2.944	2.664	3.141	2.619	2.846	7.5
1,3-Dichlorobenzene	1.336	1.495	1.396	1.572	1.448	1.449	6.3
1,4-Dichlorobenzene	1.821	1.693	1.510	1.653	1.534	1.642	7.7
n-Butylbenzene	2.516	2.823	2.538	2.973	2.413	2.652	8.9
1,2-Dichlorobenzene	1.594	1.473	1.398	1.446	1.348	1.452	6.4
1,2-Dibromo-3-chloropropane	0.101	0.111	0.106	0.084	0.094	0.099	10.5
1,2,4-Trichlorobenzene	0.900	1.057	0.963	0.950	0.914	0.957	6.4
Hexachlorobutadiene	0.684	0.729	0.616	0.706	0.594	0.666	8.8
1,2,3-Trichlorobenzene	0.819	0.926	0.859	0.809	0.817	0.846	5.8
Naphthalene	1.080	1.593	1.769	1.311	1.621	1.475	18.7
1,1,2-Trichloro-1,2,2-trifluoroethane	0.233	0.301	0.268	0.310	0.282	0.279	10.9
1,4-Dioxane	0.002	0.002	0.002	0.002	0.002	0.002	17.4
Cyclohexane	0.535	0.544	0.452	0.551	0.487	0.514	8.3
Methyl acetate	0.236	0.204	0.192	0.129	0.152	0.183	23.3
Methylcyclohexane	0.484	0.475	0.392	0.499	0.450	0.460	9.1

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L0486 Mod. Ref No.: _____ SDG No.: SL0486

Instrument ID: V5 Calibration Date: 03/16/2012 Time: 10:06

Lab File ID: V5N5241.D Init. Calib. Date(s): 03/15/2012 03/15/2012

EPA Sample No. (VSTD####) VSTD0505Q Init. Calib. Time(s): 21:39 23:29

Heated Purge: (Y/N) Y GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
1,1,1,2-Tetrachloroethane	0.371	0.347	0.010	-6.5	20.0
Ethylbenzene	0.506	0.515	0.010	1.8	20.0
m,p-Xylene	0.641	0.662	0.010	3.2	20.0
o-Xylene	0.638	0.626	0.010	-1.9	20.0
Xylene (Total)	0.640	0.650	0.010	1.5	20.0
Styrene	1.067	1.021	0.010	-4.3	20.0
Bromoform	0.231	0.205	0.010	-11.5	20.0
Isopropylbenzene	1.627	1.622	0.300	-0.3	20.0
1,1,2,2-Tetrachloroethane	0.762	0.699	0.300	-8.2	20.0
Bromobenzene	0.832	0.823	0.010	-1.0	20.0
1,2,3-Trichloropropane	0.791	0.714	0.010	-9.8	20.0
n-Propylbenzene	0.888	0.943	0.010	6.2	20.0
2-Chlorotoluene	0.821	0.821	0.010	0.0	20.0
1,3,5-Trimethylbenzene	2.587	2.678	0.010	3.5	20.0
4-Chlorotoluene	0.842	0.865	0.010	2.7	20.0
tert-Butylbenzene	2.909	3.176	0.010	9.2	20.0
1,2,4-Trimethylbenzene	2.602	2.640	0.010	1.4	20.0
sec-Butylbenzene	3.642	3.773	0.010	3.6	20.0
4-Isopropyltoluene	2.846	2.999	0.010	5.4	20.0
1,3-Dichlorobenzene	1.449	1.501	0.010	3.5	20.0
1,4-Dichlorobenzene	1.642	1.574	0.010	-4.1	20.0
n-Butylbenzene	2.652	2.818	0.100	6.3	20.0
1,2-Dichlorobenzene	1.452	1.347	0.010	-7.2	20.0
1,2-Dibromo-3-chloropropane	0.099	0.079	0.010	-20.8	20.0
1,2,4-Trichlorobenzene	0.957	0.900	0.010	-5.9	20.0
Hexachlorobutadiene	0.666	0.642	0.010	-3.6	20.0
1,2,3-Trichlorobenzene	0.846	0.740	0.010	-12.5	20.0
Naphthalene	1.475	0.884	0.010	-40.0	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.279	0.299	0.010	7.3	20.0
1,4-Dioxane	0.002	0.002	0.010	-6.9	20.0
Cyclohexane	0.514	0.520	0.010	1.2	20.0
Methyl acetate	0.183	0.146	0.010	-20.0	20.0
Methylcyclohexane	0.460	0.460	0.010	0.0	20.0

DATA USABILITY SUMMARY REPORT

**PHASE II REMIDIAL INVESTIGATION
NYSDEC WORK ASSIGNMENT C007540-4
MARCH 2012 SAMPLING EVENT**

**FORMER KLINK COSMO CLEANERS SITE
EAST WILLIAMSBURG INDUSTRIAL AREA
BOROUGH OF BROOKLYN
KINGS COUNTY, NEW YORK
Site No. 22430**

Prepared by:

**URS CORPORATION
77 GOODELL STREET
BUFFALO, NY 14203**

JUNE 2012

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TABLES (Following Text)

Table 1	Summary of Data Qualifications
Table 2	Validated Air Sample Results

ATTACHMENTS

ATTACHMENT A	Validated Form 1's
ATTACHMENT B	Support Documentation

1.0 INTRODUCTION

This Data Usability Summary Report (DUSR) has been prepared following the guidelines provided in New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation *DER-10 Technical Guidance for Site Investigation and Remediation, Appendix 2B-Guidance for Data Deliverables and the Development of Data Usability and Summary Reports*, May 2010. Analytical data for 38 soil gas samples, 4 soil gas field duplicates, and 3 ambient air samples collected by URS personnel on March 5-7, 2012 from the Former Klink Cosmo Cleaners site, work assignment C007540-4 are discussed in this DUSR.

2.0 ANALYTICAL METHODOLOGIES

All samples were sent to Pace Analytical Services, Inc. (Minneapolis, Mn) for analysis. The air samples were analyzed for volatile organic compounds (VOCS) by United States Environmental Protection Agency (USEPA) Compendium of Methods for the Determination of Toxic Compounds in Ambient Air Method TO-15.

A limited data validation was performed following the guidelines in the following USEPA Region II document:

- *Validating Volatile Organic Analysis of Ambient Air in Canister by Method TO-15, SOP HW-31, Rev. 4, August 2006.*

The limited validation included: a review of completeness of all required deliverables; holding times; a review of quality control (QC) results (blanks, instrument tunings, calibration standards, duplicate analyses, and laboratory control sample (LCS) recoveries to determine if the data are within the protocol-required limits and specifications; a determination that all samples were analyzed using established and agreed upon analytical protocols; an evaluation of the raw data to confirm the results provided in the data summary sheets; and a review of laboratory data qualifiers.

Qualifications applied to the data include 'J' (estimated concentration), 'UJ' (estimated quantitation limit), and 'R' (rejected/data unusable). Definitions of USEPA Region II data qualifiers are presented at the end of this text. A summary of data qualifications is provided on Table 1. The validated analytical results are presented on Table 2. Copies of the validated laboratory results (i.e., Form 1's) are presented in Attachment A. Documentation supporting the qualification of data is presented in

Attachment B. Only analytical deviations affecting data usability are discussed in this report.

3.0 DATA DELIVERABLE COMPLETENESS

Full deliverable data packages [i.e., NYSDEC ASP, Category B (or equivalent)] were provided by the laboratory, which included all reporting forms and raw data necessary to fully evaluate and verify the reported analytical results.

4.0 PRESERVATION/SAMPLE RECEIPT/HOLDING TIMES

All samples were received by the laboratory intact and under proper chain-of-custody (COC). All samples were analyzed within the required holding times.

5.0 NON-CONFORMANCES

Instrument Calibration

The relative response factor (RRF) for chloroethane in the continuing calibration (CCAL) standard associated with some of the samples was below the lower QC limit (0.05). The non-detected results for chloroethane in the associated samples listed on Table 1 have been qualified 'R'.

The percent difference (%D) between the initial calibration curve (ICAL) average RRF and the RRF in one or more of the CCAL standards associated with the samples exceeded the QC limit of 30% for 1,2,4-trichlorobenzene and/or 1,2-dichlorotetrafluoroethane. The non-detect results for these compounds in the associated samples listed on Table 1 were qualified 'UJ'.

6.0 SAMPLE RESULTS AND REPORTING

All quantitation detection limits were reported in accordance with method requirements and were adjusted for sample volume and dilution factors. Results reported from a secondary dilution were qualified 'D'. Results below the quantitation limits were qualified 'J' by the laboratory.

Field duplicates were collected at locations SG-082, SG-120, SS-019, and SS-049. In general the sample and field duplicate results were similar, with the relative percent differences (%RPDs) between the two results being less than 50%. The USEPA Region II validation guidelines do not require qualification of VOC analytical results based upon field duplicate precision.

Soil gas samples SG-044, SG-062, SG-080, SG-085, and SG-122 exhibited concentrations of ethanol and/or methylene chloride over the linear range of calibration. Since ethanol and methylene chloride are not considered compounds of concern at this site, no further dilution was performed by the laboratory. The ethanol and/or methylene chloride results in these samples were qualified 'J' due to the calibration exceedance.

Soil gas samples SG-049, FD-03072012-1 (SG-049), SG-116, SG-117, and SG-119 exhibited linear range of calibration exceedances for tetrachloroethene (PCE). The concentration of PCE was still over the linear range of calibration in the secondary dilutions. The results have been reported from the secondary dilution and were qualified 'J' due to the calibration exceedance.

7.0 SUMMARY

All sample analyses were found to be compliant with the method criteria, except where previously noted. Those results qualified 'J' or 'UJ' are considered conditionally usable. Those results qualified 'R' are unusable. All other sample results are usable as reported. URS does not recommend the recollection of any samples at this time.

Prepared By: Ann Marie Kropovitch, Chemist



Date: 6/29/12

Reviewed By: Peter R. Fairbanks, Senior Chemist



Date: 6/29/12

DEFINITIONS OF USEPA REGION II DATA QUALIFIERS

- U – The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J – The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ – The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R – The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.
- B – The analyte was detected in the sample at a concentration greater than the instrument detection limit, but less than the quantitation limit.
- D – The positive value is the result of an analysis at a secondary dilution factor.

<p style="text-align: center;">TABLE 1</p> <p style="text-align: center;">SUMMARY OF DATA QUALIFICATIONS</p> <p style="text-align: center;">FORMER KLINK COSMO CLEANERS SITE</p>			
Fraction	Samples	Reason	Action
VOC	SG-042, SG-047, SG-082, and FD-03052012-1 (SG-082)	RRF < 0.05 for chloroethane.	Qualify non-detected results 'R'.
VOC	SG-042, SG-047, SG-049, FD-03072012-1 (SG-049) SG-056, SG-058, SG-063, SG-082, FD-03052012-1 (SG-082), SG-084, SG-086, SG-087, SG-112, SG-120, and FD-03042012-2 (SG-120).	CCAL %D > 30% for 1,2,4-trichlorobenzene.	Qualify non-detected results 'UJ'.
VOC	SG-085 and AA-03072012-1 (AA-040).	CCAL %D > 20% for 1,2,4-trichlorobenzene and 1,2-dichlorotetrafluoroethane.	Qualify non-detected results 'UJ'.
VOC	SG-018, SG-059, SG-061R, and SG-122	CCAL %D > 20% for 1,2-dichlorotetrafluoroethane.	Qualify non-detected results 'UJ'.
VOC	SG-044, SG-062, SG-080, SG-085, and SG-122	Ethanol > linear range of calibration.	Qualify detected results 'J'.
VOC	SG-122	Methylene chloride > linear range of calibration.	Qualify detected results 'J'.
VOC	SG-049, FD-03072012-1 (SG-049), SG-116, SG-117, and SG-119.	Tetrachloroethene > linear range of calibration.	Qualify detected results 'J'.

TABLE 2
VALIDATED AIR SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		AA-038	AA-039	AA-040	SG-018	SG-019
Sample ID		AA-03052012-1	AA-03062012-1	AA-03072012-1	SG-018	FD-03062012-1
Matrix		Outdoor Air	Outdoor Air	Outdoor Air	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/05/12	03/06/12	03/07/12	03/06/12	03/06/12
Parameter	Units					Field Duplicate (1-1)
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	1.7 U	1.7 U	1.7 U	6.3	4.7
1,1,2,2-Tetrachloroethane	UG/M3	1.0 U	1.0 U	1.1 U	3.1	0.97 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	2.4 U	2.4 U	2.5 U	2.3 U	2.2 U
1,1-Dichloroethane	UG/M3	1.2 U	1.2 U	1.3 U	1.2 U	1.1 U
1,1-Dichloroethene	UG/M3	1.2 U	1.2 U	1.3 U	1.2 U	1.1 U
1,2,4-Trichlorobenzene	UG/M3	1.5 U	1.5 U	1.5 UJ	1.4 U	1.4 U
1,2,4-Trimethylbenzene	UG/M3	1.5 U	2.5	1.6	10.5	13.4
1,2-Dibromoethane (Ethylene dibromide)	UG/M3	2.3 U	2.3 U	2.4 U	2.2 U	2.2 U
1,2-Dichlorobenzene	UG/M3	1.8 U	1.8 U	1.9 U	1.8 U	1.7 U
1,2-Dichloroethane	UG/M3	0.61 U	0.61 U	0.64 U	0.59 U	4.4
1,2-Dichloroethene (cis)	UG/M3	1.2 U	1.2 U	1.3 U	14.7	1.1 U
1,2-Dichloroethene (trans)	UG/M3	1.2 U	1.2 U	1.3 U	1.2 U	1.1 U
1,2-Dichloropropane	UG/M3	1.4 U	1.4 U	1.5 U	1.4 U	43.8
1,2-Dichlorotetrafluoroethane	UG/M3	2.1 U	2.1 U	2.2 UJ	2.0 UJ	2.0 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	1.5 U	1.5 U	1.5 U	1.4 U	4.0
1,3-Butadiene	UG/M3	0.67 U	0.67 U	0.70 U	0.65 U	0.63 U
1,3-Dichlorobenzene	UG/M3	1.8 U	1.8 U	1.9 U	10.2	7.1
1,3-Dichloropropene (cis)	UG/M3	1.4 U	1.4 U	1.4 U	1.3 U	1.3 U
1,3-Dichloropropene (trans)	UG/M3	1.4 U	1.4 U	1.4 U	1.3 U	1.3 U
1,4-Dichlorobenzene	UG/M3	1.8 U	1.8 U	1.9 U	1.8 U	1.7 U
1,4-Dioxane	UG/M3	0.55 U	0.55 U	0.57 U	0.53 U	0.51 U
2,2,4-Trimethylpentane	UG/M3	2.6	1.4 U	1.5 U	1.4 U	1.3 U
4-Methyl-2-pentanone	UG/M3	1.2 U	1.2 U	1.3 U	1.2 U	1.2 U

Flags assigned during chemistry validation are shown.

Made By: AMK 5/16/12

Checked By: PRF 6/28/12

Detection Limits shown are PQL

TABLE 2
VALIDATED AIR SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		AA-038	AA-039	AA-040	SG-018	SG-019
Sample ID		AA-03052012-1	AA-03062012-1	AA-03072012-1	SG-018	FD-03062012-1
Matrix		Outdoor Air	Outdoor Air	Outdoor Air	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/05/12	03/06/12	03/07/12	03/06/12	03/06/12
Parameter	Units					Field Duplicate (1-1)
Volatile Organic Compounds						
Benzene	UG/M3	1.7	1.0	1.3	1.1	35.7
Benzyl chloride	UG/M3	1.6 U	1.6 U	1.6 U	1.5 U	1.5 U
Bromodichloromethane	UG/M3	2.0 U	2.0 U	2.1 U	2.0 U	1.9 U
Bromoform	UG/M3	3.1 U	3.1 U	3.3 U	3.0 U	2.9 U
Bromomethane	UG/M3	1.2 U	1.2 U	1.2 U	1.1 U	1.1 U
Carbon tetrachloride	UG/M3	0.95 U	0.95 U	0.99 U	0.92 U	0.89 U
Chlorobenzene	UG/M3	1.4 U	1.4 U	1.5 U	1.4 U	1.3 U
Chloroethane	UG/M3	0.80 U	0.80 U	0.84 U	0.78 U	0.75 U
Chloroform	UG/M3	1.5 U	1.5 U	1.5 U	32.7	194
Chloromethane	UG/M3	0.63 U	0.63 U	0.65 U	0.60 U	0.58 U
Cyclohexane	UG/M3	3.4	1.0 U	1.2	29.7	30.1
Dibromochloromethane	UG/M3	2.6 U	2.6 U	2.7 U	2.5 U	2.4 U
Dichlorodifluoromethane	UG/M3	1.5 J	1.5 U	2.0	1.5	3.4
Ethanol	UG/M3	10	9.4	16.0	69.4	70.5 D
Ethylbenzene	UG/M3	0.58 J	1.3 U	1.8	5.1	11.0
Hexachlorobutadiene	UG/M3	3.3 U	3.3 U	3.4 U	3.2 U	3.1 U
Methyl ethyl ketone (2-Butanone)	UG/M3	2.3	4.2	2.0	3.5	36.2
Methyl tert-butyl ether	UG/M3	1.1 U	1.1 U	1.1 U	1.1 U	1.0 U
Methylene chloride	UG/M3	1.5	1.5	2.0	88.3	14.9
n-Hexane	UG/M3	6.2	1.1 U	2.6	34.1	13.0
Styrene	UG/M3	1.3 U	1.3 U	1.3 U	1.3 U	1.2 U
t-Butyl alcohol	UG/M3	1.4 U	1.4 U	1.4 U	1.3 U	1.3 U
Tetrachloroethene	UG/M3	0.68 J	1.0 U	1.9	958 D	126

Flags assigned during chemistry validation are shown.

Made By: AMK 5/16/12
 Checked By: PRF 6/28/12

Detection Limits shown are PQL

TABLE 2
VALIDATED AIR SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		AA-038	AA-039	AA-040	SG-018	SG-019
Sample ID		AA-03052012-1	AA-03062012-1	AA-03072012-1	SG-018	FD-03062012-1
Matrix		Outdoor Air	Outdoor Air	Outdoor Air	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/05/12	03/06/12	03/07/12	03/06/12	03/06/12
Parameter	Units					Field Duplicate (1-1)
Volatile Organic Compounds						
Toluene	UG/M3	7.3	21.9	15.1	18.8	531 D
Trichloroethene	UG/M3	0.82 U	0.82 U	0.85 U	31.6	9.2
Trichlorofluoromethane	UG/M3	1.7 U	1.0 J	1.8 U	1.2 J	1.6 U
Vinyl chloride	UG/M3	0.39 U	0.39 U	0.40 U	0.37 U	0.36 U
Xylene (total)	UG/M3	2.6 J	4.0	10.8	29.0	51.8

Flags assigned during chemistry validation are shown.

Made By: AMK 5/16/12
 Checked By: PRF 6/28/12

Detection Limits shown are PQL

TABLE 2
VALIDATED AIR SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-019	SG-020	SG-021	SG-042	SG-044
Sample ID		SG-019	SG-020	SG-021	SG-042	SG-044
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/06/12	03/06/12	03/06/12	03/06/12	03/06/12
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	4.9	5.5	33.1 U	12,400 D	18.1
1,1,2,2-Tetrachloroethane	UG/M3	0.97 U	0.97 U	20.8 U	19.4 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	2.2 U	2.2 U	47.7 U	44.5 U	2.4 U
1,1-Dichloroethane	UG/M3	1.1 U	1.1 U	24.4 U	240	1.2 U
1,1-Dichloroethene	UG/M3	1.1 U	1.1 U	24.1 U	25.3	1.2 U
1,2,4-Trichlorobenzene	UG/M3	1.4 U	1.4 U	29.5 U	27.5 UJ	1.5 U
1,2,4-Trimethylbenzene	UG/M3	12.3	1.4 U	29.8 U	27.8 U	10.4
1,2-Dibromoethane (Ethylene dibromide)	UG/M3	2.2 U	2.2 U	46.5 U	43.4 U	2.3 U
1,2-Dichlorobenzene	UG/M3	1.7 U	1.7 U	36.4 U	33.9 U	1.8 U
1,2-Dichloroethane	UG/M3	3.6	0.57 U	12.2 U	11.4 U	0.61 U
1,2-Dichloroethene (cis)	UG/M3	1.1 U	1.1 U	24.1 U	22.5 U	1.2 U
1,2-Dichloroethene (trans)	UG/M3	1.1 U	1.1 U	24.1 U	22.5 U	1.2 U
1,2-Dichloropropane	UG/M3	34.1	1.3 U	28.0 U	26.1 U	1.4 U
1,2-Dichlorotetrafluoroethane	UG/M3	2.0 U	2.0 U	42.3 U	39.5 U	2.1 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	1.4 U	1.4 U	29.8 U	27.8 U	1.5 U
1,3-Butadiene	UG/M3	0.63 U	0.63 U	13.4 U	12.5 U	0.67 U
1,3-Dichlorobenzene	UG/M3	8.1	1.7 U	36.4 U	33.9 U	7.2
1,3-Dichloropropene (cis)	UG/M3	1.3 U	1.3 U	27.4 U	25.6 U	1.4 U
1,3-Dichloropropene (trans)	UG/M3	1.3 U	1.3 U	27.4 U	25.6 U	1.4 U
1,4-Dichlorobenzene	UG/M3	1.7 U	1.7 U	36.4 U	33.9 U	1.8 U
1,4-Dioxane	UG/M3	0.51 U	0.51 U	10.9 U	10.2 U	0.55 U
2,2,4-Trimethylpentane	UG/M3	1.3 U	1.3 U	28.3 U	26.4 U	12.9
4-Methyl-2-pentanone	UG/M3	1.2 U	1.2 U	24.7 U	23.1 U	1.2 U

Flags assigned during chemistry validation are shown.

Made By: AMK 5/16/12

Checked By: PRF 6/28/12

Detection Limits shown are PQL

TABLE 2
VALIDATED AIR SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-019	SG-020	SG-021	SG-042	SG-044
Sample ID		SG-019	SG-020	SG-021	SG-042	SG-044
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/06/12	03/06/12	03/06/12	03/06/12	03/06/12
Parameter	Units					
Volatile Organic Compounds						
Benzene	UG/M3	29.7	0.45 U	9.7 U	9.0 U	7.2
Benzyl chloride	UG/M3	1.5 U	1.5 U	31.3 U	29.2 U	1.6 U
Bromodichloromethane	UG/M3	1.9 U	1.9 U	40.5 U	37.8 U	2.0 U
Bromoform	UG/M3	2.9 U	2.9 U	62.6 U	58.4 U	3.1 U
Bromomethane	UG/M3	1.1 U	1.1 U	23.5 U	22.0 U	1.2 U
Carbon tetrachloride	UG/M3	0.89 U	3.9	19.1 U	17.8 U	0.95 U
Chlorobenzene	UG/M3	1.3 U	1.3 U	28.0 U	26.1 U	1.4 U
Chloroethane	UG/M3	0.75 U	0.75 U	16.1 U	R	0.80 U
Chloroform	UG/M3	211	221 D	29.5 U	36.8	1.5 U
Chloromethane	UG/M3	0.58 U	0.58 U	12.5 U	11.7 U	0.63 U
Cyclohexane	UG/M3	25.2	0.95 U	15.8 J	18.9 U	1.0 U
Dibromochloromethane	UG/M3	2.4 U	2.4 U	51.6 U	48.1 U	2.6 U
Dichlorodifluoromethane	UG/M3	3.7	3.5	23.2 J	28.1 U	1.5 U
Ethanol	UG/M3	83.6	30.4	11.3 U	10.6 U	402 J
Ethylbenzene	UG/M3	11.2	8.1	26.2 U	24.5 U	19.6
Hexachlorobutadiene	UG/M3	3.1 U	3.1 U	65.6 U	61.2 U	3.3 U
Methyl ethyl ketone (2-Butanone)	UG/M3	18.4	3.6	17.9 U	16.7 U	0.89 U
Methyl tert-butyl ether	UG/M3	1.0 U	1.0 U	21.8 U	20.3 U	1.1 U
Methylene chloride	UG/M3	17.5	4.4	17.1 J	19.7 U	1.1 U
n-Hexane	UG/M3	22.1	3.1	12.8 J	20.0 U	10.6
Styrene	UG/M3	1.2 U	1.2 U	25.9 U	24.2 U	1.3 U
t-Butyl alcohol	UG/M3	1.3 U	1.3 U	27.5 U	25.7 U	1.4 U
Tetrachloroethene	UG/M3	141	245 D	21.9	294	149

Flags assigned during chemistry validation are shown.

Made By: AMK 5/16/12

Checked By: PRF 6/28/12

Detection Limits shown are PQL

TABLE 2
VALIDATED AIR SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-019	SG-020	SG-021	SG-042	SG-044
Sample ID		SG-019	SG-020	SG-021	SG-042	SG-044
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/06/12	03/06/12	03/06/12	03/06/12	03/06/12
Parameter	Units					
Volatile Organic Compounds						
Toluene	UG/M3	415 D	57.0	12.9 J	30.6	134
Trichloroethene	UG/M3	8.8	25.7	16.4 U	15.3 U	0.82 U
Trichlorofluoromethane	UG/M3	1.6 U	1.6 U	34.0 U	31.7 U	1.7 U
Vinyl chloride	UG/M3	0.36 U	0.36 U	7.7 U	7.2 U	0.39 U
Xylene (total)	UG/M3	53.8	31.1	52.4 U	48.9 U	95.7

Flags assigned during chemistry validation are shown.

Made By: AMK 5/16/12

Checked By: PRF 6/28/12

Detection Limits shown are PQL

TABLE 2
VALIDATED AIR SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-046	SG-047	SG-048	SG-049	SG-049
Sample ID		SG-046	SG-047	SG-048	FD-03072012-1	SG-049
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/06/12	03/06/12	03/05/12	03/07/12	03/07/12
Parameter	Units				Field Duplicate (1-1)	
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	35.9	14.1	44.1	160	153
1,1,2,2-Tetrachloroethane	UG/M3	1.0 U	0.88 U	1.0 U	20.1 U	20.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	19.1	2.0 U	1.9 J	1,290	1,220
1,1-Dichloroethane	UG/M3	1.2 U	1.0 U	1.2 U	23.6 U	23.6 U
1,1-Dichloroethene	UG/M3	1.2 U	1.0 U	1.2 U	46.8	44.1
1,2,4-Trichlorobenzene	UG/M3	1.4 U	1.2 UJ	1.4 U	28.5 UJ	28.5 UJ
1,2,4-Trimethylbenzene	UG/M3	9.2	8.5	10.5	28.8 U	28.8 U
1,2-Dibromoethane (Ethylene dibromide)	UG/M3	2.2 U	2.0 U	2.2 U	44.9 U	44.9 U
1,2-Dichlorobenzene	UG/M3	1.8 U	1.5 U	1.1 J	35.1 U	35.1 U
1,2-Dichloroethane	UG/M3	0.59 U	0.52 U	2.2	11.8 U	11.8 U
1,2-Dichloroethene (cis)	UG/M3	3.7	1.0 U	1.6	160,000 D	97,100 D
1,2-Dichloroethene (trans)	UG/M3	1.2 U	1.0 U	1.2 U	571	556
1,2-Dichloropropane	UG/M3	1.4 U	1.2 U	1.4 U	27.1 U	27.1 U
1,2-Dichlorotetrafluoroethane	UG/M3	2.0 U	1.8 U	2.0 U	40.9 U	40.9 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	1.4 U	1.3 U	2.1	28.8 U	28.8 U
1,3-Butadiene	UG/M3	0.65 U	0.57 U	0.65 U	13.0 U	13.0 U
1,3-Dichlorobenzene	UG/M3	1.8 U	4.2	1.8 U	35.1 U	35.1 U
1,3-Dichloropropene (cis)	UG/M3	1.3 U	1.2 U	1.3 U	26.5 U	26.5 U
1,3-Dichloropropene (trans)	UG/M3	1.3 U	1.2 U	1.3 U	26.5 U	26.5 U
1,4-Dichlorobenzene	UG/M3	1.8 U	1.5 U	2.6	35.1 U	35.1 U
1,4-Dioxane	UG/M3	0.53 U	0.46 U	0.53 U	10.5 U	10.5 U
2,2,4-Trimethylpentane	UG/M3	1.4 U	8.4	1.5	27.4 U	27.4 U
4-Methyl-2-pentanone	UG/M3	1.2 U	1.0 U	1.2 U	23.9 U	23.9 U

Flags assigned during chemistry validation are shown.

Made By: AMK 5/16/12

Checked By: PRF 6/28/12

Detection Limits shown are PQL

TABLE 2
VALIDATED AIR SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-046	SG-047	SG-048	SG-049	SG-049
Sample ID		SG-046	SG-047	SG-048	FD-03072012-1	SG-049
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/06/12	03/06/12	03/05/12	03/07/12	03/07/12
Parameter	Units				Field Duplicate (1-1)	
Volatile Organic Compounds						
Benzene	UG/M3	4.9	5.1	3.2	9.4 U	32.4
Benzyl chloride	UG/M3	1.5 U	1.3 U	1.5 U	30.2 U	30.2 U
Bromodichloromethane	UG/M3	2.0 U	1.7 U	2.0 U	39.2 U	39.2 U
Bromoform	UG/M3	3.0 U	2.6 U	3.0 U	60.5 U	60.5 U
Bromomethane	UG/M3	1.1 U	1.0 U	1.1 U	22.8 U	22.8 U
Carbon tetrachloride	UG/M3	0.92 U	6.2	0.92 U	1,500	1,420
Chlorobenzene	UG/M3	1.4 U	1.2 U	1.4 U	27.1 U	27.1 U
Chloroethane	UG/M3	0.78 U	R	0.78 U	15.6 U	15.6 U
Chloroform	UG/M3	13.1	24.5	0.77 J	371	354
Chloromethane	UG/M3	0.60 U	0.53 U	0.60 U	12.1 U	12.1 U
Cyclohexane	UG/M3	27.9	7.5	2.1	19.6 U	19.6 U
Dibromochloromethane	UG/M3	2.5 U	2.2 U	2.5 U	49.8 U	49.8 U
Dichlorodifluoromethane	UG/M3	1.5 U	1.3 U	1.8	29.1 U	29.1 U
Ethanol	UG/M3	0.55 U	0.48 U	25.1	18.1	24.5
Ethylbenzene	UG/M3	11.7	12.2	20.2	18.8 J	18.9 J
Hexachlorobutadiene	UG/M3	3.2 U	2.8 U	3.2 U	63.4 U	63.4 U
Methyl ethyl ketone (2-Butanone)	UG/M3	5.9	10.2	2.7	17.3 U	17.3 U
Methyl tert-butyl ether	UG/M3	1.1 U	0.92 U	1.1 U	21.0 U	21.0 U
Methylene chloride	UG/M3	6.0	2.1	1.3	20.4 U	20.4 U
n-Hexane	UG/M3	1.0 U	0.91 U	10.0	20.7 U	20.7 U
Styrene	UG/M3	1.7	1.1 U	2.7	25.1 U	25.1 U
t-Butyl alcohol	UG/M3	1.3 U	1.2 U	1.3 U	26.6 U	26.6 U
Tetrachloroethene	UG/M3	294	617 D	17,600 D	5,140,000 DJ	3,420,000 DJ

Flags assigned during chemistry validation are shown.

Made By: AMK 5/16/12
 Checked By: PRF 6/28/12

Detection Limits shown are PQL

TABLE 2
VALIDATED AIR SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-046	SG-047	SG-048	SG-049	SG-049
Sample ID		SG-046	SG-047	SG-048	FD-03072012-1	SG-049
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/06/12	03/06/12	03/05/12	03/07/12	03/07/12
Parameter	Units				Field Duplicate (1-1)	
Volatile Organic Compounds						
Toluene	UG/M3	191 D	79.8	69.1	48.9	48.2
Trichloroethene	UG/M3	70.2	65.6	21.6	70,700 D	40,600 D
Trichlorofluoromethane	UG/M3	6.9	5.2	3.6	32.8 U	32.8 U
Vinyl chloride	UG/M3	0.37 U	0.33 U	0.37 U	345	328
Xylene (total)	UG/M3	50.3	58.9	81.3	80.0	76.7

Flags assigned during chemistry validation are shown.

Made By: AMK 5/16/12

Checked By: PRF 6/28/12

Detection Limits shown are PQL

TABLE 2
VALIDATED AIR SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-055	SG-056	SG-058	SG-059	SG-060
Sample ID		SG-055	SG-056	SG-058	SG-059	SG-060
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/06/12	03/06/12	03/07/12	03/07/12	03/05/12
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	1.5 U	51.3	32.0 U	4.5 J	118 J
1,1,2,2-Tetrachloroethane	UG/M3	0.97 U	19.4 U	20.1 U	4.7 U	80.4 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	2.2 U	44.5 U	46.1 U	10.7 U	184 U
1,1-Dichloroethane	UG/M3	1.1 U	22.8 U	23.6 U	5.5 U	94.5 U
1,1-Dichloroethene	UG/M3	1.1 U	22.5 U	23.3 U	5.4 U	93.3 U
1,2,4-Trichlorobenzene	UG/M3	1.4 U	27.5 UJ	28.5 UJ	6.6 U	114 U
1,2,4-Trimethylbenzene	UG/M3	4.6	27.5 J	28.8 U	33.7	115 U
1,2-Dibromoethane (Ethylene dibromide)	UG/M3	2.2 U	43.4 U	44.9 U	10.5 U	180 U
1,2-Dichlorobenzene	UG/M3	1.7 U	33.9 U	35.1 U	8.2 U	141 U
1,2-Dichloroethane	UG/M3	0.57 U	11.4 U	11.8 U	2.7 U	47.2 U
1,2-Dichloroethene (cis)	UG/M3	1.1 U	763	31.1	5.4 U	93.3 U
1,2-Dichloroethene (trans)	UG/M3	1.1 U	19.7 J	23.3 U	5.4 U	93.3 U
1,2-Dichloropropane	UG/M3	1.3 U	26.1 U	27.1 U	6.3 U	108 U
1,2-Dichlorotetrafluoroethane	UG/M3	2.0 U	39.5 U	40.9 U	9.5 UJ	164 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	1.6	27.8 U	28.8 U	9.8	115 U
1,3-Butadiene	UG/M3	0.63 U	12.5 U	13.0 U	3.0 U	51.8 U
1,3-Dichlorobenzene	UG/M3	2.8	33.9 U	35.1 U	8.2 U	141 U
1,3-Dichloropropene (cis)	UG/M3	1.3 U	25.6 U	26.5 U	6.2 U	106 U
1,3-Dichloropropene (trans)	UG/M3	1.3 U	25.6 U	26.5 U	6.2 U	106 U
1,4-Dichlorobenzene	UG/M3	1.7 U	33.9 U	35.1 U	8.2 U	141 U
1,4-Dioxane	UG/M3	0.51 U	10.2 U	10.5 U	2.5 U	42.2 U
2,2,4-Trimethylpentane	UG/M3	4.0	26.4 U	27.4 U	8.5	109 U
4-Methyl-2-pentanone	UG/M3	1.2 U	23.1 U	23.9 U	5.6 U	95.6 U

Flags assigned during chemistry validation are shown.

Made By: AMK 5/16/12

Checked By: PRF 6/28/12

Detection Limits shown are PQL

TABLE 2
VALIDATED AIR SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-055	SG-056	SG-058	SG-059	SG-060
Sample ID		SG-055	SG-056	SG-058	SG-059	SG-060
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/06/12	03/06/12	03/07/12	03/07/12	03/05/12
Parameter	Units					
Volatile Organic Compounds						
Benzene	UG/M3	3.7	9.0 U	9.4 U	4.3	44.4
Benzyl chloride	UG/M3	1.5 U	29.2 U	30.2 U	7.0 U	121 U
Bromodichloromethane	UG/M3	1.9 U	37.8 U	39.2 U	9.1 U	157 U
Bromoform	UG/M3	2.9 U	58.4 U	60.5 U	14.1 U	242 U
Bromomethane	UG/M3	1.1 U	22.0 U	22.8 U	5.3 U	91.0 U
Carbon tetrachloride	UG/M3	0.89 U	17.8 U	18.4 U	4.3 U	73.7 U
Chlorobenzene	UG/M3	1.3 U	26.1 U	27.1 U	6.3 U	108 U
Chloroethane	UG/M3	0.75 U	15.0 U	15.6 U	3.6 U	62.2 U
Chloroform	UG/M3	1.4 U	496	28.5 U	6.6 U	132
Chloromethane	UG/M3	0.58 U	11.7 U	12.1 U	2.8 U	48.4 U
Cyclohexane	UG/M3	0.95 U	18.9 U	19.6 U	4.6 U	78.3 U
Dibromochloromethane	UG/M3	2.4 U	48.1 U	49.8 U	11.6 U	199 U
Dichlorodifluoromethane	UG/M3	1.4 U	28.1 U	29.1 U	6.8 U	116 U
Ethanol	UG/M3	0.53 U	462	48.3	387	401
Ethylbenzene	UG/M3	8.9	17.8 J	25.3 U	32.5	55.0 J
Hexachlorobutadiene	UG/M3	3.1 U	61.2 U	63.4 U	14.7 U	253 U
Methyl ethyl ketone (2-Butanone)	UG/M3	0.83 U	16.7 U	17.3 U	8.7	69.1 U
Methyl tert-butyl ether	UG/M3	1.0 U	20.3 U	21.0 U	4.9 U	84.1 U
Methylene chloride	UG/M3	0.99 U	19.7 U	20.4 U	2.5 J	81.8 U
n-Hexane	UG/M3	1.0 U	20.0 U	20.7 U	5.3	80.2 J
Styrene	UG/M3	1.2 U	24.2 U	25.1 U	5.8 U	100 U
t-Butyl alcohol	UG/M3	1.3 U	25.7 U	26.6 U	6.2 U	106 U
Tetrachloroethene	UG/M3	49.0	19,000 D	8,800 D	405	17,900

Flags assigned during chemistry validation are shown.

Made By: AMK 5/16/12
 Checked By: PRF 6/28/12

Detection Limits shown are PQL

TABLE 2
VALIDATED AIR SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-055	SG-056	SG-058	SG-059	SG-060
Sample ID		SG-055	SG-056	SG-058	SG-059	SG-060
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/06/12	03/06/12	03/07/12	03/07/12	03/05/12
Parameter	Units					
Volatile Organic Compounds						
Toluene	UG/M3	54.5	69.0	49.2	119	778
Trichloroethene	UG/M3	12.4	1,230	53.8	2.0 J	782
Trichlorofluoromethane	UG/M3	1.6 U	31.7 U	32.8 U	7.6 U	131 U
Vinyl chloride	UG/M3	0.36 U	7.2 U	7.5 U	1.7 U	30.0 U
Xylene (total)	UG/M3	41.2	111	50.7 U	181	322

Flags assigned during chemistry validation are shown.

Made By: AMK 5/16/12

Checked By: PRF 6/28/12

Detection Limits shown are PQL

TABLE 2
VALIDATED AIR SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-061R	SG-062	SG-063	SG-079	SG-080
Sample ID		SG-061R	SG-062	SG-063	SG-079	SG-080
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/07/12	03/05/12	03/07/12	03/06/12	03/05/12
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	7.7 U	5.5	1.6 U	12.9	11.7
1,1,2,2-Tetrachloroethane	UG/M3	4.9 U	1.0 U	1.0 U	1.0 U	4.4 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	11.1 U	2.3 U	2.3 U	2.4 U	10.1 U
1,1-Dichloroethane	UG/M3	5.7 U	1.2 U	7.8	1.2 U	5.2 U
1,1-Dichloroethene	UG/M3	5.6 U	1.2 U	1.2 U	1.2 U	5.1 U
1,2,4-Trichlorobenzene	UG/M3	6.9 U	1.4 U	1.4 UJ	1.5 U	6.2 U
1,2,4-Trimethylbenzene	UG/M3	10.3	31.8	8.7	2.8	19.9
1,2-Dibromoethane (Ethylene dibromide)	UG/M3	10.8 U	2.2 U	2.2 U	2.3 U	9.8 U
1,2-Dichlorobenzene	UG/M3	8.5 U	1.8 U	1.8 U	1.8 U	7.7 U
1,2-Dichloroethane	UG/M3	2.8 U	0.59 U	0.59 U	0.61 U	2.6 U
1,2-Dichloroethene (cis)	UG/M3	4.8 J	1.2 U	1.2	1.2 U	5.1 U
1,2-Dichloroethene (trans)	UG/M3	5.6 U	1.2 U	1.2 U	1.2 U	5.1 U
1,2-Dichloropropane	UG/M3	6.5 U	1.4 U	1.4 U	1.4 U	5.9 U
1,2-Dichlorotetrafluoroethane	UG/M3	9.9 UJ	2.0 U	2.0 U	2.1 U	8.9 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	6.9 U *	6.0	1.4 U	1.5 U	6.3 U
1,3-Butadiene	UG/M3	3.1 U	0.65 U	0.65 U	0.67 U	2.8 U
1,3-Dichlorobenzene	UG/M3	6.3 J	0.97 J	1.8 U	1.8 U	16.2
1,3-Dichloropropene (cis)	UG/M3	6.4 U	1.3 U	1.3 U	1.4 U	5.8 U
1,3-Dichloropropene (trans)	UG/M3	6.4 U	1.3 U	1.3 U	1.4 U	5.8 U
1,4-Dichlorobenzene	UG/M3	8.5 U	1.8 U	1.9	1.8 U	7.7 U
1,4-Dioxane	UG/M3	2.5 U	0.53 U	0.53 U	0.55 U	2.3 U
2,2,4-Trimethylpentane	UG/M3	12.1	14.6	20.0	1.4 U	22.4
4-Methyl-2-pentanone	UG/M3	5.8 U	1.6	1.2 U	1.2 U	5.2 U

Flags assigned during chemistry validation are shown.

Made By: AMK 5/16/12

Checked By: PRF 6/28/12

Detection Limits shown are PQL

TABLE 2
VALIDATED AIR SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-061R	SG-062	SG-063	SG-079	SG-080
Sample ID		SG-061R	SG-062	SG-063	SG-079	SG-080
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/07/12	03/05/12	03/07/12	03/06/12	03/05/12
Parameter	Units					
Volatile Organic Compounds						
Benzene	UG/M3	7.4	28.2	1.4	0.48 U	19.2
Benzyl chloride	UG/M3	7.3 U	1.5 U	1.5 U	1.6 U	6.6 U
Bromodichloromethane	UG/M3	9.5 U	2.0 U	2.0 U	2.0 U	8.6 U
Bromoform	UG/M3	14.6 U	3.0 U	3.0 U	3.1 U	13.2 U
Bromomethane	UG/M3	5.5 U	1.1 U	0.90 J	1.2 U	5.0 U
Carbon tetrachloride	UG/M3	4.4 U	0.92 U	0.92 U	0.64 J	4.0 U
Chlorobenzene	UG/M3	6.5 U	1.4 U	1.4 U	1.4 U	5.9 U
Chloroethane	UG/M3	3.8 U	0.78 U	0.78 U	0.80 U	3.4 U
Chloroform	UG/M3	6.9 U	0.83 J	1.4 U	1.5 U	3.6 J
Chloromethane	UG/M3	2.9 U	0.60 U	0.60 U	0.63 U	2.6 U
Cyclohexane	UG/M3	4.7 U	20.7	0.98 U	1.0 U	17.3
Dibromochloromethane	UG/M3	12.0 U	2.5 U	2.5 U	2.6 U	10.9 U
Dichlorodifluoromethane	UG/M3	7.0 U	2.9	1.5 U	4.1	6.4 U
Ethanol	UG/M3	249	266 J	49.9	59.3	540 J
Ethylbenzene	UG/M3	18.6	54.3	12.2	9.0	34.3
Hexachlorobutadiene	UG/M3	15.3 U	3.2 U	3.2 U	3.3 U	13.9 U
Methyl ethyl ketone (2-Butanone)	UG/M3	4.2 U	14.6	0.86 U	3.6	11.3
Methyl tert-butyl ether	UG/M3	5.1 U	1.1 U	1.1 U	1.1 U	4.6 U
Methylene chloride	UG/M3	4.9 U	7.1	1.0 U	1.1 U	4.5 U
n-Hexane	UG/M3	88.9	47.2	1.0 U	1.1 U	34.5
Styrene	UG/M3	6.0 U	1.3	2.1	1.3 U	5.5 U
t-Butyl alcohol	UG/M3	6.4 U	1.3 U	1.3 U	1.4 U	5.8 U
Tetrachloroethene	UG/M3	256	34.9	150	1,180 D	260

Flags assigned during chemistry validation are shown.

Made By: AMK 5/16/12

Checked By: PRF 6/28/12

Detection Limits shown are PQL

TABLE 2
VALIDATED AIR SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-061R	SG-062	SG-063	SG-079	SG-080
Sample ID		SG-061R	SG-062	SG-063	SG-079	SG-080
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/07/12	03/05/12	03/07/12	03/06/12	03/05/12
Parameter	Units					
Volatile Organic Compounds						
Toluene	UG/M3	70.0	323 D	16.3	66.9	192
Trichloroethene	UG/M3	16.5	1.3	6.4	3.5	16.8
Trichlorofluoromethane	UG/M3	7.9 U	11.5	1.6 U	1.7 U	7.2 U
Vinyl chloride	UG/M3	1.8 U	0.37 U	2.0	0.39 U	1.6 U
Xylene (total)	UG/M3	76.9	228	51.8	34.6	171

Flags assigned during chemistry validation are shown.

Made By: AMK 5/16/12
 Checked By: PRF 6/28/12

Detection Limits shown are PQL

TABLE 2
VALIDATED AIR SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-081	SG-082	SG-082	SG-083	SG-084
Sample ID		SG-081	FD-03052012-1	SG-082	SG-083	SG-084
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/05/12	03/05/12	03/05/12	03/05/12	03/07/12
Parameter	Units		Field Duplicate (1-1)			
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	35.5	30.9 U	30.9 U	17.6 J	32.0 U
1,1,2,2-Tetrachloroethane	UG/M3	19.4 U	19.4 U	19.4 U	20.1 U	20.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	44.5 U	44.5 U	44.5 U	46.1 U	46.1 U
1,1-Dichloroethane	UG/M3	22.8 U	22.8 U	22.8 U	23.6 U	23.6 U
1,1-Dichloroethene	UG/M3	22.5 U	22.5 U	22.5 U	23.3 U	23.3 U
1,2,4-Trichlorobenzene	UG/M3	27.5 U	27.5 UJ	27.5 UJ	28.5 U	28.5 UJ
1,2,4-Trimethylbenzene	UG/M3	22.3 J	27.8 U	27.8 U	28.8 U	28.8 U
1,2-Dibromoethane (Ethylene dibromide)	UG/M3	43.4 U	43.4 U	43.4 U	44.9 U	44.9 U
1,2-Dichlorobenzene	UG/M3	33.9 U	33.9 U	33.9 U	35.1 U	35.1 U
1,2-Dichloroethane	UG/M3	15.8	11.4 U	11.4 U	11.8 U	11.8 U
1,2-Dichloroethene (cis)	UG/M3	6.7 J	22.5 U	22.5 U	12.4 J	23.3 U
1,2-Dichloroethene (trans)	UG/M3	22.5 U	22.5 U	22.5 U	23.3 U	23.3 U
1,2-Dichloropropane	UG/M3	26.1 U	26.1 U	26.1 U	27.1 U	27.1 U
1,2-Dichlorotetrafluoroethane	UG/M3	39.5 U	39.5 U	39.5 U	40.9 U	40.9 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	27.8 U	27.8 U	27.8 U	28.8 U	28.8 U
1,3-Butadiene	UG/M3	12.5 U	12.5 U	12.5 U	13.0 U	13.0 U
1,3-Dichlorobenzene	UG/M3	22.6 J	33.9 U	33.9 U	35.1 U	35.1 U
1,3-Dichloropropene (cis)	UG/M3	25.6 U	25.6 U	25.6 U	26.5 U	26.5 U
1,3-Dichloropropene (trans)	UG/M3	25.6 U	25.6 U	25.6 U	26.5 U	26.5 U
1,4-Dichlorobenzene	UG/M3	33.9 U	33.9 U	33.9 U	35.1 U	35.1 U
1,4-Dioxane	UG/M3	10.2 U	10.2 U	10.2 U	10.5 U	10.5 U
2,2,4-Trimethylpentane	UG/M3	22.2 J	26.4 U	26.4 U	27.4 U	27.4 U
4-Methyl-2-pentanone	UG/M3	23.1 U	23.1 U	23.1 U	23.9 U	23.9 U

Flags assigned during chemistry validation are shown.

Made By: AMK 5/16/12
 Checked By: PRF 6/28/12

Detection Limits shown are PQL

TABLE 2
VALIDATED AIR SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-081	SG-082	SG-082	SG-083	SG-084
Sample ID		SG-081	FD-03052012-1	SG-082	SG-083	SG-084
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/05/12	03/05/12	03/05/12	03/05/12	03/07/12
Parameter	Units	Field Duplicate (1-1)				
Volatile Organic Compounds						
Benzene	UG/M3	8.7 J	9.0 U	9.0 U	9.4 U	9.4 U
Benzyl chloride	UG/M3	29.2 U	29.2 U	29.2 U	30.2 U	30.2 U
Bromodichloromethane	UG/M3	37.8 U	37.8 U	37.8 U	39.2 U	39.2 U
Bromoform	UG/M3	58.4 U	58.4 U	58.4 U	60.5 U	60.5 U
Bromomethane	UG/M3	22.0 U	22.0 U	22.0 U	22.8 U	22.8 U
Carbon tetrachloride	UG/M3	17.8 U	17.8 U	17.8 U	18.4 U	18.4 U
Chlorobenzene	UG/M3	26.1 U	26.1 U	26.1 U	27.1 U	27.1 U
Chloroethane	UG/M3	15.0 U	R	R	15.6 U	15.6 U
Chloroform	UG/M3	27.5 U	35.2	37.5	28.5 U	28.3 J
Chloromethane	UG/M3	11.7 U	11.7 U	11.7 U	12.1 U	12.1 U
Cyclohexane	UG/M3	23.2	18.9 U	18.9 U	19.6 U	19.6 U
Dibromochloromethane	UG/M3	48.1 U	48.1 U	48.1 U	49.8 U	49.8 U
Dichlorodifluoromethane	UG/M3	28.1 U	28.1 U	28.1 U	29.1 U	29.1 U
Ethanol	UG/M3	362	10.6 U	10.6 U	96.6	84.8
Ethylbenzene	UG/M3	26.3	24.5 U	24.5 U	25.3 U	25.3 U
Hexachlorobutadiene	UG/M3	61.2 U	61.2 U	61.2 U	63.4 U	63.4 U
Methyl ethyl ketone (2-Butanone)	UG/M3	9.2 J	16.7 U	19.2	17.3 U	17.3 U
Methyl tert-butyl ether	UG/M3	20.3 U	20.3 U	20.3 U	21.0 U	21.0 U
Methylene chloride	UG/M3	19.7 U	14.7 J	12.9 J	15.8 J	11.1 J
n-Hexane	UG/M3	29.9	20.0 U	13.6 J	11.0 J	20.7 U
Styrene	UG/M3	24.2 U	24.2 U	24.2 U	25.1 U	25.1 U
t-Butyl alcohol	UG/M3	25.7 U	25.7 U	25.7 U	26.6 U	26.6 U
Tetrachloroethene	UG/M3	4,980	75,300 D	49,300 D	280,000 D	66,200 D

Flags assigned during chemistry validation are shown.

Made By: AMK 5/16/12
 Checked By: PRF 6/28/12

Detection Limits shown are PQL

TABLE 2
VALIDATED AIR SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-081	SG-082	SG-082	SG-083	SG-084
Sample ID		SG-081	FD-03052012-1	SG-082	SG-083	SG-084
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/05/12	03/05/12	03/05/12	03/05/12	03/07/12
Parameter	Units		Field Duplicate (1-1)			
Volatile Organic Compounds						
Toluene	UG/M3	116	16.0 J	18.6 J	48.1	68.1
Trichloroethene	UG/M3	380	86.4	92.7	318	300
Trichlorofluoromethane	UG/M3	31.7 U	31.7 U	31.7 U	32.8 U	32.8 U
Vinyl chloride	UG/M3	7.2 U	7.2 U	7.2 U	7.5 U	7.5 U
Xylene (total)	UG/M3	149	26.6 J	26.9 J	50.3 J	43.6 J

Flags assigned during chemistry validation are shown.

Made By: AMK 5/16/12

Checked By: PRF 6/28/12

Detection Limits shown are PQL

TABLE 2
VALIDATED AIR SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-085	SG-086	SG-087	SG-112	SG-113
Sample ID		SG-085	SG-086	SG-087	SG-112	SG-113
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/07/12	03/07/12	03/07/12	03/06/12	03/06/12
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	11.3	136	35.7 U	33.1 U	22.1
1,1,2,2-Tetrachloroethane	UG/M3	0.97 U	19.4 U	22.5 U	20.8 U	0.88 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	2.2 U	44.5 U	51.5 U	47.7 U	2.0 U
1,1-Dichloroethane	UG/M3	1.1 U	88.7	26.4 U	24.4 U	21.5
1,1-Dichloroethene	UG/M3	1.1 U	465	26.1 U	24.1 U	4.5
1,2,4-Trichlorobenzene	UG/M3	1.4 UJ	27.5 UJ	31.9 UJ	29.5 UJ	1.2 U
1,2,4-Trimethylbenzene	UG/M3	5.3	27.8 U	19.4 J	29.8 U	2.0
1,2-Dibromoethane (Ethylene dibromide)	UG/M3	2.2 U	43.4 U	50.2 U	46.5 U	2.0 U
1,2-Dichlorobenzene	UG/M3	1.7 U	33.9 U	39.3 U	36.4 U	1.5 U
1,2-Dichloroethane	UG/M3	0.57 U	11.4 U	13.2 U	12.2 U	0.52 U
1,2-Dichloroethene (cis)	UG/M3	1.1 U	35.6	536	176	12.3
1,2-Dichloroethene (trans)	UG/M3	1.1 U	22.5 U	26.1 U	24.1 U	41.8
1,2-Dichloropropane	UG/M3	2.3	26.1 U	30.3 U	28.0 U	1.2 U
1,2-Dichlorotetrafluoroethane	UG/M3	2.0 UJ	39.5 U	45.7 U	42.3 U	1.8 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	1.4 U	27.8 U	32.2 U	29.8 U	1.3 U
1,3-Butadiene	UG/M3	0.63 U	12.5 U	14.5 U	13.4 U	0.57 U
1,3-Dichlorobenzene	UG/M3	1.7 U	33.9 U	39.3 U	36.4 U	1.5 U
1,3-Dichloropropene (cis)	UG/M3	1.3 U	25.6 U	29.6 U	27.4 U	1.2 U
1,3-Dichloropropene (trans)	UG/M3	1.3 U	25.6 U	29.6 U	27.4 U	1.2 U
1,4-Dichlorobenzene	UG/M3	1.2 J	33.9 U	39.3 U	36.4 U	1.5 U
1,4-Dioxane	UG/M3	0.51 U	10.2 U	11.8 U	10.9 U	0.46 U
2,2,4-Trimethylpentane	UG/M3	2.8	26.4 U	30.6 U	28.3 U	44.1
4-Methyl-2-pentanone	UG/M3	1.2 U	23.1 U	26.7 U	24.7 U	1.0 U

Flags assigned during chemistry validation are shown.

Made By: AMK 5/16/12

Checked By: PRF 6/28/12

Detection Limits shown are PQL

TABLE 2
VALIDATED AIR SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-085	SG-086	SG-087	SG-112	SG-113
Sample ID		SG-085	SG-086	SG-087	SG-112	SG-113
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/07/12	03/07/12	03/07/12	03/06/12	03/06/12
Parameter	Units					
Volatile Organic Compounds						
Benzene	UG/M3	2.2	9.0 U	10.5 U	9.7 U	10.5
Benzyl chloride	UG/M3	1.5 U	29.2 U	33.8 U	31.3 U	1.3 U
Bromodichloromethane	UG/M3	1.9 U	37.8 U	43.8 U	40.5 U	1.7 U
Bromoform	UG/M3	2.9 U	58.4 U	67.6 U	62.6 U	2.6 U
Bromomethane	UG/M3	1.1 U	22.0 U	25.4 U	23.5 U	1.0 U
Carbon tetrachloride	UG/M3	0.89 U	17.8 U	20.6 U	19.1 U	39.3
Chlorobenzene	UG/M3	1.3 U	26.1 U	30.3 U	28.0 U	1.2 U
Chloroethane	UG/M3	0.75 U	15.0 U	17.4 U	16.1 U	0.68 U
Chloroform	UG/M3	1.0 J	35.3	31.9 U	29.5 U	2,470 D
Chloromethane	UG/M3	0.58 U	11.7 U	13.5 U	12.5 U	0.53 U
Cyclohexane	UG/M3	2.7	18.9 U	21.9 U	20.3 U	18.1
Dibromochloromethane	UG/M3	2.4 U	48.1 U	55.7 U	51.6 U	2.2 U
Dichlorodifluoromethane	UG/M3	1.9	28.1 U	32.5 U	30.1 U	4.9
Ethanol	UG/M3	166 J	10.6 U	116	158	32.3
Ethylbenzene	UG/M3	15.1	10.8 J	18.4 J	7.5 J	11.0
Hexachlorobutadiene	UG/M3	3.1 U	61.2 U	70.8 U	65.6 U	2.8 U
Methyl ethyl ketone (2-Butanone)	UG/M3	5.8	16.7 U	19.3 U	8.8 J	9.2
Methyl tert-butyl ether	UG/M3	1.0 U	20.3 U	23.5 U	21.8 U	0.92 U
Methylene chloride	UG/M3	27.9	19.7 U	22.9 U	93.2	54.6
n-Hexane	UG/M3	5.4	20.0 U	23.2 U	21.5 U	31.1
Styrene	UG/M3	2.5	24.2 U	28.0 U	25.9 U	1.1 U
t-Butyl alcohol	UG/M3	1.3 U	25.7 U	29.8 U	27.5 U	1.2 U
Tetrachloroethene	UG/M3	269	22,200 D	227,000 D	5,910	388 D

Flags assigned during chemistry validation are shown.

Made By: AMK 5/16/12
 Checked By: PRF 6/28/12

Detection Limits shown are PQL

TABLE 2
VALIDATED AIR SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-085	SG-086	SG-087	SG-112	SG-113
Sample ID		SG-085	SG-086	SG-087	SG-112	SG-113
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/07/12	03/07/12	03/07/12	03/06/12	03/06/12
Parameter	Units					
Volatile Organic Compounds						
Toluene	UG/M3	63.1	141	68.1	82.8	101
Trichloroethene	UG/M3	8.4	389	968	181	139
Trichlorofluoromethane	UG/M3	103	31.7 U	36.7 U	34.0 U	2.2
Vinyl chloride	UG/M3	0.36 U	7.2 U	8.4 U	7.7 U	0.33 U
Xylene (total)	UG/M3	57.0	45.5 J	102	30.0 J	40.9

Flags assigned during chemistry validation are shown.

Made By: AMK 5/16/12
 Checked By: PRF 6/28/12

Detection Limits shown are PQL

TABLE 2
VALIDATED AIR SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-114	SG-115	SG-116	SG-117	SG-118
Sample ID		SG-114	SG-115	SG-116	SG-117	SG-118
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/05/12	03/05/12	03/05/12	03/05/12	03/05/12
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	181	8.0 U	145	135	32.0 U
1,1,2,2-Tetrachloroethane	UG/M3	1.0 U	5.0 U	20.1 U	20.1 U	20.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	2.3 U	11.5 U	46.1 U	46.1 U	46.1 U
1,1-Dichloroethane	UG/M3	3.4	5.9 U	23.6 U	23.6 U	23.6 U
1,1-Dichloroethene	UG/M3	1.2 U	5.8 U	23.3 U	23.3 U	23.3 U
1,2,4-Trichlorobenzene	UG/M3	1.4 U	7.1 U	28.5 U	28.5 U	28.5 U
1,2,4-Trimethylbenzene	UG/M3	20.5	28.4	28.8 U	28.8 U	28.8 U
1,2-Dibromoethane (Ethylene dibromide)	UG/M3	2.2 U	11.2 U	44.9 U	44.9 U	44.9 U
1,2-Dichlorobenzene	UG/M3	1.8 U	8.8 U	35.1 U	35.1 U	35.1 U
1,2-Dichloroethane	UG/M3	10.4	455	7.3 J	11.8 U	11.8 U
1,2-Dichloroethene (cis)	UG/M3	6.8	5.8 U	109,000 D	1,100	37.0
1,2-Dichloroethene (trans)	UG/M3	1.2	5.8 U	260	110	23.3 U
1,2-Dichloropropane	UG/M3	1.4 U	6.2 J	29.0	27.1 U	27.1 U
1,2-Dichlorotetrafluoroethane	UG/M3	2.0 U	10.2 U	40.9 U	40.9 U	40.9 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	5.1	9.6	28.8 U	28.8 U	28.8 U
1,3-Butadiene	UG/M3	0.65 U	3.2 U	13.0 U	13.0 U	13.0 U
1,3-Dichlorobenzene	UG/M3	1.8 U	25.7	35.1 U	35.1 U	35.1 U
1,3-Dichloropropene (cis)	UG/M3	1.3 U	6.6 U	26.5 U	26.5 U	26.5 U
1,3-Dichloropropene (trans)	UG/M3	1.3 U	6.6 U	26.5 U	26.5 U	26.5 U
1,4-Dichlorobenzene	UG/M3	1.2 J	8.8 U	35.1 U	35.1 U	35.1 U
1,4-Dioxane	UG/M3	0.53 U	2.6 U	10.5 U	10.5 U	10.5 U
2,2,4-Trimethylpentane	UG/M3	3.7	17.6	27.4 U	14.5 J	27.4 U
4-Methyl-2-pentanone	UG/M3	1.2 U	3.7 J	23.9 U	23.9 U	23.9 U

Flags assigned during chemistry validation are shown.

Made By: AMK 5/16/12
 Checked By: PRF 6/28/12

Detection Limits shown are PQL

TABLE 2
VALIDATED AIR SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-114	SG-115	SG-116	SG-117	SG-118
Sample ID		SG-114	SG-115	SG-116	SG-117	SG-118
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/05/12	03/05/12	03/05/12	03/05/12	03/05/12
Parameter	Units					
Volatile Organic Compounds						
Benzene	UG/M3	7.0	30.2	33.3	27.3	15.2
Benzyl chloride	UG/M3	1.5 U	7.6 U	30.2 U	30.2 U	30.2 U
Bromodichloromethane	UG/M3	2.0 U	9.8 U	39.2 U	39.2 U	39.2 U
Bromoform	UG/M3	3.0 U	15.1 U	60.5 U	60.5 U	60.5 U
Bromomethane	UG/M3	1.1 U	5.7 U	22.8 U	22.8 U	22.8 U
Carbon tetrachloride	UG/M3	0.92 U	4.6 U	18.4 U	18.4 U	18.4 U
Chlorobenzene	UG/M3	1.4 U	6.8 U	27.1 U	27.1 U	27.1 U
Chloroethane	UG/M3	0.78 U	3.9 U	15.6 U	15.6 U	15.6 U
Chloroform	UG/M3	57.2	8.7	313	551	27.5 J
Chloromethane	UG/M3	0.60 U	3.0 U	12.1 U	12.1 U	12.1 U
Cyclohexane	UG/M3	5.4	16.8	19.6 U	21.8	14.7 J
Dibromochloromethane	UG/M3	2.5 U	12.5 U	49.8 U	49.8 U	49.8 U
Dichlorodifluoromethane	UG/M3	1.8	7.3 U	29.1 U	29.1 U	15.5 J
Ethanol	UG/M3	28.3	365	1,800	75.1	10.9 U
Ethylbenzene	UG/M3	26.7	46.8	25.2 J	18.8 J	18.5 J
Hexachlorobutadiene	UG/M3	3.2 U	15.8 U	63.4 U	63.4 U	63.4 U
Methyl ethyl ketone (2-Butanone)	UG/M3	6.5	8.7	251	17.3 U	17.3 U
Methyl tert-butyl ether	UG/M3	1.1 U	5.3 U	21.0 U	21.0 U	21.0 U
Methylene chloride	UG/M3	99.8	49.5	83.5	58.9	62.0
n-Hexane	UG/M3	10.3	47.0	32.9	23.3	61.0
Styrene	UG/M3	2.1	6.3 U	25.1 U	25.1 U	25.1 U
t-Butyl alcohol	UG/M3	1.6	6.7 U	26.6 U	26.6 U	26.6 U
Tetrachloroethene	UG/M3	2,080 D	796	23,600,000 DJ	287,000 J	320,000 D

Flags assigned during chemistry validation are shown.

Made By: AMK 5/16/12

Checked By: PRF 6/28/12

Detection Limits shown are PQL

TABLE 2
VALIDATED AIR SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-114	SG-115	SG-116	SG-117	SG-118
Sample ID		SG-114	SG-115	SG-116	SG-117	SG-118
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/05/12	03/05/12	03/05/12	03/05/12	03/05/12
Parameter	Units					
Volatile Organic Compounds						
Toluene	UG/M3	95.8	313	136	97.0	79.1
Trichloroethene	UG/M3	2,460 D	27.2	67,600 D	4,800	148
Trichlorofluoromethane	UG/M3	9.4	8.2 U	32.8 U	32.8 U	373
Vinyl chloride	UG/M3	0.37 U	1.9 U	7.5 U	7.5 U	7.5 U
Xylene (total)	UG/M3	117	238	115	81.0	88.1

Flags assigned during chemistry validation are shown.

Made By: AMK 5/16/12

Checked By: PRF 6/28/12

Detection Limits shown are PQL

TABLE 2
VALIDATED AIR SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-119	SG-120	SG-120	SG-121	SG-122
Sample ID		SG-119	FD-03072012-2	SG-120	SG-121	SG-122
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/05/12	03/07/12	03/07/12	03/05/12	03/07/12
Parameter	Units	Field Duplicate (1-1)				
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	235	34.4 U	35.7 U	10.7	1.4 J
1,1,2,2-Tetrachloroethane	UG/M3	20.1 U	21.6 U	22.5 U	5.4 U	1.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	46.1 U	49.6 U	51.5 U	12.4 U	2.6 U
1,1-Dichloroethane	UG/M3	23.6 U	25.4 U	26.4 U	6.4 U	1.3 U
1,1-Dichloroethene	UG/M3	23.3 U	25.1 U	26.1 U	6.3 U	1.3 U
1,2,4-Trichlorobenzene	UG/M3	28.5 U	30.7 UJ	31.9 UJ	7.7 U	1.6 U
1,2,4-Trimethylbenzene	UG/M3	28.8 U	31.0 U	32.2 U	18.1	51.5
1,2-Dibromoethane (Ethylene dibromide)	UG/M3	44.9 U	48.4 U	50.2 U	12.1 U	2.5 U
1,2-Dichlorobenzene	UG/M3	35.1 U	37.8 U	39.3 U	9.5 U	2.0 U
1,2-Dichloroethane	UG/M3	11.8 U	12.7 U	13.2 U	3.2 U	0.66 U
1,2-Dichloroethene (cis)	UG/M3	119	25.1 U	26.1 U	6.3 U	1.3 U
1,2-Dichloroethene (trans)	UG/M3	23.3 U	25.1 U	26.1 U	6.3 U	1.3 U
1,2-Dichloropropane	UG/M3	27.1 U	29.1 U	30.3 U	7.3 U	1.5 U
1,2-Dichlorotetrafluoroethane	UG/M3	40.9 U	44.0 U	45.7 U	11.0 U	2.3 UJ
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	28.8 U	31.0 U	32.2 U	7.7 U	10.0
1,3-Butadiene	UG/M3	13.0 U	14.0 U	14.5 U	3.5 U	0.72 U
1,3-Dichlorobenzene	UG/M3	35.1 U	37.8 U	39.3 U	9.5 U	50.1
1,3-Dichloropropene (cis)	UG/M3	26.5 U	28.5 U	29.6 U	7.1 U	1.5 U
1,3-Dichloropropene (trans)	UG/M3	26.5 U	28.5 U	29.6 U	7.1 U	1.5 U
1,4-Dichlorobenzene	UG/M3	35.1 U	37.8 U	39.3 U	9.5 U	2.0 U
1,4-Dioxane	UG/M3	10.5 U	11.3 U	11.8 U	2.8 U	0.59 U
2,2,4-Trimethylpentane	UG/M3	28.2	29.4 U	30.6 U	20.7	21.8
4-Methyl-2-pentanone	UG/M3	23.9 U	25.7 U	26.7 U	6.4 U	1.3 U

Flags assigned during chemistry validation are shown.

Made By: AMK 5/16/12
 Checked By: PRF 6/28/12

Detection Limits shown are PQL

TABLE 2
VALIDATED AIR SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-119	SG-120	SG-120	SG-121	SG-122
Sample ID		SG-119	FD-03072012-2	SG-120	SG-121	SG-122
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/05/12	03/07/12	03/07/12	03/05/12	03/07/12
Parameter	Units	Field Duplicate (1-1)				
Volatile Organic Compounds						
Benzene	UG/M3	32.4	10.1 U	5.7 J	40.3	16.8
Benzyl chloride	UG/M3	30.2 U	32.6 U	33.8 U	8.1 U	1.7 U
Bromodichloromethane	UG/M3	39.2 U	42.2 U	43.8 U	10.5 U	2.2 U
Bromoform	UG/M3	60.5 U	65.1 U	67.6 U	16.3 U	3.4 U
Bromomethane	UG/M3	22.8 U	24.5 U	25.4 U	6.1 U	1.3 U
Carbon tetrachloride	UG/M3	18.4 U	19.8 U	20.6 U	5.0 U	1.0 U
Chlorobenzene	UG/M3	27.1 U	29.1 U	30.3 U	7.3 U	1.5 U
Chloroethane	UG/M3	15.6 U	16.7 U	17.4 U	4.2 U	0.87 U
Chloroform	UG/M3	87.3	30.7 U	31.9 U	7.7 U	1.6 U
Chloromethane	UG/M3	12.1 U	13.0 U	13.5 U	3.3 U	0.68 U
Cyclohexane	UG/M3	34.6	21.1 U	21.9 U	35.9	22.1
Dibromochloromethane	UG/M3	49.8 U	53.6 U	55.7 U	13.4 U	2.8 U
Dichlorodifluoromethane	UG/M3	29.1 U	31.3 U	32.5 U	7.8 U	1.4 J
Ethanol	UG/M3	99.0	98.1	155	331	570 J
Ethylbenzene	UG/M3	21.6 J	15.4 J	14.3 J	53.7	47.1
Hexachlorobutadiene	UG/M3	63.4 U	68.2 U	70.8 U	17.0 U	3.5 U
Methyl ethyl ketone (2-Butanone)	UG/M3	13.9 J	18.6 U	19.3 U	18.6	15.4
Methyl tert-butyl ether	UG/M3	21.0 U	22.6 U	23.5 U	5.7 U	1.2 U
Methylene chloride	UG/M3	712	472	414	157	224 J
n-Hexane	UG/M3	42.3	22.3 U	23.2 U	52.9	16.8
Styrene	UG/M3	25.1 U	27.0 U	28.0 U	6.7 U	1.4 J
t-Butyl alcohol	UG/M3	26.6 U	28.6 U	29.8 U	7.2 U	1.5 U
Tetrachloroethene	UG/M3	1,740,000 DJ	3,070	2,800	225	66.6

Flags assigned during chemistry validation are shown.

Made By: AMK 5/16/12

Checked By: PRF 6/28/12

Detection Limits shown are PQL

Advanced Selection: AMK-TEMP AIR
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Printed: 6/28/2012 8:04:38 AM
[LOGDATE] >= #3/5/2012# AND [UNITS] = 'UG/M3'

TABLE 2
VALIDATED AIR SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SG-119	SG-120	SG-120	SG-121	SG-122
Sample ID		SG-119	FD-03072012-2	SG-120	SG-121	SG-122
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/05/12	03/07/12	03/07/12	03/05/12	03/07/12
Parameter	Units		Field Duplicate (1-1)			
Volatile Organic Compounds						
Toluene	UG/M3	133	70.5	72.8	423	148
Trichloroethene	UG/M3	1,620	17.0 U	16.2 J	4.3 U	0.60 J
Trichlorofluoromethane	UG/M3	32.8 U	35.3 U	36.7 U	8.8 U	0.54 J
Vinyl chloride	UG/M3	7.5 U	8.1 U	8.4 U	2.0 U	0.42 U
Xylene (total)	UG/M3	96.1	77.3	65.0 J	258	222

Flags assigned during chemistry validation are shown.

Made By: AMK 5/16/12

Checked By: PRF 6/28/12

Detection Limits shown are PQL

ATTACHMENT A

VALIDATED FORM 1's

ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo
Pace Project No.: 10184975

Sample: SG-018 Lab ID: 10184975001 Collected: 03/06/12 14:49 Received: 03/08/12 10:05 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
Benzene	1.1	ug/m3	0.47	0.23	1.44		03/20/12 10:17	71-43-2	
Benzyl chloride	ND	ug/m3	1.5	0.76	1.44		03/20/12 10:17	100-44-7	
Bromodichloromethane	ND	ug/m3	2.0	0.25	1.44		03/20/12 10:17	75-27-4	
Bromoform	ND	ug/m3	3.0	1.5	1.44		03/20/12 10:17	75-25-2	
Bromomethane	ND	ug/m3	1.1	0.26	1.44		03/20/12 10:17	74-83-9	
1,3-Butadiene	ND	ug/m3	0.65	0.32	1.44		03/20/12 10:17	106-99-0	
2-Butanone (MEK)	3.5	ug/m3	0.86	0.22	1.44		03/20/12 10:17	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	1.3	0.076	1.44		03/20/12 10:17	75-65-0	
Carbon tetrachloride	ND	ug/m3	0.92	0.46	1.44		03/20/12 10:17	56-23-5	
Chlorobenzene	ND	ug/m3	1.4	0.68	1.44		03/20/12 10:17	108-90-7	
Chloroethane	ND	ug/m3	0.78	0.39	1.44		03/20/12 10:17	75-00-3	
Chloroform	32.7	ug/m3	1.4	0.72	1.44		03/20/12 10:17	67-66-3	
Chloromethane	ND	ug/m3	0.60	0.30	1.44		03/20/12 10:17	74-87-3	
Cyclohexane	29.7	ug/m3	0.98	0.52	1.44		03/20/12 10:17	110-82-7	
Dibromochloromethane	ND	ug/m3	2.5	1.2	1.44		03/20/12 10:17	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.2	1.1	1.44		03/20/12 10:17	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.8	0.88	1.44		03/20/12 10:17	95-50-1	
1,3-Dichlorobenzene	10.2	ug/m3	1.8	0.88	1.44		03/20/12 10:17	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.8	0.88	1.44		03/20/12 10:17	106-46-7	
Dichlorodifluoromethane	1.5	ug/m3	1.5	0.73	1.44		03/20/12 10:17	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.2	0.59	1.44		03/20/12 10:17	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.59	0.30	1.44		03/20/12 10:17	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	0.58	1.44		03/20/12 10:17	75-35-4	
cis-1,2-Dichloroethene	14.7	ug/m3	1.2	0.22	1.44		03/20/12 10:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	0.58	1.44		03/20/12 10:17	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.4	0.68	1.44		03/20/12 10:17	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.3	0.16	1.44		03/20/12 10:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.3	0.66	1.44		03/20/12 10:17	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.0	0.31	1.44		03/20/12 10:17	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	0.53	0.27	1.44		03/20/12 10:17	123-91-1	
Ethanol	69.4	ug/m3	0.55	0.28	1.44		03/20/12 10:17	64-17-5	SS
Ethylbenzene	5.1	ug/m3	1.3	0.17	1.44		03/20/12 10:17	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	3.2	1.6	1.44		03/20/12 10:17	87-68-3	
n-Hexane	34.1	ug/m3	1.0	0.52	1.44		03/20/12 10:17	110-54-3	
Methylene Chloride	88.3	ug/m3	1.0	0.51	1.44		03/20/12 10:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.2	0.60	1.44		03/20/12 10:17	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.1	0.13	1.44		03/20/12 10:17	1634-04-4	
Styrene	ND	ug/m3	1.3	0.62	1.44		03/20/12 10:17	100-42-5	
1,1,2,2-Tetrachloroethane	3.1	ug/m3	1.0	0.27	1.44		03/20/12 10:17	79-34-5	
Tetrachloroethene	958	ug/m3	19.8	9.8	28.8		03/19/12 22:48	127-18-4	
Toluene	18.8	ug/m3	1.1	0.55	1.44		03/20/12 10:17	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1.4	0.71	1.44		03/20/12 10:17	120-82-1	
1,1,1-Trichloroethane	6.3	ug/m3	1.6	0.79	1.44		03/20/12 10:17	71-55-6	
Trichloroethene	31.6	ug/m3	0.79	0.40	1.44		03/20/12 10:17	79-01-6	
Trichlorofluoromethane	1.2J	ug/m3	1.6	0.32	1.44		03/20/12 10:17	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.3	1.2	1.44		03/20/12 10:17	76-13-1	

Date: 03/21/2012 05:07 PM

REPORT OF LABORATORY ANALYSIS

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03/21/12

ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo
Pace Project No.: 10184975

Sample: **SG-018** Lab ID: **10184975001** Collected: 03/06/12 14:49 Received: 03/08/12 10:05 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
1,2,4-Trimethylbenzene	10.5	ug/m3	1.4	0.72	1.44		03/20/12 10:17	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.4	0.19	1.44		03/20/12 10:17	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	1.4	0.14	1.44		03/20/12 10:17	540-84-1	
Vinyl chloride	ND	ug/m3	0.37	0.19	1.44		03/20/12 10:17	75-01-4	
m&p-Xylene	20.5	ug/m3	2.5	1.3	1.44		03/20/12 10:17	179601-23-1	
o-Xylene	8.5	ug/m3	1.3	0.18	1.44		03/20/12 10:17	95-47-6	

ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo
Pace Project No.: 10184830

Sample: SG-019 Lab ID: 10184830005 Collected: 03/06/12 10:39 Received: 03/07/12 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	29.7	ug/m3	0.45	0.22	1.39		03/19/12 19:25	71-43-2	
Benzyl chloride	ND	ug/m3	1.5	0.73	1.39		03/19/12 19:25	100-44-7	
Bromodichloromethane	ND	ug/m3	1.9	0.25	1.39		03/19/12 19:25	75-27-4	
Bromoform	ND	ug/m3	2.9	1.5	1.39		03/19/12 19:25	75-25-2	
Bromomethane	ND	ug/m3	1.1	0.25	1.39		03/19/12 19:25	74-83-9	
1,3-Butadiene	ND	ug/m3	0.63	0.31	1.39		03/19/12 19:25	106-99-0	
2-Butanone (MEK)	18.4	ug/m3	0.83	0.22	1.39		03/19/12 19:25	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	1.3	0.074	1.39		03/19/12 19:25	75-65-0	
Carbon tetrachloride	ND	ug/m3	0.89	0.44	1.39		03/19/12 19:25	56-23-5	
Chlorobenzene	ND	ug/m3	1.3	0.65	1.39		03/19/12 19:25	108-90-7	
Chloroethane	ND	ug/m3	0.75	0.38	1.39		03/19/12 19:25	75-00-3	
Chloroform	211	ug/m3	1.4	0.69	1.39		03/19/12 19:25	67-66-3	
Chloromethane	ND	ug/m3	0.58	0.29	1.39		03/19/12 19:25	74-87-3	
Cyclohexane	25.2	ug/m3	0.95	0.50	1.39		03/19/12 19:25	110-82-7	
Dibromochloromethane	ND	ug/m3	2.4	1.2	1.39		03/19/12 19:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.2	1.1	1.39		03/19/12 19:25	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.7	0.85	1.39		03/19/12 19:25	95-50-1	
1,3-Dichlorobenzene	8.1	ug/m3	1.7	0.85	1.39		03/19/12 19:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.7	0.85	1.39		03/19/12 19:25	106-46-7	
Dichlorodifluoromethane	3.7	ug/m3	1.4	0.70	1.39		03/19/12 19:25	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.1	0.57	1.39		03/19/12 19:25	75-34-3	
1,2-Dichloroethane	3.6	ug/m3	0.57	0.29	1.39		03/19/12 19:25	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.1	0.56	1.39		03/19/12 19:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.1	0.21	1.39		03/19/12 19:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	0.56	1.39		03/19/12 19:25	156-60-5	
1,2-Dichloropropane	34.1	ug/m3	1.3	0.65	1.39		03/19/12 19:25	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.3	0.15	1.39		03/19/12 19:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.3	0.64	1.39		03/19/12 19:25	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.0	0.30	1.39		03/19/12 19:25	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	0.51	0.26	1.39		03/19/12 19:25	123-91-1	
Ethanol	83.6	ug/m3	0.53	0.27	1.39		03/19/12 19:25	64-17-5	SS
Ethylbenzene	11.2	ug/m3	1.2	0.17	1.39		03/19/12 19:25	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	3.1	1.5	1.39		03/19/12 19:25	87-68-3	
n-Hexane	22.1	ug/m3	1.0	0.50	1.39		03/19/12 19:25	110-54-3	
Methylene Chloride	17.5	ug/m3	0.99	0.49	1.39		03/19/12 19:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.2	0.58	1.39		03/19/12 19:25	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.0	0.12	1.39		03/19/12 19:25	1634-04-4	
Styrene	ND	ug/m3	1.2	0.60	1.39		03/19/12 19:25	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.97	0.26	1.39		03/19/12 19:25	79-34-5	
Tetrachloroethene	141	ug/m3	0.96	0.47	1.39		03/19/12 19:25	127-18-4	
Toluene	415	ug/m3	21.4	10.7	27.8		03/17/12 07:12	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1.4	0.69	1.39		03/19/12 19:25	120-82-1	
1,1,1-Trichloroethane	4.9	ug/m3	1.5	0.76	1.39		03/19/12 19:25	71-55-6	
Trichloroethene	8.8	ug/m3	0.76	0.39	1.39		03/19/12 19:25	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.6	0.31	1.39		03/19/12 19:25	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.2	1.1	1.39		03/19/12 19:25	76-13-1	

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ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo

Pace Project No.: 10184830

Sample: SG-019 **Lab ID: 10184830005** Collected: 03/06/12 10:39 Received: 03/07/12 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
1,2,4-Trimethylbenzene	12.3	ug/m3	1.4	0.70	1.39		03/19/12 19:25	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.4	0.18	1.39		03/19/12 19:25	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	1.3	0.14	1.39		03/19/12 19:25	540-84-1	
Vinyl chloride	ND	ug/m3	0.36	0.18	1.39		03/19/12 19:25	75-01-4	
m&p-Xylene	39.0	ug/m3	2.4	1.2	1.39		03/19/12 19:25	179601-23-1	
o-Xylene	14.8	ug/m3	1.2	0.18	1.39		03/19/12 19:25	95-47-6	

SG-019

ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo
Pace Project No.: 10184830

Sample: FD-03062012-1 Lab ID: 10184830008 Collected: 03/06/12 00:00 Received: 03/07/12 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	35.7	ug/m3	0.45	0.22	1.39		03/19/12 21:23	71-43-2	
Benzyl chloride	ND	ug/m3	1.5	0.73	1.39		03/19/12 21:23	100-44-7	
Bromodichloromethane	ND	ug/m3	1.9	0.25	1.39		03/19/12 21:23	75-27-4	
Bromoform	ND	ug/m3	2.9	1.5	1.39		03/19/12 21:23	75-25-2	
Bromomethane	ND	ug/m3	1.1	0.25	1.39		03/19/12 21:23	74-83-9	
1,3-Butadiene	ND	ug/m3	0.63	0.31	1.39		03/19/12 21:23	106-99-0	
2-Butanone (MEK)	36.2	ug/m3	0.83	0.22	1.39		03/19/12 21:23	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	1.3	0.074	1.39		03/19/12 21:23	75-65-0	
Carbon tetrachloride	ND	ug/m3	0.89	0.44	1.39		03/19/12 21:23	56-23-5	
Chlorobenzene	ND	ug/m3	1.3	0.65	1.39		03/19/12 21:23	108-90-7	
Chloroethane	ND	ug/m3	0.75	0.38	1.39		03/19/12 21:23	75-00-3	
Chloroform	194	ug/m3	1.4	0.69	1.39		03/19/12 21:23	67-66-3	
Chloromethane	ND	ug/m3	0.58	0.29	1.39		03/19/12 21:23	74-87-3	
Cyclohexane	30.1	ug/m3	0.95	0.50	1.39		03/19/12 21:23	110-82-7	
Dibromochloromethane	ND	ug/m3	2.4	1.2	1.39		03/19/12 21:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.2	1.1	1.39		03/19/12 21:23	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.7	0.85	1.39		03/19/12 21:23	95-50-1	
1,3-Dichlorobenzene	7.1	ug/m3	1.7	0.85	1.39		03/19/12 21:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.7	0.85	1.39		03/19/12 21:23	106-46-7	
Dichlorodifluoromethane	3.4	ug/m3	1.4	0.70	1.39		03/19/12 21:23	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.1	0.57	1.39		03/19/12 21:23	75-34-3	
1,2-Dichloroethane	4.4	ug/m3	0.57	0.29	1.39		03/19/12 21:23	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.1	0.56	1.39		03/19/12 21:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.1	0.21	1.39		03/19/12 21:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	0.56	1.39		03/19/12 21:23	156-60-5	
1,2-Dichloropropane	43.8	ug/m3	1.3	0.65	1.39		03/19/12 21:23	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.3	0.15	1.39		03/19/12 21:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.3	0.64	1.39		03/19/12 21:23	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.0	0.30	1.39		03/19/12 21:23	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	0.51	0.26	1.39		03/19/12 21:23	123-91-1	
Ethanol	70.5	ug/m3	10.6	5.3	27.8		03/17/12 08:40	64-17-5	SS
Ethylbenzene	11.0	ug/m3	1.2	0.17	1.39		03/19/12 21:23	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	3.1	1.5	1.39		03/19/12 21:23	87-68-3	
n-Hexane	13.0	ug/m3	1.0	0.50	1.39		03/19/12 21:23	110-54-3	
Methylene Chloride	14.9	ug/m3	0.99	0.49	1.39		03/19/12 21:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.2	0.58	1.39		03/19/12 21:23	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.0	0.12	1.39		03/19/12 21:23	1634-04-4	
Styrene	ND	ug/m3	1.2	0.60	1.39		03/19/12 21:23	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.97	0.26	1.39		03/19/12 21:23	79-34-5	
Tetrachloroethene	126	ug/m3	0.96	0.47	1.39		03/19/12 21:23	127-18-4	
Toluene	531	ug/m3	21.4	10.7	27.8		03/17/12 08:40	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1.4	0.69	1.39		03/19/12 21:23	120-82-1	
1,1,1-Trichloroethane	4.7	ug/m3	1.5	0.76	1.39		03/19/12 21:23	71-55-6	
Trichloroethene	9.2	ug/m3	0.76	0.39	1.39		03/19/12 21:23	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.6	0.31	1.39		03/19/12 21:23	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.2	1.1	1.39		03/19/12 21:23	76-13-1	

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SG-019

ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo

Pace Project No.: 10184830

Sample: FD-03062012-1		Lab ID: 10184830008		Collected: 03/06/12 00:00		Received: 03/07/12 10:00		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
1,2,4-Trimethylbenzene	13.4	ug/m3	1.4	0.70	1.39		03/19/12 21:23	95-63-6	
1,3,5-Trimethylbenzene	4.0	ug/m3	1.4	0.18	1.39		03/19/12 21:23	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	1.3	0.14	1.39		03/19/12 21:23	540-84-1	
Vinyl chloride	ND	ug/m3	0.36	0.18	1.39		03/19/12 21:23	75-01-4	
m&p-Xylene	37.5	ug/m3	2.4	1.2	1.39		03/19/12 21:23	179601-23-1	
o-Xylene	14.3	ug/m3	1.2	0.18	1.39		03/19/12 21:23	95-47-6	

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ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo
Pace Project No.: 10184830

Sample: SG-020 Lab ID: 10184830009 Collected: 03/06/12 11:04 Received: 03/07/12 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	ND	ug/m3	0.45	0.22	1.39		03/19/12 20:53	71-43-2	
Benzyl chloride	ND	ug/m3	1.5	0.73	1.39		03/19/12 20:53	100-44-7	
Bromodichloromethane	ND	ug/m3	1.9	0.25	1.39		03/19/12 20:53	75-27-4	
Bromoform	ND	ug/m3	2.9	1.5	1.39		03/19/12 20:53	75-25-2	
Bromomethane	ND	ug/m3	1.1	0.25	1.39		03/19/12 20:53	74-83-9	
1,3-Butadiene	ND	ug/m3	0.63	0.31	1.39		03/19/12 20:53	106-99-0	
2-Butanone (MEK)	3.6	ug/m3	0.83	0.22	1.39		03/19/12 20:53	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	1.3	0.074	1.39		03/19/12 20:53	75-65-0	
Carbon tetrachloride	3.9	ug/m3	0.89	0.44	1.39		03/19/12 20:53	56-23-5	
Chlorobenzene	ND	ug/m3	1.3	0.65	1.39		03/19/12 20:53	108-90-7	
Chloroethane	ND	ug/m3	0.75	0.38	1.39		03/19/12 20:53	75-00-3	
Chloroform	221	ug/m3	27.5	13.8	27.8		03/17/12 08:11	67-66-3	
Chloromethane	ND	ug/m3	0.58	0.29	1.39		03/19/12 20:53	74-87-3	
Cyclohexane	ND	ug/m3	0.95	0.50	1.39		03/19/12 20:53	110-82-7	
Dibromochloromethane	ND	ug/m3	2.4	1.2	1.39		03/19/12 20:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.2	1.1	1.39		03/19/12 20:53	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.7	0.85	1.39		03/19/12 20:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.7	0.85	1.39		03/19/12 20:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.7	0.85	1.39		03/19/12 20:53	106-46-7	
Dichlorodifluoromethane	3.5	ug/m3	1.4	0.70	1.39		03/19/12 20:53	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.1	0.57	1.39		03/19/12 20:53	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.57	0.29	1.39		03/19/12 20:53	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.1	0.56	1.39		03/19/12 20:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.1	0.21	1.39		03/19/12 20:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	0.56	1.39		03/19/12 20:53	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.3	0.65	1.39		03/19/12 20:53	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.3	0.15	1.39		03/19/12 20:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.3	0.64	1.39		03/19/12 20:53	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.0	0.30	1.39		03/19/12 20:53	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	0.51	0.26	1.39		03/19/12 20:53	123-91-1	
Ethanol	30.4	ug/m3	0.53	0.27	1.39		03/19/12 20:53	64-17-5	SS
Ethylbenzene	8.1	ug/m3	1.2	0.17	1.39		03/19/12 20:53	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	3.1	1.5	1.39		03/19/12 20:53	87-68-3	
n-Hexane	3.1	ug/m3	1.0	0.50	1.39		03/19/12 20:53	110-54-3	
Methylene Chloride	4.4	ug/m3	0.99	0.49	1.39		03/19/12 20:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.2	0.58	1.39		03/19/12 20:53	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.0	0.12	1.39		03/19/12 20:53	1634-04-4	
Styrene	ND	ug/m3	1.2	0.60	1.39		03/19/12 20:53	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.97	0.26	1.39		03/19/12 20:53	79-34-5	
Tetrachloroethene	245	ug/m3	19.2	9.5	27.8		03/17/12 08:11	127-18-4	
Toluene	57.0	ug/m3	1.1	0.54	1.39		03/19/12 20:53	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1.4	0.69	1.39		03/19/12 20:53	120-82-1	
1,1,1-Trichloroethane	5.5	ug/m3	1.5	0.76	1.39		03/19/12 20:53	71-55-6	
Trichloroethene	25.7	ug/m3	0.76	0.39	1.39		03/19/12 20:53	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.6	0.31	1.39		03/19/12 20:53	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.2	1.1	1.39		03/19/12 20:53	76-13-1	

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ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo

Pace Project No.: 10184830

Sample: SG-020 Lab ID: 10184830009 Collected: 03/06/12 11:04 Received: 03/07/12 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
1,2,4-Trimethylbenzene	ND	ug/m3	1.4	0.70	1.39		03/19/12 20:53	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.4	0.18	1.39		03/19/12 20:53	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	1.3	0.14	1.39		03/19/12 20:53	540-84-1	
Vinyl chloride	ND	ug/m3	0.36	0.18	1.39		03/19/12 20:53	75-01-4	
m&p-Xylene	23.3	ug/m3	2.4	1.2	1.39		03/19/12 20:53	179601-23-1	
o-Xylene	7.8	ug/m3	1.2	0.18	1.39		03/19/12 20:53	95-47-6	

ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo
Pace Project No.: 10184830

Sample: SG-021 Lab ID: 10184830010 Collected: 03/06/12 11:33 Received: 03/07/12 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	ND	ug/m3	9.7	4.8	29.8		03/17/12 09:09	71-43-2	
Benzyl chloride	ND	ug/m3	31.3	15.6	29.8		03/17/12 09:09	100-44-7	
Bromodichloromethane	ND	ug/m3	40.5	5.3	29.8		03/17/12 09:09	75-27-4	
Bromoform	ND	ug/m3	62.6	31.3	29.8		03/17/12 09:09	75-25-2	
Bromomethane	ND	ug/m3	23.5	5.4	29.8		03/17/12 09:09	74-83-9	
1,3-Butadiene	ND	ug/m3	13.4	6.7	29.8		03/17/12 09:09	106-99-0	
2-Butanone (MEK)	ND	ug/m3	17.9	4.6	29.8		03/17/12 09:09	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	27.5	1.6	29.8		03/17/12 09:09	75-65-0	
Carbon tetrachloride	ND	ug/m3	19.1	9.5	29.8		03/17/12 09:09	56-23-5	
Chlorobenzene	ND	ug/m3	28.0	14.0	29.8		03/17/12 09:09	108-90-7	
Chloroethane	ND	ug/m3	16.1	8.0	29.8		03/17/12 09:09	75-00-3	
Chloroform	ND	ug/m3	29.5	14.8	29.8		03/17/12 09:09	67-66-3	
Chloromethane	ND	ug/m3	12.5	6.3	29.8		03/17/12 09:09	74-87-3	
Cyclohexane	15.8J	ug/m3	20.3	10.7	29.8		03/17/12 09:09	110-82-7	
Dibromochloromethane	ND	ug/m3	51.6	25.8	29.8		03/17/12 09:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	46.5	23.2	29.8		03/17/12 09:09	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	36.4	18.2	29.8		03/17/12 09:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	36.4	18.2	29.8		03/17/12 09:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	36.4	18.2	29.8		03/17/12 09:09	106-46-7	
Dichlorodifluoromethane	23.2J	ug/m3	30.1	15.0	29.8		03/17/12 09:09	75-71-8	D3
1,1-Dichloroethane	ND	ug/m3	24.4	12.2	29.8		03/17/12 09:09	75-34-3	
1,2-Dichloroethane	ND	ug/m3	12.2	6.3	29.8		03/17/12 09:09	107-06-2	
1,1-Dichloroethene	ND	ug/m3	24.1	12.0	29.8		03/17/12 09:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	24.1	4.6	29.8		03/17/12 09:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	24.1	12.1	29.8		03/17/12 09:09	156-60-5	
1,2-Dichloropropane	ND	ug/m3	28.0	14.0	29.8		03/17/12 09:09	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	27.4	3.3	29.8		03/17/12 09:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	27.4	13.7	29.8		03/17/12 09:09	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	42.3	6.3	29.8		03/17/12 09:09	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	10.9	5.5	29.8		03/17/12 09:09	123-91-1	
Ethanol	ND	ug/m3	11.3	5.7	29.8		03/17/12 09:09	64-17-5	
Ethylbenzene	ND	ug/m3	26.2	3.5	29.8		03/17/12 09:09	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	65.6	32.8	29.8		03/17/12 09:09	87-68-3	
n-Hexane	12.8J	ug/m3	21.5	10.7	29.8		03/17/12 09:09	110-54-3	
Methylene Chloride	17.1J	ug/m3	21.2	10.5	29.8		03/17/12 09:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	24.7	12.4	29.8		03/17/12 09:09	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	21.8	2.6	29.8		03/17/12 09:09	1634-04-4	
Styrene	ND	ug/m3	25.9	12.9	29.8		03/17/12 09:09	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	20.8	5.6	29.8		03/17/12 09:09	79-34-5	
Tetrachloroethene	21.9	ug/m3	20.5	10.1	29.8		03/17/12 09:09	127-18-4	
Toluene	12.9J	ug/m3	22.9	11.5	29.8		03/17/12 09:09	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	29.5	14.8	29.8		03/17/12 09:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	33.1	16.4	29.8		03/17/12 09:09	71-55-6	
Trichloroethene	ND	ug/m3	16.4	8.3	29.8		03/17/12 09:09	79-01-6	
Trichlorofluoromethane	ND	ug/m3	34.0	6.6	29.8		03/17/12 09:09	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	47.7	23.8	29.8		03/17/12 09:09	76-13-1	

ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo

Pace Project No.: 10184830

Sample: SG-021 Lab ID: 10184830010 Collected: 03/06/12 11:33 Received: 03/07/12 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
1,2,4-Trimethylbenzene	ND	ug/m3	29.8	14.9	29.8		03/17/12 09:09	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	29.8	3.9	29.8		03/17/12 09:09	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	28.3	3.0	29.8		03/17/12 09:09	540-84-1	
Vinyl chloride	ND	ug/m3	7.7	3.9	29.8		03/17/12 09:09	75-01-4	
m&p-Xylene	ND	ug/m3	52.4	26.2	29.8		03/17/12 09:09	179601-23-1	
o-Xylene	ND	ug/m3	26.2	3.8	29.8		03/17/12 09:09	95-47-6	

ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo
Pace Project No.: 10184830

Sample: SG-042 Lab ID: 10184830013 Collected: 03/06/12 14:05 Received: 03/07/12 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	ND	ug/m3	9.0	4.4	27.8		03/19/12 23:20	71-43-2	
Benzyl chloride	ND	ug/m3	29.2	14.6	27.8		03/19/12 23:20	100-44-7	
Bromodichloromethane	ND	ug/m3	37.8	4.9	27.8		03/19/12 23:20	75-27-4	
Bromoform	ND	ug/m3	58.4	29.2	27.8		03/19/12 23:20	75-25-2	
Bromomethane	ND	ug/m3	22.0	5.0	27.8		03/19/12 23:20	74-83-9	
1,3-Butadiene	ND	ug/m3	12.5	6.3	27.8		03/19/12 23:20	106-99-0	
2-Butanone (MEK)	ND	ug/m3	16.7	4.3	27.8		03/19/12 23:20	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	25.7	1.5	27.8		03/19/12 23:20	75-65-0	
Carbon tetrachloride	ND	ug/m3	17.8	8.9	27.8		03/19/12 23:20	56-23-5	
Chlorobenzene	ND	ug/m3	26.1	13.1	27.8		03/19/12 23:20	108-90-7	
Chloroethane	ND	ug/m3	15.0	7.5	27.8		03/19/12 23:20	75-00-3	
Chloroform	36.8	ug/m3	27.5	13.8	27.8		03/19/12 23:20	67-66-3	
Chloromethane	ND	ug/m3	11.7	5.8	27.8		03/19/12 23:20	74-87-3	
Cyclohexane	ND	ug/m3	18.9	10.0	27.8		03/19/12 23:20	110-82-7	
Dibromochloromethane	ND	ug/m3	48.1	24.1	27.8		03/19/12 23:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	43.4	21.7	27.8		03/19/12 23:20	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	33.9	17.0	27.8		03/19/12 23:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	33.9	17.0	27.8		03/19/12 23:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	33.9	17.0	27.8		03/19/12 23:20	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	28.1	14.0	27.8		03/19/12 23:20	75-71-8	
1,1-Dichloroethane	240	ug/m3	22.8	11.4	27.8		03/19/12 23:20	75-34-3	
1,2-Dichloroethane	ND	ug/m3	11.4	5.8	27.8		03/19/12 23:20	107-06-2	
1,1-Dichloroethene	25.3	ug/m3	22.5	11.2	27.8		03/19/12 23:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	22.5	4.3	27.8		03/19/12 23:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	22.5	11.3	27.8		03/19/12 23:20	156-60-5	
1,2-Dichloropropane	ND	ug/m3	26.1	13.1	27.8		03/19/12 23:20	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	25.6	3.1	27.8		03/19/12 23:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	25.6	12.8	27.8		03/19/12 23:20	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	39.5	5.9	27.8		03/19/12 23:20	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	10.2	5.1	27.8		03/19/12 23:20	123-91-1	
Ethanol	ND	ug/m3	10.6	5.3	27.8		03/19/12 23:20	64-17-5	
Ethylbenzene	ND	ug/m3	24.5	3.3	27.8		03/19/12 23:20	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	61.2	30.6	27.8		03/19/12 23:20	87-68-3	
n-Hexane	ND	ug/m3	20.0	10.0	27.8		03/19/12 23:20	110-54-3	
Methylene Chloride	ND	ug/m3	19.7	9.8	27.8		03/19/12 23:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	23.1	11.5	27.8		03/19/12 23:20	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	20.3	2.4	27.8		03/19/12 23:20	1634-04-4	
Styrene	ND	ug/m3	24.2	12.0	27.8		03/19/12 23:20	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	19.4	5.2	27.8		03/19/12 23:20	79-34-5	
Tetrachloroethene	294	ug/m3	19.2	9.5	27.8		03/19/12 23:20	127-18-4	
Toluene	30.6	ug/m3	21.4	10.7	27.8		03/19/12 23:20	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	27.5	13.8	27.8		03/19/12 23:20	120-82-1	
1,1,1-Trichloroethane	12400	ug/m3	247	122	222.4		03/20/12 10:36	71-55-6	A3
Trichloroethene	ND	ug/m3	15.3	7.8	27.8		03/19/12 23:20	79-01-6	
Trichlorofluoromethane	ND	ug/m3	31.7	6.2	27.8		03/19/12 23:20	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	44.5	22.2	27.8		03/19/12 23:20	76-13-1	

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ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo

Pace Project No.: 10184830

Sample: SG-042 Lab ID: 10184830013 Collected: 03/06/12 14:05 Received: 03/07/12 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
1,2,4-Trimethylbenzene	ND	ug/m3	27.8	13.9	27.8		03/19/12 23:20	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	27.8	3.6	27.8		03/19/12 23:20	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	26.4	2.8	27.8		03/19/12 23:20	540-84-1	
Vinyl chloride	ND	ug/m3	7.2	3.6	27.8		03/19/12 23:20	75-01-4	
m&p-Xylene	ND	ug/m3	48.9	24.5	27.8		03/19/12 23:20	179601-23-1	
o-Xylene	ND	ug/m3	24.5	3.6	27.8		03/19/12 23:20	95-47-6	

ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo
Pace Project No.: 10184830

Sample: **SG-044** Lab ID: **10184830011** Collected: 03/06/12 11:47 Received: 03/07/12 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	7.2	ug/m3	0.48	0.24	1.49		03/19/12 18:56	71-43-2	
Benzyl chloride	ND	ug/m3	1.6	0.78	1.49		03/19/12 18:56	100-44-7	
Bromodichloromethane	ND	ug/m3	2.0	0.26	1.49		03/19/12 18:56	75-27-4	
Bromoform	ND	ug/m3	3.1	1.6	1.49		03/19/12 18:56	75-25-2	
Bromomethane	ND	ug/m3	1.2	0.27	1.49		03/19/12 18:56	74-83-9	
1,3-Butadiene	ND	ug/m3	0.67	0.34	1.49		03/19/12 18:56	106-99-0	
2-Butanone (MEK)	ND	ug/m3	0.89	0.23	1.49		03/19/12 18:56	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	1.4	0.079	1.49		03/19/12 18:56	75-65-0	
Carbon tetrachloride	ND	ug/m3	0.95	0.48	1.49		03/19/12 18:56	56-23-5	
Chlorobenzene	ND	ug/m3	1.4	0.70	1.49		03/19/12 18:56	108-90-7	
Chloroethane	ND	ug/m3	0.80	0.40	1.49		03/19/12 18:56	75-00-3	
Chloroform	ND	ug/m3	1.5	0.74	1.49		03/19/12 18:56	67-66-3	
Chloromethane	ND	ug/m3	0.63	0.31	1.49		03/19/12 18:56	74-87-3	
Cyclohexane	ND	ug/m3	1.0	0.54	1.49		03/19/12 18:56	110-82-7	
Dibromochloromethane	ND	ug/m3	2.6	1.3	1.49		03/19/12 18:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.3	1.2	1.49		03/19/12 18:56	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.8	0.91	1.49		03/19/12 18:56	95-50-1	
1,3-Dichlorobenzene	7.2	ug/m3	1.8	0.91	1.49		03/19/12 18:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.8	0.91	1.49		03/19/12 18:56	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.5	0.75	1.49		03/19/12 18:56	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.2	0.61	1.49		03/19/12 18:56	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.61	0.31	1.49		03/19/12 18:56	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	0.60	1.49		03/19/12 18:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	0.23	1.49		03/19/12 18:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	0.60	1.49		03/19/12 18:56	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.4	0.70	1.49		03/19/12 18:56	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.4	0.17	1.49		03/19/12 18:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.4	0.69	1.49		03/19/12 18:56	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.1	0.32	1.49		03/19/12 18:56	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	0.55	0.28	1.49		03/19/12 18:56	123-91-1	
Ethanol	402	ug/m3	0.57	0.29	1.49		03/19/12 18:56	64-17-5	E,SS
Ethylbenzene	19.6	ug/m3	1.3	0.18	1.49		03/19/12 18:56	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	3.3	1.6	1.49		03/19/12 18:56	87-68-3	
n-Hexane	10.6	ug/m3	1.1	0.54	1.49		03/19/12 18:56	110-54-3	
Methylene Chloride	ND	ug/m3	1.1	0.53	1.49		03/19/12 18:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.2	0.62	1.49		03/19/12 18:56	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.1	0.13	1.49		03/19/12 18:56	1634-04-4	
Styrene	ND	ug/m3	1.3	0.65	1.49		03/19/12 18:56	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.0	0.28	1.49		03/19/12 18:56	79-34-5	
Tetrachloroethene	149	ug/m3	1.0	0.51	1.49		03/19/12 18:56	127-18-4	
Toluene	134	ug/m3	1.1	0.57	1.49		03/19/12 18:56	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1.5	0.74	1.49		03/19/12 18:56	120-82-1	
1,1,1-Trichloroethane	18.1	ug/m3	1.7	0.82	1.49		03/19/12 18:56	71-55-6	
Trichloroethene	ND	ug/m3	0.82	0.42	1.49		03/19/12 18:56	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.7	0.33	1.49		03/19/12 18:56	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.4	1.2	1.49		03/19/12 18:56	76-13-1	

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ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo

Pace Project No.: 10184830

Sample: SG-044		Lab ID: 10184830011		Collected: 03/06/12 11:47		Received: 03/07/12 10:00		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
1,2,4-Trimethylbenzene	10.4	ug/m3	1.5	0.74	1.49		03/19/12 18:56	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.5	0.19	1.49		03/19/12 18:56	108-67-8	
2,2,4-Trimethylpentane	12.9	ug/m3	1.4	0.15	1.49		03/19/12 18:56	540-84-1	
Vinyl chloride	ND	ug/m3	0.39	0.19	1.49		03/19/12 18:56	75-01-4	
m&p-Xylene	70.7	ug/m3	2.6	1.3	1.49		03/19/12 18:56	179601-23-1	
o-Xylene	25.0	ug/m3	1.3	0.19	1.49		03/19/12 18:56	95-47-6	

ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo
Pace Project No.: 10184830

Sample: SG-046 Lab ID: 10184830014 Collected: 03/06/12 12:47 Received: 03/07/12 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	4.9	ug/m3	0.47	0.23	1.44		03/19/12 13:56	71-43-2	
Benzyl chloride	ND	ug/m3	1.5	0.76	1.44		03/19/12 13:56	100-44-7	
Bromodichloromethane	ND	ug/m3	2.0	0.25	1.44		03/19/12 13:56	75-27-4	
Bromoform	ND	ug/m3	3.0	1.5	1.44		03/19/12 13:56	75-25-2	
Bromomethane	ND	ug/m3	1.1	0.26	1.44		03/19/12 13:56	74-83-9	
1,3-Butadiene	ND	ug/m3	0.65	0.32	1.44		03/19/12 13:56	106-99-0	
2-Butanone (MEK)	5.9	ug/m3	0.86	0.22	1.44		03/19/12 13:56	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	1.3	0.076	1.44		03/19/12 13:56	75-65-0	
Carbon tetrachloride	ND	ug/m3	0.92	0.46	1.44		03/19/12 13:56	56-23-5	
Chlorobenzene	ND	ug/m3	1.4	0.68	1.44		03/19/12 13:56	108-90-7	
Chloroethane	ND	ug/m3	0.78	0.39	1.44		03/19/12 13:56	75-00-3	
Chloroform	13.1	ug/m3	1.4	0.72	1.44		03/19/12 13:56	67-66-3	
Chloromethane	ND	ug/m3	0.60	0.30	1.44		03/19/12 13:56	74-87-3	
Cyclohexane	27.9	ug/m3	0.98	0.52	1.44		03/19/12 13:56	110-82-7	
Dibromochloromethane	ND	ug/m3	2.5	1.2	1.44		03/19/12 13:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.2	1.1	1.44		03/19/12 13:56	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.8	0.88	1.44		03/19/12 13:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.8	0.88	1.44		03/19/12 13:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.8	0.88	1.44		03/19/12 13:56	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.5	0.73	1.44		03/19/12 13:56	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.2	0.59	1.44		03/19/12 13:56	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.59	0.30	1.44		03/19/12 13:56	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	0.58	1.44		03/19/12 13:56	75-35-4	
cis-1,2-Dichloroethene	3.7	ug/m3	1.2	0.22	1.44		03/19/12 13:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	0.58	1.44		03/19/12 13:56	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.4	0.68	1.44		03/19/12 13:56	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.3	0.16	1.44		03/19/12 13:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.3	0.66	1.44		03/19/12 13:56	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.0	0.31	1.44		03/19/12 13:56	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	0.53	0.27	1.44		03/19/12 13:56	123-91-1	
Ethanol	ND	ug/m3	0.55	0.28	1.44		03/19/12 13:56	64-17-5	
Ethylbenzene	11.7	ug/m3	1.3	0.17	1.44		03/19/12 13:56	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	3.2	1.6	1.44		03/19/12 13:56	87-68-3	
n-Hexane	ND	ug/m3	1.0	0.52	1.44		03/19/12 13:56	110-54-3	
Methylene Chloride	6.0	ug/m3	1.0	0.51	1.44		03/19/12 13:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.2	0.60	1.44		03/19/12 13:56	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.1	0.13	1.44		03/19/12 13:56	1634-04-4	
Styrene	1.7	ug/m3	1.3	0.62	1.44		03/19/12 13:56	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.0	0.27	1.44		03/19/12 13:56	79-34-5	
Tetrachloroethene	294	ug/m3	0.99	0.49	1.44		03/19/12 13:56	127-18-4	
Toluene	191	ug/m3	11.1	5.5	14.4		03/17/12 05:15	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1.4	0.71	1.44		03/19/12 13:56	120-82-1	
1,1,1-Trichloroethane	35.9	ug/m3	1.6	0.79	1.44		03/19/12 13:56	71-55-6	
Trichloroethene	70.2	ug/m3	0.79	0.40	1.44		03/19/12 13:56	79-01-6	
Trichlorofluoromethane	6.9	ug/m3	1.6	0.32	1.44		03/19/12 13:56	75-69-4	
1,1,2-Trichlorotrifluoroethane	19.1	ug/m3	2.3	1.2	1.44		03/19/12 13:56	76-13-1	

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ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo
Pace Project No.: 10184830

Sample: SG-046		Lab ID: 10184830014		Collected: 03/06/12 12:47		Received: 03/07/12 10:00		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
1,2,4-Trimethylbenzene	9.2	ug/m3	1.4	0.72	1.44		03/19/12 13:56	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.4	0.19	1.44		03/19/12 13:56	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	1.4	0.14	1.44		03/19/12 13:56	540-84-1	
Vinyl chloride	ND	ug/m3	0.37	0.19	1.44		03/19/12 13:56	75-01-4	
m&p-Xylene	36.7	ug/m3	2.5	1.3	1.44		03/19/12 13:56	179601-23-1	
o-Xylene	13.6	ug/m3	1.3	0.18	1.44		03/19/12 13:56	95-47-6	

ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo
Pace Project No.: 10184830

Sample: SG-047 Lab ID: 10184830003 Collected: 03/06/12 09:15 Received: 03/07/12 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	5.1	ug/m3	0.41	0.20	1.26		03/17/12 03:47	71-43-2	
Benzyl chloride	ND	ug/m3	1.3	0.66	1.26		03/17/12 03:47	100-44-7	
Bromodichloromethane	ND	ug/m3	1.7	0.22	1.26		03/17/12 03:47	75-27-4	
Bromoform	ND	ug/m3	2.6	1.3	1.26		03/17/12 03:47	75-25-2	
Bromomethane	ND	ug/m3	1.0	0.23	1.26		03/17/12 03:47	74-83-9	
1,3-Butadiene	ND	ug/m3	0.57	0.28	1.26		03/17/12 03:47	106-99-0	
2-Butanone (MEK)	10.2	ug/m3	0.76	0.20	1.26		03/17/12 03:47	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	1.2	0.067	1.26		03/17/12 03:47	75-65-0	
Carbon tetrachloride	6.2	ug/m3	0.81	0.40	1.26		03/17/12 03:47	56-23-5	
Chlorobenzene	ND	ug/m3	1.2	0.59	1.26		03/17/12 03:47	108-90-7	
Chloroethane	ND	ug/m3	0.68	0.34	1.26		03/17/12 03:47	75-00-3	
Chloroform	24.5	ug/m3	1.2	0.63	1.26		03/17/12 03:47	67-66-3	
Chloromethane	ND	ug/m3	0.53	0.26	1.26		03/17/12 03:47	74-87-3	
Cyclohexane	7.5	ug/m3	0.86	0.45	1.26		03/17/12 03:47	110-82-7	
Dibromochloromethane	ND	ug/m3	2.2	1.1	1.26		03/17/12 03:47	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.0	0.98	1.26		03/17/12 03:47	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.5	0.77	1.26		03/17/12 03:47	95-50-1	
1,3-Dichlorobenzene	4.2	ug/m3	1.5	0.77	1.26		03/17/12 03:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.5	0.77	1.26		03/17/12 03:47	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.3	0.64	1.26		03/17/12 03:47	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.0	0.52	1.26		03/17/12 03:47	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.52	0.26	1.26		03/17/12 03:47	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.0	0.51	1.26		03/17/12 03:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.0	0.19	1.26		03/17/12 03:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.0	0.51	1.26		03/17/12 03:47	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.2	0.59	1.26		03/17/12 03:47	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.2	0.14	1.26		03/17/12 03:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.2	0.58	1.26		03/17/12 03:47	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	1.8	0.27	1.26		03/17/12 03:47	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	0.46	0.23	1.26		03/17/12 03:47	123-91-1	
Ethanol	ND	ug/m3	0.48	0.24	1.26		03/17/12 03:47	64-17-5	
Ethylbenzene	12.2	ug/m3	1.1	0.15	1.26		03/17/12 03:47	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	2.8	1.4	1.26		03/17/12 03:47	87-68-3	
n-Hexane	ND	ug/m3	0.91	0.45	1.26		03/17/12 03:47	110-54-3	
Methylene Chloride	2.1	ug/m3	0.89	0.44	1.26		03/17/12 03:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.0	0.52	1.26		03/17/12 03:47	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	0.92	0.11	1.26		03/17/12 03:47	1634-04-4	
Styrene	ND	ug/m3	1.1	0.55	1.26		03/17/12 03:47	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.88	0.24	1.26		03/17/12 03:47	79-34-5	
Tetrachloroethene	617	ug/m3	8.7	4.3	12.6		03/19/12 19:27	127-18-4	
Toluene	79.8	ug/m3	0.97	0.49	1.26		03/17/12 03:47	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1.2	0.62	1.26		03/17/12 03:47	120-82-1	
1,1,1-Trichloroethane	14.1	ug/m3	1.4	0.69	1.26		03/17/12 03:47	71-55-6	
Trichloroethene	65.6	ug/m3	0.69	0.35	1.26		03/17/12 03:47	79-01-6	
Trichlorofluoromethane	5.2	ug/m3	1.4	0.28	1.26		03/17/12 03:47	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.0	1.0	1.26		03/17/12 03:47	76-13-1	

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ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo

Pace Project No.: 10184830

Sample: SG-047		Lab ID: 10184830003		Collected: 03/06/12 09:15		Received: 03/07/12 10:00		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
1,2,4-Trimethylbenzene	8.5	ug/m3	1.3	0.63	1.26		03/17/12 03:47	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.3	0.16	1.26		03/17/12 03:47	108-67-8	
2,2,4-Trimethylpentane	8.4	ug/m3	1.2	0.13	1.26		03/17/12 03:47	540-84-1	
Vinyl chloride	ND	ug/m3	0.33	0.16	1.26		03/17/12 03:47	75-01-4	
m&p-Xylene	42.6	ug/m3	2.2	1.1	1.26		03/17/12 03:47	179601-23-1	
o-Xylene	16.3	ug/m3	1.1	0.16	1.26		03/17/12 03:47	95-47-6	

ANALYTICAL RESULTS

Project: 11176390.00002 Klink Cosmo
Pace Project No.: 10184652

Sample: SG-048 Lab ID: 10184652001 Collected: 03/05/12 09:24 Received: 03/06/12 10:08 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	3.2	ug/m3	0.47	0.23	1.44		03/14/12 21:49	71-43-2	
Benzyl chloride	ND	ug/m3	1.5	0.76	1.44		03/14/12 21:49	100-44-7	
Bromodichloromethane	ND	ug/m3	2.0	0.25	1.44		03/14/12 21:49	75-27-4	
Bromoform	ND	ug/m3	3.0	1.5	1.44		03/14/12 21:49	75-25-2	
Bromomethane	ND	ug/m3	1.1	0.26	1.44		03/14/12 21:49	74-83-9	
1,3-Butadiene	ND	ug/m3	0.65	0.32	1.44		03/14/12 21:49	106-99-0	
2-Butanone (MEK)	2.7	ug/m3	0.86	0.22	1.44		03/14/12 21:49	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	1.3	0.076	1.44		03/14/12 21:49	75-65-0	
Carbon tetrachloride	ND	ug/m3	0.92	0.46	1.44		03/14/12 21:49	56-23-5	
Chlorobenzene	ND	ug/m3	1.4	0.68	1.44		03/14/12 21:49	108-90-7	
Chloroethane	ND	ug/m3	0.78	0.39	1.44		03/14/12 21:49	75-00-3	
Chloroform	0.77J	ug/m3	1.4	0.72	1.44		03/14/12 21:49	67-66-3	
Chloromethane	ND	ug/m3	0.60	0.30	1.44		03/14/12 21:49	74-87-3	
Cyclohexane	2.1	ug/m3	0.98	0.52	1.44		03/14/12 21:49	110-82-7	
Dibromochloromethane	ND	ug/m3	2.5	1.2	1.44		03/14/12 21:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.2	1.1	1.44		03/14/12 21:49	106-93-4	
1,2-Dichlorobenzene	1.1J	ug/m3	1.8	0.88	1.44		03/14/12 21:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.8	0.88	1.44		03/14/12 21:49	541-73-1	
1,4-Dichlorobenzene	2.6	ug/m3	1.8	0.88	1.44		03/14/12 21:49	106-46-7	
Dichlorodifluoromethane	1.8	ug/m3	1.5	0.73	1.44		03/14/12 21:49	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.2	0.59	1.44		03/14/12 21:49	75-34-3	
1,2-Dichloroethane	2.2	ug/m3	0.59	0.30	1.44		03/14/12 21:49	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	0.58	1.44		03/14/12 21:49	75-35-4	
cis-1,2-Dichloroethene	1.6	ug/m3	1.2	0.22	1.44		03/14/12 21:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	0.58	1.44		03/14/12 21:49	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.4	0.68	1.44		03/14/12 21:49	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.3	0.16	1.44		03/14/12 21:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.3	0.66	1.44		03/14/12 21:49	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.0	0.31	1.44		03/14/12 21:49	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	0.53	0.27	1.44		03/14/12 21:49	123-91-1	
Ethanol	25.1	ug/m3	0.55	0.28	1.44		03/14/12 21:49	64-17-5	SS
Ethylbenzene	20.2	ug/m3	1.3	0.17	1.44		03/14/12 21:49	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	3.2	1.6	1.44		03/14/12 21:49	87-68-3	
n-Hexane	10.0	ug/m3	1.0	0.52	1.44		03/14/12 21:49	110-54-3	
Methylene Chloride	1.3	ug/m3	1.0	0.51	1.44		03/14/12 21:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.2	0.60	1.44		03/14/12 21:49	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.1	0.13	1.44		03/14/12 21:49	1634-04-4	
Styrene	2.7	ug/m3	1.3	0.62	1.44		03/14/12 21:49	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.0	0.27	1.44		03/14/12 21:49	79-34-5	
Tetrachloroethene	17600	ug/m3	159	78.3	230.4		03/16/12 22:18	127-18-4	A3
Toluene	69.1	ug/m3	1.1	0.55	1.44		03/14/12 21:49	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1.4	0.71	1.44		03/14/12 21:49	120-82-1	
1,1,1-Trichloroethane	44.1	ug/m3	1.6	0.79	1.44		03/14/12 21:49	71-55-6	
Trichloroethene	21.6	ug/m3	0.79	0.40	1.44		03/14/12 21:49	79-01-6	
Trichlorofluoromethane	3.6	ug/m3	1.6	0.32	1.44		03/14/12 21:49	75-69-4	
1,1,2-Trichlorotrifluoroethane	1.9J	ug/m3	2.3	1.2	1.44		03/14/12 21:49	76-13-1	

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ANALYTICAL RESULTS

Project: 11176390.00002 Klink Cosmo

Pace Project No.: 10184652

Sample: SG-048		Lab ID: 10184652001	Collected: 03/05/12 09:24	Received: 03/06/12 10:08	Matrix: Air				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
1,2,4-Trimethylbenzene	10.5	ug/m3	1.4	0.72	1.44		03/14/12 21:49	95-63-6	
1,3,5-Trimethylbenzene	2.1	ug/m3	1.4	0.19	1.44		03/14/12 21:49	108-67-8	
2,2,4-Trimethylpentane	1.5	ug/m3	1.4	0.14	1.44		03/14/12 21:49	540-84-1	
Vinyl chloride	ND	ug/m3	0.37	0.19	1.44		03/14/12 21:49	75-01-4	
m&p-Xylene	60.6	ug/m3	2.5	1.3	1.44		03/14/12 21:49	179601-23-1	
o-Xylene	20.7	ug/m3	1.3	0.18	1.44		03/14/12 21:49	95-47-6	

ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo
Pace Project No.: 10184975

Sample: SG-049 Lab ID: 10184975004 Collected: 03/07/12 08:29 Received: 03/08/12 10:05 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	32.4	ug/m3	9.4	4.6	28.8		03/17/12 01:27	71-43-2	
Benzyl chloride	ND	ug/m3	30.2	15.1	28.8		03/17/12 01:27	100-44-7	
Bromodichloromethane	ND	ug/m3	39.2	5.1	28.8		03/17/12 01:27	75-27-4	
Bromoform	ND	ug/m3	60.5	30.2	28.8		03/17/12 01:27	75-25-2	
Bromomethane	ND	ug/m3	22.8	5.2	28.8		03/17/12 01:27	74-83-9	
1,3-Butadiene	ND	ug/m3	13.0	6.5	28.8		03/17/12 01:27	106-99-0	
2-Butanone (MEK)	ND	ug/m3	17.3	4.5	28.8		03/17/12 01:27	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	26.6	1.5	28.8		03/17/12 01:27	75-65-0	
Carbon tetrachloride	1420	ug/m3	18.4	9.2	28.8		03/17/12 01:27	56-23-5	
Chlorobenzene	ND	ug/m3	27.1	13.5	28.8		03/17/12 01:27	108-90-7	
Chloroethane	ND	ug/m3	15.6	7.8	28.8		03/17/12 01:27	75-00-3	
Chloroform	354	ug/m3	28.5	14.3	28.8		03/17/12 01:27	67-66-3	
Chloromethane	ND	ug/m3	12.1	6.0	28.8		03/17/12 01:27	74-87-3	
Cyclohexane	ND	ug/m3	19.6	10.4	28.8		03/17/12 01:27	110-82-7	
Dibromochloromethane	ND	ug/m3	49.8	24.9	28.8		03/17/12 01:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	44.9	22.5	28.8		03/17/12 01:27	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	35.1	17.6	28.8		03/17/12 01:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	35.1	17.6	28.8		03/17/12 01:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	35.1	17.6	28.8		03/17/12 01:27	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	29.1	14.5	28.8		03/17/12 01:27	75-71-8	
1,1-Dichloroethane	ND	ug/m3	23.6	11.8	28.8		03/17/12 01:27	75-34-3	
1,2-Dichloroethane	ND	ug/m3	11.8	6.0	28.8		03/17/12 01:27	107-06-2	
1,1-Dichloroethene	44.1	ug/m3	23.3	11.6	28.8		03/17/12 01:27	75-35-4	
cis-1,2-Dichloroethene	97100	ug/m3	2990	564	3686.4		03/20/12 02:08	156-59-2	A3
trans-1,2-Dichloroethene	556	ug/m3	23.3	11.7	28.8		03/17/12 01:27	156-60-5	
1,2-Dichloropropane	ND	ug/m3	27.1	13.5	28.8		03/17/12 01:27	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	26.5	3.2	28.8		03/17/12 01:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	26.5	13.2	28.8		03/17/12 01:27	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	40.9	6.1	28.8		03/17/12 01:27	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	10.5	5.3	28.8		03/17/12 01:27	123-91-1	
Ethanol	24.5	ug/m3	10.9	5.5	28.8		03/17/12 01:27	64-17-5	SS
Ethylbenzene	18.9J	ug/m3	25.3	3.4	28.8		03/17/12 01:27	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	63.4	31.7	28.8		03/17/12 01:27	87-68-3	
n-Hexane	ND	ug/m3	20.7	10.4	28.8		03/17/12 01:27	110-54-3	
Methylene Chloride	ND	ug/m3	20.4	10.2	28.8		03/17/12 01:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	23.9	12.0	28.8		03/17/12 01:27	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	21.0	2.5	28.8		03/17/12 01:27	1634-04-4	
Styrene	ND	ug/m3	25.1	12.5	28.8		03/17/12 01:27	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	20.1	5.4	28.8		03/17/12 01:27	79-34-5	
Tetrachloroethene	3420000	ug/m3	2540	1250	3686.4		03/20/12 02:08	127-18-4	A3, C0, E
Toluene	48.2	ug/m3	22.2	11.1	28.8		03/17/12 01:27	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	28.5	14.3	28.8		03/17/12 01:27	120-82-1	
1,1,1-Trichloroethane	153	ug/m3	32.0	15.8	28.8		03/17/12 01:27	71-55-6	
Trichloroethene	40600	ug/m3	2030	1030	3686.4		03/20/12 02:08	79-01-6	A3
Trichlorofluoromethane	ND	ug/m3	32.8	6.4	28.8		03/17/12 01:27	75-69-4	

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ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo
Pace Project No.: 10184975

Sample: SG-049		Lab ID: 10184975004		Collected: 03/07/12 08:29		Received: 03/08/12 10:05		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
1,1,2-Trichlorotrifluoroethane	1220	ug/m3	46.1	23.0	28.8		03/17/12 01:27	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	28.8	14.4	28.8		03/17/12 01:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	28.8	3.7	28.8		03/17/12 01:27	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	27.4	2.9	28.8		03/17/12 01:27	540-84-1	
Vinyl chloride	328	ug/m3	7.5	3.7	28.8		03/17/12 01:27	75-01-4	
m&p-Xylene	60.8	ug/m3	50.7	25.3	28.8		03/17/12 01:27	179601-23-1	
o-Xylene	15.9J	ug/m3	25.3	3.7	28.8		03/17/12 01:27	95-47-6	

SG-049

ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo

Pace Project No.: 10184975

Sample: FD-03072012-1 Lab ID: 10184975009 Collected: 03/07/12 00:00 Received: 03/08/12 10:05 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	ND	ug/m3	9.4	4.6	28.8		03/17/12 00:00	71-43-2	
Benzyl chloride	ND	ug/m3	30.2	15.1	28.8		03/17/12 00:00	100-44-7	
Bromodichloromethane	ND	ug/m3	39.2	5.1	28.8		03/17/12 00:00	75-27-4	
Bromoform	ND	ug/m3	60.5	30.2	28.8		03/17/12 00:00	75-25-2	
Bromomethane	ND	ug/m3	22.8	5.2	28.8		03/17/12 00:00	74-83-9	
1,3-Butadiene	ND	ug/m3	13.0	6.5	28.8		03/17/12 00:00	106-99-0	
2-Butanone (MEK)	ND	ug/m3	17.3	4.5	28.8		03/17/12 00:00	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	26.6	1.5	28.8		03/17/12 00:00	75-65-0	
Carbon tetrachloride	1500	ug/m3	18.4	9.2	28.8		03/17/12 00:00	56-23-5	
Chlorobenzene	ND	ug/m3	27.1	13.5	28.8		03/17/12 00:00	108-90-7	
Chloroethane	ND	ug/m3	15.6	7.8	28.8		03/17/12 00:00	75-00-3	
Chloroform	371	ug/m3	28.5	14.3	28.8		03/17/12 00:00	67-66-3	
Chloromethane	ND	ug/m3	12.1	6.0	28.8		03/17/12 00:00	74-87-3	
Cyclohexane	ND	ug/m3	19.6	10.4	28.8		03/17/12 00:00	110-82-7	
Dibromochloromethane	ND	ug/m3	49.8	24.9	28.8		03/17/12 00:00	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	44.9	22.5	28.8		03/17/12 00:00	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	35.1	17.6	28.8		03/17/12 00:00	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	35.1	17.6	28.8		03/17/12 00:00	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	35.1	17.6	28.8		03/17/12 00:00	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	29.1	14.5	28.8		03/17/12 00:00	75-71-8	
1,1-Dichloroethane	ND	ug/m3	23.6	11.8	28.8		03/17/12 00:00	75-34-3	
1,2-Dichloroethane	ND	ug/m3	11.8	6.0	28.8		03/17/12 00:00	107-06-2	
1,1-Dichloroethene	46.8	ug/m3	23.3	11.6	28.8		03/17/12 00:00	75-35-4	
cis-1,2-Dichloroethene	160000	ug/m3	2990	564	3686.4		03/19/12 23:45	156-59-2	A3
trans-1,2-Dichloroethene	571	ug/m3	23.3	11.7	28.8		03/17/12 00:00	156-60-5	
1,2-Dichloropropane	ND	ug/m3	27.1	13.5	28.8		03/17/12 00:00	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	26.5	3.2	28.8		03/17/12 00:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	26.5	13.2	28.8		03/17/12 00:00	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	40.9	6.1	28.8		03/17/12 00:00	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	10.5	5.3	28.8		03/17/12 00:00	123-91-1	
Ethanol	18.1	ug/m3	10.9	5.5	28.8		03/17/12 00:00	64-17-5	SS
Ethylbenzene	18.8J	ug/m3	25.3	3.4	28.8		03/17/12 00:00	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	63.4	31.7	28.8		03/17/12 00:00	87-68-3	
n-Hexane	ND	ug/m3	20.7	10.4	28.8		03/17/12 00:00	110-54-3	
Methylene Chloride	ND	ug/m3	20.4	10.2	28.8		03/17/12 00:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	23.9	12.0	28.8		03/17/12 00:00	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	21.0	2.5	28.8		03/17/12 00:00	1634-04-4	
Styrene	ND	ug/m3	25.1	12.5	28.8		03/17/12 00:00	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	20.1	5.4	28.8		03/17/12 00:00	79-34-5	
Tetrachloroethene	5140000	ug/m3	2540	1250	3686.4		03/19/12 23:45	127-18-4	A3, C0, E
Toluene	48.9	ug/m3	22.2	11.1	28.8		03/17/12 00:00	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	28.5	14.3	28.8		03/17/12 00:00	120-82-1	
1,1,1-Trichloroethane	160	ug/m3	32.0	15.8	28.8		03/17/12 00:00	71-55-6	
Trichloroethene	70700	ug/m3	2030	1030	3686.4		03/19/12 23:45	79-01-6	A3
Trichlorofluoromethane	ND	ug/m3	32.8	6.4	28.8		03/17/12 00:00	75-69-4	

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SG-049

ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo

Pace Project No.: 10184975

Sample: FD-03072012-1 Lab ID: 10184975009 Collected: 03/07/12 00:00 Received: 03/08/12 10:05 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
1,1,2-Trichlorotrifluoroethane	1290	ug/m3	46.1	23.0	28.8		03/17/12 00:00	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	28.8	14.4	28.8		03/17/12 00:00	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	28.8	3.7	28.8		03/17/12 00:00	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	27.4	2.9	28.8		03/17/12 00:00	540-84-1	
Vinyl chloride	345	ug/m3	7.5	3.7	28.8		03/17/12 00:00	75-01-4	
m&p-Xylene	63.6	ug/m3	50.7	25.3	28.8		03/17/12 00:00	179601-23-1	
o-Xylene	16.4J	ug/m3	25.3	3.7	28.8		03/17/12 00:00	95-47-6	

OK
5/14/12

ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo
Pace Project No.: 10184830

Sample: SG-055 Lab ID: 10184830001 Collected: 03/06/12 08:45 Received: 03/07/12 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	3.7	ug/m3	0.45	0.22	1.39		03/19/12 14:24	71-43-2	
Benzyl chloride	ND	ug/m3	1.5	0.73	1.39		03/19/12 14:24	100-44-7	
Bromodichloromethane	ND	ug/m3	1.9	0.25	1.39		03/19/12 14:24	75-27-4	
Bromoform	ND	ug/m3	2.9	1.5	1.39		03/19/12 14:24	75-25-2	
Bromomethane	ND	ug/m3	1.1	0.25	1.39		03/19/12 14:24	74-83-9	
1,3-Butadiene	ND	ug/m3	0.63	0.31	1.39		03/19/12 14:24	106-99-0	
2-Butanone (MEK)	ND	ug/m3	0.83	0.22	1.39		03/19/12 14:24	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	1.3	0.074	1.39		03/19/12 14:24	75-65-0	
Carbon tetrachloride	ND	ug/m3	0.89	0.44	1.39		03/19/12 14:24	56-23-5	
Chlorobenzene	ND	ug/m3	1.3	0.65	1.39		03/19/12 14:24	108-90-7	
Chloroethane	ND	ug/m3	0.75	0.38	1.39		03/19/12 14:24	75-00-3	
Chloroform	ND	ug/m3	1.4	0.69	1.39		03/19/12 14:24	67-66-3	
Chloromethane	ND	ug/m3	0.58	0.29	1.39		03/19/12 14:24	74-87-3	
Cyclohexane	ND	ug/m3	0.95	0.50	1.39		03/19/12 14:24	110-82-7	
Dibromochloromethane	ND	ug/m3	2.4	1.2	1.39		03/19/12 14:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.2	1.1	1.39		03/19/12 14:24	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.7	0.85	1.39		03/19/12 14:24	95-50-1	
1,3-Dichlorobenzene	2.8	ug/m3	1.7	0.85	1.39		03/19/12 14:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.7	0.85	1.39		03/19/12 14:24	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.4	0.70	1.39		03/19/12 14:24	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.1	0.57	1.39		03/19/12 14:24	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.57	0.29	1.39		03/19/12 14:24	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.1	0.56	1.39		03/19/12 14:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.1	0.21	1.39		03/19/12 14:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	0.56	1.39		03/19/12 14:24	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.3	0.65	1.39		03/19/12 14:24	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.3	0.15	1.39		03/19/12 14:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.3	0.64	1.39		03/19/12 14:24	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.0	0.30	1.39		03/19/12 14:24	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	0.51	0.26	1.39		03/19/12 14:24	123-91-1	
Ethanol	ND	ug/m3	0.53	0.27	1.39		03/19/12 14:24	64-17-5	
Ethylbenzene	8.9	ug/m3	1.2	0.17	1.39		03/19/12 14:24	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	3.1	1.5	1.39		03/19/12 14:24	87-68-3	
n-Hexane	ND	ug/m3	1.0	0.50	1.39		03/19/12 14:24	110-54-3	
Methylene Chloride	ND	ug/m3	0.99	0.49	1.39		03/19/12 14:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.2	0.58	1.39		03/19/12 14:24	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.0	0.12	1.39		03/19/12 14:24	1634-04-4	
Styrene	ND	ug/m3	1.2	0.60	1.39		03/19/12 14:24	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.97	0.26	1.39		03/19/12 14:24	79-34-5	
Tetrachloroethene	49.0	ug/m3	0.96	0.47	1.39		03/19/12 14:24	127-18-4	
Toluene	54.5	ug/m3	1.1	0.54	1.39		03/19/12 14:24	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1.4	0.69	1.39		03/19/12 14:24	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.5	0.76	1.39		03/19/12 14:24	71-55-6	
Trichloroethene	12.4	ug/m3	0.76	0.39	1.39		03/19/12 14:24	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.6	0.31	1.39		03/19/12 14:24	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.2	1.1	1.39		03/19/12 14:24	76-13-1	

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ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo

Pace Project No.: 10184830

Sample: SG-055

Lab ID: 10184830001

Collected: 03/06/12 08:45

Received: 03/07/12 10:00

Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
1,2,4-Trimethylbenzene	4.6	ug/m3	1.4	0.70	1.39		03/19/12 14:24	95-63-6	
1,3,5-Trimethylbenzene	1.6	ug/m3	1.4	0.18	1.39		03/19/12 14:24	108-67-8	
2,2,4-Trimethylpentane	4.0	ug/m3	1.3	0.14	1.39		03/19/12 14:24	540-84-1	
Vinyl chloride	ND	ug/m3	0.36	0.18	1.39		03/19/12 14:24	75-01-4	
m&p-Xylene	30.3	ug/m3	2.4	1.2	1.39		03/19/12 14:24	179601-23-1	
o-Xylene	10.9	ug/m3	1.2	0.18	1.39		03/19/12 14:24	95-47-6	

ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo
Pace Project No.: 10184975

Sample: SG-058 Lab ID: 10184975006 Collected: 03/07/12 09:16 Received: 03/08/12 10:05 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	ND	ug/m3	9.4	4.6	28.8		03/17/12 00:29	71-43-2	
Benzyl chloride	ND	ug/m3	30.2	15.1	28.8		03/17/12 00:29	100-44-7	
Bromodichloromethane	ND	ug/m3	39.2	5.1	28.8		03/17/12 00:29	75-27-4	
Bromoform	ND	ug/m3	60.5	30.2	28.8		03/17/12 00:29	75-25-2	
Bromomethane	ND	ug/m3	22.8	5.2	28.8		03/17/12 00:29	74-83-9	
1,3-Butadiene	ND	ug/m3	13.0	6.5	28.8		03/17/12 00:29	106-99-0	
2-Butanone (MEK)	ND	ug/m3	17.3	4.5	28.8		03/17/12 00:29	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	26.6	1.5	28.8		03/17/12 00:29	75-65-0	
Carbon tetrachloride	ND	ug/m3	18.4	9.2	28.8		03/17/12 00:29	56-23-5	
Chlorobenzene	ND	ug/m3	27.1	13.5	28.8		03/17/12 00:29	108-90-7	
Chloroethane	ND	ug/m3	15.6	7.8	28.8		03/17/12 00:29	75-00-3	
Chloroform	ND	ug/m3	28.5	14.3	28.8		03/17/12 00:29	67-66-3	
Chloromethane	ND	ug/m3	12.1	6.0	28.8		03/17/12 00:29	74-87-3	
Cyclohexane	ND	ug/m3	19.6	10.4	28.8		03/17/12 00:29	110-82-7	
Dibromochloromethane	ND	ug/m3	49.8	24.9	28.8		03/17/12 00:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	44.9	22.5	28.8		03/17/12 00:29	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	35.1	17.6	28.8		03/17/12 00:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	35.1	17.6	28.8		03/17/12 00:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	35.1	17.6	28.8		03/17/12 00:29	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	29.1	14.5	28.8		03/17/12 00:29	75-71-8	
1,1-Dichloroethane	ND	ug/m3	23.6	11.8	28.8		03/17/12 00:29	75-34-3	
1,2-Dichloroethane	ND	ug/m3	11.8	6.0	28.8		03/17/12 00:29	107-06-2	
1,1-Dichloroethene	ND	ug/m3	23.3	11.6	28.8		03/17/12 00:29	75-35-4	
cis-1,2-Dichloroethene	31.1	ug/m3	23.3	4.4	28.8		03/17/12 00:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	23.3	11.7	28.8		03/17/12 00:29	156-60-5	
1,2-Dichloropropane	ND	ug/m3	27.1	13.5	28.8		03/17/12 00:29	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	26.5	3.2	28.8		03/17/12 00:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	26.5	13.2	28.8		03/17/12 00:29	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	40.9	6.1	28.8		03/17/12 00:29	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	10.5	5.3	28.8		03/17/12 00:29	123-91-1	
Ethanol	48.3	ug/m3	10.9	5.5	28.8		03/17/12 00:29	64-17-5	SS
Ethylbenzene	ND	ug/m3	25.3	3.4	28.8		03/17/12 00:29	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	63.4	31.7	28.8		03/17/12 00:29	87-68-3	
n-Hexane	ND	ug/m3	20.7	10.4	28.8		03/17/12 00:29	110-54-3	
Methylene Chloride	ND	ug/m3	20.4	10.2	28.8		03/17/12 00:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	23.9	12.0	28.8		03/17/12 00:29	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	21.0	2.5	28.8		03/17/12 00:29	1634-04-4	
Styrene	ND	ug/m3	25.1	12.5	28.8		03/17/12 00:29	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	20.1	5.4	28.8		03/17/12 00:29	79-34-5	
Tetrachloroethene	8800	ug/m3	79.4	39.2	115.2		03/20/12 01:40	127-18-4	A3
Toluene	49.2	ug/m3	22.2	11.1	28.8		03/17/12 00:29	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	28.5	14.3	28.8		03/17/12 00:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	32.0	15.8	28.8		03/17/12 00:29	71-55-6	
Trichloroethene	53.8	ug/m3	15.8	8.1	28.8		03/17/12 00:29	79-01-6	
Trichlorofluoromethane	ND	ug/m3	32.8	6.4	28.8		03/17/12 00:29	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	46.1	23.0	28.8		03/17/12 00:29	76-13-1	

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ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo

Pace Project No.: 10184975

Sample: SG-058		Lab ID: 10184975006		Collected: 03/07/12 09:16		Received: 03/08/12 10:05		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
1,2,4-Trimethylbenzene	ND	ug/m3	28.8	14.4	28.8		03/17/12 00:29	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	28.8	3.7	28.8		03/17/12 00:29	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	27.4	2.9	28.8		03/17/12 00:29	540-84-1	
Vinyl chloride	ND	ug/m3	7.5	3.7	28.8		03/17/12 00:29	75-01-4	
m&p-Xylene	ND	ug/m3	50.7	25.3	28.8		03/17/12 00:29	179601-23-1	
o-Xylene	ND	ug/m3	25.3	3.7	28.8		03/17/12 00:29	95-47-6	

ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo
Pace Project No.: 10184975

Sample: SG-056 Lab ID: 10184975002 Collected: 03/06/12 15:14 Received: 03/08/12 10:05 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	ND	ug/m3	9.0	4.4	27.8		03/16/12 21:05	71-43-2	
Benzyl chloride	ND	ug/m3	29.2	14.6	27.8		03/16/12 21:05	100-44-7	
Bromodichloromethane	ND	ug/m3	37.8	4.9	27.8		03/16/12 21:05	75-27-4	
Bromoform	ND	ug/m3	58.4	29.2	27.8		03/16/12 21:05	75-25-2	
Bromomethane	ND	ug/m3	22.0	5.0	27.8		03/16/12 21:05	74-83-9	
1,3-Butadiene	ND	ug/m3	12.5	6.3	27.8		03/16/12 21:05	106-99-0	
2-Butanone (MEK)	ND	ug/m3	16.7	4.3	27.8		03/16/12 21:05	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	25.7	1.5	27.8		03/16/12 21:05	75-65-0	
Carbon tetrachloride	ND	ug/m3	17.8	8.9	27.8		03/16/12 21:05	56-23-5	
Chlorobenzene	ND	ug/m3	26.1	13.1	27.8		03/16/12 21:05	108-90-7	
Chloroethane	ND	ug/m3	15.0	7.5	27.8		03/16/12 21:05	75-00-3	
Chloroform	496	ug/m3	27.5	13.8	27.8		03/16/12 21:05	67-66-3	
Chloromethane	ND	ug/m3	11.7	5.8	27.8		03/16/12 21:05	74-87-3	
Cyclohexane	ND	ug/m3	18.9	10.0	27.8		03/16/12 21:05	110-82-7	
Dibromochloromethane	ND	ug/m3	48.1	24.1	27.8		03/16/12 21:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	43.4	21.7	27.8		03/16/12 21:05	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	33.9	17.0	27.8		03/16/12 21:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	33.9	17.0	27.8		03/16/12 21:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	33.9	17.0	27.8		03/16/12 21:05	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	28.1	14.0	27.8		03/16/12 21:05	75-71-8	
1,1-Dichloroethane	ND	ug/m3	22.8	11.4	27.8		03/16/12 21:05	75-34-3	
1,2-Dichloroethane	ND	ug/m3	11.4	5.8	27.8		03/16/12 21:05	107-06-2	
1,1-Dichloroethene	ND	ug/m3	22.5	11.2	27.8		03/16/12 21:05	75-35-4	
cis-1,2-Dichloroethene	763	ug/m3	22.5	4.3	27.8		03/16/12 21:05	156-59-2	
trans-1,2-Dichloroethene	19.7J	ug/m3	22.5	11.3	27.8		03/16/12 21:05	156-60-5	
1,2-Dichloropropane	ND	ug/m3	26.1	13.1	27.8		03/16/12 21:05	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	25.6	3.1	27.8		03/16/12 21:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	25.6	12.8	27.8		03/16/12 21:05	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	39.5	5.9	27.8		03/16/12 21:05	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	10.2	5.1	27.8		03/16/12 21:05	123-91-1	
Ethanol	462	ug/m3	10.6	5.3	27.8		03/16/12 21:05	64-17-5	SS
Ethylbenzene	17.8J	ug/m3	24.5	3.3	27.8		03/16/12 21:05	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	61.2	30.6	27.8		03/16/12 21:05	87-68-3	
n-Hexane	ND	ug/m3	20.0	10.0	27.8		03/16/12 21:05	110-54-3	
Methylene Chloride	ND	ug/m3	19.7	9.8	27.8		03/16/12 21:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	23.1	11.5	27.8		03/16/12 21:05	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	20.3	2.4	27.8		03/16/12 21:05	1634-04-4	
Styrene	ND	ug/m3	24.2	12.0	27.8		03/16/12 21:05	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	19.4	5.2	27.8		03/16/12 21:05	79-34-5	
Tetrachloroethene	19000	ug/m3	306	151	444.8		03/20/12 00:14	127-18-4	A3
Toluene	69.0	ug/m3	21.4	10.7	27.8		03/16/12 21:05	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	27.5	13.8	27.8		03/16/12 21:05	120-82-1	
1,1,1-Trichloroethane	51.3	ug/m3	30.9	15.3	27.8		03/16/12 21:05	71-55-6	
Trichloroethene	1230	ug/m3	15.3	7.8	27.8		03/16/12 21:05	79-01-6	
Trichlorofluoromethane	ND	ug/m3	31.7	6.2	27.8		03/16/12 21:05	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	44.5	22.2	27.8		03/16/12 21:05	76-13-1	

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ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo

Pace Project No.: 10184975

Sample: SG-056

Lab ID: 10184975002

Collected: 03/06/12 15:14

Received: 03/08/12 10:05

Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
1,2,4-Trimethylbenzene	27.5J	ug/m3	27.8	13.9	27.8		03/16/12 21:05	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	27.8	3.6	27.8		03/16/12 21:05	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	26.4	2.8	27.8		03/16/12 21:05	540-84-1	
Vinyl chloride	ND	ug/m3	7.2	3.6	27.8		03/16/12 21:05	75-01-4	
m&p-Xylene	82.6	ug/m3	48.9	24.5	27.8		03/16/12 21:05	179601-23-1	
o-Xylene	28.3	ug/m3	24.5	3.6	27.8		03/16/12 21:05	95-47-6	

ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo
Pace Project No.: 10184975

Sample: SG-059 Lab ID: 10184975013 Collected: 03/07/12 11:20 Received: 03/08/12 10:05 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	4.3	ug/m3	2.2	1.1	6.7		03/19/12 21:48	71-43-2	
Benzyl chloride	ND	ug/m3	7.0	3.5	6.7		03/19/12 21:48	100-44-7	
Bromodichloromethane	ND	ug/m3	9.1	1.2	6.7		03/19/12 21:48	75-27-4	
Bromoform	ND	ug/m3	14.1	7.0	6.7		03/19/12 21:48	75-25-2	
Bromomethane	ND	ug/m3	5.3	1.2	6.7		03/19/12 21:48	74-83-9	
1,3-Butadiene	ND	ug/m3	3.0	1.5	6.7		03/19/12 21:48	106-99-0	
2-Butanone (MEK)	8.7	ug/m3	4.0	1.0	6.7		03/19/12 21:48	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	6.2	0.36	6.7		03/19/12 21:48	75-65-0	
Carbon tetrachloride	ND	ug/m3	4.3	2.1	6.7		03/19/12 21:48	56-23-5	
Chlorobenzene	ND	ug/m3	6.3	3.1	6.7		03/19/12 21:48	108-90-7	
Chloroethane	ND	ug/m3	3.6	1.8	6.7		03/19/12 21:48	75-00-3	
Chloroform	ND	ug/m3	6.6	3.3	6.7		03/19/12 21:48	67-66-3	
Chloromethane	ND	ug/m3	2.8	1.4	6.7		03/19/12 21:48	74-87-3	
Cyclohexane	ND	ug/m3	4.6	2.4	6.7		03/19/12 21:48	110-82-7	
Dibromochloromethane	ND	ug/m3	11.6	5.8	6.7		03/19/12 21:48	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	10.5	5.2	6.7		03/19/12 21:48	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	8.2	4.1	6.7		03/19/12 21:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	8.2	4.1	6.7		03/19/12 21:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	8.2	4.1	6.7		03/19/12 21:48	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	6.8	3.4	6.7		03/19/12 21:48	75-71-8	
1,1-Dichloroethane	ND	ug/m3	5.5	2.7	6.7		03/19/12 21:48	75-34-3	
1,2-Dichloroethane	ND	ug/m3	2.7	1.4	6.7		03/19/12 21:48	107-06-2	
1,1-Dichloroethene	ND	ug/m3	5.4	2.7	6.7		03/19/12 21:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	5.4	1.0	6.7		03/19/12 21:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	5.4	2.7	6.7		03/19/12 21:48	156-60-5	
1,2-Dichloropropane	ND	ug/m3	6.3	3.1	6.7		03/19/12 21:48	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	6.2	0.74	6.7		03/19/12 21:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	6.2	3.1	6.7		03/19/12 21:48	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	9.5	1.4	6.7		03/19/12 21:48	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	2.5	1.2	6.7		03/19/12 21:48	123-91-1	
Ethanol	387	ug/m3	2.5	1.3	6.7		03/19/12 21:48	64-17-5	SS
Ethylbenzene	32.5	ug/m3	5.9	0.80	6.7		03/19/12 21:48	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	14.7	7.4	6.7		03/19/12 21:48	87-68-3	
n-Hexane	5.3	ug/m3	4.8	2.4	6.7		03/19/12 21:48	110-54-3	
Methylene Chloride	2.5J	ug/m3	4.8	2.4	6.7		03/19/12 21:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	5.6	2.8	6.7		03/19/12 21:48	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	4.9	0.59	6.7		03/19/12 21:48	1634-04-4	
Styrene	ND	ug/m3	5.8	2.9	6.7		03/19/12 21:48	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	4.7	1.3	6.7		03/19/12 21:48	79-34-5	
Tetrachloroethene	405	ug/m3	4.6	2.3	6.7		03/19/12 21:48	127-18-4	
Toluene	119	ug/m3	5.2	2.6	6.7		03/19/12 21:48	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	6.6	3.3	6.7		03/19/12 21:48	120-82-1	
1,1,1-Trichloroethane	4.5J	ug/m3	7.4	3.7	6.7		03/19/12 21:48	71-55-6	
Trichloroethene	2.0J	ug/m3	3.7	1.9	6.7		03/19/12 21:48	79-01-6	
Trichlorofluoromethane	ND	ug/m3	7.6	1.5	6.7		03/19/12 21:48	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	10.7	5.4	6.7		03/19/12 21:48	76-13-1	

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ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo

Pace Project No.: 10184975

Sample: SG-059		Lab ID: 10184975013		Collected: 03/07/12 11:20		Received: 03/08/12 10:05		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
1,2,4-Trimethylbenzene	33.7	ug/m3	6.7	3.4	6.7		03/19/12 21:48	95-63-6	
1,3,5-Trimethylbenzene	9.8	ug/m3	6.7	0.87	6.7		03/19/12 21:48	108-67-8	
2,2,4-Trimethylpentane	8.5	ug/m3	6.4	0.67	6.7		03/19/12 21:48	540-84-1	
Vinyl chloride	ND	ug/m3	1.7	0.87	6.7		03/19/12 21:48	75-01-4	
m&p-Xylene	135	ug/m3	11.8	5.9	6.7		03/19/12 21:48	179601-23-1	
o-Xylene	45.7	ug/m3	5.9	0.86	6.7		03/19/12 21:48	95-47-6	

ANALYTICAL RESULTS

Project: 11176390.00002 Klink Cosmo

Pace Project No.: 10184652

Sample: SG-060

Lab ID: 10184652005

Collected: 03/05/12 11:04

Received: 03/06/12 10:08

Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	44.4	ug/m3	37.4	18.4	115.2		03/15/12 23:10	71-43-2	
Benzyl chloride	ND	ug/m3	121	60.5	115.2		03/15/12 23:10	100-44-7	
Bromodichloromethane	ND	ug/m3	157	20.4	115.2		03/15/12 23:10	75-27-4	
Bromoform	ND	ug/m3	242	121	115.2		03/15/12 23:10	75-25-2	
Bromomethane	ND	ug/m3	91.0	20.9	115.2		03/15/12 23:10	74-83-9	
1,3-Butadiene	ND	ug/m3	51.8	25.9	115.2		03/15/12 23:10	106-99-0	
2-Butanone (MEK)	ND	ug/m3	69.1	18.0	115.2		03/15/12 23:10	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	106	6.1	115.2		03/15/12 23:10	75-65-0	
Carbon tetrachloride	ND	ug/m3	73.7	36.9	115.2		03/15/12 23:10	56-23-5	
Chlorobenzene	ND	ug/m3	108	54.1	115.2		03/15/12 23:10	108-90-7	
Chloroethane	ND	ug/m3	62.2	31.1	115.2		03/15/12 23:10	75-00-3	
Chloroform	132	ug/m3	114	57.3	115.2		03/15/12 23:10	67-66-3	
Chloromethane	ND	ug/m3	48.4	24.2	115.2		03/15/12 23:10	74-87-3	
Cyclohexane	ND	ug/m3	78.3	41.5	115.2		03/15/12 23:10	110-82-7	
Dibromochloromethane	ND	ug/m3	199	99.8	115.2		03/15/12 23:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	180	89.9	115.2		03/15/12 23:10	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	141	70.3	115.2		03/15/12 23:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	141	70.3	115.2		03/15/12 23:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	141	70.3	115.2		03/15/12 23:10	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	116	58.2	115.2		03/15/12 23:10	75-71-8	
1,1-Dichloroethane	ND	ug/m3	94.5	47.2	115.2		03/15/12 23:10	75-34-3	
1,2-Dichloroethane	ND	ug/m3	47.2	24.2	115.2		03/15/12 23:10	107-06-2	
1,1-Dichloroethene	ND	ug/m3	93.3	46.4	115.2		03/15/12 23:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	93.3	17.6	115.2		03/15/12 23:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	93.3	46.7	115.2		03/15/12 23:10	156-60-5	
1,2-Dichloropropane	ND	ug/m3	108	54.1	115.2		03/15/12 23:10	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	106	12.8	115.2		03/15/12 23:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	106	53.0	115.2		03/15/12 23:10	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	164	24.5	115.2		03/15/12 23:10	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	42.2	21.3	115.2		03/15/12 23:10	123-91-1	
Ethanol	401	ug/m3	43.8	22.1	115.2		03/15/12 23:10	64-17-5	SS
Ethylbenzene	55.0J	ug/m3	101	13.7	115.2		03/15/12 23:10	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	253	127	115.2		03/15/12 23:10	87-68-3	
n-Hexane	80.2J	ug/m3	82.9	41.5	115.2		03/15/12 23:10	110-54-3	
Methylene Chloride	ND	ug/m3	81.8	40.7	115.2		03/15/12 23:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	95.6	47.8	115.2		03/15/12 23:10	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	84.1	10.1	115.2		03/15/12 23:10	1634-04-4	
Styrene	ND	ug/m3	100	49.9	115.2		03/15/12 23:10	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	80.4	21.7	115.2		03/15/12 23:10	79-34-5	
Tetrachloroethene	17900	ug/m3	79.4	39.2	115.2		03/15/12 23:10	127-18-4	
Toluene	778	ug/m3	88.7	44.4	115.2		03/15/12 23:10	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	114	57.0	115.2		03/15/12 23:10	120-82-1	
1,1,1-Trichloroethane	118J	ug/m3	128	63.4	115.2		03/15/12 23:10	71-55-6	
Trichloroethene	782	ug/m3	63.4	32.3	115.2		03/15/12 23:10	79-01-6	
Trichlorofluoromethane	ND	ug/m3	131	25.6	115.2		03/15/12 23:10	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	184	92.2	115.2		03/15/12 23:10	76-13-1	

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ANALYTICAL RESULTS

Project: 11176390.00002 Klink Cosmo
Pace Project No.: 10184652

Sample: SG-060		Lab ID: 10184652005		Collected: 03/05/12 11:04		Received: 03/06/12 10:08		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
1,2,4-Trimethylbenzene	ND	ug/m3	115	57.6	115.2		03/15/12 23:10	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	115	15.0	115.2		03/15/12 23:10	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	109	11.5	115.2		03/15/12 23:10	540-84-1	
Vinyl chloride	ND	ug/m3	30.0	15.0	115.2		03/15/12 23:10	75-01-4	
m&p-Xylene	258	ug/m3	203	101	115.2		03/15/12 23:10	179601-23-1	
o-Xylene	64.1J	ug/m3	101	14.7	115.2		03/15/12 23:10	95-47-6	

ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo
Pace Project No.: 10184975

Sample: SG-061R Lab ID: 10184975015 Collected: 03/07/12 12:31 Received: 03/08/12 10:05 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	7.4	ug/m3	2.3	1.1	6.95		03/19/12 20:49	71-43-2	
Benzyl chloride	ND	ug/m3	7.3	3.6	6.95		03/19/12 20:49	100-44-7	
Bromodichloromethane	ND	ug/m3	9.5	1.2	6.95		03/19/12 20:49	75-27-4	
Bromoform	ND	ug/m3	14.6	7.3	6.95		03/19/12 20:49	75-25-2	
Bromomethane	ND	ug/m3	5.5	1.3	6.95		03/19/12 20:49	74-83-9	
1,3-Butadiene	ND	ug/m3	3.1	1.6	6.95		03/19/12 20:49	106-99-0	
2-Butanone (MEK)	ND	ug/m3	4.2	1.1	6.95		03/19/12 20:49	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	6.4	0.37	6.95		03/19/12 20:49	75-65-0	
Carbon tetrachloride	ND	ug/m3	4.4	2.2	6.95		03/19/12 20:49	56-23-5	
Chlorobenzene	ND	ug/m3	6.5	3.3	6.95		03/19/12 20:49	108-90-7	
Chloroethane	ND	ug/m3	3.8	1.9	6.95		03/19/12 20:49	75-00-3	
Chloroform	ND	ug/m3	6.9	3.5	6.95		03/19/12 20:49	67-66-3	
Chloromethane	ND	ug/m3	2.9	1.5	6.95		03/19/12 20:49	74-87-3	
Cyclohexane	ND	ug/m3	4.7	2.5	6.95		03/19/12 20:49	110-82-7	
Dibromochloromethane	ND	ug/m3	12.0	6.0	6.95		03/19/12 20:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	10.8	5.4	6.95		03/19/12 20:49	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	8.5	4.2	6.95		03/19/12 20:49	95-50-1	
1,3-Dichlorobenzene	6.3J	ug/m3	8.5	4.2	6.95		03/19/12 20:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	8.5	4.2	6.95		03/19/12 20:49	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	7.0	3.5	6.95		03/19/12 20:49	75-71-8	
1,1-Dichloroethane	ND	ug/m3	5.7	2.8	6.95		03/19/12 20:49	75-34-3	
1,2-Dichloroethane	ND	ug/m3	2.8	1.5	6.95		03/19/12 20:49	107-06-2	
1,1-Dichloroethene	ND	ug/m3	5.6	2.8	6.95		03/19/12 20:49	75-35-4	
cis-1,2-Dichloroethene	4.8J	ug/m3	5.6	1.1	6.95		03/19/12 20:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	5.6	2.8	6.95		03/19/12 20:49	156-60-5	
1,2-Dichloropropane	ND	ug/m3	6.5	3.3	6.95		03/19/12 20:49	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	6.4	0.77	6.95		03/19/12 20:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	6.4	3.2	6.95		03/19/12 20:49	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	9.9	1.5	6.95		03/19/12 20:49	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	2.5	1.3	6.95		03/19/12 20:49	123-91-1	
Ethanol	249	ug/m3	2.6	1.3	6.95		03/19/12 20:49	64-17-5	SS
Ethylbenzene	18.6	ug/m3	6.1	0.83	6.95		03/19/12 20:49	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	15.3	7.6	6.95		03/19/12 20:49	87-68-3	
n-Hexane	88.9	ug/m3	5.0	2.5	6.95		03/19/12 20:49	110-54-3	
Methylene Chloride	ND	ug/m3	4.9	2.5	6.95		03/19/12 20:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	5.8	2.9	6.95		03/19/12 20:49	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.1	0.61	6.95		03/19/12 20:49	1634-04-4	
Styrene	ND	ug/m3	6.0	3.0	6.95		03/19/12 20:49	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	4.9	1.3	6.95		03/19/12 20:49	79-34-5	
Tetrachloroethene	256	ug/m3	4.8	2.4	6.95		03/19/12 20:49	127-18-4	
Toluene	70.0	ug/m3	5.4	2.7	6.95		03/19/12 20:49	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	6.9	3.4	6.95		03/19/12 20:49	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	7.7	3.8	6.95		03/19/12 20:49	71-55-6	
Trichloroethene	16.5	ug/m3	3.8	1.9	6.95		03/19/12 20:49	79-01-6	
Trichlorofluoromethane	ND	ug/m3	7.9	1.5	6.95		03/19/12 20:49	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	11.1	5.6	6.95		03/19/12 20:49	76-13-1	

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ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo

Pace Project No.: 10184975

Sample: SG-061R		Lab ID: 10184975015		Collected: 03/07/12 12:31		Received: 03/08/12 10:05		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
1,2,4-Trimethylbenzene	10.3	ug/m3	6.9	3.5	6.95		03/19/12 20:49	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	6.9	0.90	6.95		03/19/12 20:49	108-67-8	
2,2,4-Trimethylpentane	12.1	ug/m3	6.6	0.70	6.95		03/19/12 20:49	540-84-1	
Vinyl chloride	ND	ug/m3	1.8	0.90	6.95		03/19/12 20:49	75-01-4	
m&p-Xylene	59.0	ug/m3	12.2	6.1	6.95		03/19/12 20:49	179601-23-1	
o-Xylene	17.9	ug/m3	6.1	0.89	6.95		03/19/12 20:49	95-47-6	

ANALYTICAL RESULTS

Project: 11176390.00002 Klink Cosmo

Pace Project No.: 10184652

Sample: SG-062 Lab ID: 10184652008 Collected: 03/05/12 12:01 Received: 03/06/12 10:08 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	28.2	ug/m3	0.47	0.23	1.44		03/14/12 22:18	71-43-2	
Benzyl chloride	ND	ug/m3	1.5	0.76	1.44		03/14/12 22:18	100-44-7	
Bromodichloromethane	ND	ug/m3	2.0	0.25	1.44		03/14/12 22:18	75-27-4	
Bromoform	ND	ug/m3	3.0	1.5	1.44		03/14/12 22:18	75-25-2	
Bromomethane	ND	ug/m3	1.1	0.26	1.44		03/14/12 22:18	74-83-9	
1,3-Butadiene	ND	ug/m3	0.65	0.32	1.44		03/14/12 22:18	106-99-0	
2-Butanone (MEK)	14.6	ug/m3	0.86	0.22	1.44		03/14/12 22:18	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	1.3	0.076	1.44		03/14/12 22:18	75-65-0	
Carbon tetrachloride	ND	ug/m3	0.92	0.46	1.44		03/14/12 22:18	56-23-5	
Chlorobenzene	ND	ug/m3	1.4	0.68	1.44		03/14/12 22:18	108-90-7	
Chloroethane	ND	ug/m3	0.78	0.39	1.44		03/14/12 22:18	75-00-3	
Chloroform	0.83J	ug/m3	1.4	0.72	1.44		03/14/12 22:18	67-66-3	
Chloromethane	ND	ug/m3	0.60	0.30	1.44		03/14/12 22:18	74-87-3	
Cyclohexane	20.7	ug/m3	0.98	0.52	1.44		03/14/12 22:18	110-82-7	
Dibromochloromethane	ND	ug/m3	2.5	1.2	1.44		03/14/12 22:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.2	1.1	1.44		03/14/12 22:18	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.8	0.88	1.44		03/14/12 22:18	95-50-1	
1,3-Dichlorobenzene	0.97J	ug/m3	1.8	0.88	1.44		03/14/12 22:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.8	0.88	1.44		03/14/12 22:18	106-46-7	
Dichlorodifluoromethane	2.9	ug/m3	1.5	0.73	1.44		03/14/12 22:18	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.2	0.59	1.44		03/14/12 22:18	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.59	0.30	1.44		03/14/12 22:18	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	0.58	1.44		03/14/12 22:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	0.22	1.44		03/14/12 22:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	0.58	1.44		03/14/12 22:18	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.4	0.68	1.44		03/14/12 22:18	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.3	0.16	1.44		03/14/12 22:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.3	0.66	1.44		03/14/12 22:18	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.0	0.31	1.44		03/14/12 22:18	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	0.53	0.27	1.44		03/14/12 22:18	123-91-1	
Ethanol	266	ug/m3	0.55	0.28	1.44		03/14/12 22:18	64-17-5	E,SS
Ethylbenzene	54.3	ug/m3	1.3	0.17	1.44		03/14/12 22:18	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	3.2	1.6	1.44		03/14/12 22:18	87-68-3	
n-Hexane	47.2	ug/m3	1.0	0.52	1.44		03/14/12 22:18	110-54-3	
Methylene Chloride	7.1	ug/m3	1.0	0.51	1.44		03/14/12 22:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	1.6	ug/m3	1.2	0.60	1.44		03/14/12 22:18	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.1	0.13	1.44		03/14/12 22:18	1634-04-4	
Styrene	1.3	ug/m3	1.3	0.62	1.44		03/14/12 22:18	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.0	0.27	1.44		03/14/12 22:18	79-34-5	
Tetrachloroethene	34.9	ug/m3	0.99	0.49	1.44		03/14/12 22:18	127-18-4	
Toluene	323	ug/m3	2.2	1.1	2.88		03/16/12 17:14	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1.4	0.71	1.44		03/14/12 22:18	120-82-1	
1,1,1-Trichloroethane	5.5	ug/m3	1.6	0.79	1.44		03/14/12 22:18	71-55-6	
Trichloroethene	1.3	ug/m3	0.79	0.40	1.44		03/14/12 22:18	79-01-6	
Trichlorofluoromethane	11.5	ug/m3	1.6	0.32	1.44		03/14/12 22:18	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.3	1.2	1.44		03/14/12 22:18	76-13-1	

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ANALYTICAL RESULTS

Project: 11176390.00002 Klink Cosmo

Pace Project No.: 10184652

Sample: SG-062

Lab ID: 10184652008

Collected: 03/05/12 12:01

Received: 03/06/12 10:08

Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
1,2,4-Trimethylbenzene	31.8	ug/m3	1.4	0.72	1.44		03/14/12 22:18	95-63-6	
1,3,5-Trimethylbenzene	6.0	ug/m3	1.4	0.19	1.44		03/14/12 22:18	108-67-8	
2,2,4-Trimethylpentane	14.6	ug/m3	1.4	0.14	1.44		03/14/12 22:18	540-84-1	
Vinyl chloride	ND	ug/m3	0.37	0.19	1.44		03/14/12 22:18	75-01-4	
m&p-Xylene	166	ug/m3	2.5	1.3	1.44		03/14/12 22:18	179601-23-1	
o-Xylene	61.9	ug/m3	1.3	0.18	1.44		03/14/12 22:18	95-47-6	

ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo
Pace Project No.: 10184975

Sample: SG-063 Lab ID: 10184975017 Collected: 03/07/12 13:27 Received: 03/08/12 10:05 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	1.4	ug/m3	0.47	0.23	1.44		03/16/12 20:07	71-43-2	
Benzyl chloride	ND	ug/m3	1.5	0.76	1.44		03/16/12 20:07	100-44-7	
Bromodichloromethane	ND	ug/m3	2.0	0.25	1.44		03/16/12 20:07	75-27-4	
Bromoform	ND	ug/m3	3.0	1.5	1.44		03/16/12 20:07	75-25-2	
Bromomethane	0.90J	ug/m3	1.1	0.26	1.44		03/16/12 20:07	74-83-9	
1,3-Butadiene	ND	ug/m3	0.65	0.32	1.44		03/16/12 20:07	106-99-0	
2-Butanone (MEK)	ND	ug/m3	0.86	0.22	1.44		03/16/12 20:07	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	1.3	0.076	1.44		03/16/12 20:07	75-65-0	
Carbon tetrachloride	ND	ug/m3	0.92	0.46	1.44		03/16/12 20:07	56-23-5	
Chlorobenzene	ND	ug/m3	1.4	0.68	1.44		03/16/12 20:07	108-90-7	
Chloroethane	ND	ug/m3	0.78	0.39	1.44		03/16/12 20:07	75-00-3	
Chloroform	ND	ug/m3	1.4	0.72	1.44		03/16/12 20:07	67-66-3	
Chloromethane	ND	ug/m3	0.60	0.30	1.44		03/16/12 20:07	74-87-3	
Cyclohexane	ND	ug/m3	0.98	0.52	1.44		03/16/12 20:07	110-82-7	
Dibromochloromethane	ND	ug/m3	2.5	1.2	1.44		03/16/12 20:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.2	1.1	1.44		03/16/12 20:07	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.8	0.88	1.44		03/16/12 20:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.8	0.88	1.44		03/16/12 20:07	541-73-1	
1,4-Dichlorobenzene	1.9	ug/m3	1.8	0.88	1.44		03/16/12 20:07	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.5	0.73	1.44		03/16/12 20:07	75-71-8	
1,1-Dichloroethane	7.8	ug/m3	1.2	0.59	1.44		03/16/12 20:07	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.59	0.30	1.44		03/16/12 20:07	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	0.58	1.44		03/16/12 20:07	75-35-4	
cis-1,2-Dichloroethene	1.2	ug/m3	1.2	0.22	1.44		03/16/12 20:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	0.58	1.44		03/16/12 20:07	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.4	0.68	1.44		03/16/12 20:07	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.3	0.16	1.44		03/16/12 20:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.3	0.66	1.44		03/16/12 20:07	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.0	0.31	1.44		03/16/12 20:07	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	0.53	0.27	1.44		03/16/12 20:07	123-91-1	
Ethanol	49.9	ug/m3	0.55	0.28	1.44		03/16/12 20:07	64-17-5	SS
Ethylbenzene	12.2	ug/m3	1.3	0.17	1.44		03/16/12 20:07	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	3.2	1.6	1.44		03/16/12 20:07	87-68-3	
n-Hexane	ND	ug/m3	1.0	0.52	1.44		03/16/12 20:07	110-54-3	
Methylene Chloride	ND	ug/m3	1.0	0.51	1.44		03/16/12 20:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.2	0.60	1.44		03/16/12 20:07	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.1	0.13	1.44		03/16/12 20:07	1634-04-4	
Styrene	2.1	ug/m3	1.3	0.62	1.44		03/16/12 20:07	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.0	0.27	1.44		03/16/12 20:07	79-34-5	
Tetrachloroethene	150	ug/m3	0.99	0.49	1.44		03/16/12 20:07	127-18-4	
Toluene	16.3	ug/m3	1.1	0.55	1.44		03/16/12 20:07	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1.4	0.71	1.44		03/16/12 20:07	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.6	0.79	1.44		03/16/12 20:07	71-55-6	
Trichloroethene	6.4	ug/m3	0.79	0.40	1.44		03/16/12 20:07	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.6	0.32	1.44		03/16/12 20:07	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.3	1.2	1.44		03/16/12 20:07	76-13-1	

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ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo
Pace Project No.: 10184975

Sample: SG-063		Lab ID: 10184975017		Collected: 03/07/12 13:27		Received: 03/08/12 10:05		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
1,2,4-Trimethylbenzene	8.7	ug/m3	1.4	0.72	1.44		03/16/12 20:07	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.4	0.19	1.44		03/16/12 20:07	108-67-8	
2,2,4-Trimethylpentane	20.0	ug/m3	1.4	0.14	1.44		03/16/12 20:07	540-84-1	
Vinyl chloride	2.0	ug/m3	0.37	0.19	1.44		03/16/12 20:07	75-01-4	
m&p-Xylene	37.7	ug/m3	2.5	1.3	1.44		03/16/12 20:07	179601-23-1	
o-Xylene	14.1	ug/m3	1.3	0.18	1.44		03/16/12 20:07	95-47-6	

ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo
Pace Project No.: 10184830

Sample: SG-079 Lab ID: 10184830002 Collected: 03/06/12 08:58 Received: 03/07/12 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	ND	ug/m3	0.48	0.24	1.49		03/19/12 20:23	71-43-2	
Benzyl chloride	ND	ug/m3	1.6	0.78	1.49		03/19/12 20:23	100-44-7	
Bromodichloromethane	ND	ug/m3	2.0	0.26	1.49		03/19/12 20:23	75-27-4	
Bromoform	ND	ug/m3	3.1	1.6	1.49		03/19/12 20:23	75-25-2	
Bromomethane	ND	ug/m3	1.2	0.27	1.49		03/19/12 20:23	74-83-9	
1,3-Butadiene	ND	ug/m3	0.67	0.34	1.49		03/19/12 20:23	106-99-0	
2-Butanone (MEK)	3.6	ug/m3	0.89	0.23	1.49		03/19/12 20:23	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	1.4	0.079	1.49		03/19/12 20:23	75-65-0	
Carbon tetrachloride	0.64J	ug/m3	0.95	0.48	1.49		03/19/12 20:23	56-23-5	
Chlorobenzene	ND	ug/m3	1.4	0.70	1.49		03/19/12 20:23	108-90-7	
Chloroethane	ND	ug/m3	0.80	0.40	1.49		03/19/12 20:23	75-00-3	
Chloroform	ND	ug/m3	1.5	0.74	1.49		03/19/12 20:23	67-66-3	
Chloromethane	ND	ug/m3	0.63	0.31	1.49		03/19/12 20:23	74-87-3	
Cyclohexane	ND	ug/m3	1.0	0.54	1.49		03/19/12 20:23	110-82-7	
Dibromochloromethane	ND	ug/m3	2.6	1.3	1.49		03/19/12 20:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.3	1.2	1.49		03/19/12 20:23	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.8	0.91	1.49		03/19/12 20:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.8	0.91	1.49		03/19/12 20:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.8	0.91	1.49		03/19/12 20:23	106-46-7	
Dichlorodifluoromethane	4.1	ug/m3	1.5	0.75	1.49		03/19/12 20:23	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.2	0.61	1.49		03/19/12 20:23	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.61	0.31	1.49		03/19/12 20:23	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	0.60	1.49		03/19/12 20:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	0.23	1.49		03/19/12 20:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	0.60	1.49		03/19/12 20:23	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.4	0.70	1.49		03/19/12 20:23	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.4	0.17	1.49		03/19/12 20:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.4	0.69	1.49		03/19/12 20:23	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.1	0.32	1.49		03/19/12 20:23	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	0.55	0.28	1.49		03/19/12 20:23	123-91-1	
Ethanol	59.3	ug/m3	0.57	0.29	1.49		03/19/12 20:23	64-17-5	SS
Ethylbenzene	9.0	ug/m3	1.3	0.18	1.49		03/19/12 20:23	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	3.3	1.6	1.49		03/19/12 20:23	87-68-3	
n-Hexane	ND	ug/m3	1.1	0.54	1.49		03/19/12 20:23	110-54-3	
Methylene Chloride	ND	ug/m3	1.1	0.53	1.49		03/19/12 20:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.2	0.62	1.49		03/19/12 20:23	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.1	0.13	1.49		03/19/12 20:23	1634-04-4	
Styrene	ND	ug/m3	1.3	0.65	1.49		03/19/12 20:23	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.0	0.28	1.49		03/19/12 20:23	79-34-5	
Tetrachloroethene	1180	ug/m3	20.5	10.1	29.8		03/17/12 07:42	127-18-4	
Toluene	66.9	ug/m3	1.1	0.57	1.49		03/19/12 20:23	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1.5	0.74	1.49		03/19/12 20:23	120-82-1	
1,1,1-Trichloroethane	12.9	ug/m3	1.7	0.82	1.49		03/19/12 20:23	71-55-6	
Trichloroethene	3.5	ug/m3	0.82	0.42	1.49		03/19/12 20:23	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.7	0.33	1.49		03/19/12 20:23	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.4	1.2	1.49		03/19/12 20:23	76-13-1	

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ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo

Pace Project No.: 10184830

Sample: SG-079 Lab ID: 10184830002 Collected: 03/06/12 08:58 Received: 03/07/12 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
1,2,4-Trimethylbenzene	2.8	ug/m3	1.5	0.74	1.49		03/19/12 20:23	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.5	0.19	1.49		03/19/12 20:23	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	1.4	0.15	1.49		03/19/12 20:23	540-84-1	
Vinyl chloride	ND	ug/m3	0.39	0.19	1.49		03/19/12 20:23	75-01-4	
m&p-Xylene	26.1	ug/m3	2.6	1.3	1.49		03/19/12 20:23	179601-23-1	
o-Xylene	8.5	ug/m3	1.3	0.19	1.49		03/19/12 20:23	95-47-6	

ANALYTICAL RESULTS

Project: 11176390.00002 Klink Cosmo
Pace Project No.: 10184652

Sample: SG-080 Lab ID: 10184652014 Collected: 03/05/12 15:09 Received: 03/06/12 10:08 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	19.2	ug/m3	2.0	1.0	6.3		03/16/12 01:05	71-43-2	
Benzyl chloride	ND	ug/m3	6.6	3.3	6.3		03/16/12 01:05	100-44-7	
Bromodichloromethane	ND	ug/m3	8.6	1.1	6.3		03/16/12 01:05	75-27-4	
Bromoform	ND	ug/m3	13.2	6.6	6.3		03/16/12 01:05	75-25-2	
Bromomethane	ND	ug/m3	5.0	1.1	6.3		03/16/12 01:05	74-83-9	
1,3-Butadiene	ND	ug/m3	2.8	1.4	6.3		03/16/12 01:05	106-99-0	
2-Butanone (MEK)	11.3	ug/m3	3.8	0.98	6.3		03/16/12 01:05	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	5.8	0.33	6.3		03/16/12 01:05	75-65-0	
Carbon tetrachloride	ND	ug/m3	4.0	2.0	6.3		03/16/12 01:05	56-23-5	
Chlorobenzene	ND	ug/m3	5.9	3.0	6.3		03/16/12 01:05	108-90-7	
Chloroethane	ND	ug/m3	3.4	1.7	6.3		03/16/12 01:05	75-00-3	
Chloroform	3.6J	ug/m3	6.2	3.1	6.3		03/16/12 01:05	67-66-3	
Chloromethane	ND	ug/m3	2.6	1.3	6.3		03/16/12 01:05	74-87-3	
Cyclohexane	17.3	ug/m3	4.3	2.3	6.3		03/16/12 01:05	110-82-7	
Dibromochloromethane	ND	ug/m3	10.9	5.5	6.3		03/16/12 01:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	9.8	4.9	6.3		03/16/12 01:05	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	7.7	3.8	6.3		03/16/12 01:05	95-50-1	
1,3-Dichlorobenzene	16.2	ug/m3	7.7	3.8	6.3		03/16/12 01:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	7.7	3.8	6.3		03/16/12 01:05	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	6.4	3.2	6.3		03/16/12 01:05	75-71-8	
1,1-Dichloroethane	ND	ug/m3	5.2	2.6	6.3		03/16/12 01:05	75-34-3	
1,2-Dichloroethane	ND	ug/m3	2.6	1.3	6.3		03/16/12 01:05	107-06-2	
1,1-Dichloroethene	ND	ug/m3	5.1	2.5	6.3		03/16/12 01:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	5.1	0.96	6.3		03/16/12 01:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	5.1	2.6	6.3		03/16/12 01:05	156-60-5	
1,2-Dichloropropane	ND	ug/m3	5.9	3.0	6.3		03/16/12 01:05	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	5.8	0.70	6.3		03/16/12 01:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	5.8	2.9	6.3		03/16/12 01:05	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	8.9	1.3	6.3		03/16/12 01:05	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	2.3	1.2	6.3		03/16/12 01:05	123-91-1	
Ethanol	540	ug/m3	2.4	1.2	6.3		03/16/12 01:05	64-17-5	E,SS
Ethylbenzene	34.3	ug/m3	5.5	0.75	6.3		03/16/12 01:05	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	13.9	6.9	6.3		03/16/12 01:05	87-68-3	
n-Hexane	34.5	ug/m3	4.5	2.3	6.3		03/16/12 01:05	110-54-3	
Methylene Chloride	ND	ug/m3	4.5	2.2	6.3		03/16/12 01:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	5.2	2.6	6.3		03/16/12 01:05	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	4.6	0.55	6.3		03/16/12 01:05	1634-04-4	
Styrene	ND	ug/m3	5.5	2.7	6.3		03/16/12 01:05	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	4.4	1.2	6.3		03/16/12 01:05	79-34-5	
Tetrachloroethene	260	ug/m3	4.3	2.1	6.3		03/16/12 01:05	127-18-4	
Toluene	192	ug/m3	4.9	2.4	6.3		03/16/12 01:05	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	6.2	3.1	6.3		03/16/12 01:05	120-82-1	
1,1,1-Trichloroethane	11.7	ug/m3	7.0	3.5	6.3		03/16/12 01:05	71-55-6	
Trichloroethene	16.8	ug/m3	3.5	1.8	6.3		03/16/12 01:05	79-01-6	
Trichlorofluoromethane	ND	ug/m3	7.2	1.4	6.3		03/16/12 01:05	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	10.1	5.0	6.3		03/16/12 01:05	76-13-1	

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ANALYTICAL RESULTS

Project: 11176390.00002 Klink Cosmo

Pace Project No.: 10184652

Sample: SG-080		Lab ID: 10184652014		Collected: 03/05/12 15:09		Received: 03/06/12 10:08		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
1,2,4-Trimethylbenzene	19.9	ug/m3	6.3	3.2	6.3		03/16/12 01:05	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	6.3	0.82	6.3		03/16/12 01:05	108-67-8	
2,2,4-Trimethylpentane	22.4	ug/m3	6.0	0.63	6.3		03/16/12 01:05	540-84-1	
Vinyl chloride	ND	ug/m3	1.6	0.82	6.3		03/16/12 01:05	75-01-4	
m&p-Xylene	128	ug/m3	11.1	5.5	6.3		03/16/12 01:05	179601-23-1	
o-Xylene	43.0	ug/m3	5.5	0.81	6.3		03/16/12 01:05	95-47-6	

ANALYTICAL RESULTS

Project: 11176390.00002 Klink Cosmo
Pace Project No.: 10184652

Sample: SG-081 Lab ID: 10184652013 Collected: 03/05/12 14:54 Received: 03/06/12 10:08 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	8.7J	ug/m3	9.0	4.4	27.8		03/14/12 23:16	71-43-2	
Benzyl chloride	ND	ug/m3	29.2	14.6	27.8		03/14/12 23:16	100-44-7	
Bromodichloromethane	ND	ug/m3	37.8	4.9	27.8		03/14/12 23:16	75-27-4	
Bromoform	ND	ug/m3	58.4	29.2	27.8		03/14/12 23:16	75-25-2	
Bromomethane	ND	ug/m3	22.0	5.0	27.8		03/14/12 23:16	74-83-9	
1,3-Butadiene	ND	ug/m3	12.5	6.3	27.8		03/14/12 23:16	106-99-0	
2-Butanone (MEK)	9.2J	ug/m3	16.7	4.3	27.8		03/14/12 23:16	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	25.7	1.5	27.8		03/14/12 23:16	75-65-0	
Carbon tetrachloride	ND	ug/m3	17.8	8.9	27.8		03/14/12 23:16	56-23-5	
Chlorobenzene	ND	ug/m3	26.1	13.1	27.8		03/14/12 23:16	108-90-7	
Chloroethane	ND	ug/m3	15.0	7.5	27.8		03/14/12 23:16	75-00-3	
Chloroform	ND	ug/m3	27.5	13.8	27.8		03/14/12 23:16	67-66-3	
Chloromethane	ND	ug/m3	11.7	5.8	27.8		03/14/12 23:16	74-87-3	
Cyclohexane	23.2	ug/m3	18.9	10.0	27.8		03/14/12 23:16	110-82-7	
Dibromochloromethane	ND	ug/m3	48.1	24.1	27.8		03/14/12 23:16	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	43.4	21.7	27.8		03/14/12 23:16	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	33.9	17.0	27.8		03/14/12 23:16	95-50-1	
1,3-Dichlorobenzene	22.6J	ug/m3	33.9	17.0	27.8		03/14/12 23:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	33.9	17.0	27.8		03/14/12 23:16	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	28.1	14.0	27.8		03/14/12 23:16	75-71-8	
1,1-Dichloroethane	ND	ug/m3	22.8	11.4	27.8		03/14/12 23:16	75-34-3	
1,2-Dichloroethane	15.8	ug/m3	11.4	5.8	27.8		03/14/12 23:16	107-06-2	
1,1-Dichloroethene	ND	ug/m3	22.5	11.2	27.8		03/14/12 23:16	75-35-4	
cis-1,2-Dichloroethene	6.7J	ug/m3	22.5	4.3	27.8		03/14/12 23:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	22.5	11.3	27.8		03/14/12 23:16	156-60-5	
1,2-Dichloropropane	ND	ug/m3	26.1	13.1	27.8		03/14/12 23:16	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	25.6	3.1	27.8		03/14/12 23:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	25.6	12.8	27.8		03/14/12 23:16	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	39.5	5.9	27.8		03/14/12 23:16	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	10.2	5.1	27.8		03/14/12 23:16	123-91-1	
Ethanol	362	ug/m3	10.6	5.3	27.8		03/14/12 23:16	64-17-5	SS
Ethylbenzene	26.3	ug/m3	24.5	3.3	27.8		03/14/12 23:16	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	61.2	30.6	27.8		03/14/12 23:16	87-68-3	
n-Hexane	29.9	ug/m3	20.0	10.0	27.8		03/14/12 23:16	110-54-3	
Methylene Chloride	ND	ug/m3	19.7	9.8	27.8		03/14/12 23:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	23.1	11.5	27.8		03/14/12 23:16	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	20.3	2.4	27.8		03/14/12 23:16	1634-04-4	
Styrene	ND	ug/m3	24.2	12.0	27.8		03/14/12 23:16	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	19.4	5.2	27.8		03/14/12 23:16	79-34-5	
Tetrachloroethene	4980	ug/m3	19.2	9.5	27.8		03/14/12 23:16	127-18-4	
Toluene	116	ug/m3	21.4	10.7	27.8		03/14/12 23:16	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	27.5	13.8	27.8		03/14/12 23:16	120-82-1	
1,1,1-Trichloroethane	35.5	ug/m3	30.9	15.3	27.8		03/14/12 23:16	71-55-6	
Trichloroethene	380	ug/m3	15.3	7.8	27.8		03/14/12 23:16	79-01-6	
Trichlorofluoromethane	ND	ug/m3	31.7	6.2	27.8		03/14/12 23:16	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	44.5	22.2	27.8		03/14/12 23:16	76-13-1	

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ANALYTICAL RESULTS

Project: 11176390.00002 Klink Cosmo

Pace Project No.: 10184652

Sample: SG-081 Lab ID: 10184652013 Collected: 03/05/12 14:54 Received: 03/06/12 10:08 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
1,2,4-Trimethylbenzene	22.3J	ug/m3	27.8	13.9	27.8		03/14/12 23:16	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	27.8	3.6	27.8		03/14/12 23:16	108-67-8	
2,2,4-Trimethylpentane	22.2J	ug/m3	26.4	2.8	27.8		03/14/12 23:16	540-84-1	
Vinyl chloride	ND	ug/m3	7.2	3.6	27.8		03/14/12 23:16	75-01-4	
m&p-Xylene	113	ug/m3	48.9	24.5	27.8		03/14/12 23:16	179601-23-1	
o-Xylene	35.7	ug/m3	24.5	3.6	27.8		03/14/12 23:16	95-47-6	

ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo
Pace Project No.: 10184830

Sample: SG-082 Lab ID: 10184830007 Collected: 03/05/12 14:18 Received: 03/07/12 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	ND	ug/m3	9.0	4.4	27.8		03/17/12 04:16	71-43-2	
Benzyl chloride	ND	ug/m3	29.2	14.6	27.8		03/17/12 04:16	100-44-7	
Bromodichloromethane	ND	ug/m3	37.8	4.9	27.8		03/17/12 04:16	75-27-4	
Bromoform	ND	ug/m3	58.4	29.2	27.8		03/17/12 04:16	75-25-2	
Bromomethane	ND	ug/m3	22.0	5.0	27.8		03/17/12 04:16	74-83-9	
1,3-Butadiene	ND	ug/m3	12.5	6.3	27.8		03/17/12 04:16	106-99-0	
2-Butanone (MEK)	19.2	ug/m3	16.7	4.3	27.8		03/17/12 04:16	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	25.7	1.5	27.8		03/17/12 04:16	75-65-0	
Carbon tetrachloride	ND	ug/m3	17.8	8.9	27.8		03/17/12 04:16	56-23-5	
Chlorobenzene	ND	ug/m3	26.1	13.1	27.8		03/17/12 04:16	108-90-7	
Chloroethane	ND	ug/m3	15.0	7.5	27.8		03/17/12 04:16	75-00-3	
Chloroform	37.5	ug/m3	27.5	13.8	27.8		03/17/12 04:16	67-66-3	
Chloromethane	ND	ug/m3	11.7	5.8	27.8		03/17/12 04:16	74-87-3	
Cyclohexane	ND	ug/m3	18.9	10.0	27.8		03/17/12 04:16	110-82-7	
Dibromochloromethane	ND	ug/m3	48.1	24.1	27.8		03/17/12 04:16	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	43.4	21.7	27.8		03/17/12 04:16	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	33.9	17.0	27.8		03/17/12 04:16	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	33.9	17.0	27.8		03/17/12 04:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	33.9	17.0	27.8		03/17/12 04:16	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	28.1	14.0	27.8		03/17/12 04:16	75-71-8	
1,1-Dichloroethane	ND	ug/m3	22.8	11.4	27.8		03/17/12 04:16	75-34-3	
1,2-Dichloroethane	ND	ug/m3	11.4	5.8	27.8		03/17/12 04:16	107-06-2	
1,1-Dichloroethene	ND	ug/m3	22.5	11.2	27.8		03/17/12 04:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	22.5	4.3	27.8		03/17/12 04:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	22.5	11.3	27.8		03/17/12 04:16	156-60-5	
1,2-Dichloropropane	ND	ug/m3	26.1	13.1	27.8		03/17/12 04:16	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	25.6	3.1	27.8		03/17/12 04:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	25.6	12.8	27.8		03/17/12 04:16	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	39.5	5.9	27.8		03/17/12 04:16	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	10.2	5.1	27.8		03/17/12 04:16	123-91-1	
Ethanol	ND	ug/m3	10.6	5.3	27.8		03/17/12 04:16	64-17-5	
Ethylbenzene	ND	ug/m3	24.5	3.3	27.8		03/17/12 04:16	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	61.2	30.6	27.8		03/17/12 04:16	87-68-3	
n-Hexane	13.6J	ug/m3	20.0	10.0	27.8		03/17/12 04:16	110-54-3	
Methylene Chloride	12.9J	ug/m3	19.7	9.8	27.8		03/17/12 04:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	23.1	11.5	27.8		03/17/12 04:16	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	20.3	2.4	27.8		03/17/12 04:16	1634-04-4	
Styrene	ND	ug/m3	24.2	12.0	27.8		03/17/12 04:16	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	19.4	5.2	27.8		03/17/12 04:16	79-34-5	
Tetrachloroethene	49300	ug/m3	1230	605	1779.2		03/19/12 20:23	127-18-4	A3
Toluene	18.6J	ug/m3	21.4	10.7	27.8		03/17/12 04:16	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	27.5	13.8	27.8		03/17/12 04:16	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	30.9	15.3	27.8		03/17/12 04:16	71-55-6	
Trichloroethene	92.7	ug/m3	15.3	7.8	27.8		03/17/12 04:16	79-01-6	
Trichlorofluoromethane	ND	ug/m3	31.7	6.2	27.8		03/17/12 04:16	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	44.5	22.2	27.8		03/17/12 04:16	76-13-1	

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ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo

Pace Project No.: 10184830

Sample: SG-082 Lab ID: 10184830007 Collected: 03/05/12 14:18 Received: 03/07/12 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
1,2,4-Trimethylbenzene	ND	ug/m3	27.8	13.9	27.8		03/17/12 04:16	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	27.8	3.6	27.8		03/17/12 04:16	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	26.4	2.8	27.8		03/17/12 04:16	540-84-1	
Vinyl chloride	ND	ug/m3	7.2	3.6	27.8		03/17/12 04:16	75-01-4	
m&p-Xylene	ND	ug/m3	48.9	24.5	27.8		03/17/12 04:16	179601-23-1	
o-Xylene	26.9	ug/m3	24.5	3.6	27.8		03/17/12 04:16	95-47-6	

56-082

ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo

Pace Project No.: 10184830

Sample: FD-03052012-1 Lab ID: 10184830006 Collected: 03/05/12 00:00 Received: 03/07/12 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	ND	ug/m3	9.0	4.4	27.8		03/17/12 09:39	71-43-2	
Benzyl chloride	ND	ug/m3	29.2	14.6	27.8		03/17/12 09:39	100-44-7	
Bromodichloromethane	ND	ug/m3	37.8	4.9	27.8		03/17/12 09:39	75-27-4	
Bromoform	ND	ug/m3	58.4	29.2	27.8		03/17/12 09:39	75-25-2	
Bromomethane	ND	ug/m3	22.0	5.0	27.8		03/17/12 09:39	74-83-9	
1,3-Butadiene	ND	ug/m3	12.5	6.3	27.8		03/17/12 09:39	106-99-0	
2-Butanone (MEK)	ND	ug/m3	16.7	4.3	27.8		03/17/12 09:39	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	25.7	1.5	27.8		03/17/12 09:39	75-65-0	
Carbon tetrachloride	ND	ug/m3	17.8	8.9	27.8		03/17/12 09:39	56-23-5	
Chlorobenzene	ND	ug/m3	26.1	13.1	27.8		03/17/12 09:39	108-90-7	
Chloroethane	ND	ug/m3	15.0	7.5	27.8		03/17/12 09:39	75-00-3	
Chloroform	35.2	ug/m3	27.5	13.8	27.8		03/17/12 09:39	67-66-3	
Chloromethane	ND	ug/m3	11.7	5.8	27.8		03/17/12 09:39	74-87-3	
Cyclohexane	ND	ug/m3	18.9	10.0	27.8		03/17/12 09:39	110-82-7	
Dibromochloromethane	ND	ug/m3	48.1	24.1	27.8		03/17/12 09:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	43.4	21.7	27.8		03/17/12 09:39	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	33.9	17.0	27.8		03/17/12 09:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	33.9	17.0	27.8		03/17/12 09:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	33.9	17.0	27.8		03/17/12 09:39	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	28.1	14.0	27.8		03/17/12 09:39	75-71-8	
1,1-Dichloroethane	ND	ug/m3	22.8	11.4	27.8		03/17/12 09:39	75-34-3	
1,2-Dichloroethane	ND	ug/m3	11.4	5.8	27.8		03/17/12 09:39	107-06-2	
1,1-Dichloroethene	ND	ug/m3	22.5	11.2	27.8		03/17/12 09:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	22.5	4.3	27.8		03/17/12 09:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	22.5	11.3	27.8		03/17/12 09:39	156-60-5	
1,2-Dichloropropane	ND	ug/m3	26.1	13.1	27.8		03/17/12 09:39	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	25.6	3.1	27.8		03/17/12 09:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	25.6	12.8	27.8		03/17/12 09:39	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	39.5	5.9	27.8		03/17/12 09:39	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	10.2	5.1	27.8		03/17/12 09:39	123-91-1	
Ethanol	ND	ug/m3	10.6	5.3	27.8		03/17/12 09:39	64-17-5	
Ethylbenzene	ND	ug/m3	24.5	3.3	27.8		03/17/12 09:39	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	61.2	30.6	27.8		03/17/12 09:39	87-68-3	
n-Hexane	ND	ug/m3	20.0	10.0	27.8		03/17/12 09:39	110-54-3	
Methylene Chloride	14.7J	ug/m3	19.7	9.8	27.8		03/17/12 09:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	23.1	11.5	27.8		03/17/12 09:39	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	20.3	2.4	27.8		03/17/12 09:39	1634-04-4	
Styrene	ND	ug/m3	24.2	12.0	27.8		03/17/12 09:39	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	19.4	5.2	27.8		03/17/12 09:39	79-34-5	
Tetrachloroethene	75300	ug/m3	2450	1210	3558.4		03/19/12 21:20	127-18-4	A3
Toluene	16.0J	ug/m3	21.4	10.7	27.8		03/17/12 09:39	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	27.5	13.8	27.8		03/17/12 09:39	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	30.9	15.3	27.8		03/17/12 09:39	71-55-6	
Trichloroethene	86.4	ug/m3	15.3	7.8	27.8		03/17/12 09:39	79-01-6	
Trichlorofluoromethane	ND	ug/m3	31.7	6.2	27.8		03/17/12 09:39	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	44.5	22.2	27.8		03/17/12 09:39	76-13-1	

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SG-082

ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo
Pace Project No.: 10184830

Sample: FD-03052012-1		Lab ID: 10184830006		Collected: 03/05/12 00:00		Received: 03/07/12 10:00		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
1,2,4-Trimethylbenzene	ND	ug/m3	27.8	13.9	27.8		03/17/12 09:39	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	27.8	3.6	27.8		03/17/12 09:39	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	26.4	2.8	27.8		03/17/12 09:39	540-84-1	
Vinyl chloride	ND	ug/m3	7.2	3.6	27.8		03/17/12 09:39	75-01-4	
m&p-Xylene	26.6J	ug/m3	48.9	24.5	27.8		03/17/12 09:39	179601-23-1	
o-Xylene	ND	ug/m3	24.5	3.6	27.8		03/17/12 09:39	95-47-6	

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ANALYTICAL RESULTS

Project: 11176390.00002 Klink Cosmo

Pace Project No.: 10184652

Sample: SG-083		Lab ID: 10184652011		Collected: 03/05/12 13:06		Received: 03/06/12 10:08		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	ND	ug/m3	9.4	4.6	28.8		03/14/12 23:45	71-43-2	
Benzyl chloride	ND	ug/m3	30.2	15.1	28.8		03/14/12 23:45	100-44-7	
Bromodichloromethane	ND	ug/m3	39.2	5.1	28.8		03/14/12 23:45	75-27-4	
Bromoform	ND	ug/m3	60.5	30.2	28.8		03/14/12 23:45	75-25-2	
Bromomethane	ND	ug/m3	22.8	5.2	28.8		03/14/12 23:45	74-83-9	
1,3-Butadiene	ND	ug/m3	13.0	6.5	28.8		03/14/12 23:45	106-99-0	
2-Butanone (MEK)	ND	ug/m3	17.3	4.5	28.8		03/14/12 23:45	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	26.6	1.5	28.8		03/14/12 23:45	75-65-0	
Carbon tetrachloride	ND	ug/m3	18.4	9.2	28.8		03/14/12 23:45	56-23-5	
Chlorobenzene	ND	ug/m3	27.1	13.5	28.8		03/14/12 23:45	108-90-7	
Chloroethane	ND	ug/m3	15.6	7.8	28.8		03/14/12 23:45	75-00-3	
Chloroform	ND	ug/m3	28.5	14.3	28.8		03/14/12 23:45	67-66-3	
Chloromethane	ND	ug/m3	12.1	6.0	28.8		03/14/12 23:45	74-87-3	
Cyclohexane	ND	ug/m3	19.6	10.4	28.8		03/14/12 23:45	110-82-7	
Dibromochloromethane	ND	ug/m3	49.8	24.9	28.8		03/14/12 23:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	44.9	22.5	28.8		03/14/12 23:45	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	35.1	17.6	28.8		03/14/12 23:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	35.1	17.6	28.8		03/14/12 23:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	35.1	17.6	28.8		03/14/12 23:45	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	29.1	14.5	28.8		03/14/12 23:45	75-71-8	
1,1-Dichloroethane	ND	ug/m3	23.6	11.8	28.8		03/14/12 23:45	75-34-3	
1,2-Dichloroethane	ND	ug/m3	11.8	6.0	28.8		03/14/12 23:45	107-06-2	
1,1-Dichloroethene	ND	ug/m3	23.3	11.6	28.8		03/14/12 23:45	75-35-4	
cis-1,2-Dichloroethene	12.4J	ug/m3	23.3	4.4	28.8		03/14/12 23:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	23.3	11.7	28.8		03/14/12 23:45	156-60-5	
1,2-Dichloropropane	ND	ug/m3	27.1	13.5	28.8		03/14/12 23:45	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	26.5	3.2	28.8		03/14/12 23:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	26.5	13.2	28.8		03/14/12 23:45	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	40.9	6.1	28.8		03/14/12 23:45	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	10.5	5.3	28.8		03/14/12 23:45	123-91-1	
Ethanol	96.6	ug/m3	10.9	5.5	28.8		03/14/12 23:45	64-17-5	SS
Ethylbenzene	ND	ug/m3	25.3	3.4	28.8		03/14/12 23:45	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	63.4	31.7	28.8		03/14/12 23:45	87-68-3	
n-Hexane	11.0J	ug/m3	20.7	10.4	28.8		03/14/12 23:45	110-54-3	
Methylene Chloride	15.8J	ug/m3	20.4	10.2	28.8		03/14/12 23:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	23.9	12.0	28.8		03/14/12 23:45	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	21.0	2.5	28.8		03/14/12 23:45	1634-04-4	
Styrene	ND	ug/m3	25.1	12.5	28.8		03/14/12 23:45	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	20.1	5.4	28.8		03/14/12 23:45	79-34-5	
Tetrachloroethene	280000	ug/m3	2540	1250	3686.4		03/16/12 21:50	127-18-4	A3
Toluene	48.1	ug/m3	22.2	11.1	28.8		03/14/12 23:45	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	28.5	14.3	28.8		03/14/12 23:45	120-82-1	
1,1,1-Trichloroethane	17.6J	ug/m3	32.0	15.8	28.8		03/14/12 23:45	71-55-6	
Trichloroethene	318	ug/m3	15.8	8.1	28.8		03/14/12 23:45	79-01-6	
Trichlorofluoromethane	ND	ug/m3	32.8	6.4	28.8		03/14/12 23:45	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	46.1	23.0	28.8		03/14/12 23:45	76-13-1	

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ANALYTICAL RESULTS

Project: 11176390.00002 Klink Cosmo

Pace Project No.: 10184652

Sample: SG-083		Lab ID: 10184652011		Collected: 03/05/12 13:06		Received: 03/06/12 10:08		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
1,2,4-Trimethylbenzene	ND	ug/m3	28.8	14.4	28.8		03/14/12 23:45	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	28.8	3.7	28.8		03/14/12 23:45	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	27.4	2.9	28.8		03/14/12 23:45	540-84-1	
Vinyl chloride	ND	ug/m3	7.5	3.7	28.8		03/14/12 23:45	75-01-4	
m&p-Xylene	37.1J	ug/m3	50.7	25.3	28.8		03/14/12 23:45	179601-23-1	
o-Xylene	13.2J	ug/m3	25.3	3.7	28.8		03/14/12 23:45	95-47-6	

ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo
Pace Project No.: 10184975

Sample: SG-084 Lab ID: 10184975005 Collected: 03/07/12 08:51 Received: 03/08/12 10:05 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	ND	ug/m3	9.4	4.6	28.8		03/17/12 02:25	71-43-2	
Benzyl chloride	ND	ug/m3	30.2	15.1	28.8		03/17/12 02:25	100-44-7	
Bromodichloromethane	ND	ug/m3	39.2	5.1	28.8		03/17/12 02:25	75-27-4	
Bromoform	ND	ug/m3	60.5	30.2	28.8		03/17/12 02:25	75-25-2	
Bromomethane	ND	ug/m3	22.8	5.2	28.8		03/17/12 02:25	74-83-9	
1,3-Butadiene	ND	ug/m3	13.0	6.5	28.8		03/17/12 02:25	106-99-0	
2-Butanone (MEK)	ND	ug/m3	17.3	4.5	28.8		03/17/12 02:25	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	26.6	1.5	28.8		03/17/12 02:25	75-65-0	
Carbon tetrachloride	ND	ug/m3	18.4	9.2	28.8		03/17/12 02:25	56-23-5	
Chlorobenzene	ND	ug/m3	27.1	13.5	28.8		03/17/12 02:25	108-90-7	
Chloroethane	ND	ug/m3	15.6	7.8	28.8		03/17/12 02:25	75-00-3	
Chloroform	28.3J	ug/m3	28.5	14.3	28.8		03/17/12 02:25	67-66-3	
Chloromethane	ND	ug/m3	12.1	6.0	28.8		03/17/12 02:25	74-87-3	
Cyclohexane	ND	ug/m3	19.6	10.4	28.8		03/17/12 02:25	110-82-7	
Dibromochloromethane	ND	ug/m3	49.8	24.9	28.8		03/17/12 02:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	44.9	22.5	28.8		03/17/12 02:25	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	35.1	17.6	28.8		03/17/12 02:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	35.1	17.6	28.8		03/17/12 02:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	35.1	17.6	28.8		03/17/12 02:25	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	29.1	14.5	28.8		03/17/12 02:25	75-71-8	
1,1-Dichloroethane	ND	ug/m3	23.6	11.8	28.8		03/17/12 02:25	75-34-3	
1,2-Dichloroethane	ND	ug/m3	11.8	6.0	28.8		03/17/12 02:25	107-06-2	
1,1-Dichloroethene	ND	ug/m3	23.3	11.6	28.8		03/17/12 02:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	23.3	4.4	28.8		03/17/12 02:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	23.3	11.7	28.8		03/17/12 02:25	156-60-5	
1,2-Dichloropropane	ND	ug/m3	27.1	13.5	28.8		03/17/12 02:25	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	26.5	3.2	28.8		03/17/12 02:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	26.5	13.2	28.8		03/17/12 02:25	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	40.9	6.1	28.8		03/17/12 02:25	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	10.5	5.3	28.8		03/17/12 02:25	123-91-1	
Ethanol	84.8	ug/m3	10.9	5.5	28.8		03/17/12 02:25	64-17-5	SS
Ethylbenzene	ND	ug/m3	25.3	3.4	28.8		03/17/12 02:25	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	63.4	31.7	28.8		03/17/12 02:25	87-68-3	
n-Hexane	ND	ug/m3	20.7	10.4	28.8		03/17/12 02:25	110-54-3	
Methylene Chloride	11.1J	ug/m3	20.4	10.2	28.8		03/17/12 02:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	23.9	12.0	28.8		03/17/12 02:25	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	21.0	2.5	28.8		03/17/12 02:25	1634-04-4	
Styrene	ND	ug/m3	25.1	12.5	28.8		03/17/12 02:25	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	20.1	5.4	28.8		03/17/12 02:25	79-34-5	
Tetrachloroethene	66200	ug/m3	635	313	921.6		03/20/12 01:11	127-18-4	A3
Toluene	68.1	ug/m3	22.2	11.1	28.8		03/17/12 02:25	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	28.5	14.3	28.8		03/17/12 02:25	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	32.0	15.8	28.8		03/17/12 02:25	71-55-6	
Trichloroethene	300	ug/m3	15.8	8.1	28.8		03/17/12 02:25	79-01-6	
Trichlorofluoromethane	ND	ug/m3	32.8	6.4	28.8		03/17/12 02:25	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	46.1	23.0	28.8		03/17/12 02:25	76-13-1	

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ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo
Pace Project No.: 10184975

Sample: SG-084		Lab ID: 10184975005		Collected: 03/07/12 08:51		Received: 03/08/12 10:05		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
1,2,4-Trimethylbenzene	ND	ug/m3	28.8	14.4	28.8		03/17/12 02:25	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	28.8	3.7	28.8		03/17/12 02:25	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	27.4	2.9	28.8		03/17/12 02:25	540-84-1	
Vinyl chloride	ND	ug/m3	7.5	3.7	28.8		03/17/12 02:25	75-01-4	
m&p-Xylene	33.8J	ug/m3	50.7	25.3	28.8		03/17/12 02:25	179601-23-1	
o-Xylene	9.8J	ug/m3	25.3	3.7	28.8		03/17/12 02:25	95-47-6	

ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo
Pace Project No.: 10184975

Sample: SG-085 Lab ID: 10184975007 Collected: 03/07/12 09:37 Received: 03/08/12 10:05 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	2.2	ug/m3	0.45	0.22	1.39		03/19/12 13:13	71-43-2	
Benzyl chloride	ND	ug/m3	1.5	0.73	1.39		03/19/12 13:13	100-44-7	
Bromodichloromethane	ND	ug/m3	1.9	0.25	1.39		03/19/12 13:13	75-27-4	
Bromoform	ND	ug/m3	2.9	1.5	1.39		03/19/12 13:13	75-25-2	
Bromomethane	ND	ug/m3	1.1	0.25	1.39		03/19/12 13:13	74-83-9	
1,3-Butadiene	ND	ug/m3	0.63	0.31	1.39		03/19/12 13:13	106-99-0	
2-Butanone (MEK)	5.8	ug/m3	0.83	0.22	1.39		03/19/12 13:13	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	1.3	0.074	1.39		03/19/12 13:13	75-65-0	
Carbon tetrachloride	ND	ug/m3	0.89	0.44	1.39		03/19/12 13:13	56-23-5	
Chlorobenzene	ND	ug/m3	1.3	0.65	1.39		03/19/12 13:13	108-90-7	
Chloroethane	ND	ug/m3	0.75	0.38	1.39		03/19/12 13:13	75-00-3	
Chloroform	1.0J	ug/m3	1.4	0.69	1.39		03/19/12 13:13	67-66-3	
Chloromethane	ND	ug/m3	0.58	0.29	1.39		03/19/12 13:13	74-87-3	
Cyclohexane	2.7	ug/m3	0.95	0.50	1.39		03/19/12 13:13	110-82-7	
Dibromochloromethane	ND	ug/m3	2.4	1.2	1.39		03/19/12 13:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.2	1.1	1.39		03/19/12 13:13	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.7	0.85	1.39		03/19/12 13:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.7	0.85	1.39		03/19/12 13:13	541-73-1	
1,4-Dichlorobenzene	1.2J	ug/m3	1.7	0.85	1.39		03/19/12 13:13	106-46-7	
Dichlorodifluoromethane	1.9	ug/m3	1.4	0.70	1.39		03/19/12 13:13	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.1	0.57	1.39		03/19/12 13:13	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.57	0.29	1.39		03/19/12 13:13	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.1	0.56	1.39		03/19/12 13:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.1	0.21	1.39		03/19/12 13:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	0.56	1.39		03/19/12 13:13	156-60-5	
1,2-Dichloropropane	2.3	ug/m3	1.3	0.65	1.39		03/19/12 13:13	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.3	0.15	1.39		03/19/12 13:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.3	0.64	1.39		03/19/12 13:13	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.0	0.30	1.39		03/19/12 13:13	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	0.51	0.26	1.39		03/19/12 13:13	123-91-1	
Ethanol	166	ug/m3	0.53	0.27	1.39		03/19/12 13:13	64-17-5	C0,E, SS
Ethylbenzene	15.1	ug/m3	1.2	0.17	1.39		03/19/12 13:13	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	3.1	1.5	1.39		03/19/12 13:13	87-68-3	
n-Hexane	5.4	ug/m3	1.0	0.50	1.39		03/19/12 13:13	110-54-3	
Methylene Chloride	27.9	ug/m3	0.99	0.49	1.39		03/19/12 13:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.2	0.58	1.39		03/19/12 13:13	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.0	0.12	1.39		03/19/12 13:13	1634-04-4	
Styrene	2.5	ug/m3	1.2	0.60	1.39		03/19/12 13:13	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.97	0.26	1.39		03/19/12 13:13	79-34-5	
Tetrachloroethene	269	ug/m3	0.96	0.47	1.39		03/19/12 13:13	127-18-4	
Toluene	63.1	ug/m3	1.1	0.54	1.39		03/19/12 13:13	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1.4	0.69	1.39		03/19/12 13:13	120-82-1	
1,1,1-Trichloroethane	11.3	ug/m3	1.5	0.76	1.39		03/19/12 13:13	71-55-6	
Trichloroethene	8.4	ug/m3	0.76	0.39	1.39		03/19/12 13:13	79-01-6	
Trichlorofluoromethane	103	ug/m3	1.6	0.31	1.39		03/19/12 13:13	75-69-4	

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ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo

Pace Project No.: 10184975

Sample: SG-085		Lab ID: 10184975007		Collected: 03/07/12 09:37		Received: 03/08/12 10:05		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.2	1.1	1.39		03/19/12 13:13	76-13-1	
1,2,4-Trimethylbenzene	5.3	ug/m3	1.4	0.70	1.39		03/19/12 13:13	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.4	0.18	1.39		03/19/12 13:13	108-67-8	
2,2,4-Trimethylpentane	2.8	ug/m3	1.3	0.14	1.39		03/19/12 13:13	540-84-1	
Vinyl chloride	ND	ug/m3	0.36	0.18	1.39		03/19/12 13:13	75-01-4	
m&p-Xylene	43.6	ug/m3	2.4	1.2	1.39		03/19/12 13:13	179601-23-1	
o-Xylene	13.4	ug/m3	1.2	0.18	1.39		03/19/12 13:13	95-47-6	

ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo
Pace Project No.: 10184975

Sample: SG-086 Lab ID: 10184975008 Collected: 03/07/12 09:42 Received: 03/08/12 10:05 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	ND	ug/m3	9.0	4.4	27.8		03/16/12 22:03	71-43-2	
Benzyl chloride	ND	ug/m3	29.2	14.6	27.8		03/16/12 22:03	100-44-7	
Bromodichloromethane	ND	ug/m3	37.8	4.9	27.8		03/16/12 22:03	75-27-4	
Bromoform	ND	ug/m3	58.4	29.2	27.8		03/16/12 22:03	75-25-2	
Bromomethane	ND	ug/m3	22.0	5.0	27.8		03/16/12 22:03	74-83-9	
1,3-Butadiene	ND	ug/m3	12.5	6.3	27.8		03/16/12 22:03	106-99-0	
2-Butanone (MEK)	ND	ug/m3	16.7	4.3	27.8		03/16/12 22:03	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	25.7	1.5	27.8		03/16/12 22:03	75-65-0	
Carbon tetrachloride	ND	ug/m3	17.8	8.9	27.8		03/16/12 22:03	56-23-5	
Chlorobenzene	ND	ug/m3	26.1	13.1	27.8		03/16/12 22:03	108-90-7	
Chloroethane	ND	ug/m3	15.0	7.5	27.8		03/16/12 22:03	75-00-3	
Chloroform	35.3	ug/m3	27.5	13.8	27.8		03/16/12 22:03	67-66-3	
Chloromethane	ND	ug/m3	11.7	5.8	27.8		03/16/12 22:03	74-87-3	
Cyclohexane	ND	ug/m3	18.9	10.0	27.8		03/16/12 22:03	110-82-7	
Dibromochloromethane	ND	ug/m3	48.1	24.1	27.8		03/16/12 22:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	43.4	21.7	27.8		03/16/12 22:03	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	33.9	17.0	27.8		03/16/12 22:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	33.9	17.0	27.8		03/16/12 22:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	33.9	17.0	27.8		03/16/12 22:03	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	28.1	14.0	27.8		03/16/12 22:03	75-71-8	
1,1-Dichloroethane	88.7	ug/m3	22.8	11.4	27.8		03/16/12 22:03	75-34-3	
1,2-Dichloroethane	ND	ug/m3	11.4	5.8	27.8		03/16/12 22:03	107-06-2	
1,1-Dichloroethene	465	ug/m3	22.5	11.2	27.8		03/16/12 22:03	75-35-4	
cis-1,2-Dichloroethene	35.6	ug/m3	22.5	4.3	27.8		03/16/12 22:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	22.5	11.3	27.8		03/16/12 22:03	156-60-5	
1,2-Dichloropropane	ND	ug/m3	26.1	13.1	27.8		03/16/12 22:03	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	25.6	3.1	27.8		03/16/12 22:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	25.6	12.8	27.8		03/16/12 22:03	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	39.5	5.9	27.8		03/16/12 22:03	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	10.2	5.1	27.8		03/16/12 22:03	123-91-1	
Ethanol	ND	ug/m3	10.6	5.3	27.8		03/16/12 22:03	64-17-5	
Ethylbenzene	10.8J	ug/m3	24.5	3.3	27.8		03/16/12 22:03	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	61.2	30.6	27.8		03/16/12 22:03	87-68-3	
n-Hexane	ND	ug/m3	20.0	10.0	27.8		03/16/12 22:03	110-54-3	
Methylene Chloride	ND	ug/m3	19.7	9.8	27.8		03/16/12 22:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	23.1	11.5	27.8		03/16/12 22:03	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	20.3	2.4	27.8		03/16/12 22:03	1634-04-4	
Styrene	ND	ug/m3	24.2	12.0	27.8		03/16/12 22:03	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	19.4	5.2	27.8		03/16/12 22:03	79-34-5	
Tetrachloroethene	22200	ug/m3	306	151	444.8		03/20/12 00:43	127-18-4	A3
Toluene	141	ug/m3	21.4	10.7	27.8		03/16/12 22:03	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	27.5	13.8	27.8		03/16/12 22:03	120-82-1	
1,1,1-Trichloroethane	136	ug/m3	30.9	15.3	27.8		03/16/12 22:03	71-55-6	
Trichloroethene	389	ug/m3	15.3	7.8	27.8		03/16/12 22:03	79-01-6	
Trichlorofluoromethane	ND	ug/m3	31.7	6.2	27.8		03/16/12 22:03	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	44.5	22.2	27.8		03/16/12 22:03	76-13-1	

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ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo

Pace Project No.: 10184975

Sample: SG-086		Lab ID: 10184975008		Collected: 03/07/12 09:42		Received: 03/08/12 10:05		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
1,2,4-Trimethylbenzene	ND	ug/m3	27.8	13.9	27.8		03/16/12 22:03	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	27.8	3.6	27.8		03/16/12 22:03	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	26.4	2.8	27.8		03/16/12 22:03	540-84-1	
Vinyl chloride	ND	ug/m3	7.2	3.6	27.8		03/16/12 22:03	75-01-4	
m&p-Xylene	35.6J	ug/m3	48.9	24.5	27.8		03/16/12 22:03	179601-23-1	
o-Xylene	9.9J	ug/m3	24.5	3.6	27.8		03/16/12 22:03	95-47-6	

ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo
Pace Project No.: 10184975

Sample: SG-087 Lab ID: 10184975012 Collected: 03/07/12 10:57 Received: 03/08/12 10:05 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	ND	ug/m3	10.5	5.2	32.2		03/16/12 21:34	71-43-2	
Benzyl chloride	ND	ug/m3	33.8	16.9	32.2		03/16/12 21:34	100-44-7	
Bromodichloromethane	ND	ug/m3	43.8	5.7	32.2		03/16/12 21:34	75-27-4	
Bromoform	ND	ug/m3	67.6	33.8	32.2		03/16/12 21:34	75-25-2	
Bromomethane	ND	ug/m3	25.4	5.8	32.2		03/16/12 21:34	74-83-9	
1,3-Butadiene	ND	ug/m3	14.5	7.2	32.2		03/16/12 21:34	106-99-0	
2-Butanone (MEK)	ND	ug/m3	19.3	5.0	32.2		03/16/12 21:34	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	29.8	1.7	32.2		03/16/12 21:34	75-65-0	
Carbon tetrachloride	ND	ug/m3	20.6	10.3	32.2		03/16/12 21:34	56-23-5	
Chlorobenzene	ND	ug/m3	30.3	15.1	32.2		03/16/12 21:34	108-90-7	
Chloroethane	ND	ug/m3	17.4	8.7	32.2		03/16/12 21:34	75-00-3	
Chloroform	ND	ug/m3	31.9	16.0	32.2		03/16/12 21:34	67-66-3	
Chloromethane	ND	ug/m3	13.5	6.8	32.2		03/16/12 21:34	74-87-3	
Cyclohexane	ND	ug/m3	21.9	11.6	32.2		03/16/12 21:34	110-82-7	
Dibromochloromethane	ND	ug/m3	55.7	27.9	32.2		03/16/12 21:34	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	50.2	25.1	32.2		03/16/12 21:34	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	39.3	19.6	32.2		03/16/12 21:34	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	39.3	19.6	32.2		03/16/12 21:34	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	39.3	19.6	32.2		03/16/12 21:34	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	32.5	16.3	32.2		03/16/12 21:34	75-71-8	
1,1-Dichloroethane	ND	ug/m3	26.4	13.2	32.2		03/16/12 21:34	75-34-3	
1,2-Dichloroethane	ND	ug/m3	13.2	6.8	32.2		03/16/12 21:34	107-06-2	
1,1-Dichloroethene	ND	ug/m3	26.1	13.0	32.2		03/16/12 21:34	75-35-4	
cis-1,2-Dichloroethene	536	ug/m3	26.1	4.9	32.2		03/16/12 21:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	26.1	13.0	32.2		03/16/12 21:34	156-60-5	
1,2-Dichloropropane	ND	ug/m3	30.3	15.1	32.2		03/16/12 21:34	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	29.6	3.6	32.2		03/16/12 21:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	29.6	14.8	32.2		03/16/12 21:34	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	45.7	6.9	32.2		03/16/12 21:34	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	11.8	6.0	32.2		03/16/12 21:34	123-91-1	
Ethanol	116	ug/m3	12.2	6.2	32.2		03/16/12 21:34	64-17-5	SS
Ethylbenzene	18.4J	ug/m3	28.3	3.8	32.2		03/16/12 21:34	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	70.8	35.4	32.2		03/16/12 21:34	87-68-3	
n-Hexane	ND	ug/m3	23.2	11.6	32.2		03/16/12 21:34	110-54-3	
Methylene Chloride	ND	ug/m3	22.9	11.4	32.2		03/16/12 21:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	26.7	13.4	32.2		03/16/12 21:34	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	23.5	2.8	32.2		03/16/12 21:34	1634-04-4	
Styrene	ND	ug/m3	28.0	13.9	32.2		03/16/12 21:34	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	22.5	6.1	32.2		03/16/12 21:34	79-34-5	
Tetrachloroethene	227000	ug/m3	710	350	1030.4		03/19/12 22:19	127-18-4	A3
Toluene	68.1	ug/m3	24.8	12.4	32.2		03/16/12 21:34	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	31.9	15.9	32.2		03/16/12 21:34	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	35.7	17.7	32.2		03/16/12 21:34	71-55-6	
Trichloroethene	968	ug/m3	17.7	9.0	32.2		03/16/12 21:34	79-01-6	
Trichlorofluoromethane	ND	ug/m3	36.7	7.1	32.2		03/16/12 21:34	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	51.5	25.8	32.2		03/16/12 21:34	76-13-1	

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ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo
Pace Project No.: 10184975

Sample: SG-087		Lab ID: 10184975012		Collected: 03/07/12 10:57		Received: 03/08/12 10:05		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
1,2,4-Trimethylbenzene	19.4J	ug/m3	32.2	16.1	32.2		03/16/12 21:34	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	32.2	4.2	32.2		03/16/12 21:34	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	30.6	3.2	32.2		03/16/12 21:34	540-84-1	
Vinyl chloride	ND	ug/m3	8.4	4.2	32.2		03/16/12 21:34	75-01-4	
m&p-Xylene	77.3	ug/m3	56.7	28.3	32.2		03/16/12 21:34	179601-23-1	
o-Xylene	24.5J	ug/m3	28.3	4.1	32.2		03/16/12 21:34	95-47-6	

ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo
Pace Project No.: 10184975

Sample: SG-112 Lab ID: 10184975003 Collected: 03/06/12 15:33 Received: 03/08/12 10:05 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	ND	ug/m3	9.7	4.8	29.8		03/17/12 03:52	71-43-2	
Benzyl chloride	ND	ug/m3	31.3	15.6	29.8		03/17/12 03:52	100-44-7	
Bromodichloromethane	ND	ug/m3	40.5	5.3	29.8		03/17/12 03:52	75-27-4	
Bromoform	ND	ug/m3	62.6	31.3	29.8		03/17/12 03:52	75-25-2	
Bromomethane	ND	ug/m3	23.5	5.4	29.8		03/17/12 03:52	74-83-9	
1,3-Butadiene	ND	ug/m3	13.4	6.7	29.8		03/17/12 03:52	106-99-0	
2-Butanone (MEK)	8.8J	ug/m3	17.9	4.6	29.8		03/17/12 03:52	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	27.5	1.6	29.8		03/17/12 03:52	75-65-0	
Carbon tetrachloride	ND	ug/m3	19.1	9.5	29.8		03/17/12 03:52	56-23-5	
Chlorobenzene	ND	ug/m3	28.0	14.0	29.8		03/17/12 03:52	108-90-7	
Chloroethane	ND	ug/m3	16.1	8.0	29.8		03/17/12 03:52	75-00-3	
Chloroform	ND	ug/m3	29.5	14.8	29.8		03/17/12 03:52	67-66-3	
Chloromethane	ND	ug/m3	12.5	6.3	29.8		03/17/12 03:52	74-87-3	
Cyclohexane	ND	ug/m3	20.3	10.7	29.8		03/17/12 03:52	110-82-7	
Dibromochloromethane	ND	ug/m3	51.6	25.8	29.8		03/17/12 03:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	46.5	23.2	29.8		03/17/12 03:52	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	36.4	18.2	29.8		03/17/12 03:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	36.4	18.2	29.8		03/17/12 03:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	36.4	18.2	29.8		03/17/12 03:52	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	30.1	15.0	29.8		03/17/12 03:52	75-71-8	
1,1-Dichloroethane	ND	ug/m3	24.4	12.2	29.8		03/17/12 03:52	75-34-3	
1,2-Dichloroethane	ND	ug/m3	12.2	6.3	29.8		03/17/12 03:52	107-06-2	
1,1-Dichloroethene	ND	ug/m3	24.1	12.0	29.8		03/17/12 03:52	75-35-4	
cis-1,2-Dichloroethene	176	ug/m3	24.1	4.6	29.8		03/17/12 03:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	24.1	12.1	29.8		03/17/12 03:52	156-60-5	
1,2-Dichloropropane	ND	ug/m3	28.0	14.0	29.8		03/17/12 03:52	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	27.4	3.3	29.8		03/17/12 03:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	27.4	13.7	29.8		03/17/12 03:52	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	42.3	6.3	29.8		03/17/12 03:52	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	10.9	5.5	29.8		03/17/12 03:52	123-91-1	
Ethanol	158	ug/m3	11.3	5.7	29.8		03/17/12 03:52	64-17-5	SS
Ethylbenzene	7.5J	ug/m3	26.2	3.5	29.8		03/17/12 03:52	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	65.6	32.8	29.8		03/17/12 03:52	87-68-3	
n-Hexane	ND	ug/m3	21.5	10.7	29.8		03/17/12 03:52	110-54-3	
Methylene Chloride	93.2	ug/m3	21.2	10.5	29.8		03/17/12 03:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	24.7	12.4	29.8		03/17/12 03:52	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	21.8	2.6	29.8		03/17/12 03:52	1634-04-4	
Styrene	ND	ug/m3	25.9	12.9	29.8		03/17/12 03:52	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	20.8	5.6	29.8		03/17/12 03:52	79-34-5	
Tetrachloroethene	5910	ug/m3	20.5	10.1	29.8		03/17/12 03:52	127-18-4	
Toluene	82.8	ug/m3	22.9	11.5	29.8		03/17/12 03:52	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	29.5	14.8	29.8		03/17/12 03:52	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	33.1	16.4	29.8		03/17/12 03:52	71-55-6	
Trichloroethene	181	ug/m3	16.4	8.3	29.8		03/17/12 03:52	79-01-6	
Trichlorofluoromethane	ND	ug/m3	34.0	6.6	29.8		03/17/12 03:52	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	47.7	23.8	29.8		03/17/12 03:52	76-13-1	

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ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo

Pace Project No.: 10184975

Sample: SG-112		Lab ID: 10184975003		Collected: 03/06/12 15:33		Received: 03/08/12 10:05		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
1,2,4-Trimethylbenzene	ND	ug/m3	29.8	14.9	29.8		03/17/12 03:52	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	29.8	3.9	29.8		03/17/12 03:52	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	28.3	3.0	29.8		03/17/12 03:52	540-84-1	
Vinyl chloride	ND	ug/m3	7.7	3.9	29.8		03/17/12 03:52	75-01-4	
m&p-Xylene	30.0J	ug/m3	52.4	26.2	29.8		03/17/12 03:52	179601-23-1	
o-Xylene	ND	ug/m3	26.2	3.8	29.8		03/17/12 03:52	95-47-6	

ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo
Pace Project No.: 10184830

Sample: SG-113 Lab ID: 10184830004 Collected: 03/06/12 09:23 Received: 03/07/12 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	10.5	ug/m3	0.41	0.20	1.26		03/19/12 22:21	71-43-2	
Benzyl chloride	ND	ug/m3	1.3	0.66	1.26		03/19/12 22:21	100-44-7	
Bromodichloromethane	ND	ug/m3	1.7	0.22	1.26		03/19/12 22:21	75-27-4	
Bromoform	ND	ug/m3	2.6	1.3	1.26		03/19/12 22:21	75-25-2	
Bromomethane	ND	ug/m3	1.0	0.23	1.26		03/19/12 22:21	74-83-9	
1,3-Butadiene	ND	ug/m3	0.57	0.28	1.26		03/19/12 22:21	106-99-0	
2-Butanone (MEK)	9.2	ug/m3	0.76	0.20	1.26		03/19/12 22:21	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	1.2	0.067	1.26		03/19/12 22:21	75-65-0	
Carbon tetrachloride	39.3	ug/m3	0.81	0.40	1.26		03/19/12 22:21	56-23-5	
Chlorobenzene	ND	ug/m3	1.2	0.59	1.26		03/19/12 22:21	108-90-7	
Chloroethane	ND	ug/m3	0.68	0.34	1.26		03/19/12 22:21	75-00-3	
Chloroform	2470	ug/m3	24.9	12.5	25.2		03/19/12 22:51	67-66-3	
Chloromethane	ND	ug/m3	0.53	0.26	1.26		03/19/12 22:21	74-87-3	
Cyclohexane	18.1	ug/m3	0.86	0.45	1.26		03/19/12 22:21	110-82-7	
Dibromochloromethane	ND	ug/m3	2.2	1.1	1.26		03/19/12 22:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.0	0.98	1.26		03/19/12 22:21	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.5	0.77	1.26		03/19/12 22:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.5	0.77	1.26		03/19/12 22:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.5	0.77	1.26		03/19/12 22:21	106-46-7	
Dichlorodifluoromethane	4.9	ug/m3	1.3	0.64	1.26		03/19/12 22:21	75-71-8	
1,1-Dichloroethane	21.5	ug/m3	1.0	0.52	1.26		03/19/12 22:21	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.52	0.26	1.26		03/19/12 22:21	107-06-2	
1,1-Dichloroethene	4.5	ug/m3	1.0	0.51	1.26		03/19/12 22:21	75-35-4	
cis-1,2-Dichloroethene	12.3	ug/m3	1.0	0.19	1.26		03/19/12 22:21	156-59-2	
trans-1,2-Dichloroethene	41.8	ug/m3	1.0	0.51	1.26		03/19/12 22:21	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.2	0.59	1.26		03/19/12 22:21	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.2	0.14	1.26		03/19/12 22:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.2	0.58	1.26		03/19/12 22:21	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	1.8	0.27	1.26		03/19/12 22:21	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	0.46	0.23	1.26		03/19/12 22:21	123-91-1	
Ethanol	32.3	ug/m3	0.48	0.24	1.26		03/19/12 22:21	64-17-5	SS
Ethylbenzene	11.0	ug/m3	1.1	0.15	1.26		03/19/12 22:21	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	2.8	1.4	1.26		03/19/12 22:21	87-68-3	
n-Hexane	31.1	ug/m3	0.91	0.45	1.26		03/19/12 22:21	110-54-3	
Methylene Chloride	54.6	ug/m3	0.89	0.44	1.26		03/19/12 22:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.0	0.52	1.26		03/19/12 22:21	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	0.92	0.11	1.26		03/19/12 22:21	1634-04-4	
Styrene	ND	ug/m3	1.1	0.55	1.26		03/19/12 22:21	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.88	0.24	1.26		03/19/12 22:21	79-34-5	
Tetrachloroethene	388	ug/m3	17.4	8.6	25.2		03/19/12 22:51	127-18-4	
Toluene	101	ug/m3	0.97	0.49	1.26		03/19/12 22:21	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1.2	0.62	1.26		03/19/12 22:21	120-82-1	
1,1,1-Trichloroethane	22.1	ug/m3	1.4	0.69	1.26		03/19/12 22:21	71-55-6	
Trichloroethene	139	ug/m3	0.69	0.35	1.26		03/19/12 22:21	79-01-6	
Trichlorofluoromethane	2.2	ug/m3	1.4	0.28	1.26		03/19/12 22:21	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.0	1.0	1.26		03/19/12 22:21	76-13-1	

ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo

Pace Project No.: 10184830

Sample: SG-113		Lab ID: 10184830004		Collected: 03/06/12 09:23		Received: 03/07/12 10:00		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
1,2,4-Trimethylbenzene	2.0	ug/m3	1.3	0.63	1.26		03/19/12 22:21	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.3	0.16	1.26		03/19/12 22:21	108-67-8	
2,2,4-Trimethylpentane	44.1	ug/m3	1.2	0.13	1.26		03/19/12 22:21	540-84-1	
Vinyl chloride	ND	ug/m3	0.33	0.16	1.26		03/19/12 22:21	75-01-4	
m&p-Xylene	31.5	ug/m3	2.2	1.1	1.26		03/19/12 22:21	179601-23-1	
o-Xylene	9.4	ug/m3	1.1	0.16	1.26		03/19/12 22:21	95-47-6	

ANALYTICAL RESULTS

Project: 11176390.00002 Klink Cosmo
Pace Project No.: 10184652

Sample: SG-114 Lab ID: 10184652002 Collected: 03/05/12 09:45 Received: 03/06/12 10:08 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	7.0	ug/m3	0.47	0.23	1.44		03/16/12 19:38	71-43-2	
Benzyl chloride	ND	ug/m3	1.5	0.76	1.44		03/16/12 19:38	100-44-7	
Bromodichloromethane	ND	ug/m3	2.0	0.25	1.44		03/16/12 19:38	75-27-4	
Bromoform	ND	ug/m3	3.0	1.5	1.44		03/16/12 19:38	75-25-2	
Bromomethane	ND	ug/m3	1.1	0.26	1.44		03/16/12 19:38	74-83-9	
1,3-Butadiene	ND	ug/m3	0.65	0.32	1.44		03/16/12 19:38	106-99-0	
2-Butanone (MEK)	6.5	ug/m3	0.86	0.22	1.44		03/16/12 19:38	78-93-3	
tert-Butyl Alcohol	1.6	ug/m3	1.3	0.076	1.44		03/16/12 19:38	75-65-0	
Carbon tetrachloride	ND	ug/m3	0.92	0.46	1.44		03/16/12 19:38	56-23-5	
Chlorobenzene	ND	ug/m3	1.4	0.68	1.44		03/16/12 19:38	108-90-7	
Chloroethane	ND	ug/m3	0.78	0.39	1.44		03/16/12 19:38	75-00-3	
Chloroform	57.2	ug/m3	1.4	0.72	1.44		03/16/12 19:38	67-66-3	
Chloromethane	ND	ug/m3	0.60	0.30	1.44		03/16/12 19:38	74-87-3	
Cyclohexane	5.4	ug/m3	0.98	0.52	1.44		03/16/12 19:38	110-82-7	
Dibromochloromethane	ND	ug/m3	2.5	1.2	1.44		03/16/12 19:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.2	1.1	1.44		03/16/12 19:38	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.8	0.88	1.44		03/16/12 19:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.8	0.88	1.44		03/16/12 19:38	541-73-1	
1,4-Dichlorobenzene	1.2J	ug/m3	1.8	0.88	1.44		03/16/12 19:38	106-46-7	
Dichlorodifluoromethane	1.8	ug/m3	1.5	0.73	1.44		03/16/12 19:38	75-71-8	
1,1-Dichloroethane	3.4	ug/m3	1.2	0.59	1.44		03/16/12 19:38	75-34-3	
1,2-Dichloroethane	10.4	ug/m3	0.59	0.30	1.44		03/16/12 19:38	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	0.58	1.44		03/16/12 19:38	75-35-4	
cis-1,2-Dichloroethene	6.8	ug/m3	1.2	0.22	1.44		03/16/12 19:38	156-59-2	
trans-1,2-Dichloroethene	1.2	ug/m3	1.2	0.58	1.44		03/16/12 19:38	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.4	0.68	1.44		03/16/12 19:38	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.3	0.16	1.44		03/16/12 19:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.3	0.66	1.44		03/16/12 19:38	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.0	0.31	1.44		03/16/12 19:38	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	0.53	0.27	1.44		03/16/12 19:38	123-91-1	
Ethanol	28.3	ug/m3	0.55	0.28	1.44		03/16/12 19:38	64-17-5	SS
Ethylbenzene	26.7	ug/m3	1.3	0.17	1.44		03/16/12 19:38	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	3.2	1.6	1.44		03/16/12 19:38	87-68-3	
n-Hexane	10.3	ug/m3	1.0	0.52	1.44		03/16/12 19:38	110-54-3	
Methylene Chloride	99.8	ug/m3	1.0	0.51	1.44		03/16/12 19:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.2	0.60	1.44		03/16/12 19:38	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.1	0.13	1.44		03/16/12 19:38	1634-04-4	
Styrene	2.1	ug/m3	1.3	0.62	1.44		03/16/12 19:38	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.0	0.27	1.44		03/16/12 19:38	79-34-5	
Tetrachloroethene	2080	ug/m3	19.8	9.8	28.8		03/15/12 03:38	127-18-4	
Toluene	95.8	ug/m3	1.1	0.55	1.44		03/16/12 19:38	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1.4	0.71	1.44		03/16/12 19:38	120-82-1	
1,1,1-Trichloroethane	181	ug/m3	1.6	0.79	1.44		03/16/12 19:38	71-55-6	
Trichloroethene	2460	ug/m3	15.8	8.1	28.8		03/15/12 03:38	79-01-6	
Trichlorofluoromethane	9.4	ug/m3	1.6	0.32	1.44		03/16/12 19:38	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.3	1.2	1.44		03/16/12 19:38	76-13-1	

Date: 03/19/2012 03:42 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 11176390.00002 Klink Cosmo

Pace Project No.: 10184652

Sample: SG-114 Lab ID: 10184652002 Collected: 03/05/12 09:45 Received: 03/06/12 10:08 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
1,2,4-Trimethylbenzene	20.5	ug/m3	1.4	0.72	1.44		03/16/12 19:38	95-63-6	
1,3,5-Trimethylbenzene	5.1	ug/m3	1.4	0.19	1.44		03/16/12 19:38	108-67-8	
2,2,4-Trimethylpentane	3.7	ug/m3	1.4	0.14	1.44		03/16/12 19:38	540-84-1	
Vinyl chloride	ND	ug/m3	0.37	0.19	1.44		03/16/12 19:38	75-01-4	
m&p-Xylene	85.4	ug/m3	2.5	1.3	1.44		03/16/12 19:38	179601-23-1	
o-Xylene	31.3	ug/m3	1.3	0.18	1.44		03/16/12 19:38	95-47-6	

ANALYTICAL RESULTS

Project: 11176390.00002 Klink Cosmo
Pace Project No.: 10184652

Sample: SG-115 Lab ID: 10184652010 Collected: 03/05/12 12:30 Received: 03/06/12 10:08 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	30.2	ug/m3	2.3	1.2	7.2		03/16/12 02:32	71-43-2	
Benzyl chloride	ND	ug/m3	7.6	3.8	7.2		03/16/12 02:32	100-44-7	
Bromodichloromethane	ND	ug/m3	9.8	1.3	7.2		03/16/12 02:32	75-27-4	
Bromoform	ND	ug/m3	15.1	7.6	7.2		03/16/12 02:32	75-25-2	
Bromomethane	ND	ug/m3	5.7	1.3	7.2		03/16/12 02:32	74-83-9	
1,3-Butadiene	ND	ug/m3	3.2	1.6	7.2		03/16/12 02:32	106-99-0	
2-Butanone (MEK)	8.7	ug/m3	4.3	1.1	7.2		03/16/12 02:32	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	6.7	0.38	7.2		03/16/12 02:32	75-65-0	
Carbon tetrachloride	ND	ug/m3	4.6	2.3	7.2		03/16/12 02:32	56-23-5	
Chlorobenzene	ND	ug/m3	6.8	3.4	7.2		03/16/12 02:32	108-90-7	
Chloroethane	ND	ug/m3	3.9	1.9	7.2		03/16/12 02:32	75-00-3	
Chloroform	8.7	ug/m3	7.1	3.6	7.2		03/16/12 02:32	67-66-3	
Chloromethane	ND	ug/m3	3.0	1.5	7.2		03/16/12 02:32	74-87-3	
Cyclohexane	16.8	ug/m3	4.9	2.6	7.2		03/16/12 02:32	110-82-7	
Dibromochloromethane	ND	ug/m3	12.5	6.2	7.2		03/16/12 02:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	11.2	5.6	7.2		03/16/12 02:32	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	8.8	4.4	7.2		03/16/12 02:32	95-50-1	
1,3-Dichlorobenzene	25.7	ug/m3	8.8	4.4	7.2		03/16/12 02:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	8.8	4.4	7.2		03/16/12 02:32	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	7.3	3.6	7.2		03/16/12 02:32	75-71-8	
1,1-Dichloroethane	ND	ug/m3	5.9	3.0	7.2		03/16/12 02:32	75-34-3	
1,2-Dichloroethane	455	ug/m3	3.0	1.5	7.2		03/16/12 02:32	107-06-2	
1,1-Dichloroethene	ND	ug/m3	5.8	2.9	7.2		03/16/12 02:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	5.8	1.1	7.2		03/16/12 02:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	5.8	2.9	7.2		03/16/12 02:32	156-60-5	
1,2-Dichloropropane	6.2J	ug/m3	6.8	3.4	7.2		03/16/12 02:32	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	6.6	0.80	7.2		03/16/12 02:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	6.6	3.3	7.2		03/16/12 02:32	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	10.2	1.5	7.2		03/16/12 02:32	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	2.6	1.3	7.2		03/16/12 02:32	123-91-1	
Ethanol	365	ug/m3	2.7	1.4	7.2		03/16/12 02:32	64-17-5	SS
Ethylbenzene	46.8	ug/m3	6.3	0.86	7.2		03/16/12 02:32	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	15.8	7.9	7.2		03/16/12 02:32	87-68-3	
n-Hexane	47.0	ug/m3	5.2	2.6	7.2		03/16/12 02:32	110-54-3	
Methylene Chloride	49.5	ug/m3	5.1	2.5	7.2		03/16/12 02:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	3.7J	ug/m3	6.0	3.0	7.2		03/16/12 02:32	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.3	0.63	7.2		03/16/12 02:32	1634-04-4	
Styrene	ND	ug/m3	6.3	3.1	7.2		03/16/12 02:32	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.0	1.4	7.2		03/16/12 02:32	79-34-5	
Tetrachloroethene	796	ug/m3	5.0	2.4	7.2		03/16/12 02:32	127-18-4	
Toluene	313	ug/m3	5.5	2.8	7.2		03/16/12 02:32	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	7.1	3.6	7.2		03/16/12 02:32	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	8.0	4.0	7.2		03/16/12 02:32	71-55-6	
Trichloroethene	27.2	ug/m3	4.0	2.0	7.2		03/16/12 02:32	79-01-6	
Trichlorofluoromethane	ND	ug/m3	8.2	1.6	7.2		03/16/12 02:32	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	11.5	5.8	7.2		03/16/12 02:32	76-13-1	

ANALYTICAL RESULTS

Project: 11176390.00002 Klink Cosmo
Pace Project No.: 10184652

Sample: SG-115		Lab ID: 10184652010		Collected: 03/05/12 12:30		Received: 03/06/12 10:08		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
1,2,4-Trimethylbenzene	28.4	ug/m3	7.2	3.6	7.2		03/16/12 02:32	95-63-6	
1,3,5-Trimethylbenzene	9.6	ug/m3	7.2	0.94	7.2		03/16/12 02:32	108-67-8	
2,2,4-Trimethylpentane	17.6	ug/m3	6.8	0.72	7.2		03/16/12 02:32	540-84-1	
Vinyl chloride	ND	ug/m3	1.9	0.94	7.2		03/16/12 02:32	75-01-4	
m&p-Xylene	181	ug/m3	12.7	6.3	7.2		03/16/12 02:32	179601-23-1	
o-Xylene	56.9	ug/m3	6.3	0.92	7.2		03/16/12 02:32	95-47-6	

ANALYTICAL RESULTS

Project: 11176390.00002 Klink Cosmo
Pace Project No.: 10184652

Sample: SG-116 Lab ID: 10184652003 Collected: 03/05/12 09:50 Received: 03/06/12 10:08 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	33.3	ug/m3	9.4	4.6	28.8		03/15/12 00:43	71-43-2	
Benzyl chloride	ND	ug/m3	30.2	15.1	28.8		03/15/12 00:43	100-44-7	
Bromodichloromethane	ND	ug/m3	39.2	5.1	28.8		03/15/12 00:43	75-27-4	
Bromoform	ND	ug/m3	60.5	30.2	28.8		03/15/12 00:43	75-25-2	
Bromomethane	ND	ug/m3	22.8	5.2	28.8		03/15/12 00:43	74-83-9	
1,3-Butadiene	ND	ug/m3	13.0	6.5	28.8		03/15/12 00:43	106-99-0	
2-Butanone (MEK)	251	ug/m3	17.3	4.5	28.8		03/15/12 00:43	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	26.6	1.5	28.8		03/15/12 00:43	75-65-0	
Carbon tetrachloride	ND	ug/m3	18.4	9.2	28.8		03/15/12 00:43	56-23-5	
Chlorobenzene	ND	ug/m3	27.1	13.5	28.8		03/15/12 00:43	108-90-7	
Chloroethane	ND	ug/m3	15.6	7.8	28.8		03/15/12 00:43	75-00-3	
Chloroform	313	ug/m3	28.5	14.3	28.8		03/15/12 00:43	67-66-3	
Chloromethane	ND	ug/m3	12.1	6.0	28.8		03/15/12 00:43	74-87-3	
Cyclohexane	ND	ug/m3	19.6	10.4	28.8		03/15/12 00:43	110-82-7	
Dibromochloromethane	ND	ug/m3	49.8	24.9	28.8		03/15/12 00:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	44.9	22.5	28.8		03/15/12 00:43	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	35.1	17.6	28.8		03/15/12 00:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	35.1	17.6	28.8		03/15/12 00:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	35.1	17.6	28.8		03/15/12 00:43	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	29.1	14.5	28.8		03/15/12 00:43	75-71-8	
1,1-Dichloroethane	ND	ug/m3	23.6	11.8	28.8		03/15/12 00:43	75-34-3	
1,2-Dichloroethane	7.3J	ug/m3	11.8	6.0	28.8		03/15/12 00:43	107-06-2	
1,1-Dichloroethene	ND	ug/m3	23.3	11.6	28.8		03/15/12 00:43	75-35-4	
cis-1,2-Dichloroethene	109000	ug/m3	23900	4510	29491		03/16/12 22:46	156-59-2	A3
trans-1,2-Dichloroethene	260	ug/m3	23.3	11.7	28.8		03/15/12 00:43	156-60-5	
1,2-Dichloropropane	29.0	ug/m3	27.1	13.5	28.8		03/15/12 00:43	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	26.5	3.2	28.8		03/15/12 00:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	26.5	13.2	28.8		03/15/12 00:43	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	40.9	6.1	28.8		03/15/12 00:43	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	10.5	5.3	28.8		03/15/12 00:43	123-91-1	
Ethanol	1800	ug/m3	10.9	5.5	28.8		03/15/12 00:43	64-17-5	SS
Ethylbenzene	25.2J	ug/m3	25.3	3.4	28.8		03/15/12 00:43	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	63.4	31.7	28.8		03/15/12 00:43	87-68-3	
n-Hexane	32.9	ug/m3	20.7	10.4	28.8		03/15/12 00:43	110-54-3	
Methylene Chloride	83.5	ug/m3	20.4	10.2	28.8		03/15/12 00:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	23.9	12.0	28.8		03/15/12 00:43	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	21.0	2.5	28.8		03/15/12 00:43	1634-04-4	
Styrene	ND	ug/m3	25.1	12.5	28.8		03/15/12 00:43	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	20.1	5.4	28.8		03/15/12 00:43	79-34-5	
Tetrachloroethene	23600000	ug/m3	20300	10000	29491		03/16/12 22:46	127-18-4	A3,E
Toluene	136	ug/m3	22.2	11.1	28.8		03/15/12 00:43	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	28.5	14.3	28.8		03/15/12 00:43	120-82-1	
1,1,1-Trichloroethane	145	ug/m3	32.0	15.8	28.8		03/15/12 00:43	71-55-6	
Trichloroethene	67600	ug/m3	16200	8260	29491		03/16/12 22:46	79-01-6	A3
Trichlorofluoromethane	ND	ug/m3	32.8	6.4	28.8		03/15/12 00:43	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	46.1	23.0	28.8		03/15/12 00:43	76-13-1	

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ANALYTICAL RESULTS

Project: 11176390.00002 Klink Cosmo

Pace Project No.: 10184652

Sample: SG-116		Lab ID: 10184652003		Collected: 03/05/12 09:50		Received: 03/06/12 10:08		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
1,2,4-Trimethylbenzene	ND	ug/m3	28.8	14.4	28.8		03/15/12 00:43	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	28.8	3.7	28.8		03/15/12 00:43	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	27.4	2.9	28.8		03/15/12 00:43	540-84-1	
Vinyl chloride	ND	ug/m3	7.5	3.7	28.8		03/15/12 00:43	75-01-4	
m&p-Xylene	86.5	ug/m3	50.7	25.3	28.8		03/15/12 00:43	179601-23-1	
o-Xylene	28.5	ug/m3	25.3	3.7	28.8		03/15/12 00:43	95-47-6	

ANALYTICAL RESULTS

Project: 11176390.00002 Klink Cosmo
Pace Project No.: 10184652

Sample: SG-117 Lab ID: 10184652004 Collected: 03/05/12 10:03 Received: 03/06/12 10:08 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	27.3	ug/m3	9.4	4.6	28.8		03/15/12 02:39	71-43-2	
Benzyl chloride	ND	ug/m3	30.2	15.1	28.8		03/15/12 02:39	100-44-7	
Bromodichloromethane	ND	ug/m3	39.2	5.1	28.8		03/15/12 02:39	75-27-4	
Bromoform	ND	ug/m3	60.5	30.2	28.8		03/15/12 02:39	75-25-2	
Bromomethane	ND	ug/m3	22.8	5.2	28.8		03/15/12 02:39	74-83-9	
1,3-Butadiene	ND	ug/m3	13.0	6.5	28.8		03/15/12 02:39	106-99-0	
2-Butanone (MEK)	ND	ug/m3	17.3	4.5	28.8		03/15/12 02:39	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	26.6	1.5	28.8		03/15/12 02:39	75-65-0	
Carbon tetrachloride	ND	ug/m3	18.4	9.2	28.8		03/15/12 02:39	56-23-5	
Chlorobenzene	ND	ug/m3	27.1	13.5	28.8		03/15/12 02:39	108-90-7	
Chloroethane	ND	ug/m3	15.6	7.8	28.8		03/15/12 02:39	75-00-3	
Chloroform	551	ug/m3	28.5	14.3	28.8		03/15/12 02:39	67-66-3	
Chloromethane	ND	ug/m3	12.1	6.0	28.8		03/15/12 02:39	74-87-3	
Cyclohexane	21.8	ug/m3	19.6	10.4	28.8		03/15/12 02:39	110-82-7	
Dibromochloromethane	ND	ug/m3	49.8	24.9	28.8		03/15/12 02:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	44.9	22.5	28.8		03/15/12 02:39	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	35.1	17.6	28.8		03/15/12 02:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	35.1	17.6	28.8		03/15/12 02:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	35.1	17.6	28.8		03/15/12 02:39	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	29.1	14.5	28.8		03/15/12 02:39	75-71-8	
1,1-Dichloroethane	ND	ug/m3	23.6	11.8	28.8		03/15/12 02:39	75-34-3	
1,2-Dichloroethane	ND	ug/m3	11.8	6.0	28.8		03/15/12 02:39	107-06-2	
1,1-Dichloroethene	ND	ug/m3	23.3	11.6	28.8		03/15/12 02:39	75-35-4	
cis-1,2-Dichloroethene	1100	ug/m3	23.3	4.4	28.8		03/15/12 02:39	156-59-2	
trans-1,2-Dichloroethene	110	ug/m3	23.3	11.7	28.8		03/15/12 02:39	156-60-5	
1,2-Dichloropropane	ND	ug/m3	27.1	13.5	28.8		03/15/12 02:39	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	26.5	3.2	28.8		03/15/12 02:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	26.5	13.2	28.8		03/15/12 02:39	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	40.9	6.1	28.8		03/15/12 02:39	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	10.5	5.3	28.8		03/15/12 02:39	123-91-1	
Ethanol	75.1	ug/m3	10.9	5.5	28.8		03/15/12 02:39	64-17-5	SS
Ethylbenzene	18.8J	ug/m3	25.3	3.4	28.8		03/15/12 02:39	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	63.4	31.7	28.8		03/15/12 02:39	87-68-3	
n-Hexane	23.3	ug/m3	20.7	10.4	28.8		03/15/12 02:39	110-54-3	
Methylene Chloride	58.9	ug/m3	20.4	10.2	28.8		03/15/12 02:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	23.9	12.0	28.8		03/15/12 02:39	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	21.0	2.5	28.8		03/15/12 02:39	1634-04-4	
Styrene	ND	ug/m3	25.1	12.5	28.8		03/15/12 02:39	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	20.1	5.4	28.8		03/15/12 02:39	79-34-5	
Tetrachloroethene	287000	ug/m3	635	313	921.6		03/19/12 12:33	127-18-4	A3, C0, E
Toluene	97.0	ug/m3	22.2	11.1	28.8		03/15/12 02:39	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	28.5	14.3	28.8		03/15/12 02:39	120-82-1	
1,1,1-Trichloroethane	135	ug/m3	32.0	15.8	28.8		03/15/12 02:39	71-55-6	
Trichloroethene	4800	ug/m3	15.8	8.1	28.8		03/15/12 02:39	79-01-6	
Trichlorofluoromethane	ND	ug/m3	32.8	6.4	28.8		03/15/12 02:39	75-69-4	

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ANALYTICAL RESULTS

Project: 11176390.00002 Klink Cosmo

Pace Project No.: 10184652

Sample: SG-117		Lab ID: 10184652004	Collected: 03/05/12 10:03	Received: 03/06/12 10:08	Matrix: Air				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	46.1	23.0	28.8		03/15/12 02:39	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	28.8	14.4	28.8		03/15/12 02:39	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	28.8	3.7	28.8		03/15/12 02:39	108-67-8	
2,2,4-Trimethylpentane	14.5J	ug/m3	27.4	2.9	28.8		03/15/12 02:39	540-84-1	
Vinyl chloride	ND	ug/m3	7.5	3.7	28.8		03/15/12 02:39	75-01-4	
m&p-Xylene	60.3	ug/m3	50.7	25.3	28.8		03/15/12 02:39	179601-23-1	
o-Xylene	20.7J	ug/m3	25.3	3.7	28.8		03/15/12 02:39	95-47-6	

ANALYTICAL RESULTS

Project: 11176390.00002 Klink Cosmo
Pace Project No.: 10184652

Sample: SG-118 Lab ID: 10184652009 Collected: 03/05/12 12:07 Received: 03/06/12 10:08 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	15.2	ug/m3	9.4	4.6	28.8		03/15/12 01:41	71-43-2	
Benzyl chloride	ND	ug/m3	30.2	15.1	28.8		03/15/12 01:41	100-44-7	
Bromodichloromethane	ND	ug/m3	39.2	5.1	28.8		03/15/12 01:41	75-27-4	
Bromoform	ND	ug/m3	60.5	30.2	28.8		03/15/12 01:41	75-25-2	
Bromomethane	ND	ug/m3	22.8	5.2	28.8		03/15/12 01:41	74-83-9	
1,3-Butadiene	ND	ug/m3	13.0	6.5	28.8		03/15/12 01:41	106-99-0	
2-Butanone (MEK)	ND	ug/m3	17.3	4.5	28.8		03/15/12 01:41	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	26.6	1.5	28.8		03/15/12 01:41	75-65-0	
Carbon tetrachloride	ND	ug/m3	18.4	9.2	28.8		03/15/12 01:41	56-23-5	
Chlorobenzene	ND	ug/m3	27.1	13.5	28.8		03/15/12 01:41	108-90-7	
Chloroethane	ND	ug/m3	15.6	7.8	28.8		03/15/12 01:41	75-00-3	
Chloroform	27.5J	ug/m3	28.5	14.3	28.8		03/15/12 01:41	67-66-3	
Chloromethane	ND	ug/m3	12.1	6.0	28.8		03/15/12 01:41	74-87-3	
Cyclohexane	14.7J	ug/m3	19.6	10.4	28.8		03/15/12 01:41	110-82-7	
Dibromochloromethane	ND	ug/m3	49.8	24.9	28.8		03/15/12 01:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	44.9	22.5	28.8		03/15/12 01:41	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	35.1	17.6	28.8		03/15/12 01:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	35.1	17.6	28.8		03/15/12 01:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	35.1	17.6	28.8		03/15/12 01:41	106-46-7	
Dichlorodifluoromethane	15.5J	ug/m3	29.1	14.5	28.8		03/15/12 01:41	75-71-8	
1,1-Dichloroethane	ND	ug/m3	23.6	11.8	28.8		03/15/12 01:41	75-34-3	
1,2-Dichloroethane	ND	ug/m3	11.8	6.0	28.8		03/15/12 01:41	107-06-2	
1,1-Dichloroethene	ND	ug/m3	23.3	11.6	28.8		03/15/12 01:41	75-35-4	
cis-1,2-Dichloroethene	37.0	ug/m3	23.3	4.4	28.8		03/15/12 01:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	23.3	11.7	28.8		03/15/12 01:41	156-60-5	
1,2-Dichloropropane	ND	ug/m3	27.1	13.5	28.8		03/15/12 01:41	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	26.5	3.2	28.8		03/15/12 01:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	26.5	13.2	28.8		03/15/12 01:41	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	40.9	6.1	28.8		03/15/12 01:41	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	10.5	5.3	28.8		03/15/12 01:41	123-91-1	
Ethanol	ND	ug/m3	10.9	5.5	28.8		03/15/12 01:41	64-17-5	
Ethylbenzene	18.5J	ug/m3	25.3	3.4	28.8		03/15/12 01:41	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	63.4	31.7	28.8		03/15/12 01:41	87-68-3	
n-Hexane	61.0	ug/m3	20.7	10.4	28.8		03/15/12 01:41	110-54-3	
Methylene Chloride	62.0	ug/m3	20.4	10.2	28.8		03/15/12 01:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	23.9	12.0	28.8		03/15/12 01:41	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	21.0	2.5	28.8		03/15/12 01:41	1634-04-4	
Styrene	ND	ug/m3	25.1	12.5	28.8		03/15/12 01:41	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	20.1	5.4	28.8		03/15/12 01:41	79-34-5	
Tetrachloroethene	320000	ug/m3	2540	1250	3686.4		03/16/12 23:14	127-18-4	A3
Toluene	79.1	ug/m3	22.2	11.1	28.8		03/15/12 01:41	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	28.5	14.3	28.8		03/15/12 01:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	32.0	15.8	28.8		03/15/12 01:41	71-55-6	
Trichloroethene	148	ug/m3	15.8	8.1	28.8		03/15/12 01:41	79-01-6	
Trichlorofluoromethane	373	ug/m3	32.8	6.4	28.8		03/15/12 01:41	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	46.1	23.0	28.8		03/15/12 01:41	76-13-1	

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ANALYTICAL RESULTS

Project: 11176390.00002 Klink Cosmo
Pace Project No.: 10184652

Sample: SG-118		Lab ID: 10184652009		Collected: 03/05/12 12:07		Received: 03/06/12 10:08		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
1,2,4-Trimethylbenzene	ND	ug/m3	28.8	14.4	28.8		03/15/12 01:41	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	28.8	3.7	28.8		03/15/12 01:41	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	27.4	2.9	28.8		03/15/12 01:41	540-84-1	
Vinyl chloride	ND	ug/m3	7.5	3.7	28.8		03/15/12 01:41	75-01-4	
m&p-Xylene	67.6	ug/m3	50.7	25.3	28.8		03/15/12 01:41	179601-23-1	
o-Xylene	20.5J	ug/m3	25.3	3.7	28.8		03/15/12 01:41	95-47-6	

ANALYTICAL RESULTS

Project: 11176390.00002 Klink Cosmo
Pace Project No.: 10184652

Sample: SG-119 Lab ID: 10184652006 Collected: 03/05/12 11:30 Received: 03/06/12 10:08 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	32.4	ug/m3	9.4	4.6	28.8		03/15/12 03:09	71-43-2	
Benzyl chloride	ND	ug/m3	30.2	15.1	28.8		03/15/12 03:09	100-44-7	
Bromodichloromethane	ND	ug/m3	39.2	5.1	28.8		03/15/12 03:09	75-27-4	
Bromoform	ND	ug/m3	60.5	30.2	28.8		03/15/12 03:09	75-25-2	
Bromomethane	ND	ug/m3	22.8	5.2	28.8		03/15/12 03:09	74-83-9	
1,3-Butadiene	ND	ug/m3	13.0	6.5	28.8		03/15/12 03:09	106-99-0	
2-Butanone (MEK)	13.9J	ug/m3	17.3	4.5	28.8		03/15/12 03:09	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	26.6	1.5	28.8		03/15/12 03:09	75-65-0	
Carbon tetrachloride	ND	ug/m3	18.4	9.2	28.8		03/15/12 03:09	56-23-5	
Chlorobenzene	ND	ug/m3	27.1	13.5	28.8		03/15/12 03:09	108-90-7	
Chloroethane	ND	ug/m3	15.6	7.8	28.8		03/15/12 03:09	75-00-3	
Chloroform	87.3	ug/m3	28.5	14.3	28.8		03/15/12 03:09	67-66-3	
Chloromethane	ND	ug/m3	12.1	6.0	28.8		03/15/12 03:09	74-87-3	
Cyclohexane	34.6	ug/m3	19.6	10.4	28.8		03/15/12 03:09	110-82-7	
Dibromochloromethane	ND	ug/m3	49.8	24.9	28.8		03/15/12 03:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	44.9	22.5	28.8		03/15/12 03:09	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	35.1	17.6	28.8		03/15/12 03:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	35.1	17.6	28.8		03/15/12 03:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	35.1	17.6	28.8		03/15/12 03:09	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	29.1	14.5	28.8		03/15/12 03:09	75-71-8	
1,1-Dichloroethane	ND	ug/m3	23.6	11.8	28.8		03/15/12 03:09	75-34-3	
1,2-Dichloroethane	ND	ug/m3	11.8	6.0	28.8		03/15/12 03:09	107-06-2	
1,1-Dichloroethene	ND	ug/m3	23.3	11.6	28.8		03/15/12 03:09	75-35-4	
cis-1,2-Dichloroethene	119	ug/m3	23.3	4.4	28.8		03/15/12 03:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	23.3	11.7	28.8		03/15/12 03:09	156-60-5	
1,2-Dichloropropane	ND	ug/m3	27.1	13.5	28.8		03/15/12 03:09	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	26.5	3.2	28.8		03/15/12 03:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	26.5	13.2	28.8		03/15/12 03:09	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	40.9	6.1	28.8		03/15/12 03:09	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	10.5	5.3	28.8		03/15/12 03:09	123-91-1	
Ethanol	99.0	ug/m3	10.9	5.5	28.8		03/15/12 03:09	64-17-5	SS
Ethylbenzene	21.6J	ug/m3	25.3	3.4	28.8		03/15/12 03:09	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	63.4	31.7	28.8		03/15/12 03:09	87-68-3	
n-Hexane	42.3	ug/m3	20.7	10.4	28.8		03/15/12 03:09	110-54-3	
Methylene Chloride	712	ug/m3	20.4	10.2	28.8		03/15/12 03:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	23.9	12.0	28.8		03/15/12 03:09	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	21.0	2.5	28.8		03/15/12 03:09	1634-04-4	
Styrene	ND	ug/m3	25.1	12.5	28.8		03/15/12 03:09	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	20.1	5.4	28.8		03/15/12 03:09	79-34-5	
Tetrachloroethene	1740000	ug/m3	4440	2190	6451.2		03/16/12 21:21	127-18-4	A3,E
Toluene	133	ug/m3	22.2	11.1	28.8		03/15/12 03:09	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	28.5	14.3	28.8		03/15/12 03:09	120-82-1	
1,1,1-Trichloroethane	235	ug/m3	32.0	15.8	28.8		03/15/12 03:09	71-55-6	
Trichloroethene	1620	ug/m3	15.8	8.1	28.8		03/15/12 03:09	79-01-6	
Trichlorofluoromethane	ND	ug/m3	32.8	6.4	28.8		03/15/12 03:09	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	46.1	23.0	28.8		03/15/12 03:09	76-13-1	

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ANALYTICAL RESULTS

Project: 11176390.00002 Klink Cosmo
Pace Project No.: 10184652

Sample: SG-119		Lab ID: 10184652006		Collected: 03/05/12 11:30		Received: 03/06/12 10:08		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
1,2,4-Trimethylbenzene	ND	ug/m3	28.8	14.4	28.8		03/15/12 03:09	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	28.8	3.7	28.8		03/15/12 03:09	108-67-8	
2,2,4-Trimethylpentane	28.2	ug/m3	27.4	2.9	28.8		03/15/12 03:09	540-84-1	
Vinyl chloride	ND	ug/m3	7.5	3.7	28.8		03/15/12 03:09	75-01-4	
m&p-Xylene	70.5	ug/m3	50.7	25.3	28.8		03/15/12 03:09	179601-23-1	
o-Xylene	25.6	ug/m3	25.3	3.7	28.8		03/15/12 03:09	95-47-6	

ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo
Pace Project No.: 10184975

Sample: SG-120 Lab ID: 10184975014 Collected: 03/07/12 12:16 Received: 03/08/12 10:05 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	5.7J	ug/m3	10.5	5.2	32.2		03/17/12 02:54	71-43-2	
Benzyl chloride	ND	ug/m3	33.8	16.9	32.2		03/17/12 02:54	100-44-7	
Bromodichloromethane	ND	ug/m3	43.8	5.7	32.2		03/17/12 02:54	75-27-4	
Bromoform	ND	ug/m3	67.6	33.8	32.2		03/17/12 02:54	75-25-2	
Bromomethane	ND	ug/m3	25.4	5.8	32.2		03/17/12 02:54	74-83-9	
1,3-Butadiene	ND	ug/m3	14.5	7.2	32.2		03/17/12 02:54	106-99-0	
2-Butanone (MEK)	ND	ug/m3	19.3	5.0	32.2		03/17/12 02:54	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	29.8	1.7	32.2		03/17/12 02:54	75-65-0	
Carbon tetrachloride	ND	ug/m3	20.6	10.3	32.2		03/17/12 02:54	56-23-5	
Chlorobenzene	ND	ug/m3	30.3	15.1	32.2		03/17/12 02:54	108-90-7	
Chloroethane	ND	ug/m3	17.4	8.7	32.2		03/17/12 02:54	75-00-3	
Chloroform	ND	ug/m3	31.9	16.0	32.2		03/17/12 02:54	67-66-3	
Chloromethane	ND	ug/m3	13.5	6.8	32.2		03/17/12 02:54	74-87-3	
Cyclohexane	ND	ug/m3	21.9	11.6	32.2		03/17/12 02:54	110-82-7	
Dibromochloromethane	ND	ug/m3	55.7	27.9	32.2		03/17/12 02:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	50.2	25.1	32.2		03/17/12 02:54	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	39.3	19.6	32.2		03/17/12 02:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	39.3	19.6	32.2		03/17/12 02:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	39.3	19.6	32.2		03/17/12 02:54	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	32.5	16.3	32.2		03/17/12 02:54	75-71-8	
1,1-Dichloroethane	ND	ug/m3	26.4	13.2	32.2		03/17/12 02:54	75-34-3	
1,2-Dichloroethane	ND	ug/m3	13.2	6.8	32.2		03/17/12 02:54	107-06-2	
1,1-Dichloroethene	ND	ug/m3	26.1	13.0	32.2		03/17/12 02:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	26.1	4.9	32.2		03/17/12 02:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	26.1	13.0	32.2		03/17/12 02:54	156-60-5	
1,2-Dichloropropane	ND	ug/m3	30.3	15.1	32.2		03/17/12 02:54	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	29.6	3.6	32.2		03/17/12 02:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	29.6	14.8	32.2		03/17/12 02:54	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	45.7	6.9	32.2		03/17/12 02:54	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	11.8	6.0	32.2		03/17/12 02:54	123-91-1	
Ethanol	155	ug/m3	12.2	6.2	32.2		03/17/12 02:54	64-17-5	SS
Ethylbenzene	14.3J	ug/m3	28.3	3.8	32.2		03/17/12 02:54	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	70.8	35.4	32.2		03/17/12 02:54	87-68-3	
n-Hexane	ND	ug/m3	23.2	11.6	32.2		03/17/12 02:54	110-54-3	
Methylene Chloride	414	ug/m3	22.9	11.4	32.2		03/17/12 02:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	26.7	13.4	32.2		03/17/12 02:54	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	23.5	2.8	32.2		03/17/12 02:54	1634-04-4	
Styrene	ND	ug/m3	28.0	13.9	32.2		03/17/12 02:54	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	22.5	6.1	32.2		03/17/12 02:54	79-34-5	
Tetrachloroethene	2800	ug/m3	22.2	10.9	32.2		03/17/12 02:54	127-18-4	
Toluene	72.8	ug/m3	24.8	12.4	32.2		03/17/12 02:54	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	31.9	15.9	32.2		03/17/12 02:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	35.7	17.7	32.2		03/17/12 02:54	71-55-6	
Trichloroethene	16.2J	ug/m3	17.7	9.0	32.2		03/17/12 02:54	79-01-6	
Trichlorofluoromethane	ND	ug/m3	36.7	7.1	32.2		03/17/12 02:54	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	51.5	25.8	32.2		03/17/12 02:54	76-13-1	

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ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo

Pace Project No.: 10184975

Sample: SG-120 Lab ID: 10184975014 Collected: 03/07/12 12:16 Received: 03/08/12 10:05 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
1,2,4-Trimethylbenzene	ND	ug/m3	32.2	16.1	32.2		03/17/12 02:54	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	32.2	4.2	32.2		03/17/12 02:54	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	30.6	3.2	32.2		03/17/12 02:54	540-84-1	
Vinyl chloride	ND	ug/m3	8.4	4.2	32.2		03/17/12 02:54	75-01-4	
m&p-Xylene	50.2J	ug/m3	56.7	28.3	32.2		03/17/12 02:54	179601-23-1	
o-Xylene	14.8J	ug/m3	28.3	4.1	32.2		03/17/12 02:54	95-47-6	

SG-120

ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo
Pace Project No.: 10184975

Sample: FD-03072012-2 Lab ID: 10184975010 Collected: 03/07/12 00:00 Received: 03/08/12 10:05 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	ND	ug/m3	10.1	5.0	31		03/16/12 23:30	71-43-2	
Benzyl chloride	ND	ug/m3	32.6	16.3	31		03/16/12 23:30	100-44-7	
Bromodichloromethane	ND	ug/m3	42.2	5.5	31		03/16/12 23:30	75-27-4	
Bromoform	ND	ug/m3	65.1	32.6	31		03/16/12 23:30	75-25-2	
Bromomethane	ND	ug/m3	24.5	5.6	31		03/16/12 23:30	74-83-9	
1,3-Butadiene	ND	ug/m3	14.0	7.0	31		03/16/12 23:30	106-99-0	
2-Butanone (MEK)	ND	ug/m3	18.6	4.8	31		03/16/12 23:30	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	28.6	1.6	31		03/16/12 23:30	75-65-0	
Carbon tetrachloride	ND	ug/m3	19.8	9.9	31		03/16/12 23:30	56-23-5	
Chlorobenzene	ND	ug/m3	29.1	14.6	31		03/16/12 23:30	108-90-7	
Chloroethane	ND	ug/m3	16.7	8.4	31		03/16/12 23:30	75-00-3	
Chloroform	ND	ug/m3	30.7	15.4	31		03/16/12 23:30	67-66-3	
Chloromethane	ND	ug/m3	13.0	6.5	31		03/16/12 23:30	74-87-3	
Cyclohexane	ND	ug/m3	21.1	11.2	31		03/16/12 23:30	110-82-7	
Dibromochloromethane	ND	ug/m3	53.6	26.8	31		03/16/12 23:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	48.4	24.2	31		03/16/12 23:30	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	37.8	18.9	31		03/16/12 23:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	37.8	18.9	31		03/16/12 23:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	37.8	18.9	31		03/16/12 23:30	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	31.3	15.7	31		03/16/12 23:30	75-71-8	
1,1-Dichloroethane	ND	ug/m3	25.4	12.7	31		03/16/12 23:30	75-34-3	
1,2-Dichloroethane	ND	ug/m3	12.7	6.5	31		03/16/12 23:30	107-06-2	
1,1-Dichloroethene	ND	ug/m3	25.1	12.5	31		03/16/12 23:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	25.1	4.7	31		03/16/12 23:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	25.1	12.6	31		03/16/12 23:30	156-60-5	
1,2-Dichloropropane	ND	ug/m3	29.1	14.6	31		03/16/12 23:30	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	28.5	3.4	31		03/16/12 23:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	28.5	14.3	31		03/16/12 23:30	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	44.0	6.6	31		03/16/12 23:30	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	11.3	5.7	31		03/16/12 23:30	123-91-1	
Ethanol	98.1	ug/m3	11.8	6.0	31		03/16/12 23:30	64-17-5	SS
Ethylbenzene	15.4J	ug/m3	27.3	3.7	31		03/16/12 23:30	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	68.2	34.1	31		03/16/12 23:30	87-68-3	
n-Hexane	ND	ug/m3	22.3	11.2	31		03/16/12 23:30	110-54-3	
Methylene Chloride	472	ug/m3	22.0	10.9	31		03/16/12 23:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	25.7	12.9	31		03/16/12 23:30	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	22.6	2.7	31		03/16/12 23:30	1634-04-4	
Styrene	ND	ug/m3	27.0	13.4	31		03/16/12 23:30	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	21.6	5.8	31		03/16/12 23:30	79-34-5	
Tetrachloroethene	3070	ug/m3	21.4	10.5	31		03/16/12 23:30	127-18-4	
Toluene	70.5	ug/m3	23.9	11.9	31		03/16/12 23:30	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	30.7	15.3	31		03/16/12 23:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	34.4	17.0	31		03/16/12 23:30	71-55-6	
Trichloroethene	ND	ug/m3	17.0	8.7	31		03/16/12 23:30	79-01-6	
Trichlorofluoromethane	ND	ug/m3	35.3	6.9	31		03/16/12 23:30	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	49.6	24.8	31		03/16/12 23:30	76-13-1	

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SG-120

ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo
Pace Project No.: 10184975

Sample: FD-03072012-2 Lab ID: 10184975010 Collected: 03/07/12 00:00 Received: 03/08/12 10:05 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
1,2,4-Trimethylbenzene	ND	ug/m3	31.0	15.5	31		03/16/12 23:30	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	31.0	4.0	31		03/16/12 23:30	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	29.4	3.1	31		03/16/12 23:30	540-84-1	
Vinyl chloride	ND	ug/m3	8.1	4.0	31		03/16/12 23:30	75-01-4	
m&p-Xylene	59.3	ug/m3	54.6	27.3	31		03/16/12 23:30	179601-23-1	
o-Xylene	18.0J	ug/m3	27.3	4.0	31		03/16/12 23:30	95-47-6	

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5/16/12

ANALYTICAL RESULTS

Project: 11176390.00002 Klink Cosmo
Pace Project No.: 10184652

Sample: SG-121 Lab ID: 10184652007 Collected: 03/05/12 11:50 Received: 03/06/12 10:08 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	40.3	ug/m3	2.5	1.2	7.75		03/16/12 02:03	71-43-2	
Benzyl chloride	ND	ug/m3	8.1	4.1	7.75		03/16/12 02:03	100-44-7	
Bromodichloromethane	ND	ug/m3	10.5	1.4	7.75		03/16/12 02:03	75-27-4	
Bromoform	ND	ug/m3	16.3	8.1	7.75		03/16/12 02:03	75-25-2	
Bromomethane	ND	ug/m3	6.1	1.4	7.75		03/16/12 02:03	74-83-9	
1,3-Butadiene	ND	ug/m3	3.5	1.7	7.75		03/16/12 02:03	106-99-0	
2-Butanone (MEK)	18.6	ug/m3	4.6	1.2	7.75		03/16/12 02:03	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	7.2	0.41	7.75		03/16/12 02:03	75-65-0	
Carbon tetrachloride	ND	ug/m3	5.0	2.5	7.75		03/16/12 02:03	56-23-5	
Chlorobenzene	ND	ug/m3	7.3	3.6	7.75		03/16/12 02:03	108-90-7	
Chloroethane	ND	ug/m3	4.2	2.1	7.75		03/16/12 02:03	75-00-3	
Chloroform	ND	ug/m3	7.7	3.9	7.75		03/16/12 02:03	67-66-3	
Chloromethane	ND	ug/m3	3.3	1.6	7.75		03/16/12 02:03	74-87-3	
Cyclohexane	35.9	ug/m3	5.3	2.8	7.75		03/16/12 02:03	110-82-7	
Dibromochloromethane	ND	ug/m3	13.4	6.7	7.75		03/16/12 02:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	12.1	6.0	7.75		03/16/12 02:03	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	9.5	4.7	7.75		03/16/12 02:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	9.5	4.7	7.75		03/16/12 02:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	9.5	4.7	7.75		03/16/12 02:03	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	7.8	3.9	7.75		03/16/12 02:03	75-71-8	
1,1-Dichloroethane	ND	ug/m3	6.4	3.2	7.75		03/16/12 02:03	75-34-3	
1,2-Dichloroethane	ND	ug/m3	3.2	1.6	7.75		03/16/12 02:03	107-06-2	
1,1-Dichloroethene	ND	ug/m3	6.3	3.1	7.75		03/16/12 02:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	6.3	1.2	7.75		03/16/12 02:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	6.3	3.1	7.75		03/16/12 02:03	156-60-5	
1,2-Dichloropropane	ND	ug/m3	7.3	3.6	7.75		03/16/12 02:03	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	7.1	0.86	7.75		03/16/12 02:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	7.1	3.6	7.75		03/16/12 02:03	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	11.0	1.7	7.75		03/16/12 02:03	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	2.8	1.4	7.75		03/16/12 02:03	123-91-1	
Ethanol	331	ug/m3	2.9	1.5	7.75		03/16/12 02:03	64-17-5	SS
Ethylbenzene	53.7	ug/m3	6.8	0.92	7.75		03/16/12 02:03	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	17.0	8.5	7.75		03/16/12 02:03	87-68-3	
n-Hexane	52.9	ug/m3	5.6	2.8	7.75		03/16/12 02:03	110-54-3	
Methylene Chloride	157	ug/m3	5.5	2.7	7.75		03/16/12 02:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	6.4	3.2	7.75		03/16/12 02:03	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.7	0.68	7.75		03/16/12 02:03	1634-04-4	
Styrene	ND	ug/m3	6.7	3.4	7.75		03/16/12 02:03	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.4	1.5	7.75		03/16/12 02:03	79-34-5	
Tetrachloroethene	225	ug/m3	5.3	2.6	7.75		03/16/12 02:03	127-18-4	
Toluene	423	ug/m3	6.0	3.0	7.75		03/16/12 02:03	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	7.7	3.8	7.75		03/16/12 02:03	120-82-1	
1,1,1-Trichloroethane	10.7	ug/m3	8.6	4.3	7.75		03/16/12 02:03	71-55-6	
Trichloroethene	ND	ug/m3	4.3	2.2	7.75		03/16/12 02:03	79-01-6	
Trichlorofluoromethane	ND	ug/m3	8.8	1.7	7.75		03/16/12 02:03	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	12.4	6.2	7.75		03/16/12 02:03	76-13-1	

ANALYTICAL RESULTS

Project: 11176390.00002 Klink Cosmo

Pace Project No.: 10184652

Sample: SG-121		Lab ID: 10184652007		Collected: 03/05/12 11:50		Received: 03/06/12 10:08		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
1,2,4-Trimethylbenzene	18.1	ug/m3	7.7	3.9	7.75		03/16/12 02:03	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	7.7	1.0	7.75		03/16/12 02:03	108-67-8	
2,2,4-Trimethylpentane	20.7	ug/m3	7.4	0.78	7.75		03/16/12 02:03	540-84-1	
Vinyl chloride	ND	ug/m3	2.0	1.0	7.75		03/16/12 02:03	75-01-4	
m&p-Xylene	201	ug/m3	13.6	6.8	7.75		03/16/12 02:03	179601-23-1	
o-Xylene	57.4	ug/m3	6.8	0.99	7.75		03/16/12 02:03	95-47-6	

ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo
Pace Project No.: 10184975

Sample: SG-122 Lab ID: 10184975016 Collected: 03/07/12 13:03 Received: 03/08/12 10:05 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	16.8	ug/m3	0.52	0.26	1.61		03/19/12 18:52	71-43-2	
Benzyl chloride	ND	ug/m3	1.7	0.85	1.61		03/19/12 18:52	100-44-7	
Bromodichloromethane	ND	ug/m3	2.2	0.28	1.61		03/19/12 18:52	75-27-4	
Bromoform	ND	ug/m3	3.4	1.7	1.61		03/19/12 18:52	75-25-2	
Bromomethane	ND	ug/m3	1.3	0.29	1.61		03/19/12 18:52	74-83-9	
1,3-Butadiene	ND	ug/m3	0.72	0.36	1.61		03/19/12 18:52	106-99-0	
2-Butanone (MEK)	15.4	ug/m3	0.97	0.25	1.61		03/19/12 18:52	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	1.5	0.085	1.61		03/19/12 18:52	75-65-0	
Carbon tetrachloride	ND	ug/m3	1.0	0.52	1.61		03/19/12 18:52	56-23-5	
Chlorobenzene	ND	ug/m3	1.5	0.76	1.61		03/19/12 18:52	108-90-7	
Chloroethane	ND	ug/m3	0.87	0.43	1.61		03/19/12 18:52	75-00-3	
Chloroform	ND	ug/m3	1.6	0.80	1.61		03/19/12 18:52	67-66-3	
Chloromethane	ND	ug/m3	0.68	0.34	1.61		03/19/12 18:52	74-87-3	
Cyclohexane	22.1	ug/m3	1.1	0.58	1.61		03/19/12 18:52	110-82-7	
Dibromochloromethane	ND	ug/m3	2.8	1.4	1.61		03/19/12 18:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.5	1.3	1.61		03/19/12 18:52	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	2.0	0.98	1.61		03/19/12 18:52	95-50-1	
1,3-Dichlorobenzene	50.1	ug/m3	2.0	0.98	1.61		03/19/12 18:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	2.0	0.98	1.61		03/19/12 18:52	106-46-7	
Dichlorodifluoromethane	1.4J	ug/m3	1.6	0.81	1.61		03/19/12 18:52	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.3	0.66	1.61		03/19/12 18:52	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.66	0.34	1.61		03/19/12 18:52	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.3	0.65	1.61		03/19/12 18:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.3	0.25	1.61		03/19/12 18:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.3	0.65	1.61		03/19/12 18:52	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.5	0.76	1.61		03/19/12 18:52	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.5	0.18	1.61		03/19/12 18:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.5	0.74	1.61		03/19/12 18:52	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.3	0.34	1.61		03/19/12 18:52	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	0.59	0.30	1.61		03/19/12 18:52	123-91-1	
Ethanol	570	ug/m3	0.61	0.31	1.61		03/19/12 18:52	64-17-5	E,SS
Ethylbenzene	47.1	ug/m3	1.4	0.19	1.61		03/19/12 18:52	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	3.5	1.8	1.61		03/19/12 18:52	87-68-3	
n-Hexane	16.8	ug/m3	1.2	0.58	1.61		03/19/12 18:52	110-54-3	
Methylene Chloride	224	ug/m3	1.1	0.57	1.61		03/19/12 18:52	75-09-2	C0,E
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.3	0.67	1.61		03/19/12 18:52	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.2	0.14	1.61		03/19/12 18:52	1634-04-4	
Styrene	1.4J	ug/m3	1.4	0.70	1.61		03/19/12 18:52	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.1	0.30	1.61		03/19/12 18:52	79-34-5	
Tetrachloroethene	66.6	ug/m3	1.1	0.55	1.61		03/19/12 18:52	127-18-4	
Toluene	148	ug/m3	1.2	0.62	1.61		03/19/12 18:52	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1.6	0.80	1.61		03/19/12 18:52	120-82-1	
1,1,1-Trichloroethane	1.4J	ug/m3	1.8	0.89	1.61		03/19/12 18:52	71-55-6	
Trichloroethene	0.60J	ug/m3	0.89	0.45	1.61		03/19/12 18:52	79-01-6	
Trichlorofluoromethane	0.54J	ug/m3	1.8	0.36	1.61		03/19/12 18:52	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.6	1.3	1.61		03/19/12 18:52	76-13-1	

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ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo

Pace Project No.: 10184975

Sample: SG-122		Lab ID: 10184975016		Collected: 03/07/12 13:03		Received: 03/08/12 10:05		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
1,2,4-Trimethylbenzene	51.5	ug/m3	1.6	0.80	1.61		03/19/12 18:52	95-63-6	
1,3,5-Trimethylbenzene	10.0	ug/m3	1.6	0.21	1.61		03/19/12 18:52	108-67-8	
2,2,4-Trimethylpentane	21.8	ug/m3	1.5	0.16	1.61		03/19/12 18:52	540-84-1	
Vinyl chloride	ND	ug/m3	0.42	0.21	1.61		03/19/12 18:52	75-01-4	
m&p-Xylene	159	ug/m3	2.8	1.4	1.61		03/19/12 18:52	179601-23-1	
o-Xylene	62.7	ug/m3	1.4	0.21	1.61		03/19/12 18:52	95-47-6	

ANALYTICAL RESULTS

Project: 11176390.00002 Klink Cosmo
Pace Project No.: 10184652

Sample: AA-03052012-1 Lab ID: 10184652012 Collected: 03/05/12 14:22 Received: 03/06/12 10:08 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	1.7	ug/m3	0.48	0.24	1.49		03/14/12 21:20	71-43-2	
Benzyl chloride	ND	ug/m3	1.6	0.78	1.49		03/14/12 21:20	100-44-7	
Bromodichloromethane	ND	ug/m3	2.0	0.26	1.49		03/14/12 21:20	75-27-4	
Bromoform	ND	ug/m3	3.1	1.6	1.49		03/14/12 21:20	75-25-2	
Bromomethane	ND	ug/m3	1.2	0.27	1.49		03/14/12 21:20	74-83-9	
1,3-Butadiene	ND	ug/m3	0.67	0.34	1.49		03/14/12 21:20	106-99-0	
2-Butanone (MEK)	2.3	ug/m3	0.89	0.23	1.49		03/14/12 21:20	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	1.4	0.079	1.49		03/14/12 21:20	75-65-0	
Carbon tetrachloride	ND	ug/m3	0.95	0.48	1.49		03/14/12 21:20	56-23-5	
Chlorobenzene	ND	ug/m3	1.4	0.70	1.49		03/14/12 21:20	108-90-7	
Chloroethane	ND	ug/m3	0.80	0.40	1.49		03/14/12 21:20	75-00-3	
Chloroform	ND	ug/m3	1.5	0.74	1.49		03/14/12 21:20	67-66-3	
Chloromethane	ND	ug/m3	0.63	0.31	1.49		03/14/12 21:20	74-87-3	
Cyclohexane	3.4	ug/m3	1.0	0.54	1.49		03/14/12 21:20	110-82-7	
Dibromochloromethane	ND	ug/m3	2.6	1.3	1.49		03/14/12 21:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.3	1.2	1.49		03/14/12 21:20	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.8	0.91	1.49		03/14/12 21:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.8	0.91	1.49		03/14/12 21:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.8	0.91	1.49		03/14/12 21:20	106-46-7	
Dichlorodifluoromethane	1.5J	ug/m3	1.5	0.75	1.49		03/14/12 21:20	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.2	0.61	1.49		03/14/12 21:20	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.61	0.31	1.49		03/14/12 21:20	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	0.60	1.49		03/14/12 21:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	0.23	1.49		03/14/12 21:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	0.60	1.49		03/14/12 21:20	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.4	0.70	1.49		03/14/12 21:20	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.4	0.17	1.49		03/14/12 21:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.4	0.69	1.49		03/14/12 21:20	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.1	0.32	1.49		03/14/12 21:20	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	0.55	0.28	1.49		03/14/12 21:20	123-91-1	
Ethanol	10	ug/m3	0.57	0.29	1.49		03/14/12 21:20	64-17-5	SS
Ethylbenzene	0.58J	ug/m3	1.3	0.18	1.49		03/14/12 21:20	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	3.3	1.6	1.49		03/14/12 21:20	87-68-3	
n-Hexane	6.2	ug/m3	1.1	0.54	1.49		03/14/12 21:20	110-54-3	
Methylene Chloride	1.5	ug/m3	1.1	0.53	1.49		03/14/12 21:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.2	0.62	1.49		03/14/12 21:20	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.1	0.13	1.49		03/14/12 21:20	1634-04-4	
Styrene	ND	ug/m3	1.3	0.65	1.49		03/14/12 21:20	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.0	0.28	1.49		03/14/12 21:20	79-34-5	
Tetrachloroethene	0.68J	ug/m3	1.0	0.51	1.49		03/14/12 21:20	127-18-4	
Toluene	7.3	ug/m3	1.1	0.57	1.49		03/14/12 21:20	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1.5	0.74	1.49		03/14/12 21:20	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.7	0.82	1.49		03/14/12 21:20	71-55-6	
Trichloroethene	ND	ug/m3	0.82	0.42	1.49		03/14/12 21:20	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.7	0.33	1.49		03/14/12 21:20	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.4	1.2	1.49		03/14/12 21:20	76-13-1	

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ANALYTICAL RESULTS

Project: 11176390.00002 Klink Cosmo

Pace Project No.: 10184652

Sample: AA-03052012-1 Lab ID: 10184652012 Collected: 03/05/12 14:22 Received: 03/06/12 10:08 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
1,2,4-Trimethylbenzene	ND	ug/m3	1.5	0.74	1.49		03/14/12 21:20	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.5	0.19	1.49		03/14/12 21:20	108-67-8	
2,2,4-Trimethylpentane	2.6	ug/m3	1.4	0.15	1.49		03/14/12 21:20	540-84-1	
Vinyl chloride	ND	ug/m3	0.39	0.19	1.49		03/14/12 21:20	75-01-4	
m&p-Xylene	2.0J	ug/m3	2.6	1.3	1.49		03/14/12 21:20	179601-23-1	
o-Xylene	0.66J	ug/m3	1.3	0.19	1.49		03/14/12 21:20	95-47-6	

ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo
Pace Project No.: 10184830

Sample: AA-03062012-1 Lab ID: 10184830015 Collected: 03/06/12 13:50 Received: 03/07/12 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	1.0	ug/m3	0.48	0.24	1.49		03/19/12 14:53	71-43-2	
Benzyl chloride	ND	ug/m3	1.6	0.78	1.49		03/19/12 14:53	100-44-7	
Bromodichloromethane	ND	ug/m3	2.0	0.26	1.49		03/19/12 14:53	75-27-4	
Bromoform	ND	ug/m3	3.1	1.6	1.49		03/19/12 14:53	75-25-2	
Bromomethane	ND	ug/m3	1.2	0.27	1.49		03/19/12 14:53	74-83-9	
1,3-Butadiene	ND	ug/m3	0.67	0.34	1.49		03/19/12 14:53	106-99-0	
2-Butanone (MEK)	4.2	ug/m3	0.89	0.23	1.49		03/19/12 14:53	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	1.4	0.079	1.49		03/19/12 14:53	75-65-0	
Carbon tetrachloride	ND	ug/m3	0.95	0.48	1.49		03/19/12 14:53	56-23-5	
Chlorobenzene	ND	ug/m3	1.4	0.70	1.49		03/19/12 14:53	108-90-7	
Chloroethane	ND	ug/m3	0.80	0.40	1.49		03/19/12 14:53	75-00-3	
Chloroform	ND	ug/m3	1.5	0.74	1.49		03/19/12 14:53	67-66-3	
Chloromethane	ND	ug/m3	0.63	0.31	1.49		03/19/12 14:53	74-87-3	
Cyclohexane	ND	ug/m3	1.0	0.54	1.49		03/19/12 14:53	110-82-7	
Dibromochloromethane	ND	ug/m3	2.6	1.3	1.49		03/19/12 14:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.3	1.2	1.49		03/19/12 14:53	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.8	0.91	1.49		03/19/12 14:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.8	0.91	1.49		03/19/12 14:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.8	0.91	1.49		03/19/12 14:53	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.5	0.75	1.49		03/19/12 14:53	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.2	0.61	1.49		03/19/12 14:53	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.61	0.31	1.49		03/19/12 14:53	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	0.60	1.49		03/19/12 14:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	0.23	1.49		03/19/12 14:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	0.60	1.49		03/19/12 14:53	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.4	0.70	1.49		03/19/12 14:53	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.4	0.17	1.49		03/19/12 14:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.4	0.69	1.49		03/19/12 14:53	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.1	0.32	1.49		03/19/12 14:53	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	0.55	0.28	1.49		03/19/12 14:53	123-91-1	
Ethanol	9.4	ug/m3	0.57	0.29	1.49		03/19/12 14:53	64-17-5	
Ethylbenzene	ND	ug/m3	1.3	0.18	1.49		03/19/12 14:53	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	3.3	1.6	1.49		03/19/12 14:53	87-68-3	
n-Hexane	ND	ug/m3	1.1	0.54	1.49		03/19/12 14:53	110-54-3	
Methylene Chloride	1.5	ug/m3	1.1	0.53	1.49		03/19/12 14:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.2	0.62	1.49		03/19/12 14:53	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.1	0.13	1.49		03/19/12 14:53	1634-04-4	
Styrene	ND	ug/m3	1.3	0.65	1.49		03/19/12 14:53	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.0	0.28	1.49		03/19/12 14:53	79-34-5	
Tetrachloroethene	ND	ug/m3	1.0	0.51	1.49		03/19/12 14:53	127-18-4	
Toluene	21.9	ug/m3	1.1	0.57	1.49		03/19/12 14:53	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1.5	0.74	1.49		03/19/12 14:53	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.7	0.82	1.49		03/19/12 14:53	71-55-6	
Trichloroethene	ND	ug/m3	0.82	0.42	1.49		03/19/12 14:53	79-01-6	
Trichlorofluoromethane	1.0J	ug/m3	1.7	0.33	1.49		03/19/12 14:53	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.4	1.2	1.49		03/19/12 14:53	76-13-1	

ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo

Pace Project No.: 10184830

Sample: AA-03062012-1 Lab ID: 10184830015 Collected: 03/06/12 13:50 Received: 03/07/12 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
1,2,4-Trimethylbenzene	2.5	ug/m3	1.5	0.74	1.49		03/19/12 14:53	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.5	0.19	1.49		03/19/12 14:53	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	1.4	0.15	1.49		03/19/12 14:53	540-84-1	
Vinyl chloride	ND	ug/m3	0.39	0.19	1.49		03/19/12 14:53	75-01-4	
m&p-Xylene	ND	ug/m3	2.6	1.3	1.49		03/19/12 14:53	179601-23-1	
o-Xylene	4.0	ug/m3	1.3	0.19	1.49		03/19/12 14:53	95-47-6	

ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo
Pace Project No.: 10184975

Sample: AA-03072012-1 Lab ID: 10184975011 Collected: 03/07/12 09:56 Received: 03/08/12 10:05 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	1.3	ug/m3	0.50	0.25	1.55		03/19/12 13:42	71-43-2	
Benzyl chloride	ND	ug/m3	1.6	0.81	1.55		03/19/12 13:42	100-44-7	
Bromodichloromethane	ND	ug/m3	2.1	0.27	1.55		03/19/12 13:42	75-27-4	
Bromoform	ND	ug/m3	3.3	1.6	1.55		03/19/12 13:42	75-25-2	
Bromomethane	ND	ug/m3	1.2	0.28	1.55		03/19/12 13:42	74-83-9	
1,3-Butadiene	ND	ug/m3	0.70	0.35	1.55		03/19/12 13:42	106-99-0	
2-Butanone (MEK)	2.0	ug/m3	0.93	0.24	1.55		03/19/12 13:42	78-93-3	
tert-Butyl Alcohol	ND	ug/m3	1.4	0.082	1.55		03/19/12 13:42	75-65-0	
Carbon tetrachloride	ND	ug/m3	0.99	0.50	1.55		03/19/12 13:42	56-23-5	
Chlorobenzene	ND	ug/m3	1.5	0.73	1.55		03/19/12 13:42	108-90-7	
Chloroethane	ND	ug/m3	0.84	0.42	1.55		03/19/12 13:42	75-00-3	
Chloroform	ND	ug/m3	1.5	0.77	1.55		03/19/12 13:42	67-66-3	
Chloromethane	ND	ug/m3	0.65	0.33	1.55		03/19/12 13:42	74-87-3	
Cyclohexane	1.2	ug/m3	1.1	0.56	1.55		03/19/12 13:42	110-82-7	
Dibromochloromethane	ND	ug/m3	2.7	1.3	1.55		03/19/12 13:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.4	1.2	1.55		03/19/12 13:42	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.9	0.95	1.55		03/19/12 13:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.9	0.95	1.55		03/19/12 13:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.9	0.95	1.55		03/19/12 13:42	106-46-7	
Dichlorodifluoromethane	2.0	ug/m3	1.6	0.78	1.55		03/19/12 13:42	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.3	0.64	1.55		03/19/12 13:42	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.64	0.33	1.55		03/19/12 13:42	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.3	0.62	1.55		03/19/12 13:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.3	0.24	1.55		03/19/12 13:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.3	0.63	1.55		03/19/12 13:42	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.5	0.73	1.55		03/19/12 13:42	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.4	0.17	1.55		03/19/12 13:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.4	0.71	1.55		03/19/12 13:42	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.2	0.33	1.55		03/19/12 13:42	76-14-2	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	0.57	0.29	1.55		03/19/12 13:42	123-91-1	
Ethanol	16.0	ug/m3	0.59	0.30	1.55		03/19/12 13:42	64-17-5	SS
Ethylbenzene	1.8	ug/m3	1.4	0.18	1.55		03/19/12 13:42	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	3.4	1.7	1.55		03/19/12 13:42	87-68-3	
n-Hexane	2.6	ug/m3	1.1	0.56	1.55		03/19/12 13:42	110-54-3	
Methylene Chloride	2.0	ug/m3	1.1	0.55	1.55		03/19/12 13:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.3	0.64	1.55		03/19/12 13:42	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.1	0.14	1.55		03/19/12 13:42	1634-04-4	
Styrene	ND	ug/m3	1.3	0.67	1.55		03/19/12 13:42	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.1	0.29	1.55		03/19/12 13:42	79-34-5	
Tetrachloroethene	1.9	ug/m3	1.1	0.53	1.55		03/19/12 13:42	127-18-4	
Toluene	15.1	ug/m3	1.2	0.60	1.55		03/19/12 13:42	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1.5	0.77	1.55		03/19/12 13:42	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.7	0.85	1.55		03/19/12 13:42	71-55-6	
Trichloroethene	ND	ug/m3	0.85	0.43	1.55		03/19/12 13:42	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.8	0.34	1.55		03/19/12 13:42	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.5	1.2	1.55		03/19/12 13:42	76-13-1	

Date: 03/21/2012 05:07 PM

REPORT OF LABORATORY ANALYSIS

Page 25 of 51

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[Handwritten signature]
03/21/12

ANALYTICAL RESULTS

Project: 11176390 Klink Cosmo
Pace Project No.: 10184975

Sample: AA-03072012-1		Lab ID: 10184975011		Collected: 03/07/12 09:56		Received: 03/08/12 10:05		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
1,2,4-Trimethylbenzene	1.6	ug/m3	1.5	0.78	1.55		03/19/12 13:42	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.5	0.20	1.55		03/19/12 13:42	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	1.5	0.16	1.55		03/19/12 13:42	540-84-1	
Vinyl chloride	ND	ug/m3	0.40	0.20	1.55		03/19/12 13:42	75-01-4	
m&p-Xylene	8.2	ug/m3	2.7	1.4	1.55		03/19/12 13:42	179601-23-1	
o-Xylene	2.6	ug/m3	1.4	0.20	1.55		03/19/12 13:42	95-47-6	

ATTACHMENT B

SUPPORT DOCUMENTATION

10184652

AIR SAMPLE CHAIN OF CUSTODY RECORD

URS CORPORATION
77 GOODELL STREET
BUFFALO, NY 14203
PHONE: 716-856-5636

URS CONTACT: GROGAN KISLOK

PROJECT NUMBER <u>11176390-00002</u>		SITE NAME <u>Kentwood</u>		SAMPLE INFORMATION					LAB <u>PACB</u>		
SAMPLERS (PRINT/SIGNATURE) <u>Mira Abdelaziz</u>				REQUIRED ANALYSIS					SHIPPING CONTAINER <u>1</u> of <u>4</u>		
DELIVERY SERVICE: <u>FED EX</u> AIRBILL NO.: <u>89926052 9135</u>				CANISTER ID					PAGE <u>1</u> of <u>2</u>		
LOCATION IDENTIFIER	SAMPLE DATE	SAMPLE TIME	SAMPLE ID	MATRIX CODE	CANISTER SIZE (LITERS)	FLOW CONTROLLER ID	INITIAL PRESSURE/VACUUM (Hg)	FINAL PRESSURE/VACUUM (Hg)	LAB RECEIPT (Hg)	REMARKS	SAMPLE TYPE CODE
	3/5/12	0924	SG-048	G5	6L	0946	-30-4	-30-4	X	10184652001	
	3/5/12	0945	SG-114	G5	6L	1662	-30-5	-30-5	X	002	
	3/5/12	0950	SG-116	G5	6L	0852	-28-5	-28-5	X	003	
	3/5/12	1003	SG-117	G5	6L	735	-30-5	-30-5	X	004	
	3/5/12	1104	SG-060	G5	6L	1280	-29-4	-29-4	X	005	
	3/5/12	1130	SG-119	G5	6L	1572	-28-5	-28-5	X	006	
	3/5/12	1150	SG-121	G5	6L	1207	-28-5	-28-5	X	007	
	3/5/12	1201	SG-062	G5	6L	0049	-28-4	-28-4	X	008	
	3/5/12	1207	SG-118	G5	6L	1260	-30-4	-30-4	X	009	
	3/5/12	1230	SG-115	G5	6L	840	-28-4	-28-4	X	010	
	3/5/12	1306	SG-083	G5	6L	2016	-29-5	-29-5	X	011	
	3/5/12	1418	SG-082	G5	6L	819	-29-4	-29-4	X	012	
	3/5/12		FD-03052012-1	G5	6L	1258	-29-4	-29-4	X	013	

MATRIX CODES	AA - AMBIENT AIR	AI - INDOOR AIR	AO - FIELD QC	AS - SUB-SLAB AIR	GS - SOIL GAS
SAMPLE TYPE CODES	N# - NORMAL ENVIRONMENTAL SAMPLE	FD# - FIELD DUPLICATE	MS# - MATRIX SPIKE	# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)	
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
<u>[Signature]</u>	3-5-12	1600	<u>[Signature]</u>	3-6-12	1208
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	SPECIAL INSTRUCTIONS
<u>[Signature]</u>			<u>[Signature]</u>		T=AND
Distribution: Original accompanies shipment, copy to project file					

10184830

AIR SAMPLE CHAIN OF CUSTODY RECORD

URS CORPORATION
77 GOODELL STREET
BUFFALO, NY 14203
PHONE: 716-856-5636

URS CONTACT:

George Kiblok

PROJECT NUMBER 11176390		SITE NAME Klink Canal		SAMPLE INFORMATION										LAB					
SAMPLERS (PRINT/SIGNATURE) Mira Abdelkader Tim Itard		DELIVERY SERVICE: FEDEX		AIRBILL NO.: 8992665291746		SAMPLE ID		SAMPLE TIME		SAMPLE DATE		LOCATION IDENTIFIER		REQUIRED ANALYSIS		SHIPPING CONTAINER		PAGE	
Mira Abdelkader		Tim Itard		Mira Abdelkader		Tim Itard		Mira Abdelkader		Tim Itard		Mira Abdelkader		Tim Itard		Mira Abdelkader		Tim Itard	
Mira Abdelkader		Tim Itard		Mira Abdelkader		Tim Itard		Mira Abdelkader		Tim Itard		Mira Abdelkader		Tim Itard		Mira Abdelkader		Tim Itard	
1	✓ 3/6/12	0845	56-055	GS	6L	445	0283	-29	-4	10-15	X	10184830001	1	5					
2	✓ 3/6/12	0858	56-079	GS	6L	730	0167	-28	-4	X	002	2	5						
3	✓ 3/6/12	0915	56-047	GS	6L	839	0087	-29	-3	X	003	3	5						
4	✓ 3/6/12	0923	56-113	GS	6L	1516	0193	-30	-4	X	004	4	5						
5	✓ 3/6/12	1039	56-019	GS	6L	1583	0420	-28	-4	X	005	5	5						
6	✓ 3/5/12	—	FD-03052012-1	GS	6L	1258	—	-29	-4	X	006	6	5						
7	✓ 3/5/12	1418	56-082	GS	6L	819	0072	-29	-4	X	007	7	5						
8	✓ 3/6/12	—	FD-03062012-1	GS	6L	1561	—	-28	-4	X	008	8	5						
9	✓ 3/6/12	1104	56-026	GS	6L	872	0180	30	-5	X	009	9	5						
10	✓ 3/6/12	1135	56-021	GS	6L	521	0198	-26	-7	X	010	10	5						
11	✓ 3/6/12	1147	56-044	GS	6L	123	0422	-29	-4	X	011	11	5						
12	✓ 3/6/12	1226	56-045	GS	6L	1625	0184	30	-30	X	Don't analyze	012	12	5					
13	✓ 3/6/12	1405	56-048	GS	6L	1090	0188	-30	-7	X	013	13	5						

GS - SOIL GAS

AS - SUB-SLAB AIR

AQ - FIELD QC

AI - INDOOR AIR

AA - AMBIENT AIR

NR - NORMAL ENVIRONMENTAL SAMPLE
FD# - FIELD DUPLICATE
MS# - MATRIX SPIKE
(* - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)		DATE		TIME		RECEIVED BY (SIGNATURE)		DATE		TIME		SPECIAL INSTRUCTIONS	
Tim Itard		3/6/12		1:00		Mira Abdelkader		3/7/12		1:00		SG-045 Do not analyze No sample was taken into the container.	
RELINQUISHED BY (SIGNATURE)		DATE		TIME		RECEIVED FOR LAB BY (SIGNATURE)		DATE		TIME		T=AND	

Distribution: Original accompanies shipment, copy to project file

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical

Contract:

Lab Code: PASI

Case No.:

SAS No.:

SDG No.: 10184830

Lab File ID: 07825BFB.D

BFB Injection Date: 03/19/2012

Instrument ID: 10AIR7

BFB Injection Time: 15:51

GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	19.05
75	30.00 - 66.00% of mass 95	58.29
96	5.00 - 9.00% of mass 95	6.44
173	Less than 2.00% of mass 174	0.60 (0.56)
174	50.00 - 120.00% of mass 95	106.87
175	4.00 - 9.00% of mass 174	7.69 (7.20)
176	93.00 - 101.00% of mass 174	105.69 (98.90)
177	5.00 - 9.00% of mass 176	6.66 (6.30)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CCAL	CCAL	07901.D	03/19/2012	16:57
2	BLANK	BLANK	07903.D	03/19/2012	18:03
3	SG-047	10184830003	07906.D	03/19/2012	19:27
4	SG-082	10184830007	07908.D	03/19/2012	20:23
5	FD-03052012-1	10184830006	07910.D	03/19/2012	21:20
6	SG-042	10184830013	07927.D	03/20/2012	10:36

Pace Analytical Services

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10air7.i Injection Date: 19-MAR-2012 16:57
Lab File ID: 07901.D Init. Cal. Date(s): 18-MAR-2012 19-MAR-2012
Analysis Type: AIR Init. Cal. Times: 14:55 10:29
Lab Sample ID: CCAL Quant Type: ISTD
Method: \\192.168.10.12\chem\10air7.i\031912.b\TO15_078-12.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 Propylene	10.00000	11.98503	0.02869	0.010	19.85027	30.00000	Linear
2 Dichlorodifluoromethane	0.39305	0.32753	0.32753	0.010	-16.67125	30.00000	Averaged
3 Dichlorotetrafluoroethane	10.00000	10.40777	0.31002	0.010	4.07768	30.00000	Linear
4 Chloromethane	10.00000	10.29196	0.10246	0.010	2.91956	30.00000	Linear
5 Vinyl chloride	10.00000	10.23272	0.09638	0.010	2.32718	30.00000	Linear
6 1,3-Butadiene	10.00000	10.27921	0.06516	0.010	2.79206	30.00000	Linear
7 Bromomethane	0.12534	0.09884	0.09884	0.010	-21.14100	30.00000	Averaged
8 Chloroethane	0.04997	0.03919	0.03919	0.010	-21.56073	30.00000	Averaged
9 Ethanol	10.00000	7.96665	0.04993	0.005	-20.33355	30.00000	Linear
10 Vinyl Bromide	0.19614	0.14337	0.14337	0.010	-26.90188	30.00000	Averaged
11 Acrolein	10.00000	9.78731	0.03468	0.010	-2.12687	30.00000	Linear
12 Trichlorofluoromethane	0.69424	0.54442	0.54442	0.010	-21.58037	30.00000	Averaged
13 Acetone	10.00000	8.29025	0.21478	0.010	-17.09747	30.00000	Linear
14 Isopropyl Alcohol	0.18188	0.15803	0.15803	0.010	-13.11604	30.00000	Averaged
15 1,1-Dichloroethene	0.31934	0.25653	0.25653	0.010	-19.66860	30.00000	Averaged
16 Acrylonitrile	0.10462	0.07831	0.07831	0.010	-25.15008	30.00000	Averaged
17 Tert Butyl Alcohol (TBA)	10.00000	9.99946	0.19006	0.010	-0.00536	30.00000	Linear
18 Freon 113	0.42508	0.33387	0.33387	0.010	-21.45673	30.00000	Averaged
19 Methylene chloride	0.18580	0.14154	0.14154	0.010	-23.82181	30.00000	Averaged
20 Allyl Chloride	0.06667	0.05488	0.05488	0.010	-17.69255	30.00000	Averaged
21 Carbon Disulfide	0.33743	0.26045	0.26045	0.010	-22.81331	30.00000	Averaged
22 trans-1,2-dichloroethene	0.20700	0.16652	0.16652	0.010	-19.55492	30.00000	Averaged
23 Methyl Tert Butyl Ether	0.42190	0.32776	0.32776	0.010	-22.31307	30.00000	Averaged
24 Vinyl Acetate	0.37549	0.30346	0.30346	0.010	-19.18413	30.00000	Averaged
25 1,1-Dichloroethane	0.32858	0.25950	0.25950	0.010	-21.02246	30.00000	Averaged
26 Hexane-d14(S)	0.66040	0.62301	0.62301	0.010	-5.66107	30.00000	Averaged
27 Methyl Ethyl Ketone	0.07642	0.05757	0.05757	0.010	-24.66566	30.00000	Averaged
28 n-Hexane	10.00000	10.00911	0.13307	0.010	0.09115	30.00000	Linear
29 cis-1,2-Dichloroethene	0.11252	0.09694	0.09694	0.010	-13.84364	30.00000	Averaged
30 Ethyl Acetate	0.18630	0.15268	0.15268	0.010	-18.04440	30.00000	Averaged
31 Chloroform	0.34921	0.26610	0.26610	0.010	-23.79972	30.00000	Averaged
32 Tetrahydrofuran	10.00000	10.24427	0.06235	0.010	2.44275	30.00000	Linear
33 1,1,1-Trichloroethane	0.39555	0.31305	0.31305	0.010	-20.85671	30.00000	Averaged
34 1,2-Dichloroethane	0.27277	0.21956	0.21956	0.010	-19.50704	30.00000	Averaged
35 Benzene	10.00000	10.59322	0.26627	0.010	5.93224	30.00000	Linear
36 Carbon tetrachloride	0.50811	0.40982	0.40982	0.010	-19.34484	30.00000	Averaged
37 Cyclohexane	10.00000	10.68827	0.10292	0.010	6.88271	30.00000	Linear
39 2,2,4-Trimethylpentane	10.00000	10.50584	0.28749	0.010	5.05839	30.00000	Linear
40 Heptane	10.00000	10.50599	0.10468	0.010	5.05990	30.00000	Linear
41 1,2-Dichloropropane	0.09227	0.07806	0.07806	0.010	-15.39727	30.00000	Averaged
42 Trichloroethene	0.17691	0.15729	0.15729	0.010	-11.09227	30.00000	Averaged
43 Bromodichloromethane	0.35347	0.29910	0.29910	0.010	-15.38210	30.00000	Averaged
44 1,4-Dioxane	10.00000	10.54391	0.05279	0.010	5.43915	30.00000	Linear

Pace Analytical Services

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10air7.i Injection Date: 19-MAR-2012 16:57
Lab File ID: 07901.D Init. Cal. Date(s): 18-MAR-2012 19-MAR-2012
Analysis Type: AIR Init. Cal. Times: 14:55 10:29
Lab Sample ID: CCAL Quant Type: ISTD
Method: \\192.168.10.12\chem\10air7.i\031912.b\TO15_078-12.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
45 Methyl Isobutyl Ketone	10.00000	10.54360	0.14061	0.010	5.43605	30.00000	Linear
46 cis-1,3-Dichloropropene	0.17566	0.17455	0.17455	0.010	-0.63307	30.00000	Averaged
47 trans-1,3-Dichloropropene	10.00000	8.47413	0.15884	0.010	-15.25868	30.00000	Linear
48 Toluene-d8 (S)	0.79849	0.81231	0.81231	0.010	1.73111	30.00000	Averaged
49 Toluene	0.35123	0.33989	0.33989	0.010	-3.22965	30.00000	Averaged
50 1,1,2-Trichloroethane	0.13961	0.11586	0.11586	0.010	-17.01191	30.00000	Averaged
51 Methyl Butyl Ketone	10.00000	10.56457	0.21928	0.010	5.64575	30.00000	Linear
52 Dibromochloromethane	0.58334	0.50849	0.50849	0.010	-12.83014	30.00000	Averaged
53 1,2-Dibromoethane	0.37415	0.33727	0.33727	0.010	-9.85846	30.00000	Averaged
54 Tetrachloroethene	10.00000	10.94558	0.40232	0.010	9.45579	30.00000	Linear
56 Chlorobenzene	0.57258	0.47606	0.47606	0.010	-16.85710	30.00000	Averaged
57 Ethyl Benzene	10.00000	10.65582	0.73555	0.010	6.55821	30.00000	Linear
58 m&p-Xylene	0.65653	0.66819	0.66819	0.010	1.77606	30.00000	Averaged
59 2-Heptanone	10.00000	10.56096	0.29445	0.010	5.60962	30.00000	Linear
60 Bromoform	0.67463	0.61199	0.61199	0.010	-9.28467	30.00000	Averaged
61 Styrene	10.00000	10.52302	0.50410	0.010	5.23015	30.00000	Linear
62 o-Xylene	10.00000	8.16866	0.56230	0.010	-18.31337	30.00000	Linear
63 1,1,2,2-Tetrachloroethane	10.00000	10.90025	0.38167	0.010	9.00248	30.00000	Linear
64 Isopropylbenzene	1.11039	0.93461	0.93461	0.010	-15.83068	30.00000	Averaged
65 N-Propylbenzene	10.00000	10.46090	0.87434	0.010	4.60896	30.00000	Linear
66 4-Ethyltoluene	10.00000	10.57696	0.66161	0.010	5.76959	30.00000	Linear
67 1,3,5-Trimethylbenzene	10.00000	10.21717	0.70996	0.010	2.17173	30.00000	Linear
68 1,2,4-Trimethylbenzene	10.00000	10.34796	0.65160	0.010	3.47956	30.00000	Linear
69 1,3-Dichlorobenzene	10.00000	10.54629	0.55337	0.010	5.46290	30.00000	Linear
70 Sec- Butylbenzene	10.00000	10.23224	0.94666	0.010	2.32239	30.00000	Linear
71 1,4-dichlorobenzene-d4 (S)	0.63252	0.59377	0.59377	0.010	-6.12742	30.00000	Averaged
72 Benzyl Chloride	10.00000	10.28179	0.53355	0.010	2.81787	30.00000	Linear
73 1,4-Dichlorobenzene	10.00000	10.37849	0.54841	0.010	3.78493	30.00000	Linear
74 1,2-Dichlorobenzene	10.00000	10.70535	0.46164	0.010	7.05350	30.00000	Linear
75 N-Butylbenzene	10.00000	10.32380	0.63977	0.010	3.23797	30.00000	Linear
76 1,2,4-Trichlorobenzene	10.00000	3.23568	0.26586	0.010	-67.64321	30.00000	Linear<-
77 Naphthalene	10.00000	3.15319	0.38513	0.010	-68.46814	30.00000	Linear<-
78 Hexachlorobutadiene	10.00000	4.55308	0.31142	0.010	-54.46921	30.00000	Linear<-

Average %D / Drift Results.

Calculated Average %D/Drift = 13.56119

Maximun Average %D/Drift = 30.00000

* Passed Average %D/Drift Test.

AIR SAMPLE CHAIN OF CUSTODY RECORD

PROJECT NUMBER

1176390

SITE NAME

SAMPLERS (PRINT/SIGNATURE)

Mira Abdelaziz *Mira Abdelaziz*

DELIVERY SERVICE: AIRBILL NO.:

LOCATION IDENTIFIER

SAMPLE DATE

SAMPLE TIME

SAMPLE ID

MATRIX CODE

CANISTER SIZE (LITERS)

CANISTER ID

FLOW CONTROLLER ID

INITIAL PRESSURE/
VACUUM (Hg)

FINAL PRESSURE/
VACUUM (Hg)

PRESSURE/VACUUM UPON
LAB RECEIPT (Hg)

REQUIRED ANALYSIS

LAB

SHIPPING CONTAINER

PAGE 1 of 2

REMARKS

SAMPLE TYPE CODE

10184975001

002

003

004

005

006

007

008

009

010

011

012

013

GS - SOIL GAS

AS - SUB-SLAB AIR

AO - FIELD QC

AI - INDOOR AIR

AA - AMBIENT AIR

NP - NORMAL ENVIRONMENTAL SAMPLE

FD# - FIELD DUPLICATE

MS# - MATRIX SPIKE

(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)

DATE

TIME

RECEIVED BY (SIGNATURE)

DATE

TIME

RECEIVED FOR LAB BY (SIGNATURE)

DATE

TIME

SPECIAL INSTRUCTIONS

Cases & Hardware in Box

6 of 6

T = Amis

Distribution: Original accompanies shipment, copy to project file

10184975

AIR SAMPLE CHAIN OF CUSTODY RECORD

URS CORPORATION
77 GOODELL STREET
BUFFALO, NY 14203
PHONE: 716-856-5636

URS CONTACT: Scott McCabe

PROJECT NUMBER		SITE NAME		SAMPLE INFORMATION										LAB																					
SAMPLERS (PRINT/SIGNATURE)		AIRBILL NO.:		CANISTER ID		FLOW CONTROLLER ID		INITIAL PRESSURE/ VACUUM ("Hg)		FINAL PRESSURE/ VACUUM ("Hg)		PRESSURE/VACUUM UPON LAB RECEIPT ("Hg)		REQUIRED ANALYSIS		SHIPPING CONTAINER		PAGE		of															
Mira Abdelaziz		Mira Abdelaziz		CANISTER ID		FLOW CONTROLLER ID		INITIAL PRESSURE/ VACUUM ("Hg)		FINAL PRESSURE/ VACUUM ("Hg)		PRESSURE/VACUUM UPON LAB RECEIPT ("Hg)		REQUIRED ANALYSIS		SHIPPING CONTAINER		PAGE		of															
DELIVERY SERVICE:		AIRBILL NO.:		CANISTER ID		FLOW CONTROLLER ID		INITIAL PRESSURE/ VACUUM ("Hg)		FINAL PRESSURE/ VACUUM ("Hg)		PRESSURE/VACUUM UPON LAB RECEIPT ("Hg)		REQUIRED ANALYSIS		SHIPPING CONTAINER		PAGE		of															
LOCATION IDENTIFIER		SAMPLE DATE		SAMPLE TIME		SAMPLE ID		CANISTER SIZE (LITERS)		MATRIX CODE		CANISTER ID		FLOW CONTROLLER ID		INITIAL PRESSURE/ VACUUM ("Hg)		FINAL PRESSURE/ VACUUM ("Hg)		PRESSURE/VACUUM UPON LAB RECEIPT ("Hg)		REQUIRED ANALYSIS		SHIPPING CONTAINER		PAGE		of							
3/7/12		1246		5G-120		✓ G56L		0858		0244		-30-4		X		10184975004		015		016		017		019		020		021		022		023		018	
3/7/12		1231		5G-061R		✓ G56L		595		0060		-30-2		X																					
3/7/12		1303		5G-122		✓ G56L		1502		0059		-30-5		X																					
3/7/12		1327		5G-063		✓ G56L		1235		0243		-28-4		X																					
								732		Do not analyze																									
								1237		Do not analyze																									
								855		Do not analyze																									
								1762		Do not analyze																									
								1188		Do not analyze																									
								1587		Do not analyze																									

Distribution: Original accompanies shipment, copy to project file

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical

Contract:

Lab Code: PASI

Case No.:

SAS No.:

SDG No.: 10184975

Lab File ID: 07601BFB.D

BFB Injection Date: 03/16/2012

Instrument ID: 10AIR0

BFB Injection Time: 11:03

GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	15.02
75	30.00 - 66.00% of mass 95	55.98
96	5.00 - 9.00% of mass 95	6.72
173	Less than 2.00% of mass 174	0.44 (0.48)
174	50.00 - 120.00% of mass 95	90.43
175	4.00 - 9.00% of mass 174	7.39 (8.17)
176	93.00 - 101.00% of mass 174	88.59 (97.96)
177	5.00 - 9.00% of mass 176	5.83 (6.58)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	LCS for HBN 200983 [AIR/	1156083	07602ALLB.D	03/16/2012	11:32
2	CCAL	CCAL	07602.D	03/16/2012	11:32
3	BLANK for HBN 200983 [AI	1156082	07604ALLB.D	03/16/2012	12:51
4	BLANK (BLK)	BLANK	07604B.D	03/16/2012	12:51
5	CANCERT	CANCERT	07604.D	03/16/2012	12:51
6	Trip Blank (1249)(1154336	1157383-DUP	07609.D	03/16/2012	19:09
7	SG-063	10184975017	07611.D	03/16/2012	20:07
8	SG-056	10184975002	07613.D	03/16/2012	21:05
9	SG-087	10184975012	07614.D	03/16/2012	21:34
10	SG-086	10184975008	07615.D	03/16/2012	22:03
11	FD-03072012-2	10184975010	07618.D	03/16/2012	23:30
12	FD-03072012-1	10184975009	07619.D	03/17/2012	00:00
13	SG-058	10184975006	07620.D	03/17/2012	00:29
14	SG-049	10184975004	07622.D	03/17/2012	01:27
15	SG-084	10184975005	07624.D	03/17/2012	02:25
16	SG-120	10184975014	07625.D	03/17/2012	02:54
17	SG-112	10184975003	07627.D	03/17/2012	03:52

Pace Analytical Services

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10air0.i Injection Date: 16-MAR-2012 11:32
Lab File ID: 07602.D Init. Cal. Date(s): 14-MAR-2012 14-MAR-2012
Analysis Type: AIR Init. Cal. Times: 10:41 13:35
Lab Sample ID: CCAL Quant Type: ISTD
Method: \\192.168.10.12\chem\10air0.i\031612.b\TO15_074-12.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
44 Methyl Isobutyl Ketone	0.30482	0.34301	0.34301	0.010	12.52865	30.00000	Averaged
45 cis-1,3-Dichloropropene	0.49417	0.53140	0.53140	0.010	7.53435	30.00000	Averaged
46 trans-1,3-Dichloropropene	0.40711	0.49481	0.49481	0.010	21.54268	30.00000	Averaged
47 Toluene-d8 (S)	0.83833	0.83992	0.83992	0.010	0.18985	30.00000	Averaged
48 Toluene	0.93797	0.91850	0.91850	0.010	-2.07586	30.00000	Averaged
49 1,1,2-Trichloroethane	0.34657	0.33139	0.33139	0.010	-4.38063	30.00000	Averaged
50 Methyl Butyl Ketone	0.45401	0.50471	0.50471	0.010	11.16845	30.00000	Averaged
51 Dibromochloromethane	1.00549	1.05729	1.05729	0.010	5.15231	30.00000	Averaged
52 1,2-Dibromoethane	0.89329	0.90409	0.90409	0.010	1.20925	30.00000	Averaged
53 Tetrachloroethene	0.85568	0.83200	0.83200	0.010	-2.76725	30.00000	Averaged
55 Chlorobenzene	1.26692	1.21150	1.21150	0.010	-4.37434	30.00000	Averaged
56 Ethyl Benzene	1.80986	2.00684	2.00684	0.010	10.88373	30.00000	Averaged
57 m&p-Xylene	1.46592	1.54624	1.54624	0.010	5.47900	30.00000	Averaged
58 2-Heptanone	0.35155	0.42616	0.42616	0.010	21.22444	30.00000	Averaged
59 Bromoform	1.07006	1.15677	1.15677	0.010	8.10349	30.00000	Averaged
60 Styrene	1.13769	1.34440	1.34440	0.010	18.16909	30.00000	Averaged
61 o-Xylene	1.40322	1.52300	1.52300	0.010	8.53572	30.00000	Averaged
62 1,1,2,2-Tetrachloroethane	1.14201	1.11409	1.11409	0.010	-2.44475	30.00000	Averaged
63 Isopropylbenzene	2.10259	2.19672	2.19672	0.010	4.47679	30.00000	Averaged
64 N-Propylbenzene	2.08100	2.44163	2.44163	0.010	17.32989	30.00000	Averaged
65 4-Ethyltoluene	1.54241	1.88583	1.88583	0.010	22.26504	30.00000	Averaged
66 1,3,5-Trimethylbenzene	1.52759	1.39997	1.39997	0.010	-8.35421	30.00000	Averaged
67 1,2,4-Trimethylbenzene	1.34835	1.62973	1.62973	0.010	20.86866	30.00000	Averaged
68 1,3-Dichlorobenzene	1.12931	1.15433	1.15433	0.010	2.21585	30.00000	Averaged
69 Sec- Butylbenzene	2.01418	2.20409	2.20409	0.010	9.42844	30.00000	Averaged
70 1,4-dichlorobenzene-d4 (S)	0.55386	0.56053	0.56053	0.010	1.20319	30.00000	Averaged
71 Benzyl Chloride	1.11609	1.33951	1.33951	0.010	20.01784	30.00000	Averaged
72 1,4-Dichlorobenzene	1.20643	1.16927	1.16927	0.010	-3.07964	30.00000	Averaged
73 1,2-Dichlorobenzene	0.94033	1.12986	1.12986	0.010	20.15498	30.00000	Averaged
74 N-Butylbenzene	1.40582	1.83166	1.83166	0.010	30.29117	30.00000	Averaged<-
75 1,2,4-Trichlorobenzene	0.34200	0.66011	0.66011	0.010	93.01461	30.00000	Averaged<-
76 Naphthalene	0.54064	1.14420	1.14420	0.010	112	30.00000	Averaged<-
77 Hexachlorobutadiene	10.00000	29.00462	0.60647	0.010	190	30.00000	Linear<-

Average %D / Drift Results.
Calculated Average %D/Drift = 14.18927
Maximum Average %D/Drift = 30.00000
* Passed Average %D/Drift Test.

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical

Contract:

Lab Code: PASI

Case No.:

SAS No.:

SDG No.: 10184975

Lab File ID: 07808BFB.D

BFB Injection Date: 03/18/2012

Instrument ID: 10AIR0

BFB Injection Time: 17:33

GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	14.62
75	30.00 - 66.00% of mass 95	58.10
96	5.00 - 9.00% of mass 95	6.24
173	Less than 2.00% of mass 174	1.13 (1.27)
174	50.00 - 120.00% of mass 95	89.44
175	4.00 - 9.00% of mass 174	6.48 (7.25)
176	93.00 - 101.00% of mass 174	86.76 (97.01)
177	5.00 - 9.00% of mass 176	5.73 (6.60)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	LCS for HBN 201183 [AIR/	1157341	07809ALL.D	03/18/2012	18:02
2	CCAL	CCAL	07809.D	03/18/2012	18:02
3	BLANK for HBN 201183 [AI	1157340	07814ALL.D	03/19/2012	11:06
4	BLANK (BLK)	BLANK	07814B.D	03/19/2012	11:06
5	CANCERT	CANCERT	07814.D	03/19/2012	11:06
6	SG-085	10184975007	07817.D	03/19/2012	13:13
7	AA-03072012-1	10184975011	07818.D	03/19/2012	13:42

Report Date: 19-Mar-2012 08:15

Pace Analytical Services

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10air0.i Injection Date: 18-MAR-2012 18:02
 Lab File ID: 07809.D Init. Cal. Date(s): 14-MAR-2012 14-MAR-2012
 Analysis Type: AIR Init. Cal. Times: 10:41 13:35
 Lab Sample ID: CCAL Quant Type: ISTD
 Method: \\192.168.10.12\chem\10air0.i\031812.b\TO15_074-12.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 Propylene	0.07986	0.07153	0.07153	0.010	-10.43364	30.00000	Averaged
2 Dichlorodifluoromethane	10.00000	11.55151	0.87538	0.010	15.51507	30.00000	Linear
3 Dichlorotetrafluoroethane	10.00000	13.23927	0.64024	0.010	32.39269	30.00000	Linear
4 Chloromethane	10.00000	12.32613	0.15255	0.010	23.26126	30.00000	Linear
5 Vinyl chloride	10.00000	11.23463	0.18076	0.010	12.34631	30.00000	Linear
6 1,3-Butadiene	10.00000	10.85710	0.09598	0.010	8.57095	30.00000	Linear
7 Bromomethane	0.20583	0.18348	0.18348	0.010	-10.85915	30.00000	Averaged
8 Chloroethane	10.00000	11.24402	0.08008	0.010	12.44016	30.00000	Linear
9 Ethanol	10.00000	10.57458	0.06951	0.010	5.74578	30.00000	Linear
10 Vinyl Bromide	0.24538	0.23911	0.23911	0.010	-2.55615	30.00000	Averaged
11 Acrolein	0.05214	0.04358	0.04358	0.010	-16.40607	30.00000	Averaged
12 Trichlorofluoromethane	10.00000	11.49162	0.78688	0.010	14.91624	30.00000	Linear
13 Acetone	10.00000	11.86352	0.29435	0.010	18.63524	30.00000	Linear
14 Isopropyl Alcohol	10.00000	10.70090	0.17933	0.010	7.00896	30.00000	Linear
15 1,1-Dichloroethene	10.00000	11.84318	0.42041	0.010	18.43180	30.00000	Linear
16 Acrylonitrile	0.09675	0.08947	0.08947	0.010	-7.52053	30.00000	Averaged
17 Tert Butyl Alcohol (TBA)	10.00000	10.70715	0.21471	0.010	7.07149	30.00000	Linear
18 Freon 113	10.00000	12.40385	0.47450	0.010	24.03848	30.00000	Linear
19 Methylene chloride	0.18228	0.16124	0.16124	0.010	-11.54231	30.00000	Averaged
20 Carbon Disulfide	0.51444	0.49428	0.49428	0.010	-3.91917	30.00000	Averaged
21 trans-1,2-dichloroethene	0.28010	0.27353	0.27353	0.010	-2.34803	30.00000	Averaged
22 Methyl Tert Butyl Ether	0.52546	0.51390	0.51390	0.010	-2.19829	30.00000	Averaged
23 Vinyl Acetate	0.34504	0.35992	0.35992	0.010	4.31074	30.00000	Averaged
24 1,1-Dichloroethane	10.00000	12.65754	0.41982	0.010	26.57543	30.00000	Linear
25 Hexane-d14 (S)	0.46849	0.46591	0.46591	0.010	-0.55177	30.00000	Averaged
26 Methyl Ethyl Ketone	0.11449	0.11750	0.11750	0.010	2.63503	30.00000	Averaged
27 n-Hexane	0.26146	0.24673	0.24673	0.010	-5.63207	30.00000	Averaged
28 cis-1,2-Dichloroethene	0.27582	0.27954	0.27954	0.010	1.34676	30.00000	Averaged
29 Ethyl Acetate	0.32942	0.31851	0.31851	0.010	-3.31268	30.00000	Averaged
30 Chloroform	0.75054	0.71600	0.71600	0.010	-4.60221	30.00000	Averaged
31 Tetrahydrofuran	0.14322	0.13386	0.13386	0.010	-6.53983	30.00000	Averaged
32 1,1,1-Trichloroethane	0.74208	0.73927	0.73927	0.010	-0.37864	30.00000	Averaged
33 1,2-Dichloroethane	0.57579	0.52155	0.52155	0.010	-9.41907	30.00000	Averaged
34 Benzene	0.82711	0.80828	0.80828	0.010	-2.27628	30.00000	Averaged
35 Carbon tetrachloride	10.00000	11.66392	0.73095	0.010	16.63921	30.00000	Linear
36 Cyclohexane	0.22727	0.23534	0.23534	0.010	3.54875	30.00000	Averaged
38 2,2,4-Trimethylpentane	0.76383	0.77846	0.77846	0.010	1.91565	30.00000	Averaged
39 Heptane	0.24841	0.24907	0.24907	0.010	0.26436	30.00000	Averaged
40 1,2-Dichloropropane	0.23478	0.22309	0.22309	0.010	-4.97760	30.00000	Averaged
41 Trichloroethene	0.38058	0.37168	0.37168	0.010	-2.33902	30.00000	Averaged
42 1,4-Dioxane	0.12650	0.14784	0.14784	0.010	16.86910	30.00000	Averaged
43 Bromodichloromethane	0.77635	0.77253	0.77253	0.010	-0.49233	30.00000	Averaged

Report Date: 19-Mar-2012 08:15

Pace Analytical Services

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10air0.i Injection Date: 18-MAR-2012 18:02
 Lab File ID: 07809.D Init. Cal. Date(s): 14-MAR-2012 14-MAR-2012
 Analysis Type: AIR Init. Cal. Times: 10:41 13:35
 Lab Sample ID: CCAL Quant Type: ISTD
 Method: \\192.168.10.12\chem\10air0.i\031812.b\TO15_074-12.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
44 Methyl Isobutyl Ketone	0.30482	0.32871	0.32871	0.010	7.83587	30.00000	Averaged
45 cis-1,3-Dichloropropene	0.49417	0.54153	0.54153	0.010	9.58434	30.00000	Averaged
46 trans-1,3-Dichloropropene	0.40711	0.49341	0.49341	0.010	21.19739	30.00000	Averaged
47 Toluene-d8 (S)	0.83833	0.85680	0.85680	0.010	2.20326	30.00000	Averaged
48 Toluene	0.93797	0.94108	0.94108	0.010	0.33174	30.00000	Averaged
49 1,1,2-Trichloroethane	0.34657	0.33560	0.33560	0.010	-3.16541	30.00000	Averaged
50 Methyl Butyl Ketone	0.45401	0.49315	0.49315	0.010	8.62219	30.00000	Averaged
51 Dibromochloromethane	1.00549	1.07440	1.07440	0.010	6.85416	30.00000	Averaged
52 1,2-Dibromoethane	0.89329	0.91068	0.91068	0.010	1.94762	30.00000	Averaged
53 Tetrachloroethene	0.85568	0.85015	0.85015	0.010	-0.64669	30.00000	Averaged
55 Chlorobenzene	1.26692	1.20903	1.20903	0.010	-4.56909	30.00000	Averaged
56 Ethyl Benzene	1.80986	2.03748	2.03748	0.010	12.57654	30.00000	Averaged
57 m&p-Xylene	1.46592	1.57925	1.57925	0.010	7.73056	30.00000	Averaged
58 2-Heptanone	0.35155	0.41553	0.41553	0.010	18.20077	30.00000	Averaged
59 Bromoform	1.07006	1.18187	1.18187	0.010	10.44940	30.00000	Averaged
60 Styrene	1.13769	1.35582	1.35582	0.010	19.17301	30.00000	Averaged
61 o-Xylene	1.40322	1.54324	1.54324	0.010	9.97845	30.00000	Averaged
62 1,1,2,2-Tetrachloroethane	1.14201	1.12025	1.12025	0.010	-1.90581	30.00000	Averaged
63 Isopropylbenzene	2.10259	2.20884	2.20884	0.010	5.05358	30.00000	Averaged
64 N-Propylbenzene	2.08100	2.47443	2.47443	0.010	18.90575	30.00000	Averaged
65 4-Ethyltoluene	1.54241	1.93423	1.93423	0.010	25.40327	30.00000	Averaged
66 1,3,5-Trimethylbenzene	1.52759	1.45827	1.45827	0.010	-4.53799	30.00000	Averaged
67 1,2,4-Trimethylbenzene	1.34835	1.65149	1.65149	0.010	22.48227	30.00000	Averaged
68 1,3-Dichlorobenzene	1.12931	1.17568	1.17568	0.010	4.10584	30.00000	Averaged
69 Sec- Butylbenzene	2.01418	2.25180	2.25180	0.010	11.79746	30.00000	Averaged
70 1,4-dichlorobenzene-d4 (S)	0.55386	0.56750	0.56750	0.010	2.46190	30.00000	Averaged
71 Benzyl Chloride	1.11609	1.32015	1.32015	0.010	18.28340	30.00000	Averaged
72 1,4-Dichlorobenzene	1.20643	1.20095	1.20095	0.010	-0.45368	30.00000	Averaged
73 1,2-Dichlorobenzene	0.94033	1.14063	1.14063	0.010	21.30109	30.00000	Averaged
74 N-Butylbenzene	1.40582	1.86125	1.86125	0.010	32.39614	30.00000	Averaged
75 1,2,4-Trichlorobenzene	0.34200	0.68020	0.68020	0.010	98.88941	30.00000	Averaged
76 Naphthalene	0.54064	1.17498	1.17498	0.010	117	30.00000	Averaged
77 Hexachlorobutadiene	10.00000	30.08902	0.62887	0.010	201	30.00000	Linear

Average %D / Drift Results.

Calculated Average %D/Drift = 14.85398

Maximum Average %D/Drift = 30.00000

* Passed Average %D/Drift Test.

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical

Contract:

Lab Code: PASI

Case No.:

SAS No.:

SDG No.: 10184975

Lab File ID: 07820BFB.D

BFB Injection Date: 03/19/2012

Instrument ID: 10AIR0

BFB Injection Time: 14:41

GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	15.60
75	30.00 - 66.00% of mass 95	57.16
96	5.00 - 9.00% of mass 95	6.73
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	88.90
175	4.00 - 9.00% of mass 174	7.81 (8.78)
176	93.00 - 101.00% of mass 174	86.74 (97.56)
177	5.00 - 9.00% of mass 176	5.69 (6.56)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	LCS for HBN 201131 [AIR/	1157122	07821LL.D	03/19/2012	15:10
2	CCAL	CCAL	07821.D	03/19/2012	15:10
3	BLANK for HBN 201131 [AI	1157121	07902LL.D	03/19/2012	18:23
4	SG-122	10184975016	07903.D	03/19/2012	18:52
5	SG-061R	10184975015	07907.D	03/19/2012	20:49
6	SG-061R(1151119DUP)	1157601-DUP	07908.D	03/19/2012	21:18
7	SG-059	10184975013	07909.D	03/19/2012	21:48
8	SG-018	10184975001	07929.D	03/20/2012	10:17

Pace Analytical Services

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10air0.i Injection Date: 19-MAR-2012 15:10
Lab File ID: 07821.D Init. Cal. Date(s): 14-MAR-2012 14-MAR-2012
Analysis Type: AIR Init. Cal. Times: 10:41 13:35
Lab Sample ID: CCAL Quant Type: ISTD
Method: \\192.168.10.12\chem\10air0.i\031912.B\TO15_074-12.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 Propylene	0.07986	0.07426	0.07426	0.010	-7.01292	30.00000	Averaged
2 Dichlorodifluoromethane	10.00000	11.50673	0.87204	0.010	15.06729	30.00000	Linear
3 Dichlorotetrafluoroethane	10.00000	13.28640	0.64245	0.010	32.86397	30.00000	Linear
4 Chloromethane	10.00000	12.26912	0.15186	0.010	22.69123	30.00000	Linear
5 Vinyl chloride	10.00000	11.42258	0.18371	0.010	14.22579	30.00000	Linear
6 1,3-Butadiene	10.00000	11.16227	0.09863	0.010	11.62265	30.00000	Linear
7 Bromomethane	0.20583	0.18477	0.18477	0.010	-10.22891	30.00000	Averaged
8 Chloroethane	10.00000	11.36837	0.08094	0.010	13.68374	30.00000	Linear
9 Ethanol	10.00000	9.43917	0.06216	0.010	-5.60833	30.00000	Linear
10 Vinyl Bromide	0.24538	0.24263	0.24263	0.010	-1.12237	30.00000	Averaged
11 Acrolein	0.05214	0.04350	0.04350	0.010	-16.55945	30.00000	Averaged
12 Trichlorofluoromethane	10.00000	11.60889	0.79477	0.010	16.08888	30.00000	Linear
13 Acetone	10.00000	11.97362	0.29697	0.010	19.73620	30.00000	Linear
14 Isopropyl Alcohol	10.00000	9.01497	0.15138	0.010	-9.85030	30.00000	Linear
15 1,1-Dichloroethane	10.00000	12.07261	0.42839	0.010	20.72612	30.00000	Linear
16 Acrylonitrile	0.09675	0.09043	0.09043	0.010	-6.52755	30.00000	Averaged
17 Tert Butyl Alcohol (TBA)	10.00000	11.33382	0.22714	0.010	13.33822	30.00000	Linear
18 Freon 113	10.00000	12.54119	0.47960	0.010	25.41191	30.00000	Linear
19 Methylene chloride	0.18228	0.16184	0.16184	0.010	-11.21167	30.00000	Averaged
20 Carbon Disulfide	0.51444	0.49704	0.49704	0.010	-3.38210	30.00000	Averaged
21 trans-1,2-dichloroethene	0.28010	0.27624	0.27624	0.010	-1.37934	30.00000	Averaged
22 Methyl Tert Butyl Ether	0.52546	0.55933	0.55933	0.010	6.44656	30.00000	Averaged
23 Vinyl Acetate	0.34504	0.37197	0.37197	0.010	7.80454	30.00000	Averaged
24 1,1-Dichloroethane	10.00000	12.77142	0.42347	0.010	27.71420	30.00000	Linear
25 Hexane-d14(S)	0.46849	0.47136	0.47136	0.010	0.61336	30.00000	Averaged
26 Methyl Ethyl Ketone	0.11449	0.12286	0.12286	0.010	7.31410	30.00000	Averaged
27 n-Hexane	0.26146	0.24776	0.24776	0.010	-5.23905	30.00000	Averaged
28 cis-1,2-Dichloroethene	0.27582	0.28044	0.28044	0.010	1.67511	30.00000	Averaged
29 Ethyl Acetate	0.32942	0.33195	0.33195	0.010	0.76928	30.00000	Averaged
30 Chloroform	0.75054	0.72127	0.72127	0.010	-3.90086	30.00000	Averaged
31 Tetrahydrofuran	0.14322	0.14079	0.14079	0.010	-1.69939	30.00000	Averaged
32 1,1,1-Trichloroethane	0.74208	0.75033	0.75033	0.010	1.11199	30.00000	Averaged
33 1,2-Dichloroethane	0.57579	0.51989	0.51989	0.010	-9.70812	30.00000	Averaged
34 Benzene	0.82711	0.82354	0.82354	0.010	-0.43192	30.00000	Averaged
35 Carbon tetrachloride	10.00000	11.69936	0.73313	0.010	16.99357	30.00000	Linear
36 Cyclohexane	0.22727	0.24041	0.24041	0.010	5.77975	30.00000	Averaged
38 2,2,4-Trimethylpentane	0.76383	0.78993	0.78993	0.010	3.41674	30.00000	Averaged
39 Heptane	0.24841	0.25287	0.25287	0.010	1.79330	30.00000	Averaged
40 1,2-Dichloropropane	0.23478	0.23171	0.23171	0.010	-1.30959	30.00000	Averaged
41 Trichloroethene	0.38058	0.37114	0.37114	0.010	-2.48174	30.00000	Averaged
42 1,4-Dioxane	0.12650	0.13137	0.13137	0.010	3.85248	30.00000	Averaged
43 Bromodichloromethane	0.77635	0.78053	0.78053	0.010	0.53804	30.00000	Averaged

DATA USABILITY SUMMARY REPORT
PHASE II REMEDIAL INVESTIGATION
FEBRUARY – APRIL 2012 SAMPLING EVENT

FORMER KLINK COSMO CLEANERS SITE
EAST WILLIAMSBURG INDUSTRIAL AREA
BOROUGH OF BROOKLYN
KINGS COUNTY, NEW YORK
SITE No. 22430

Prepared by:

URS CORPORATION
77 GOODELL STREET
BUFFALO, NY 14203

JULY 2012

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TABLES (Following Text)

Table 1	Summary of Data Qualifications
Table 2	Validated Groundwater Sample Results
Table 3	Validated Field QC Sample Results

ATTACHMENTS

Attachment A	Validated Form 1's
Attachment B	Support Documentation

1.0 INTRODUCTION

This Data Usability Summary Report (DUSR) has been prepared following the guidelines provided in New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation *DER-10 Technical Guidance for Site Investigation and Remediation, Appendix 2B-Guidance for Data Deliverables and the Development of Data Usability and Summary Reports*, May 2010. Analytical data for 59 groundwater samples, 6 field duplicates, 3 matrix spike/matrix spike duplicate (MS/MSD) pairs, and 7 trip blanks collected by URS personnel from March 26 to April 20, 2012 from the Former Klink Cosmo Cleaners site as part of Phase II of the Remedial Investigation are discussed in this DUSR.

2.0 ANALYTICAL METHODOLOGIES

All samples were sent to Spectrum Analytical, Inc. located in Warwick, RI for analysis, and were analyzed for the following parameters.

Matrix	Parameter	Method No.
Groundwater	Target Compound List (TCL) Volatile Organic Compounds (VOCs) plus tentatively identified compounds (TICs)	SW8260C
	Alkalinity	Standard Method 2320B
	Chloride	EPA 300.0
	Nitrate-Nitrite	EPA 353.2
	Phosphorous	Standard Method 4500-P B.5-E
	Sulfate	EPA 300.0
	Sulfide	Standard Method 4500-S D
	Total Kjeldahl Nitrogen	Standard Method 4500-N B C

A limited data validation was performed following the guidelines in the following USEPA Region II documents:

- *Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260B*, SOP HW-24, Rev. 2, August 2008; and
- *Validation of Metals for the Contract Laboratory Program (CLP) Based on SOW ILM05.3*, SOP HW-2, Rev. 13, September 2006.

The limited validation included: a review of completeness of all required deliverables; holding

times; a review of quality control (QC) results [blanks, instrument tunings, calibration standards, duplicate analyses, and MS/laboratory control sample (LCS) recoveries] to determine if the data are within the protocol-required limits and specifications; a determination that all samples were analyzed using established and agreed upon analytical protocols; an evaluation of the raw data to confirm the results provided in the data summary sheets; and a review of laboratory data qualifiers.

Qualifications applied to the data include 'J' (estimated concentration), 'UJ' (estimated quantitation limit), 'U' (not detected), and 'R' (rejected/data unusable). Definitions of USEPA Region II data qualifiers are presented at the end of this text. A summary of data qualifications is provided on Table 1. The validated analytical results are presented on Tables 2 and 3. Copies of the validated laboratory results (i.e., Form 1's) are presented in Attachment A. Documentation supporting the qualification of data is presented in Attachment B. Only analytical deviations affecting data usability are discussed in this report.

3.0 DATA DELIVERABLE COMPLETENESS

Full deliverable data packages [i.e., NYSDEC Analytical Services Protocol (ASP) Category B (or equivalent)] were provided by the laboratory, which included all reporting forms and raw data necessary to fully evaluate and verify the reported analytical results.

4.0 PRESERVATION/SAMPLE RECEIPT/HOLDING TIMES

All samples were received by the laboratory intact, properly preserved, and under proper chain-of-custody (COC) except as follows:

- Samples DEC-046 and DEC-046D were listed on two separate COCs.
- Samples DEC-015D and FD-03272012-2 were not listed on the COC. The laboratory logged in the samples per URS's instructions.
- The volatile vials for sample DEC-031 collected on April 1, 2012 were broken after receipt by the laboratory. The sample was re-collected for VOCs only on April 20, 2012.

All samples were analyzed within the required holding times.

5.0 NON-CONFORMANCES

Instrument Calibration

The VOC relative response factors (RRF) for acetone, 2-butanone, and 1,4-dioxane in the initial calibration (ICAL) and/or the continuing calibration (CCAL) standards associated with all samples were below the QC limit (0.05). The non-detected results for these compounds in all associated groundwater samples listed on Table 1 have been qualified 'R'.

The VOC percent relative standard deviation (%RSD) between the RRFs for tetrachloroethene in the ICAL standards exceeded the QC limit (20%). The detected results for this compound in the associated samples listed on Table 1 have been qualified 'J'. Results qualified 'U' (non-detect) due to blank contamination are still considered detections for ICAL outliers and are therefore qualified 'UJ'.

The percent difference (%D) between the ICAL average RRF and the RRF in one or more of the CCAL standards associated with the groundwater samples exceeded the QC limit of 20% for one or more of the following VOCs: 1,1,2,2-tetrachloroethane, 1,2,3-trichlorobenzene, 1,2,3-trichloropropane, 1,2-dibromo-3-chloropropane, 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, bromoform, bromobenzene, bromomethane, chloromethane, dibromochloromethane, dichlorodifluoromethane, hexachlorobutadiene, methyl acetate, naphthalene, and tetrachloroethene. The detected results were qualified 'J' and the non-detect results were qualified 'UJ' for these compounds in the associated groundwater and field QC samples listed on Table 1.

Documentation supporting the qualification of data (i.e., Forms 6 and 7) is presented in Attachment B.

Matrix Spikes

The VOC MS/MSD of groundwater sample DEC-030D exhibited low percent recovery (%R) for chlorobenzene. The non-detect results for chlorobenzene in sample DEC-030D was qualified 'UJ'.

The MS/MSD of groundwater sample DEC-031TC exhibited low % R for the following VOCs: 1,3,5-trimethylbenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 2-chlorotoluene,

4-chlorotoluene, bromobenzene, chlorobenzene, iodomethane and xylene. The non-detect results for these compounds in sample DEC-031TC were qualified 'UJ'.

Documentation supporting the qualification of data (i.e., Form 3) is presented in Attachment B.

Laboratory Blanks

Tetrachloroethene was detected below the quantitation limit (QL) in one or more laboratory method blanks associated with groundwater samples. Sample results with tetrachloroethene concentrations less than the QL or less than 5 times the associated method blank concentration were qualified 'U' at the QL, as listed on Table 1. For results greater than 5 times the associated method blank concentration, the laboratory applied 'B' qualifier was crossed out.

Documentation supporting the qualification of data (i.e., Forms 1 and 4) is presented in Attachment B.

6.0 SAMPLE RESULTS AND REPORTING

All quantitation/detection limits were reported in accordance with method requirements and were adjusted for sample volume and dilution factors. Results below the quantitation limits were qualified 'J' by the laboratory.

The relative percent difference between the parent sample and field duplicate results were greater than 20% for the samples and parameters listed in Table 1. The detected results for these alkalinity or nitrate/nitrite were qualified 'J', as listed in Table 1.

7.0 SUMMARY

All sample analyses were found to be compliant with the method criteria, except where previously noted. Those results qualified 'J' or 'UJ' are considered conditionally usable. Those results qualified 'U' are considered non-detect. Those results qualified 'R' are unusable. All other sample results are usable as reported. URS does not recommend the recollection of any samples at this time.

Prepared By: George E. Kisluk, Senior Chemist



Date: 7/27/12

Reviewed By: Peter R. Fairbanks, Senior Chemist



Date: 7/30/12

DEFINITIONS OF USEPA REGION II DATA QUALIFIERS

- U – The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J – The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ – The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R – The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.
- B – The analyte was detected in the sample at a concentration greater than the instrument detection limit, but less than the quantitation limit.
- D – The positive value is the result of an analysis at a secondary dilution factor.

TABLE 1
SUMMARY OF DATA QUALIFICATIONS
FORMER KLINK COSMO CLEANERS SITE

Fraction	Samples	Reason	Action
VOC	All groundwater and field QC samples	RRF < 0.05 for 1,4-dioxane, acetone and 2-butanone.	Qualify non-detect results 'R'.
VOC	DEC-004, DEC-007, DEC-007D, DEC-008, DEC-009, DEC-010, DEC-011, DEC-011D, DEC-012, DEC-013, DEC-013D, DEC-014D, DEC-014R, DEC-015, DEC-015D, DEC-015R, DEC-022D, DEC-027, DEC-028D, 20120330-FD-1 (DEC-028D), DEC-029, DEC-029TC, 20120331-FD-1(DEC-029TC), DEC-030, 20120327-FD-1 (DEC-030), DEC-030D, DEC-031, DEC-031D, DEC-031TC, DEC-033, DEC-039, DEC-042, DEC-043, DEC-043D, DEC-044, DEC-047, DEC-048, 20120329-FD-1 (DEC-048), DEC-064, DEC-064D, DEC-065, DEC-090D, DEC-091, DEC-091D	%RSD of ICAL RRFs > 20% for tetrachloroethene.	Qualify detected result 'J' and results qualified non-detect due to associated blank contamination 'UJ'.
VOC	DEC-006D, DEC-006DD, DEC-089D	CCAL %D > 20% for 1,2,3-trichlorobenzene, 1,2,3-trichloropropane, bromoform and methyl acetate.	Qualify non-detect results 'UJ'.
VOC	DEC-032, DEC-046, DEC-046D, DEC-066, DEC-066D, DEC-088, DEC-088D, DEC-089, TB032712, TB2-032712	CCAL %D > 20% for bromoform and dibromochloromethane.	Qualify non-detect results 'UJ'.
VOC	DEC-022D, DEC-030, 20120327-FD-1(DEC-030), DEC-030D, DEC-091	CCAL %D > 20% for 1,1,2,2-tetrachloroethane, 1,2,3-trichloropropane and 1,2-dibromo-3-chloropropane.	Qualify non-detected results 'UJ'.

TABLE 1
SUMMARY OF DATA QUALIFICATIONS
FORMER KLINK COSMO CLEANERS SITE

Fraction	Samples	Reason	Action
VOC	DEC-009, DEC-015, DEC-029, DEC-029D, DEC-039, FD-03272012-2 (DEC-091D), TRIP BLANK 2	CCAL %D > 20% for 1,1,2,2-tetrachloroethane, 1,2,3-trichloropropane, 1,2-dibromo-3-chloropropane and naphthalene.	Qualify non-detect results 'UJ'.
VOC	DEC-007, DEC-007D, DEC-015D	CCAL %D > 20% for 1,1,2,2-tetrachloroethane, 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, bromobenzene, and hexachlorobutadiene.	Qualify non-detect results 'UJ'.
VOC	DEC-012, DEC-014R, DEC-064, DEC-091D, TRIP BLANK (03/28/12), TRIP BLANK 3	CCAL %D > 20% for bromomethane, chloromethane and dichlorodifluoromethane.	Qualify non-detect results 'UJ'.
VOC	DEC-013D, DEC-014D, DEC-033, DEC-043, DEC-043D, DEC-047, DEC-048, 20120329-FD-1 (DEC-048), DEC-064D, DEC-090D	CCAL %D > 20% for dichlorodifluoromethane and naphthalene	Qualify detects 'J' and non-detect results 'UJ'.
VOC	DEC-004, DEC-008, DEC-010, DEC-011, DEC-011D, DEC-013, 20120330-FD-1 (DEC-028D), DEC-029TC, DEC-031TC, DEC-042, DEC-044, DEC-065D, TRIP BLANK [03/29/12, (2-1)]	CCAL %D > 20% for dichlorodifluoromethane	Qualify non-detect results 'UJ'.
VOC	DEC-027, DEC-028, DEC-028D, 20120331-FD-1 (DEC-029TC), DEC-044D, 20120401-FD-1 (DEC-044D), DEC-065, TRIP BLANK (4/1/12)	CCAL %D > 20% for bromomethane and tetrachloroethene	Qualify detects 'J' and non-detect results 'UJ'.
VOC	DEC-031D	CCAL %D > 20% for naphthalene and tetrachloroethene	Qualify detects 'J' and non-detect results 'UJ'.
VOC	DEC-031	CCAL %D > 20% for chloromethane and iodomethane	Qualify non-detect results 'UJ'.

TABLE 1
SUMMARY OF DATA QUALIFICATIONS
FORMER KLINK COSMO CLEANERS SITE

Fraction	Samples	Reason	Action
VOC	DEC-030D	MS/MSD %R < QC limit for chlorobenzene.	Qualify non-detect results 'UJ'.
VOC	DEC-031TC	MS/MSD %R < QC limit for 1,3,5-trimethylbenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 2-chlorotoluene, 4- chlorobenzene, bromobenzene, chlorotoluene, iodomethane and xylene,	Qualify non-detect results 'UJ'
VOC	DEC-091	Tetrachloroethene detected in the laboratory method blank.	Qualify results 'U' at the QL.
Alkalinity	DEC-028D, 20120330-FD-1 (DEC-028D)	RPD > 20% between parent and field duplicate.	Qualify results 'J'.
Nitrate/Nitrite	DEC-091D, FD-03272012-2 (DEC-091D)	RPD > 20% between parent and field duplicate.	Qualify results 'J'.

TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-004	DEC-006D	DEC-006DD	DEC-007	DEC-007D
Sample ID			DEC-004	DEC-006D	DEC-006DD	DEC-007	DEC-007D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/30/12	03/26/12	03/26/12	03/28/12	03/28/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-	5.0 U	100 U	20 U	5.0 U	5.0 U
1,1,1-Trichloroethane	UG/L	5	5.0 U	100 U	9.1 J	0.86 J	0.89 J
1,1,2,2-Tetrachloroethane	UG/L	5	5.0 U	100 U	20 U	5.0 UJ	5.0 UJ
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	5	5.0 U	100 U	20 U	5.0 U	5.0 U
1,1,2-Trichloroethane	UG/L	1	5.0 U	100 U	20 U	5.0 U	5.0 U
1,1-Dichloroethane	UG/L	5	5.0 U	100 U	20 U	4.8 J	0.91 J
1,1-Dichloroethene	UG/L	5	5.0 U	100 U	40	1.6 J	4.1 J
1,1-Dichloropropene	UG/L	-	5.0 U	100 U	20 U	5.0 U	5.0 U
1,2,3-Trichlorobenzene	UG/L	-	5.0 U	100 UJ	20 UJ	5.0 U	5.0 U
1,2,3-Trichloropropane	UG/L	-	5.0 U	100 UJ	20 UJ	5.0 U	5.0 U
1,2,4-Trichlorobenzene	UG/L	5	5.0 U	100 U	20 U	5.0 U	5.0 U
1,2,4-Trimethylbenzene	UG/L	-	5.0 U	100 U	20 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane	UG/L	0.04	5.0 U	100 U	20 U	5.0 U	5.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	6.00E-04	5.0 U	100 U	20 U	5.0 U	5.0 U
1,2-Dichlorobenzene	UG/L	3	5.0 U	100 U	20 U	5.0 UJ	5.0 UJ
1,2-Dichloroethane	UG/L	0.6	5.0 U	100 U	20 U	5.0 U	5.0 U
1,2-Dichloroethene (cis)	UG/L	5	5.0 U	100 U	11 J	10	4.6 J
1,2-Dichloroethene (trans)	UG/L	5	5.0 U	100 U	20 U	5.0 U	5.0 U
1,2-Dichloropropane	UG/L	1	5.0 U	100 U	20 U	5.0 U	5.0 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/L	-	5.0 U	100 U	20 U	5.0 U	5.0 U
1,3-Dichlorobenzene	UG/L	3	5.0 U	100 U	20 U	5.0 UJ	5.0 UJ

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria

- = No standard, criteria or guidance value.

J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis. R - The data is rejected.

U - Not detected above the reported quantitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.

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Detection Limits shown are PQL

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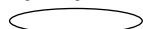
[LOGDATE] BETWEEN #02/27/12# AND #04/20/12# AND [MATRIX] = 'WG' AND NOT [PRCODE] = 'FLD'

TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-004	DEC-006D	DEC-006DD	DEC-007	DEC-007D
Sample ID			DEC-004	DEC-006D	DEC-006DD	DEC-007	DEC-007D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/30/12	03/26/12	03/26/12	03/28/12	03/28/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,3-Dichloropropane	UG/L	-	5.0 U	100 U	20 U	5.0 U	5.0 U
1,3-Dichloropropene (cis)	UG/L	0.4	5.0 U	100 U	20 U	5.0 U	5.0 U
1,3-Dichloropropene (trans)	UG/L	0.4	5.0 U	100 U	20 U	5.0 U	5.0 U
1,4-Dichlorobenzene	UG/L	3	5.0 U	100 U	20 U	5.0 UJ	5.0 UJ
1,4-Dioxane	UG/L	-	R	R	R	R	R
2,2-Dichloropropane	UG/L	-	5.0 U	100 U	20 U	5.0 U	5.0 U
2-Chlorotoluene	UG/L	-	5.0 U	100 U	20 U	5.0 U	5.0 U
2-Hexanone	UG/L	50	5.0 U	100 U	20 U	5.0 U	5.0 U
4-Chlorotoluene	UG/L	-	5.0 U	100 U	20 U	5.0 U	5.0 U
4-Isopropyltoluene (p-Cymene)	UG/L	-	5.0 U	100 U	20 U	5.0 U	5.0 U
4-Methyl-2-pentanone	UG/L	-	5.0 U	100 U	20 U	5.0 U	5.0 U
Acetone	UG/L	50	R	R	R	R	R
Benzene	UG/L	1	5.0 U	100 U	20 U	5.0 U	5.0 U
Bromobenzene	UG/L	-	5.0 U	100 U	20 U	5.0 UJ	5.0 UJ
Bromochloromethane	UG/L	-	5.0 U	100 U	20 U	5.0 U	5.0 U
Bromodichloromethane	UG/L	50	5.0 U	100 U	20 U	5.0 U	5.0 U
Bromoform	UG/L	50	5.0 U	100 UJ	20 UJ	5.0 U	5.0 U
Bromomethane	UG/L	5	5.0 U	100 U	20 U	5.0 U	5.0 U
Carbon disulfide	UG/L	60	5.0 U	100 U	20 U	5.0 U	5.0 U
Carbon tetrachloride	UG/L	5	5.0 U	100 U	20 U	5.0 U	5.0 U
Chlorobenzene	UG/L	5	5.0 U	100 U	20 U	5.0 U	5.0 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria

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[LOGDATE] BETWEEN #02/27/12# AND #04/20/12# AND [MATRIX] = 'WG' AND NOT [PRCODE] = 'FLD'

TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-004	DEC-006D	DEC-006DD	DEC-007	DEC-007D
Sample ID			DEC-004	DEC-006D	DEC-006DD	DEC-007	DEC-007D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/30/12	03/26/12	03/26/12	03/28/12	03/28/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Chloroethane	UG/L	5	5.0 U	100 U	20 U	5.0 U	5.0 U
Chloroform	UG/L	7	5.0 U	100 U	20 U	3.2 J	5.0 U
Chloromethane	UG/L	5	5.0 U	100 U	20 U	5.0 U	5.0 U
Cyclohexane	UG/L	-	5.0 U	100 U	20 U	5.0 U	5.0 U
Dibromochloromethane	UG/L	50	5.0 U	100 U	20 U	5.0 U	5.0 U
Dibromomethane	UG/L	-	5.0 U	100 U	20 U	5.0 U	5.0 U
Dichlorodifluoromethane	UG/L	5	5.0 UJ	100 U	20 U	5.0 U	5.0 U
Ethylbenzene	UG/L	5	5.0 U	100 U	20 U	5.0 U	5.0 U
Hexachlorobutadiene	UG/L	-	5.0 U	100 U	20 U	5.0 UJ	5.0 UJ
Iodomethane (Methyl iodide)	UG/L	-	5.0 U	100 U	20 U	5.0 U	5.0 U
Isopropylbenzene (Cumene)	UG/L	5	5.0 U	100 U	20 U	5.0 U	5.0 U
Methyl acetate	UG/L	-	5.0 U	100 UJ	20 UJ	5.0 U	5.0 U
Methyl ethyl ketone (2-Butanone)	UG/L	50	R	R	R	R	R
Methyl tert-butyl ether	UG/L	10	5.0 U	100 U	20 U	1.3 J	5.0 U
Methylcyclohexane	UG/L	-	5.0 U	100 U	20 U	5.0 U	5.0 U
Methylene chloride	UG/L	5	5.0 U	100 U	20 U	5.0 U	5.0 U
Naphthalene	UG/L	-	5.0 U	100 U	20 U	5.0 U	5.0 U
sec-Butylbenzene	UG/L	-	5.0 U	100 U	20 U	5.0 U	5.0 U
Styrene	UG/L	5	5.0 U	100 U	20 U	5.0 U	5.0 U
tert-Butylbenzene	UG/L	-	5.0 U	100 U	20 U	5.0 U	5.0 U
Tetrachloroethene	UG/L	5	1.2 J	3,300	320	830 DJ	190 DJ

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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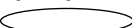
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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-004	DEC-006D	DEC-006DD	DEC-007	DEC-007D
Sample ID			DEC-004	DEC-006D	DEC-006DD	DEC-007	DEC-007D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/30/12	03/26/12	03/26/12	03/28/12	03/28/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Toluene	UG/L	5	5.0 U	100 U	20 U	5.0 U	5.0 U
Trichloroethene	UG/L	5	2.1 J	100 U	220	39	39
Trichlorofluoromethane	UG/L	5	5.0 U	100 U	20 U	5.0 U	5.0 U
Vinyl acetate	UG/L	-	5.0 U	100 U	20 U	5.0 U	5.0 U
Vinyl chloride	UG/L	2	5.0 U	100 U	20 U	5.0 U	5.0 U
Xylene (total)	UG/L	5	5.0 U	100 U	20 U	5.0 U	5.0 U
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	460	160	120	180	240
Chloride	MG/L	250	120	160	160	130	230
Nitrate-Nitrite	MG/L	10	6.46	7.84	4.60	8.28	5.58
Phosphorous, Total (as P)	MG/L	-	0.13	0.27	0.39	0.13	0.14
Sulfate (as SO ₄)	MG/L	250	170	100	160	90	130
Sulfide	MG/L	0.05	0.030 U	0.030 U	0.030 U	0.030 U	0.030 U
Total Kjeldahl Nitrogen	MG/L	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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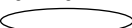
Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-008	DEC-009	DEC-010	DEC-011	DEC-011D
Sample ID			DEC-008	DEC-009	DEC-010	DEC-011	DEC-011D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/30/12	03/28/12	03/30/12	03/30/12	03/30/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-	100 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1-Trichloroethane	UG/L	5	100 U	2.1 J	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	UG/L	5	100 U	5.0 UJ	5.0 U	5.0 U	5.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	5	100 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	UG/L	1	100 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	UG/L	5	100 U	5.6	32	5.0 U	5.0 U
1,1-Dichloroethene	UG/L	5	100 U	4.3 J	27	5.0 U	5.0 U
1,1-Dichloropropene	UG/L	-	100 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,3-Trichlorobenzene	UG/L	-	100 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,3-Trichloropropane	UG/L	-	100 U	5.0 UJ	5.0 U	5.0 U	5.0 U
1,2,4-Trichlorobenzene	UG/L	5	100 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,4-Trimethylbenzene	UG/L	-	100 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane	UG/L	0.04	100 U	5.0 UJ	5.0 U	5.0 U	5.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	6.00E-04	100 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichlorobenzene	UG/L	3	100 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	UG/L	0.6	100 U	5.0 U	2.1 J	5.0 U	5.0 U
1,2-Dichloroethene (cis)	UG/L	5	22 J	36	8.1	5.0 U	5.0 U
1,2-Dichloroethene (trans)	UG/L	5	100 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	UG/L	1	100 U	5.0 U	5.0 U	5.0 U	5.0 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/L	-	100 U	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichlorobenzene	UG/L	3	100 U	5.0 U	5.0 U	5.0 U	5.0 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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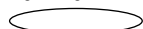
[LOGDATE] BETWEEN #02/27/12# AND #04/20/12# AND [MATRIX] = 'WG' AND NOT [PRCCODE] = 'FLD'

TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-008	DEC-009	DEC-010	DEC-011	DEC-011D
Sample ID			DEC-008	DEC-009	DEC-010	DEC-011	DEC-011D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/30/12	03/28/12	03/30/12	03/30/12	03/30/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,3-Dichloropropane	UG/L	-	100 U	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichloropropene (cis)	UG/L	0.4	100 U	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichloropropene (trans)	UG/L	0.4	100 U	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dichlorobenzene	UG/L	3	100 U	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dioxane	UG/L	-	R	R	R	R	R
2,2-Dichloropropane	UG/L	-	100 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Chlorotoluene	UG/L	-	100 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	UG/L	50	100 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Chlorotoluene	UG/L	-	100 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Isopropyltoluene (p-Cymene)	UG/L	-	100 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone	UG/L	-	100 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	50	R	R	R	R	R
Benzene	UG/L	1	100 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromobenzene	UG/L	-	100 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromochloromethane	UG/L	-	100 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	UG/L	50	100 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	UG/L	50	100 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane	UG/L	5	100 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	UG/L	60	100 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	UG/L	5	100 U	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	UG/L	5	100 U	5.0 U	5.0 U	5.0 U	5.0 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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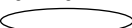
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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-008	DEC-009	DEC-010	DEC-011	DEC-011D
Sample ID			DEC-008	DEC-009	DEC-010	DEC-011	DEC-011D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/30/12	03/28/12	03/30/12	03/30/12	03/30/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Chloroethane	UG/L	5	100 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform	UG/L	7	100 U	5.0 U	5.0 U	5.0 U	3.1 J
Chloromethane	UG/L	5	100 U	5.0 U	5.0 U	5.0 U	5.0 U
Cyclohexane	UG/L	-	100 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	UG/L	50	100 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromomethane	UG/L	-	100 U	5.0 U	5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane	UG/L	5	100 UJ	5.0 U	5.0 UJ	5.0 UJ	5.0 UJ
Ethylbenzene	UG/L	5	100 U	5.0 U	5.0 U	5.0 U	5.0 U
Hexachlorobutadiene	UG/L	-	100 U	5.0 U	5.0 U	5.0 U	5.0 U
Iodomethane (Methyl iodide)	UG/L	-	100 U	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene (Cumene)	UG/L	5	100 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl acetate	UG/L	-	100 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl ethyl ketone (2-Butanone)	UG/L	50	R	R	R	R	R
Methyl tert-butyl ether	UG/L	10	100 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylcyclohexane	UG/L	-	100 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	UG/L	5	100 U	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	UG/L	-	100 U	5.0 UJ	5.0 U	5.0 U	5.0 U
sec-Butylbenzene	UG/L	-	100 U	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	UG/L	5	100 U	5.0 U	5.0 U	5.0 U	5.0 U
tert-Butylbenzene	UG/L	-	100 U	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	UG/L	5	1,300 J	130 J	19 J	5.8 J	1.9 J

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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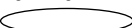
Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-008	DEC-009	DEC-010	DEC-011	DEC-011D
Sample ID			DEC-008	DEC-009	DEC-010	DEC-011	DEC-011D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/30/12	03/28/12	03/30/12	03/30/12	03/30/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Toluene	UG/L	5	100 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	UG/L	5	83 J	59	79	15	5.5
Trichlorofluoromethane	UG/L	5	100 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl acetate	UG/L	-	100 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl chloride	UG/L	2	100 U	37	5.0 U	5.0 U	5.0 U
Xylene (total)	UG/L	5	100 U	5.0 U	5.0 U	5.0 U	5.0 U
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	260	220	100	150	150
Chloride	MG/L	250	280	220	220	380	53
Nitrate-Nitrite	MG/L	10	9.44	6.68	3.60	5.82	1.49
Phosphorous, Total (as P)	MG/L	-	0.13	0.28	0.10	0.12	0.094
Sulfate (as SO ₄)	MG/L	250	110	140	380	53	29
Sulfide	MG/L	0.05	0.030 U	0.030 U	0.030 U	0.030 U	0.10
Total Kjeldahl Nitrogen	MG/L	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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Detection Limits shown are PQL

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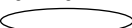
[LOGDATE] BETWEEN #02/27/12# AND #04/20/12# AND [MATRIX] = 'WG' AND NOT [PRC CODE] = 'FLD'

TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-012	DEC-013	DEC-013D	DEC-014D	DEC-014R
Sample ID			DEC-012	DEC-013	DEC-013D	DEC-014D	DEC-014R
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/29/12	03/30/12	03/30/12	03/28/12	03/28/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-	5.0 U	100 U	5.0 U	5.0 U	3.9 J
1,1,1-Trichloroethane	UG/L	5	5.0 U	100 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	UG/L	5	5.0 U	100 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	5	5.0 U	100 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	UG/L	1	5.0 U	100 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	UG/L	5	5.0 U	100 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	UG/L	5	1.1 J	100 U	5.0 U	5.0 U	5.0 U
1,1-Dichloropropene	UG/L	-	5.0 U	100 U	5.0 U	5.0 U	5.0 U
1,2,3-Trichlorobenzene	UG/L	-	5.0 U	100 U	5.0 U	5.0 U	5.0 U
1,2,3-Trichloropropane	UG/L	-	5.0 U	100 U	5.0 U	5.0 U	5.0 U
1,2,4-Trichlorobenzene	UG/L	5	5.0 U	100 U	5.0 U	5.0 U	5.0 U
1,2,4-Trimethylbenzene	UG/L	-	5.0 U	100 U	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane	UG/L	0.04	5.0 U	100 U	5.0 U	5.0 U	5.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	6.00E-04	5.0 U	100 U	5.0 U	5.0 U	5.0 U
1,2-Dichlorobenzene	UG/L	3	5.0 U	100 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	UG/L	0.6	5.0 U	100 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethene (cis)	UG/L	5	0.90 J	21 J	0.61 J	1.1 J	17
1,2-Dichloroethene (trans)	UG/L	5	5.0 U	100 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	UG/L	1	5.0 U	100 U	5.0 U	5.0 U	5.0 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/L	-	5.0 U	100 U	5.0 U	5.0 U	5.0 U
1,3-Dichlorobenzene	UG/L	3	5.0 U	100 U	5.0 U	5.0 U	5.0 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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Made By: GEK 07/03/2012 Checked By: PRF 07/10/2012

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[LOGDATE] BETWEEN #02/27/12# AND #04/20/12# AND [MATRIX] = 'WG' AND NOT [PRCCODE] = 'FLD'

TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-012	DEC-013	DEC-013D	DEC-014D	DEC-014R
Sample ID			DEC-012	DEC-013	DEC-013D	DEC-014D	DEC-014R
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/29/12	03/30/12	03/30/12	03/28/12	03/28/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,3-Dichloropropane	UG/L	-	5.0 U	100 U	5.0 U	5.0 U	5.0 U
1,3-Dichloropropene (cis)	UG/L	0.4	5.0 U	100 U	5.0 U	5.0 U	5.0 U
1,3-Dichloropropene (trans)	UG/L	0.4	5.0 U	100 U	5.0 U	5.0 U	5.0 U
1,4-Dichlorobenzene	UG/L	3	5.0 U	100 U	5.0 U	5.0 U	1.1 J
1,4-Dioxane	UG/L	-	R	R	R	R	R
2,2-Dichloropropane	UG/L	-	5.0 U	100 U	5.0 U	5.0 U	5.0 U
2-Chlorotoluene	UG/L	-	5.0 U	100 U	5.0 U	5.0 U	5.0 U
2-Hexanone	UG/L	50	5.0 U	100 U	5.0 U	5.0 U	5.0 U
4-Chlorotoluene	UG/L	-	5.0 U	100 U	5.0 U	5.0 U	5.0 U
4-Isopropyltoluene (p-Cymene)	UG/L	-	5.0 U	100 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone	UG/L	-	5.0 U	100 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	50	R	R	R	R	R
Benzene	UG/L	1	5.0 U	100 U	5.0 U	5.0 U	5.0 U
Bromobenzene	UG/L	-	5.0 U	100 U	5.0 U	5.0 U	5.0 U
Bromochloromethane	UG/L	-	5.0 U	100 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	UG/L	50	5.0 U	100 U	5.0 U	5.0 U	5.0 U
Bromoform	UG/L	50	5.0 U	100 U	5.0 U	5.0 U	5.0 U
Bromomethane	UG/L	5	5.0 UJ	100 U	5.0 U	5.0 U	5.0 UJ
Carbon disulfide	UG/L	60	5.0 U	100 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	UG/L	5	5.0 U	100 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	UG/L	5	5.0 U	100 U	5.0 U	5.0 U	5.0 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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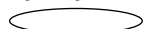
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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-012	DEC-013	DEC-013D	DEC-014D	DEC-014R
Sample ID			DEC-012	DEC-013	DEC-013D	DEC-014D	DEC-014R
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/29/12	03/30/12	03/30/12	03/28/12	03/28/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Chloroethane	UG/L	5	5.0 U	100 U	5.0 U	5.0 U	5.0 U
Chloroform	UG/L	7	5.0 U	100 U	5.0 U	5.0 U	3.0 J
Chloromethane	UG/L	5	5.0 UJ	100 U	5.0 U	5.0 U	5.0 UJ
Cyclohexane	UG/L	-	5.0 U	100 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	UG/L	50	5.0 U	100 U	5.0 U	5.0 U	5.0 U
Dibromomethane	UG/L	-	5.0 U	100 U	5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane	UG/L	5	5.0 UJ	100 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Ethylbenzene	UG/L	5	5.0 U	100 U	5.0 U	5.0 U	5.0 U
Hexachlorobutadiene	UG/L	-	5.0 U	100 U	5.0 U	5.0 U	5.0 U
Iodomethane (Methyl iodide)	UG/L	-	5.0 U	100 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene (Cumene)	UG/L	5	5.0 U	100 U	5.0 U	5.0 U	5.0 U
Methyl acetate	UG/L	-	5.0 U	100 U	5.0 U	5.0 U	5.0 U
Methyl ethyl ketone (2-Butanone)	UG/L	50	R	R	R	R	R
Methyl tert-butyl ether	UG/L	10	5.0 U	100 U	5.0 U	1.2 J	5.0 U
Methylcyclohexane	UG/L	-	5.0 U	100 U	5.0 U	5.0 U	5.0 U
Methylene chloride	UG/L	5	5.0 U	100 U	5.0 U	5.0 U	5.0 U
Naphthalene	UG/L	-	5.0 U	100 U	5.0 UJ	5.0 UJ	5.0 U
sec-Butylbenzene	UG/L	-	5.0 U	100 U	5.0 U	5.0 U	5.0 U
Styrene	UG/L	5	5.0 U	100 U	5.0 U	5.0 U	5.0 U
tert-Butylbenzene	UG/L	-	5.0 U	100 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	UG/L	5	270 DJ	2,500 J	47 J	28 J	15,000 DJ

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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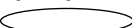
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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-012	DEC-013	DEC-013D	DEC-014D	DEC-014R
Sample ID			DEC-012	DEC-013	DEC-013D	DEC-014D	DEC-014R
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/29/12	03/30/12	03/30/12	03/28/12	03/28/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Toluene	UG/L	5	5.0 U	100 U	5.0 U	5.0 U	5.0 U
Trichloroethene	UG/L	5	8.9	59 J	12	2.7 J	34
Trichlorofluoromethane	UG/L	5	5.0 U	100 U	5.0 U	5.0 U	5.0 U
Vinyl acetate	UG/L	-	5.0 U	100 U	5.0 U	5.0 U	5.0 U
Vinyl chloride	UG/L	2	5.0 U	100 U	5.0 U	5.0 U	5.0 U
Xylene (total)	UG/L	5	5.0 U	100 U	5.0 U	5.0 U	5.0 U
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	140	190	240	150	160
Chloride	MG/L	250	140	56	250	240	340
Nitrate-Nitrite	MG/L	10	3.74	1.61	4.04	7.08	4.26
Phosphorous, Total (as P)	MG/L	-	0.13	0.085	0.044	0.087	0.18
Sulfate (as SO ₄)	MG/L	250	71	78	120	120	100
Sulfide	MG/L	0.05	0.030 U	0.030 U	0.030 U	0.030 U	0.030 U
Total Kjeldahl Nitrogen	MG/L	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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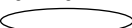
[LOGDATE] BETWEEN #02/27/12# AND #04/20/12# AND [MATRIX] = 'WG' AND NOT [PRC CODE] = 'FLD'

TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-015	DEC-015D	DEC-015R	DEC-022D	DEC-027
Sample ID			DEC-015	DEC-015D	DEC-015R	DEC-022D	DEC-027
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/29/12	03/29/12	03/29/12	03/28/12	04/01/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1-Trichloroethane	UG/L	5	1.3 J	1.2 J	1.5 J	1.5 J	5.0 U
1,1,2,2-Tetrachloroethane	UG/L	5	5.0 UJ	5.0 UJ	5.0 U	5.0 UJ	5.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	UG/L	1	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	UG/L	5	11	1.6 J	14	5.0	5.0 U
1,1-Dichloroethene	UG/L	5	5.0 U	6.1	5.0 U	0.89 J	5.0 U
1,1-Dichloropropene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,3-Trichlorobenzene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,3-Trichloropropane	UG/L	-	5.0 UJ	2.7 J	5.0 U	5.0 UJ	5.0 U
1,2,4-Trichlorobenzene	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,4-Trimethylbenzene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane	UG/L	0.04	5.0 UJ	5.0 U	5.0 U	5.0 UJ	5.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	6.00E-04	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichlorobenzene	UG/L	3	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	UG/L	0.6	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethene (cis)	UG/L	5	19	6.8	27	38	6.8
1,2-Dichloroethene (trans)	UG/L	5	5.0 U	5.0 U	5.0 U	0.69 J	5.0 U
1,2-Dichloropropane	UG/L	1	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichlorobenzene	UG/L	3	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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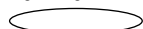
[LOGDATE] BETWEEN #02/27/12# AND #04/20/12# AND [MATRIX] = 'WG' AND NOT [PRCODE] = 'FLD'

TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-015	DEC-015D	DEC-015R	DEC-022D	DEC-027
Sample ID			DEC-015	DEC-015D	DEC-015R	DEC-022D	DEC-027
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/29/12	03/29/12	03/29/12	03/28/12	04/01/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,3-Dichloropropane	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichloropropene (cis)	UG/L	0.4	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichloropropene (trans)	UG/L	0.4	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dichlorobenzene	UG/L	3	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U
1,4-Dioxane	UG/L	-	R	R	R	R	R
2,2-Dichloropropane	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Chlorotoluene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	UG/L	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Chlorotoluene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Isopropyltoluene (p-Cymene)	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	50	R	R	R	R	R
Benzene	UG/L	1	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromobenzene	UG/L	-	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U
Bromochloromethane	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	UG/L	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	UG/L	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ
Carbon disulfide	UG/L	60	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

Flags assigned during chemistry validation are shown.



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Detection Limits shown are PQL

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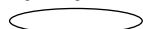
[LOGDATE] BETWEEN #02/27/12# AND #04/20/12# AND [MATRIX] = 'WG' AND NOT [PRCODE] = 'FLD'

TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-015	DEC-015D	DEC-015R	DEC-022D	DEC-027
Sample ID			DEC-015	DEC-015D	DEC-015R	DEC-022D	DEC-027
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/29/12	03/29/12	03/29/12	03/28/12	04/01/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Chloroethane	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform	UG/L	7	1.1 J	5.0 U	1.4 J	2.4 J	5.0 U
Chloromethane	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cyclohexane	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	UG/L	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromomethane	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Hexachlorobutadiene	UG/L	-	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U
Iodomethane (Methyl iodide)	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene (Cumene)	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl acetate	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl ethyl ketone (2-Butanone)	UG/L	50	R	R	R	R	R
Methyl tert-butyl ether	UG/L	10	5.0 U	0.58 J	5.0 U	0.96 J	5.0 U
Methylcyclohexane	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	UG/L	-	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
sec-Butylbenzene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
tert-Butylbenzene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	UG/L	5	37 J	310 DJ	24 J	1,200 DJ	17 J

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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Detection Limits shown are PQL

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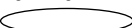
[LOGDATE] BETWEEN #02/27/12# AND #04/20/12# AND [MATRIX] = 'WG' AND NOT [PRCODE] = 'FLD'

TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-015	DEC-015D	DEC-015R	DEC-022D	DEC-027
Sample ID			DEC-015	DEC-015D	DEC-015R	DEC-022D	DEC-027
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/29/12	03/29/12	03/29/12	03/28/12	04/01/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Toluene	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	UG/L	5	7.6	45	6.4	64	190
Trichlorofluoromethane	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	3.4 J
Vinyl acetate	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl chloride	UG/L	2	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Xylene (total)	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	260	120	250	270	260
Chloride	MG/L	250	460	250	450	210	200
Nitrate-Nitrite	MG/L	10	7.06	8.28	9.50	8.72	11.0
Phosphorous, Total (as P)	MG/L	-	0.20	0.23	0.23	0.19	0.077
Sulfate (as SO ₄)	MG/L	250	130	110	110	98	82
Sulfide	MG/L	0.05	0.062	0.030 U	0.030 U	0.030 U	0.030 U
Total Kjeldahl Nitrogen	MG/L	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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Made By: GEK 07/03/2012 Checked By: PRF 07/10/2012

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-028	DEC-028D	DEC-028D	DEC-029	DEC-029D
Sample ID			DEC-028	20120330-FD-1	DEC-028D	DEC-029	DEC-029D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/30/12	03/30/12	03/30/12	03/29/12	03/29/12
Parameter	Units	Criteria*		Field Duplicate (1-1)			
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-	25 U	5.0 U	5.0 U	1.9 J	5.0 U
1,1,1-Trichloroethane	UG/L	5	25 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	UG/L	5	25 U	5.0 U	5.0 U	5.0 UJ	5.0 UJ
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	5	25 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	UG/L	1	25 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	UG/L	5	25 U	2.2 J	2.3 J	0.66 J	0.94 J
1,1-Dichloroethene	UG/L	5	25 U	2.7 J	3.2 J	5.0 U	5.0 U
1,1-Dichloropropene	UG/L	-	25 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,3-Trichlorobenzene	UG/L	-	25 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,3-Trichloropropane	UG/L	-	25 U	5.0 U	5.0 U	5.0 UJ	5.0 UJ
1,2,4-Trichlorobenzene	UG/L	5	25 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,4-Trimethylbenzene	UG/L	-	25 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane	UG/L	0.04	25 U	5.0 U	5.0 U	5.0 UJ	5.0 UJ
1,2-Dibromoethane (Ethylene dibromide)	UG/L	6.00E-04	25 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichlorobenzene	UG/L	3	25 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	UG/L	0.6	25 U	5.0 U	5.0 U	5.0 U	4.6 J
1,2-Dichloroethene (cis)	UG/L	5	27	6.1	7.1	14	3.1 J
1,2-Dichloroethene (trans)	UG/L	5	25 U	5.0 U	1.1 J	5.0 U	5.0 U
1,2-Dichloropropane	UG/L	1	25 U	5.0 U	5.0 U	5.0 U	5.0 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/L	-	25 U	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichlorobenzene	UG/L	3	25 U	5.0 U	5.0 U	5.0 U	5.0 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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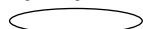
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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-028	DEC-028D	DEC-028D	DEC-029	DEC-029D
Sample ID			DEC-028	20120330-FD-1	DEC-028D	DEC-029	DEC-029D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/30/12	03/30/12	03/30/12	03/29/12	03/29/12
Parameter	Units	Criteria*		Field Duplicate (1-1)			
Volatile Organic Compounds							
1,3-Dichloropropane	UG/L	-	25 U	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichloropropene (cis)	UG/L	0.4	25 U	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichloropropene (trans)	UG/L	0.4	25 U	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dichlorobenzene	UG/L	3	25 U	5.0 U	5.0 U	0.82 J	5.0 U
1,4-Dioxane	UG/L	-	R	R	R	R	R
2,2-Dichloropropane	UG/L	-	25 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Chlorotoluene	UG/L	-	25 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	UG/L	50	25 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Chlorotoluene	UG/L	-	25 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Isopropyltoluene (p-Cymene)	UG/L	-	25 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone	UG/L	-	25 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	50	R	R	R	R	R
Benzene	UG/L	1	25 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromobenzene	UG/L	-	25 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromochloromethane	UG/L	-	25 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	UG/L	50	25 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	UG/L	50	25 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane	UG/L	5	25 UJ	5.0 U	5.0 UJ	5.0 U	5.0 U
Carbon disulfide	UG/L	60	25 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	UG/L	5	25 U	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	UG/L	5	25 U	5.0 U	5.0 U	5.0 U	5.0 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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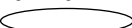
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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-028	DEC-028D	DEC-028D	DEC-029	DEC-029D
Sample ID			DEC-028	20120330-FD-1	DEC-028D	DEC-029	DEC-029D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/30/12	03/30/12	03/30/12	03/29/12	03/29/12
Parameter	Units	Criteria*		Field Duplicate (1-1)			
Volatile Organic Compounds							
Chloroethane	UG/L	5	25 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform	UG/L	7	25 U	5.0 U	5.0 U	2.0 J	5.0 U
Chloromethane	UG/L	5	25 U	5.0 U	5.0 U	5.0 U	5.0 U
Cyclohexane	UG/L	-	25 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	UG/L	50	25 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromomethane	UG/L	-	25 U	5.0 U	5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane	UG/L	5	25 U	5.0 UJ	5.0 U	5.0 U	5.0 U
Ethylbenzene	UG/L	5	25 U	5.0 U	5.0 U	5.0 U	5.0 U
Hexachlorobutadiene	UG/L	-	25 U	5.0 U	5.0 U	5.0 U	5.0 U
Iodomethane (Methyl iodide)	UG/L	-	25 U	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene (Cumene)	UG/L	5	25 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl acetate	UG/L	-	25 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl ethyl ketone (2-Butanone)	UG/L	50	R	R	R	R	R
Methyl tert-butyl ether	UG/L	10	25 U	5.0 U	5.0 U	5.0 U	1.7 J
Methylcyclohexane	UG/L	-	25 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	UG/L	5	25 U	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	UG/L	-	25 U	5.0 U	5.0 U	5.0 UJ	5.0 UJ
sec-Butylbenzene	UG/L	-	25 U	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	UG/L	5	25 U	5.0 U	5.0 U	5.0 U	5.0 U
tert-Butylbenzene	UG/L	-	25 U	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	UG/L	5	320 J	6.0 J	4.6 J	12,000 DJ	19

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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Made By: GEK 07/03/2012 Checked By: PRF 07/10/2012

Detection Limits shown are PQL

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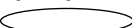
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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-028	DEC-028D	DEC-028D	DEC-029	DEC-029D
Sample ID			DEC-028	20120330-FD-1	DEC-028D	DEC-029	DEC-029D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/30/12	03/30/12	03/30/12	03/29/12	03/29/12
Parameter	Units	Criteria*		Field Duplicate (1-1)			
Volatile Organic Compounds							
Toluene	UG/L	5	25 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	UG/L	5	190	99	97	21	5.0
Trichlorofluoromethane	UG/L	5	25 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl acetate	UG/L	-	25 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl chloride	UG/L	2	25 U	5.0 U	5.0 U	5.0 U	5.0 U
Xylene (total)	UG/L	5	25 U	5.0 U	5.0 U	5.0 U	5.0 U
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	310	180 J	140 J	160	160
Chloride	MG/L	250	230	220	220	210	250
Nitrate-Nitrite	MG/L	10	0.20	0.182 U	0.182 U	4.92	3.92
Phosphorous, Total (as P)	MG/L	-	0.12	0.081	0.082	0.31	0.18
Sulfate (as SO ₄)	MG/L	250	86	320	330	84	170
Sulfide	MG/L	0.05	0.030 U	0.030 U	0.030 U	0.030 U	0.030 U
Total Kjeldahl Nitrogen	MG/L	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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Made By: GEK 07/03/2012 Checked By: PRF 07/10/2012

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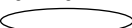
[LOGDATE] BETWEEN #02/27/12# AND #04/20/12# AND [MATRIX] = 'WG' AND NOT [PRC CODE] = 'FLD'

TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-029TC	DEC-029TC	DEC-030	DEC-030	DEC-030D
Sample ID			20120331-FD-1	DEC-029TC	20120327-FD-1	DEC-030	DEC-030D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/31/12	03/31/12	03/27/12	03/27/12	03/27/12
Parameter	Units	Criteria*	Field Duplicate (1-1)		Field Duplicate (1-1)		
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1-Trichloroethane	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	1.1 J
1,1,2,2-Tetrachloroethane	UG/L	5	5.0 U	5.0 U	5.0 UJ	5.0 UJ	5.0 UJ
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	UG/L	1	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	UG/L	5	1.1 J	5.0 U	5.0 U	5.0 U	5.0
1,1-Dichloropropene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,3-Trichlorobenzene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,3-Trichloropropane	UG/L	-	5.0 U	5.0 U	5.0 UJ	5.0 UJ	5.0 UJ
1,2,4-Trichlorobenzene	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,4-Trimethylbenzene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane	UG/L	0.04	5.0 U	5.0 U	5.0 UJ	5.0 UJ	5.0 UJ
1,2-Dibromoethane (Ethylene dibromide)	UG/L	6.00E-04	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichlorobenzene	UG/L	3	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	UG/L	0.6	2,100 D	3,700 D	5.0 U	5.0 U	5.0 U
1,2-Dichloroethene (cis)	UG/L	5	16	14	23	23	0.93 J
1,2-Dichloroethene (trans)	UG/L	5	2.3 J	2.6 J	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	UG/L	1	2.1 J	2.2 J	5.0 U	5.0 U	5.0 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichlorobenzene	UG/L	3	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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 Concentration Exceeds Criteria

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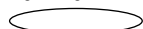
[LOGDATE] BETWEEN #02/27/12# AND #04/20/12# AND [MATRIX] = 'WG' AND NOT [PRCODE] = 'FLD'

TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-029TC	DEC-029TC	DEC-030	DEC-030	DEC-030D
Sample ID			20120331-FD-1	DEC-029TC	20120327-FD-1	DEC-030	DEC-030D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/31/12	03/31/12	03/27/12	03/27/12	03/27/12
Parameter	Units	Criteria*	Field Duplicate (1-1)		Field Duplicate (1-1)		
Volatile Organic Compounds							
1,3-Dichloropropane	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichloropropene (cis)	UG/L	0.4	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichloropropene (trans)	UG/L	0.4	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dichlorobenzene	UG/L	3	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dioxane	UG/L	-	R	R	R	R	R
2,2-Dichloropropane	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Chlorotoluene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	UG/L	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Chlorotoluene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Isopropyltoluene (p-Cymene)	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	50	R	R	R	R	R
Benzene	UG/L	1	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromobenzene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromochloromethane	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	UG/L	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	UG/L	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane	UG/L	5	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	UG/L	60	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-029TC	DEC-029TC	DEC-030	DEC-030	DEC-030D
Sample ID			20120331-FD-1	DEC-029TC	20120327-FD-1	DEC-030	DEC-030D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/31/12	03/31/12	03/27/12	03/27/12	03/27/12
Parameter	Units	Criteria*	Field Duplicate (1-1)		Field Duplicate (1-1)		
Volatile Organic Compounds							
Chloroethane	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform	UG/L	7	5.0 U	5.0 U	0.65 J	0.63 J	5.0 U
Chloromethane	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cyclohexane	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	UG/L	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromomethane	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane	UG/L	5	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U
Ethylbenzene	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Hexachlorobutadiene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Iodomethane (Methyl iodide)	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene (Cumene)	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl acetate	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl ethyl ketone (2-Butanone)	UG/L	50	R	R	R	R	R
Methyl tert-butyl ether	UG/L	10	5.0 U	5.0 U	5.0 U	5.0 U	1.8 J
Methylcyclohexane	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
sec-Butylbenzene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
tert-Butylbenzene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	UG/L	5	4,500 DJ	2,300 DJ	1,900 DJ	1,900 DJ	33 J

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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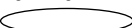
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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-029TC	DEC-029TC	DEC-030	DEC-030	DEC-030D
Sample ID			20120331-FD-1	DEC-029TC	20120327-FD-1	DEC-030	DEC-030D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/31/12	03/31/12	03/27/12	03/27/12	03/27/12
Parameter	Units	Criteria*	Field Duplicate (1-1)		Field Duplicate (1-1)		
Volatile Organic Compounds							
Toluene	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	UG/L	5	300 D	300 D	27	27	57
Trichlorofluoromethane	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl acetate	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl chloride	UG/L	2	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Xylene (total)	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	260	310	90	90	140
Chloride	MG/L	250	2,400	2,500	310	310	210
Nitrate-Nitrite	MG/L	10	0.182 U	0.182 U	5.64	5.54	8.72
Phosphorous, Total (as P)	MG/L	-	0.10	0.086	0.39	0.36	0.28
Sulfate (as SO ₄)	MG/L	250	720	720	130	130	160
Sulfide	MG/L	0.05	0.030 U	0.030 U	0.030 U	0.030 U	0.030 U
Total Kjeldahl Nitrogen	MG/L	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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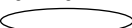
[LOGDATE] BETWEEN #02/27/12# AND #04/20/12# AND [MATRIX] = 'WG' AND NOT [PRC CODE] = 'FLD'

TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-031	DEC-031	DEC-031D	DEC-031TC	DEC-032
Sample ID			DEC-031	DEC-031	DEC-031D	DEC-031TC	DEC-032
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			04/01/12	04/20/12	03/31/12	03/30/12	03/27/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-	NA	3.8 J	5.0 U	5.0 U	5.0 U
1,1,1-Trichloroethane	UG/L	5	NA	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	UG/L	5	NA	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	5	NA	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	UG/L	1	NA	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	UG/L	5	NA	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	UG/L	5	NA	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloropropene	UG/L	-	NA	5.0 U	5.0 U	5.0 U	5.0 U
1,2,3-Trichlorobenzene	UG/L	-	NA	5.0 U	5.0 U	5.0 U	5.0 U
1,2,3-Trichloropropane	UG/L	-	NA	5.0 U	5.0 U	5.0 U	5.0 U
1,2,4-Trichlorobenzene	UG/L	5	NA	5.0 U	5.0 U	5.0 U	5.0 U
1,2,4-Trimethylbenzene	UG/L	-	NA	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane	UG/L	0.04	NA	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	6.00E-04	NA	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichlorobenzene	UG/L	3	NA	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	UG/L	0.6	NA	5.0 U	130	5.0 U	5.0 U
1,2-Dichloroethene (cis)	UG/L	5	NA	22	5.0 U	5.0 U	5.0 U
1,2-Dichloroethene (trans)	UG/L	5	NA	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	UG/L	1	NA	5.0 U	5.0 U	5.0 U	5.0 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/L	-	NA	5.0 U	5.0 U	5.0 UJ	5.0 U
1,3-Dichlorobenzene	UG/L	3	NA	5.0 U	5.0 U	5.0 UJ	5.0 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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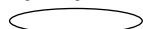
[LOGDATE] BETWEEN #02/27/12# AND #04/20/12# AND [MATRIX] = 'WG' AND NOT [PRCODE] = 'FLD'

TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-031	DEC-031	DEC-031D	DEC-031TC	DEC-032
Sample ID			DEC-031	DEC-031	DEC-031D	DEC-031TC	DEC-032
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			04/01/12	04/20/12	03/31/12	03/30/12	03/27/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,3-Dichloropropane	UG/L	-	NA	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichloropropene (cis)	UG/L	0.4	NA	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichloropropene (trans)	UG/L	0.4	NA	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dichlorobenzene	UG/L	3	NA	1.0 J	5.0 U	5.0 UJ	5.0 U
1,4-Dioxane	UG/L	-	NA	R	R	R	R
2,2-Dichloropropane	UG/L	-	NA	5.0 U	5.0 U	5.0 U	5.0 U
2-Chlorotoluene	UG/L	-	NA	5.0 U	5.0 U	5.0 UJ	5.0 U
2-Hexanone	UG/L	50	NA	5.0 U	5.0 U	5.0 U	5.0 U
4-Chlorotoluene	UG/L	-	NA	5.0 U	5.0 U	5.0 UJ	5.0 U
4-Isopropyltoluene (p-Cymene)	UG/L	-	NA	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone	UG/L	-	NA	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	50	NA	R	R	R	R
Benzene	UG/L	1	NA	5.0 U	5.0 U	5.0 U	5.0 U
Bromobenzene	UG/L	-	NA	5.0 U	5.0 U	5.0 UJ	5.0 U
Bromochloromethane	UG/L	-	NA	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	UG/L	50	NA	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	UG/L	50	NA	5.0 U	5.0 U	5.0 U	5.0 UJ
Bromomethane	UG/L	5	NA	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	UG/L	60	NA	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	UG/L	5	NA	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	UG/L	5	NA	5.0 U	5.0 U	5.0 UJ	5.0 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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Concentration Exceeds Criteria

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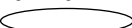
[LOGDATE] BETWEEN #02/27/12# AND #04/20/12# AND [MATRIX] = 'WG' AND NOT [PRCCODE] = 'FLD'

TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-031	DEC-031	DEC-031D	DEC-031TC	DEC-032
Sample ID			DEC-031	DEC-031	DEC-031D	DEC-031TC	DEC-032
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			04/01/12	04/20/12	03/31/12	03/30/12	03/27/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Chloroethane	UG/L	5	NA	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform	UG/L	7	NA	6.2	5.0 U	1.3 J	5.0 U
Chloromethane	UG/L	5	NA	5.0 UJ	5.0 U	5.0 U	5.0 U
Cyclohexane	UG/L	-	NA	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	UG/L	50	NA	5.0 U	5.0 U	5.0 U	5.0 UJ
Dibromomethane	UG/L	-	NA	5.0 U	5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane	UG/L	5	NA	5.0 U	5.0 U	5.0 UJ	5.0 U
Ethylbenzene	UG/L	5	NA	5.0 U	5.0 U	5.0 U	5.0 U
Hexachlorobutadiene	UG/L	-	NA	5.0 U	5.0 U	5.0 U	5.0 U
Iodomethane (Methyl iodide)	UG/L	-	NA	5.0 UJ	5.0 U	5.0 UJ	5.0 U
Isopropylbenzene (Cumene)	UG/L	5	NA	5.0 U	5.0 U	5.0 U	5.0 U
Methyl acetate	UG/L	-	NA	5.0 U	5.0 U	5.0 U	5.0 U
Methyl ethyl ketone (2-Butanone)	UG/L	50	NA	R	R	R	R
Methyl tert-butyl ether	UG/L	10	NA	5.0 U	5.0 U	5.0 U	5.0 U
Methylcyclohexane	UG/L	-	NA	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	UG/L	5	NA	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	UG/L	-	NA	5.0 U	5.0 UJ	5.0 U	5.0 U
sec-Butylbenzene	UG/L	-	NA	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	UG/L	5	NA	5.0 U	5.0 U	5.0 U	5.0 U
tert-Butylbenzene	UG/L	-	NA	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	UG/L	5	NA	9,200 DJ	3.6 J	1.9 J	5.0 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria

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Detection Limits shown are PQL

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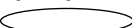
[LOGDATE] BETWEEN #02/27/12# AND #04/20/12# AND [MATRIX] = 'WG' AND NOT [PRCODE] = 'FLD'

TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-031	DEC-031	DEC-031D	DEC-031TC	DEC-032
Sample ID			DEC-031	DEC-031	DEC-031D	DEC-031TC	DEC-032
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			04/01/12	04/20/12	03/31/12	03/30/12	03/27/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Toluene	UG/L	5	NA	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	UG/L	5	NA	35	5.0 U	5.0 U	5.0 U
Trichlorofluoromethane	UG/L	5	NA	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl acetate	UG/L	-	NA	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl chloride	UG/L	2	NA	5.0 U	5.0 U	5.0 U	5.0 U
Xylene (total)	UG/L	5	NA	5.0 U	5.0 U	5.0 UJ	5.0 U
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	170	NA	150	91	90
Chloride	MG/L	250	130	NA	250	180	200
Nitrate-Nitrite	MG/L	10	2.76	NA	5.28	0.182 U	0.182 U
Phosphorous, Total (as P)	MG/L	-	0.082	NA	0.089	0.16	0.10
Sulfate (as SO ₄)	MG/L	250	48	NA	210	2.6 J	10.0
Sulfide	MG/L	0.05	0.030 U	NA	0.030 U	0.030 U	0.030 U
Total Kjeldahl Nitrogen	MG/L	-	0.20 U	NA	0.20 U	0.20 U	0.20 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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 Concentration Exceeds Criteria

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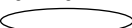
[LOGDATE] BETWEEN #02/27/12# AND #04/20/12# AND [MATRIX] = 'WG' AND NOT [PRC CODE] = 'FLD'

TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-033	DEC-039	DEC-042	DEC-043	DEC-043D
Sample ID			DEC-033	DEC-039	DEC-042	DEC-043	DEC-043D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/30/12	03/28/12	03/30/12	03/29/12	03/29/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1-Trichloroethane	UG/L	5	5.0 U	6.9	12	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	UG/L	5	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	UG/L	1	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	UG/L	5	5.0 U	4.2 J	4.9 J	5.0 U	5.0 U
1,1-Dichloroethene	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloropropene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,3-Trichlorobenzene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,3-Trichloropropane	UG/L	-	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U
1,2,4-Trichlorobenzene	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,4-Trimethylbenzene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane	UG/L	0.04	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	6.00E-04	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichlorobenzene	UG/L	3	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	UG/L	0.6	5.0 U	5.0 U	5.0 U	5.0 U	4.6 J
1,2-Dichloroethene (cis)	UG/L	5	5.0 U	23	15	5.0 U	5.0 U
1,2-Dichloroethene (trans)	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	UG/L	1	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichlorobenzene	UG/L	3	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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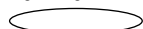
[LOGDATE] BETWEEN #02/27/12# AND #04/20/12# AND [MATRIX] = 'WG' AND NOT [PRCODE] = 'FLD'

TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-033	DEC-039	DEC-042	DEC-043	DEC-043D
Sample ID			DEC-033	DEC-039	DEC-042	DEC-043	DEC-043D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/30/12	03/28/12	03/30/12	03/29/12	03/29/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,3-Dichloropropane	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichloropropene (cis)	UG/L	0.4	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichloropropene (trans)	UG/L	0.4	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dichlorobenzene	UG/L	3	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dioxane	UG/L	-	R	R	R	R	R
2,2-Dichloropropane	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Chlorotoluene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	UG/L	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Chlorotoluene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Isopropyltoluene (p-Cymene)	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	50	R	R	R	R	R
Benzene	UG/L	1	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromobenzene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromochloromethane	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	UG/L	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	UG/L	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	UG/L	60	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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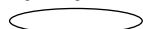
[LOGDATE] BETWEEN #02/27/12# AND #04/20/12# AND [MATRIX] = 'WG' AND NOT [PRCODE] = 'FLD'

TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-033	DEC-039	DEC-042	DEC-043	DEC-043D
Sample ID			DEC-033	DEC-039	DEC-042	DEC-043	DEC-043D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/30/12	03/28/12	03/30/12	03/29/12	03/29/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Chloroethane	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform	UG/L	7	5.0 U	5.0 U	1.3 J	5.0 U	5.0 U
Chloromethane	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cyclohexane	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	UG/L	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromomethane	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane	UG/L	5	5.0 UJ	5.0 U	5.0 UJ	5.0 UJ	5.0 UJ
Ethylbenzene	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Hexachlorobutadiene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Iodomethane (Methyl iodide)	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene (Cumene)	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl acetate	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl ethyl ketone (2-Butanone)	UG/L	50	R	R	R	R	R
Methyl tert-butyl ether	UG/L	10	5.0 U	5.0 U	5.0 U	5.0 U	0.60 J
Methylcyclohexane	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	UG/L	-	5.0 UJ	5.0 UJ	5.0 U	5.0 UJ	5.0 UJ
sec-Butylbenzene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
tert-Butylbenzene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	UG/L	5	2.1 J	62 J	72 J	14 J	8.2 J

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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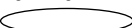
[LOGDATE] BETWEEN #02/27/12# AND #04/20/12# AND [MATRIX] = 'WG' AND NOT [PRCCODE] = 'FLD'

TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-033	DEC-039	DEC-042	DEC-043	DEC-043D
Sample ID			DEC-033	DEC-039	DEC-042	DEC-043	DEC-043D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/30/12	03/28/12	03/30/12	03/29/12	03/29/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Toluene	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	UG/L	5	0.85 J	150	48	1.3 J	1.3 J
Trichlorofluoromethane	UG/L	5	5.0 U	11	13	5.0 U	5.0 U
Vinyl acetate	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl chloride	UG/L	2	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Xylene (total)	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	140	210	190	250	190
Chloride	MG/L	250	900	200	190	68	220
Nitrate-Nitrite	MG/L	10	1.17	19.2	16.4	2.26	2.40
Phosphorous, Total (as P)	MG/L	-	0.50	0.28	0.15	0.083	0.11
Sulfate (as SO ₄)	MG/L	250	150	120	96	69	110
Sulfide	MG/L	0.05	0.030 U	0.030 U	0.030 U	0.030 U	0.030 U
Total Kjeldahl Nitrogen	MG/L	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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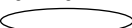
[LOGDATE] BETWEEN #02/27/12# AND #04/20/12# AND [MATRIX] = 'WG' AND NOT [PRC CODE] = 'FLD'

TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-044	DEC-044D	DEC-044D	DEC-045	DEC-045D
Sample ID			DEC-044	20120401-FD-1	DEC-044D	DEC-045	DEC-045D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/31/12	04/01/12	04/01/12	03/27/12	03/27/12
Parameter	Units	Criteria*		Field Duplicate (1-1)			
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-	50 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1-Trichloroethane	UG/L	5	50 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	UG/L	5	50 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	5	50 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	UG/L	1	50 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	UG/L	5	50 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	UG/L	5	50 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloropropene	UG/L	-	50 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,3-Trichlorobenzene	UG/L	-	50 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,3-Trichloropropane	UG/L	-	50 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,4-Trichlorobenzene	UG/L	5	50 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,4-Trimethylbenzene	UG/L	-	50 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane	UG/L	0.04	50 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	6.00E-04	50 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichlorobenzene	UG/L	3	50 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	UG/L	0.6	50 U	300 D	280 D	5.0 U	53
1,2-Dichloroethene (cis)	UG/L	5	50 U	5.0 U	5.0 U	1.5 J	5.0 U
1,2-Dichloroethene (trans)	UG/L	5	50 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	UG/L	1	50 U	5.0 U	5.0 U	5.0 U	5.0 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/L	-	50 U	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichlorobenzene	UG/L	3	50 U	5.0 U	5.0 U	5.0 U	5.0 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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 Concentration Exceeds Criteria

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Made By: GEK 07/03/2012 Checked By: PRF 07/10/2012

Detection Limits shown are PQL

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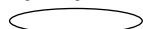
[LOGDATE] BETWEEN #02/27/12# AND #04/20/12# AND [MATRIX] = 'WG' AND NOT [PRCODE] = 'FLD'

TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-044	DEC-044D	DEC-044D	DEC-045	DEC-045D
Sample ID			DEC-044	20120401-FD-1	DEC-044D	DEC-045	DEC-045D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/31/12	04/01/12	04/01/12	03/27/12	03/27/12
Parameter	Units	Criteria*		Field Duplicate (1-1)			
Volatile Organic Compounds							
1,3-Dichloropropane	UG/L	-	50 U	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichloropropene (cis)	UG/L	0.4	50 U	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichloropropene (trans)	UG/L	0.4	50 U	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dichlorobenzene	UG/L	3	50 U	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dioxane	UG/L	-	R	R	R	R	R
2,2-Dichloropropane	UG/L	-	50 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Chlorotoluene	UG/L	-	50 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	UG/L	50	50 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Chlorotoluene	UG/L	-	50 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Isopropyltoluene (p-Cymene)	UG/L	-	50 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone	UG/L	-	50 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	50	R	R	R	R	R
Benzene	UG/L	1	50 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromobenzene	UG/L	-	50 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromochloromethane	UG/L	-	50 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	UG/L	50	50 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	UG/L	50	50 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane	UG/L	5	50 U	5.0 UJ	5.0 UJ	5.0 U	5.0 U
Carbon disulfide	UG/L	60	50 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	UG/L	5	50 U	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	UG/L	5	50 U	5.0 U	5.0 U	5.0 U	5.0 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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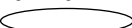
[LOGDATE] BETWEEN #02/27/12# AND #04/20/12# AND [MATRIX] = 'WG' AND NOT [PRCODE] = 'FLD'

TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-044	DEC-044D	DEC-044D	DEC-045	DEC-045D
Sample ID			DEC-044	20120401-FD-1	DEC-044D	DEC-045	DEC-045D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/31/12	04/01/12	04/01/12	03/27/12	03/27/12
Parameter	Units	Criteria*		Field Duplicate (1-1)			
Volatile Organic Compounds							
Chloroethane	UG/L	5	50 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform	UG/L	7	50 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane	UG/L	5	50 U	5.0 U	5.0 U	5.0 U	5.0 U
Cyclohexane	UG/L	-	50 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	UG/L	50	50 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromomethane	UG/L	-	50 U	5.0 U	5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane	UG/L	5	50 UJ	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	UG/L	5	50 U	5.0 U	5.0 U	5.0 U	5.0 U
Hexachlorobutadiene	UG/L	-	50 U	5.0 U	5.0 U	5.0 U	5.0 U
Iodomethane (Methyl iodide)	UG/L	-	50 U	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene (Cumene)	UG/L	5	50 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl acetate	UG/L	-	50 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl ethyl ketone (2-Butanone)	UG/L	50	R	R	R	R	R
Methyl tert-butyl ether	UG/L	10	50 U	5.0 U	5.0 U	5.0 U	2.1 J
Methylcyclohexane	UG/L	-	50 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	UG/L	5	50 U	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	UG/L	-	50 U	5.0 U	5.0 U	5.0 U	5.0 U
sec-Butylbenzene	UG/L	-	50 U	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	UG/L	5	50 U	5.0 U	5.0 U	5.0 U	5.0 U
tert-Butylbenzene	UG/L	-	50 U	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	UG/L	5	890 J	5.0 UJ	5.0 UJ	38	5.0 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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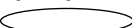
[LOGDATE] BETWEEN #02/27/12# AND #04/20/12# AND [MATRIX] = 'WG' AND NOT [PRCODE] = 'FLD'

TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-044	DEC-044D	DEC-044D	DEC-045	DEC-045D
Sample ID			DEC-044	20120401-FD-1	DEC-044D	DEC-045	DEC-045D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/31/12	04/01/12	04/01/12	03/27/12	03/27/12
Parameter	Units	Criteria*		Field Duplicate (1-1)			
Volatile Organic Compounds							
Toluene	UG/L	5	50 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	UG/L	5	49 J	5.0 U	1.1 J	1.3 J	5.0 U
Trichlorofluoromethane	UG/L	5	50 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl acetate	UG/L	-	50 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl chloride	UG/L	2	50 U	5.0 U	5.0 U	5.0 U	5.0 U
Xylene (total)	UG/L	5	50 U	5.0 U	5.0 U	5.0 U	5.0 U
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	100	180	180	190	220
Chloride	MG/L	250	40	280	280	160	220
Nitrate-Nitrite	MG/L	10	0.774	4.52	4.94	1.72	6.64
Phosphorous, Total (as P)	MG/L	-	0.067	0.13	0.15	0.18	0.095
Sulfate (as SO ₄)	MG/L	250	36	350	360	36	170
Sulfide	MG/L	0.05	0.030 U	0.030 U	0.030 U	0.030 U	0.030 U
Total Kjeldahl Nitrogen	MG/L	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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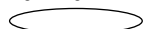
[LOGDATE] BETWEEN #02/27/12# AND #04/20/12# AND [MATRIX] = 'WG' AND NOT [PRC CODE] = 'FLD'

TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-046	DEC-046D	DEC-047	DEC-048	DEC-048
Sample ID			DEC-046	DEC-046D	DEC-047	20120329-FD-1	DEC-048
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/26/12	03/26/12	03/29/12	03/29/12	03/29/12
Parameter	Units	Criteria*				Field Duplicate (1-1)	
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1-Trichloroethane	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	UG/L	1	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloropropene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,3-Trichlorobenzene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,3-Trichloropropane	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,4-Trichlorobenzene	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,4-Trimethylbenzene	UG/L	-	5.0 U	5.0 U	5.0 U	1.0 J	0.95 J
1,2-Dibromo-3-chloropropane	UG/L	0.04	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	6.00E-04	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichlorobenzene	UG/L	3	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	UG/L	0.6	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethene (cis)	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethene (trans)	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	UG/L	1	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichlorobenzene	UG/L	3	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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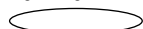
[LOGDATE] BETWEEN #02/27/12# AND #04/20/12# AND [MATRIX] = 'WG' AND NOT [PRCODE] = 'FLD'

TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-046	DEC-046D	DEC-047	DEC-048	DEC-048
Sample ID			DEC-046	DEC-046D	DEC-047	20120329-FD-1	DEC-048
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/26/12	03/26/12	03/29/12	03/29/12	03/29/12
Parameter	Units	Criteria*				Field Duplicate (1-1)	
Volatile Organic Compounds							
1,3-Dichloropropane	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichloropropene (cis)	UG/L	0.4	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichloropropene (trans)	UG/L	0.4	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dichlorobenzene	UG/L	3	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dioxane	UG/L	-	R	R	R	R	R
2,2-Dichloropropane	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Chlorotoluene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	UG/L	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Chlorotoluene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Isopropyltoluene (p-Cymene)	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	50	R	R	R	R	R
Benzene	UG/L	1	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromobenzene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromochloromethane	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	UG/L	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	UG/L	50	5.0 UJ	5.0 UJ	5.0 U	5.0 U	5.0 U
Bromomethane	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	UG/L	60	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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[LOGDATE] BETWEEN #02/27/12# AND #04/20/12# AND [MATRIX] = 'WG' AND NOT [PRCCODE] = 'FLD'

TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-046	DEC-046D	DEC-047	DEC-048	DEC-048
Sample ID			DEC-046	DEC-046D	DEC-047	20120329-FD-1	DEC-048
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/26/12	03/26/12	03/29/12	03/29/12	03/29/12
Parameter	Units	Criteria*				Field Duplicate (1-1)	
Volatile Organic Compounds							
Chloroethane	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform	UG/L	7	1.6 J	2.5 J	5.0 U	5.0 U	5.0 U
Chloromethane	UG/L	5	5.0 U	1.1 J	5.0 U	5.0 U	5.0 U
Cyclohexane	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	UG/L	50	5.0 UJ	5.0 UJ	5.0 U	5.0 U	5.0 U
Dibromomethane	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane	UG/L	5	5.0 U	5.0 U	5.0 UJ	5.0 UJ	5.0 UJ
Ethylbenzene	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Hexachlorobutadiene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Iodomethane (Methyl iodide)	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene (Cumene)	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl acetate	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl ethyl ketone (2-Butanone)	UG/L	50	R	R	R	R	R
Methyl tert-butyl ether	UG/L	10	5.0 U	5.0 U	36	5.0 U	5.0 U
Methylcyclohexane	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	UG/L	-	5.0 U	5.0 U	5.0 UJ	1.8 J	5.0 UJ
sec-Butylbenzene	UG/L	-	5.0 U	5.0 U	5.0 U	0.69 J	5.0 U
Styrene	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
tert-Butylbenzene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	UG/L	5	7.4	3.5 J	2.5 J	4.3 J	4.4 J

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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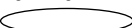
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VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-046	DEC-046D	DEC-047	DEC-048	DEC-048
Sample ID			DEC-046	DEC-046D	DEC-047	20120329-FD-1	DEC-048
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/26/12	03/26/12	03/29/12	03/29/12	03/29/12
Parameter	Units	Criteria*				Field Duplicate (1-1)	
Volatile Organic Compounds							
Toluene	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	UG/L	5	2.4 J	3.3 J	0.67 J	1.3 J	1.3 J
Trichlorofluoromethane	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl acetate	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl chloride	UG/L	2	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Xylene (total)	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	150	130	150	150	140
Chloride	MG/L	250	160	170	410	140	140
Nitrate-Nitrite	MG/L	10	6.16	3.66	2.22	7.92	7.32
Phosphorous, Total (as P)	MG/L	-	0.16	0.31	0.12	0.097	0.092
Sulfate (as SO ₄)	MG/L	250	78	220	110	83	85
Sulfide	MG/L	0.05	0.030 U	0.030 U	0.030 U	0.030 U	0.030 U
Total Kjeldahl Nitrogen	MG/L	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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Detection Limits shown are PQL

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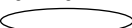
[LOGDATE] BETWEEN #02/27/12# AND #04/20/12# AND [MATRIX] = 'WG' AND NOT [PRCODE] = 'FLD'

TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-064	DEC-064D	DEC-065	DEC-065D	DEC-066
Sample ID			DEC-064	DEC-064D	DEC-065	DEC-065D	DEC-066
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/28/12	03/28/12	03/31/12	03/31/12	03/27/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-	5.0 U	5.0 U	10 U	25 U	5.0 U
1,1,1-Trichloroethane	UG/L	5	5.0 U	1.6 J	10 U	14 J	5.0 U
1,1,2,2-Tetrachloroethane	UG/L	5	5.0 U	5.0 U	10 U	25 U	5.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	5	5.0 U	5.0 U	10 U	25 U	5.0 U
1,1,2-Trichloroethane	UG/L	1	5.0 U	5.0 U	10 U	25 U	5.0 U
1,1-Dichloroethane	UG/L	5	5.0 U	0.81 J	10 U	5.9 J	5.0 U
1,1-Dichloroethene	UG/L	5	5.0 U	6.3	10 U	75	5.0 U
1,1-Dichloropropene	UG/L	-	5.0 U	5.0 U	10 U	25 U	5.0 U
1,2,3-Trichlorobenzene	UG/L	-	5.0 U	5.0 U	10 U	25 U	5.0 U
1,2,3-Trichloropropane	UG/L	-	5.0 U	5.0 U	10 U	25 U	5.0 U
1,2,4-Trichlorobenzene	UG/L	5	5.0 U	5.0 U	10 U	25 U	5.0 U
1,2,4-Trimethylbenzene	UG/L	-	5.0 U	5.0 U	10 U	25 U	5.0 U
1,2-Dibromo-3-chloropropane	UG/L	0.04	5.0 U	5.0 U	10 U	25 U	5.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	6.00E-04	5.0 U	5.0 U	10 U	25 U	5.0 U
1,2-Dichlorobenzene	UG/L	3	5.0 U	5.0 U	10 U	25 U	5.0 U
1,2-Dichloroethane	UG/L	0.6	5.0 U	5.0 U	10 U	25 U	5.0 U
1,2-Dichloroethene (cis)	UG/L	5	2.2 J	1.1 J	10 U	8.8 J	3.9 J
1,2-Dichloroethene (trans)	UG/L	5	5.0 U	5.0 U	10 U	25 U	5.0 U
1,2-Dichloropropane	UG/L	1	5.0 U	5.0 U	10 U	25 U	5.0 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/L	-	5.0 U	5.0 U	10 U	25 U	5.0 U
1,3-Dichlorobenzene	UG/L	3	5.0 U	5.0 U	10 U	25 U	5.0 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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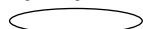
Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-064	DEC-064D	DEC-065	DEC-065D	DEC-066
Sample ID			DEC-064	DEC-064D	DEC-065	DEC-065D	DEC-066
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/28/12	03/28/12	03/31/12	03/31/12	03/27/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,3-Dichloropropane	UG/L	-	5.0 U	5.0 U	10 U	25 U	5.0 U
1,3-Dichloropropene (cis)	UG/L	0.4	5.0 U	5.0 U	10 U	25 U	5.0 U
1,3-Dichloropropene (trans)	UG/L	0.4	5.0 U	5.0 U	10 U	25 U	5.0 U
1,4-Dichlorobenzene	UG/L	3	5.0 U	5.0 U	10 U	25 U	5.0 U
1,4-Dioxane	UG/L	-	R	R	R	R	R
2,2-Dichloropropane	UG/L	-	5.0 U	5.0 U	10 U	25 U	5.0 U
2-Chlorotoluene	UG/L	-	5.0 U	5.0 U	10 U	25 U	5.0 U
2-Hexanone	UG/L	50	5.0 U	5.0 U	10 U	25 U	5.0 U
4-Chlorotoluene	UG/L	-	5.0 U	5.0 U	10 U	25 U	5.0 U
4-Isopropyltoluene (p-Cymene)	UG/L	-	5.0 U	5.0 U	10 U	25 U	5.0 U
4-Methyl-2-pentanone	UG/L	-	5.0 U	5.0 U	10 U	25 U	5.0 U
Acetone	UG/L	50	R	R	R	R	R
Benzene	UG/L	1	5.0 U	5.0 U	10 U	25 U	5.0 U
Bromobenzene	UG/L	-	5.0 U	5.0 U	10 U	25 U	5.0 U
Bromochloromethane	UG/L	-	5.0 U	5.0 U	10 U	25 U	5.0 U
Bromodichloromethane	UG/L	50	5.0 U	5.0 U	10 U	25 U	5.0 U
Bromoform	UG/L	50	5.0 U	5.0 U	10 U	25 U	5.0 UJ
Bromomethane	UG/L	5	5.0 UJ	5.0 U	10 UJ	25 U	5.0 U
Carbon disulfide	UG/L	60	5.0 U	5.0 U	10 U	25 U	5.0 U
Carbon tetrachloride	UG/L	5	5.0 U	5.0 U	10 U	25 U	5.0 U
Chlorobenzene	UG/L	5	5.0 U	5.0 U	10 U	25 U	5.0 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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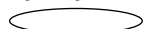
Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-064	DEC-064D	DEC-065	DEC-065D	DEC-066
Sample ID			DEC-064	DEC-064D	DEC-065	DEC-065D	DEC-066
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/28/12	03/28/12	03/31/12	03/31/12	03/27/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Chloroethane	UG/L	5	5.0 U	5.0 U	10 U	25 U	5.0 U
Chloroform	UG/L	7	2.2 J	5.0 U	10 U	25 U	5.0 U
Chloromethane	UG/L	5	5.0 UJ	5.0 U	10 U	25 U	5.0 U
Cyclohexane	UG/L	-	5.0 U	5.0 U	10 U	25 U	5.0 U
Dibromochloromethane	UG/L	50	5.0 U	5.0 U	10 U	25 U	5.0 UJ
Dibromomethane	UG/L	-	5.0 U	5.0 U	10 U	25 U	5.0 U
Dichlorodifluoromethane	UG/L	5	5.0 UJ	5.0 UJ	10 U	25 UJ	5.0 U
Ethylbenzene	UG/L	5	5.0 U	5.0 U	10 U	25 U	5.0 U
Hexachlorobutadiene	UG/L	-	5.0 U	5.0 U	10 U	25 U	5.0 U
Iodomethane (Methyl iodide)	UG/L	-	5.0 U	5.0 U	10 U	25 U	5.0 U
Isopropylbenzene (Cumene)	UG/L	5	5.0 U	5.0 U	10 U	25 U	5.0 U
Methyl acetate	UG/L	-	5.0 U	5.0 U	10 U	25 U	5.0 U
Methyl ethyl ketone (2-Butanone)	UG/L	50	R	R	R	R	R
Methyl tert-butyl ether	UG/L	10	5.0 U	1.6 J	10 U	25 U	5.0 U
Methylcyclohexane	UG/L	-	5.0 U	5.0 U	10 U	25 U	5.0 U
Methylene chloride	UG/L	5	5.0 U	5.0 U	10 U	25 U	5.0 U
Naphthalene	UG/L	-	5.0 U	5.0 UJ	10 U	25 U	5.0 U
sec-Butylbenzene	UG/L	-	5.0 U	5.0 U	10 U	25 U	5.0 U
Styrene	UG/L	5	5.0 U	5.0 U	10 U	25 U	5.0 U
tert-Butylbenzene	UG/L	-	5.0 U	5.0 U	10 U	25 U	5.0 U
Tetrachloroethene	UG/L	5	140 DJ	14 J	200 J	65 J	42

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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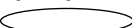
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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-064	DEC-064D	DEC-065	DEC-065D	DEC-066
Sample ID			DEC-064	DEC-064D	DEC-065	DEC-065D	DEC-066
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/28/12	03/28/12	03/31/12	03/31/12	03/27/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Toluene	UG/L	5	5.0 U	5.0 U	10 U	25 U	5.0 U
Trichloroethene	UG/L	5	4.5 J	80	2.5 J	470	2.3 J
Trichlorofluoromethane	UG/L	5	5.0 U	5.0 U	10 U	25 U	5.0 U
Vinyl acetate	UG/L	-	5.0 U	5.0 U	10 U	25 U	5.0 U
Vinyl chloride	UG/L	2	5.0 U	5.0 U	10 U	25 U	5.0 U
Xylene (total)	UG/L	5	5.0 U	5.0 U	10 U	25 U	5.0 U
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	70	130	150	140	110
Chloride	MG/L	250	390	250	140	240	110
Nitrate-Nitrite	MG/L	10	5.88	8.18	1.96	3.88	0.976
Phosphorous, Total (as P)	MG/L	-	0.071	0.24	0.13	0.16	0.13
Sulfate (as SO ₄)	MG/L	250	100	140	57	150	23
Sulfide	MG/L	0.05	0.030 U	0.030 U	0.030 U	0.030 U	0.030 U
Total Kjeldahl Nitrogen	MG/L	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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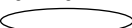
Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-066D	DEC-088	DEC-088D	DEC-089	DEC-089D
Sample ID			DEC-066D	DEC-088	DEC-088D	DEC-089	DEC-089D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/27/12	03/27/12	03/27/12	03/27/12	03/27/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-	5.0 U	5.0 U	10 U	5.0 U	50 U
1,1,1-Trichloroethane	UG/L	5	5.0 U	5.0 U	10 U	5.0 U	50 U
1,1,2,2-Tetrachloroethane	UG/L	5	5.0 U	5.0 U	10 U	5.0 U	50 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	5	5.0 U	5.0 U	10 U	5.0 U	50 U
1,1,2-Trichloroethane	UG/L	1	5.0 U	5.0 U	10 U	5.0 U	50 U
1,1-Dichloroethane	UG/L	5	5.0 U	5.0 U	10 U	5.0 U	50 U
1,1-Dichloroethene	UG/L	5	5.0 U	5.0 U	10 U	5.0 U	50 U
1,1-Dichloropropene	UG/L	-	5.0 U	5.0 U	10 U	5.0 U	50 U
1,2,3-Trichlorobenzene	UG/L	-	5.0 U	5.0 U	10 U	5.0 U	50 UJ
1,2,3-Trichloropropane	UG/L	-	5.0 U	5.0 U	10 U	5.0 U	50 UJ
1,2,4-Trichlorobenzene	UG/L	5	5.0 U	5.0 U	10 U	5.0 U	50 U
1,2,4-Trimethylbenzene	UG/L	-	5.0 U	5.0 U	10 U	5.0 U	50 U
1,2-Dibromo-3-chloropropane	UG/L	0.04	5.0 U	5.0 U	10 U	5.0 U	50 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	6.00E-04	5.0 U	5.0 U	10 U	5.0 U	50 U
1,2-Dichlorobenzene	UG/L	3	5.0 U	5.0 U	10 U	5.0 U	50 U
1,2-Dichloroethane	UG/L	0.6	22	5.0 U	2.8 J	5.0 U	23 J
1,2-Dichloroethene (cis)	UG/L	5	5.0 U	1.0 J	10 U	1.5 J	50 U
1,2-Dichloroethene (trans)	UG/L	5	5.0 U	5.0 U	10 U	5.0 U	50 U
1,2-Dichloropropane	UG/L	1	5.0 U	5.0 U	10 U	5.0 U	50 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/L	-	5.0 U	5.0 U	10 U	5.0 U	50 U
1,3-Dichlorobenzene	UG/L	3	5.0 U	5.0 U	10 U	5.0 U	50 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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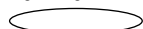
[LOGDATE] BETWEEN #02/27/12# AND #04/20/12# AND [MATRIX] = 'WG' AND NOT [PRCODE] = 'FLD'

TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-066D	DEC-088	DEC-088D	DEC-089	DEC-089D
Sample ID			DEC-066D	DEC-088	DEC-088D	DEC-089	DEC-089D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/27/12	03/27/12	03/27/12	03/27/12	03/27/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,3-Dichloropropane	UG/L	-	5.0 U	5.0 U	10 U	5.0 U	50 U
1,3-Dichloropropene (cis)	UG/L	0.4	5.0 U	5.0 U	10 U	5.0 U	50 U
1,3-Dichloropropene (trans)	UG/L	0.4	5.0 U	5.0 U	10 U	5.0 U	50 U
1,4-Dichlorobenzene	UG/L	3	5.0 U	5.0 U	10 U	5.0 U	50 U
1,4-Dioxane	UG/L	-	R	R	R	R	R
2,2-Dichloropropane	UG/L	-	5.0 U	5.0 U	10 U	5.0 U	50 U
2-Chlorotoluene	UG/L	-	5.0 U	5.0 U	10 U	5.0 U	50 U
2-Hexanone	UG/L	50	5.0 U	5.0 U	10 U	5.0 U	50 U
4-Chlorotoluene	UG/L	-	5.0 U	5.0 U	10 U	5.0 U	50 U
4-Isopropyltoluene (p-Cymene)	UG/L	-	5.0 U	5.0 U	10 U	5.0 U	50 U
4-Methyl-2-pentanone	UG/L	-	5.0 U	5.0 U	10 U	5.0 U	50 U
Acetone	UG/L	50	R	R	R	R	R
Benzene	UG/L	1	5.0 U	5.0 U	10 U	5.0 U	50 U
Bromobenzene	UG/L	-	5.0 U	5.0 U	10 U	5.0 U	50 U
Bromochloromethane	UG/L	-	5.0 U	5.0 U	10 U	5.0 U	50 U
Bromodichloromethane	UG/L	50	5.0 U	5.0 U	10 U	5.0 U	50 U
Bromoform	UG/L	50	5.0 UJ	5.0 UJ	10 UJ	5.0 UJ	50 UJ
Bromomethane	UG/L	5	5.0 U	5.0 U	10 U	5.0 U	50 U
Carbon disulfide	UG/L	60	5.0 U	5.0 U	10 U	5.0 U	50 U
Carbon tetrachloride	UG/L	5	5.0 U	5.0 U	10 U	5.0 U	50 U
Chlorobenzene	UG/L	5	5.0 U	5.0 U	10 U	5.0 U	50 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-066D	DEC-088	DEC-088D	DEC-089	DEC-089D
Sample ID			DEC-066D	DEC-088	DEC-088D	DEC-089	DEC-089D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/27/12	03/27/12	03/27/12	03/27/12	03/27/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Chloroethane	UG/L	5	5.0 U	5.0 U	10 U	5.0 U	50 U
Chloroform	UG/L	7	5.0 U	5.0 U	10 U	5.0 U	50 U
Chloromethane	UG/L	5	5.0 U	5.0 U	10 U	5.0 U	50 U
Cyclohexane	UG/L	-	5.0 U	5.0 U	10 U	5.0 U	50 U
Dibromochloromethane	UG/L	50	5.0 UJ	5.0 UJ	10 UJ	5.0 UJ	50 U
Dibromomethane	UG/L	-	5.0 U	5.0 U	10 U	5.0 U	50 U
Dichlorodifluoromethane	UG/L	5	5.0 U	5.0 U	10 U	5.0 U	50 U
Ethylbenzene	UG/L	5	5.0 U	5.0 U	10 U	5.0 U	50 U
Hexachlorobutadiene	UG/L	-	5.0 U	5.0 U	10 U	5.0 U	50 U
Iodomethane (Methyl iodide)	UG/L	-	5.0 U	5.0 U	10 U	5.0 U	50 U
Isopropylbenzene (Cumene)	UG/L	5	5.0 U	5.0 U	10 U	5.0 U	50 U
Methyl acetate	UG/L	-	5.0 U	5.0 U	10 U	5.0 U	50 UJ
Methyl ethyl ketone (2-Butanone)	UG/L	50	R	R	R	R	R
Methyl tert-butyl ether	UG/L	10	5.0 U	5.0 U	10 U	5.0 U	50 U
Methylcyclohexane	UG/L	-	5.0 U	5.0 U	10 U	5.0 U	50 U
Methylene chloride	UG/L	5	5.0 U	5.0 U	10 U	5.0 U	50 U
Naphthalene	UG/L	-	5.0 U	5.0 U	10 U	5.0 U	50 U
sec-Butylbenzene	UG/L	-	5.0 U	5.0 U	10 U	5.0 U	50 U
Styrene	UG/L	5	5.0 U	5.0 U	10 U	5.0 U	50 U
tert-Butylbenzene	UG/L	-	5.0 U	5.0 U	10 U	5.0 U	50 U
Tetrachloroethene	UG/L	5	5.0 U	150	190	59	1,200

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria

- = No standard, criteria or guidance value.

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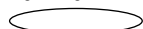
Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-066D	DEC-088	DEC-088D	DEC-089	DEC-089D
Sample ID			DEC-066D	DEC-088	DEC-088D	DEC-089	DEC-089D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/27/12	03/27/12	03/27/12	03/27/12	03/27/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Toluene	UG/L	5	5.0 U	5.0 U	10 U	5.0 U	50 U
Trichloroethene	UG/L	5	5.0 U	1.7 J	2.7 J	1.3 J	50 U
Trichlorofluoromethane	UG/L	5	5.0 U	5.0 U	10 U	5.0 U	50 U
Vinyl acetate	UG/L	-	5.0 U	5.0 U	10 U	5.0 U	50 U
Vinyl chloride	UG/L	2	5.0 U	5.0 U	10 U	5.0 U	50 U
Xylene (total)	UG/L	5	5.0 U	5.0 U	10 U	5.0 U	50 U
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	100	150	160	160	150
Chloride	MG/L	250	230	160	160	53	220
Nitrate-Nitrite	MG/L	10	8.02	4.78	4.18	3.76	3.80
Phosphorous, Total (as P)	MG/L	-	0.23	0.26	0.52	0.21	0.19
Sulfate (as SO ₄)	MG/L	250	190	88	120	78	200
Sulfide	MG/L	0.05	0.030 U	0.030 U	0.030 U	0.030 U	0.030 U
Total Kjeldahl Nitrogen	MG/L	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

Flags assigned during chemistry validation are shown.



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Made By: GEK 07/03/2012 Checked By: PRF 07/10/2012

Detection Limits shown are PQL

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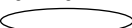
[LOGDATE] BETWEEN #02/27/12# AND #04/20/12# AND [MATRIX] = 'WG' AND NOT [PRC CODE] = 'FLD'

TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-090	DEC-090D	DEC-091	DEC-091D	DEC-091D
Sample ID			DEC-090	DEC-090D	DEC-091	DEC-091D	FD-03272012-2
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/28/12	03/28/12	03/27/12	03/27/12	03/27/12
Parameter	Units	Criteria*					Field Duplicate (1-1)
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	UG/L	-	1.2 J	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1-Trichloroethane	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	UG/L	5	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 UJ
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	UG/L	1	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloropropene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,3-Trichlorobenzene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,3-Trichloropropane	UG/L	-	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 UJ
1,2,4-Trichlorobenzene	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,4-Trimethylbenzene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane	UG/L	0.04	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 UJ
1,2-Dibromoethane (Ethylene dibromide)	UG/L	6.00E-04	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichlorobenzene	UG/L	3	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	UG/L	0.6	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethene (cis)	UG/L	5	9.2	1.5 J	5.0 U	5.0 U	5.0 U
1,2-Dichloroethene (trans)	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	UG/L	1	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichlorobenzene	UG/L	3	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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Made By: GEK 07/03/2012 Checked By: PRF 07/10/2012

Detection Limits shown are PQL

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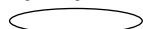
[LOGDATE] BETWEEN #02/27/12# AND #04/20/12# AND [MATRIX] = 'WG' AND NOT [PRCODE] = 'FLD'

TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-090	DEC-090D	DEC-091	DEC-091D	DEC-091D
Sample ID			DEC-090	DEC-090D	DEC-091	DEC-091D	FD-03272012-2
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/28/12	03/28/12	03/27/12	03/27/12	03/27/12
Parameter	Units	Criteria*					Field Duplicate (1-1)
Volatile Organic Compounds							
1,3-Dichloropropane	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichloropropene (cis)	UG/L	0.4	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichloropropene (trans)	UG/L	0.4	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dichlorobenzene	UG/L	3	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dioxane	UG/L	-	R	R	R	R	R
2,2-Dichloropropane	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Chlorotoluene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	UG/L	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Chlorotoluene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Isopropyltoluene (p-Cymene)	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	50	R	R	R	R	R
Benzene	UG/L	1	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromobenzene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromochloromethane	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	UG/L	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	UG/L	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U
Carbon disulfide	UG/L	60	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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Detection Limits shown are PQL

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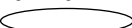
[LOGDATE] BETWEEN #02/27/12# AND #04/20/12# AND [MATRIX] = 'WG' AND NOT [PRC CODE] = 'FLD'

TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-090	DEC-090D	DEC-091	DEC-091D	DEC-091D
Sample ID			DEC-090	DEC-090D	DEC-091	DEC-091D	FD-03272012-2
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/28/12	03/28/12	03/27/12	03/27/12	03/27/12
Parameter	Units	Criteria*					Field Duplicate (1-1)
Volatile Organic Compounds							
Chloroethane	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform	UG/L	7	5.0 U	0.55 J	5.0 U	5.0 U	0.77 J
Chloromethane	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U
Cyclohexane	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	UG/L	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromomethane	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane	UG/L	5	5.0 U	5.0 UJ	5.0 U	5.0 UJ	5.0 U
Ethylbenzene	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Hexachlorobutadiene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Iodomethane (Methyl iodide)	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene (Cumene)	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl acetate	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl ethyl ketone (2-Butanone)	UG/L	50	R	R	R	R	R
Methyl tert-butyl ether	UG/L	10	5.0 U	0.70 J	5.0 U	5.0 U	0.52 J
Methylcyclohexane	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	UG/L	-	5.0 U	5.0 UJ	1.0 J	5.0 U	5.0 UJ
sec-Butylbenzene	UG/L	-	5.0 U	5.0 U	0.97 J	5.0 U	5.0 U
Styrene	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
tert-Butylbenzene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	UG/L	5	2,400 DJ	10 J	5.0 UJ	2.2 J	3.3 J

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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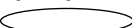
[LOGDATE] BETWEEN #02/27/12# AND #04/20/12# AND [MATRIX] = 'WG' AND NOT [PRC CODE] = 'FLD'

TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-090	DEC-090D	DEC-091	DEC-091D	DEC-091D
Sample ID			DEC-090	DEC-090D	DEC-091	DEC-091D	FD-03272012-2
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/28/12	03/28/12	03/27/12	03/27/12	03/27/12
Parameter	Units	Criteria*					Field Duplicate (1-1)
Volatile Organic Compounds							
Toluene	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	UG/L	5	12	1.8 J	5.0 U	5.0 U	0.60 J
Trichlorofluoromethane	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl acetate	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl chloride	UG/L	2	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Xylene (total)	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Miscellaneous Parameters							
Alkalinity, Total (as CaCO ₃)	MG/L	-	150	160	150	180	200
Chloride	MG/L	250	73	240	160	150	150
Nitrate-Nitrite	MG/L	10	2.66	4.02	0.182 U	1.02 J	1.39 J
Phosphorous, Total (as P)	MG/L	-	0.12	0.11	0.29	0.46	0.46
Sulfate (as SO ₄)	MG/L	250	42	150	4.7 J	82	85
Sulfide	MG/L	0.05	0.030	0.030 U	0.030 U	0.038	0.040
Total Kjeldahl Nitrogen	MG/L	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

Flags assigned during chemistry validation are shown.

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[LOGDATE] BETWEEN #02/27/12# AND #04/20/12# AND [MATRIX] = "WG" AND NOT [PRC CODE] = "FLD"

TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB032712	TB2-0312712	TRIP BLANK 2	TRIP BLANK	TRIP BLANK
Matrix		Water Quality	Water Quality	Water Quality	Water Quality	Water Quality
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/27/12	03/27/12	03/27/12	03/28/12	03/29/12
Parameter	Units	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (1-1)	Trip Blank (2-2)
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1-Trichloroethane	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	UG/L	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloropropene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,3-Trichlorobenzene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,3-Trichloropropane	UG/L	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U
1,2,4-Trichlorobenzene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,4-Trimethylbenzene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane	UG/L	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichlorobenzene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethene (cis)	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethene (trans)	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichlorobenzene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichloropropane	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichloropropene (cis)	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Flags assigned during chemistry validation are shown.

J - The reported concentration is an estimated value. R - The data is rejected.

U - Not detected above the reported quantitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.

Made By: GEK 07/03/2012 Checked By: PRF 07/10/2012

Detection Limits shown are PQL

TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB032712	TB2-0312712	TRIP BLANK 2	TRIP BLANK	TRIP BLANK
Matrix		Water Quality	Water Quality	Water Quality	Water Quality	Water Quality
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/27/12	03/27/12	03/27/12	03/28/12	03/29/12
Parameter	Units	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (1-1)	Trip Blank (2-2)
Volatile Organic Compounds						
1,3-Dichloropropene (trans)	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dichlorobenzene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dioxane	UG/L	R	R	R	R	R
2,2-Dichloropropane	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Chlorotoluene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Chlorotoluene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Isopropyltoluene (p-Cymene)	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	R	R	R	R	R
Benzene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromobenzene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromochloromethane	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	UG/L	5.0 UJ	5.0 UJ	5.0 U	5.0 U	5.0 U
Bromomethane	UG/L	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U
Carbon disulfide	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane	UG/L	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U
Cyclohexane	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Flags assigned during chemistry validation are shown.

J - The reported concentration is an estimated value. R - The data is rejected.

U - Not detected above the reported quantitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.

Made By: GEK 07/03/2012 Checked By: PRF 07/10/2012

Detection Limits shown are PQL

TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB032712	TB2-0312712	TRIP BLANK 2	TRIP BLANK	TRIP BLANK
Matrix		Water Quality	Water Quality	Water Quality	Water Quality	Water Quality
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/27/12	03/27/12	03/27/12	03/28/12	03/29/12
Parameter	Units	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (1-1)	Trip Blank (2-2)
Volatile Organic Compounds						
Dibromochloromethane	UG/L	5.0 UJ	5.0 UJ	5.0 U	5.0 U	5.0 U
Dibromomethane	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane	UG/L	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 UJ
Ethylbenzene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Hexachlorobutadiene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Iodomethane (Methyl iodide)	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene (Cumene)	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl acetate	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl ethyl ketone (2-Butanone)	UG/L	R	R	R	R	R
Methyl tert-butyl ether	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylcyclohexane	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	UG/L	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U
sec-Butylbenzene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
tert-Butylbenzene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ
Toluene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichlorofluoromethane	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl acetate	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl chloride	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Xylene (total)	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Flags assigned during chemistry validation are shown.

J - The reported concentration is an estimated value. R - The data is rejected.

U - Not detected above the reported quantitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.

Made By: GEK 07/03/2012 Checked By: PRF 07/10/2012

Detection Limits shown are PQL

TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		FIELDQC	FIELDQC
Sample ID		TRIP BLANK 3	TRIP BLANK
Matrix		Water Quality	Water Quality
Depth Interval (ft)		-	-
Date Sampled		03/29/12	04/01/12
Parameter	Units	Trip Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds			
1,1,1,2-Tetrachloroethane	UG/L	5.0 U	5.0 U
1,1,1-Trichloroethane	UG/L	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	UG/L	5.0 U	5.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	5.0 U	5.0 U
1,1,2-Trichloroethane	UG/L	5.0 U	5.0 U
1,1-Dichloroethane	UG/L	5.0 U	5.0 U
1,1-Dichloroethene	UG/L	5.0 U	5.0 U
1,1-Dichloropropene	UG/L	5.0 U	5.0 U
1,2,3-Trichlorobenzene	UG/L	5.0 U	5.0 U
1,2,3-Trichloropropane	UG/L	5.0 U	5.0 U
1,2,4-Trichlorobenzene	UG/L	5.0 U	5.0 U
1,2,4-Trimethylbenzene	UG/L	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane	UG/L	5.0 U	5.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	5.0 U	5.0 U
1,2-Dichlorobenzene	UG/L	5.0 U	5.0 U
1,2-Dichloroethane	UG/L	5.0 U	5.0 U
1,2-Dichloroethene (cis)	UG/L	5.0 U	5.0 U
1,2-Dichloroethene (trans)	UG/L	5.0 U	5.0 U
1,2-Dichloropropane	UG/L	5.0 U	5.0 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/L	5.0 U	5.0 U
1,3-Dichlorobenzene	UG/L	5.0 U	5.0 U
1,3-Dichloropropane	UG/L	5.0 U	5.0 U
1,3-Dichloropropene (cis)	UG/L	5.0 U	5.0 U

Flags assigned during chemistry validation are shown.

J - The reported concentration is an estimated value. R - The data is rejected.

U - Not detected above the reported quantitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.

Made By: GEK 07/03/2012 Checked By: PRF 07/10/2012

Detection Limits shown are PQL

TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		FIELDQC	FIELDQC
Sample ID		TRIP BLANK 3	TRIP BLANK
Matrix		Water Quality	Water Quality
Depth Interval (ft)		-	-
Date Sampled		03/29/12	04/01/12
Parameter	Units	Trip Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds			
1,3-Dichloropropene (trans)	UG/L	5.0 U	5.0 U
1,4-Dichlorobenzene	UG/L	5.0 U	5.0 U
1,4-Dioxane	UG/L	R	R
2,2-Dichloropropane	UG/L	5.0 U	5.0 U
2-Chlorotoluene	UG/L	5.0 U	5.0 U
2-Hexanone	UG/L	5.0 U	5.0 U
4-Chlorotoluene	UG/L	5.0 U	5.0 U
4-Isopropyltoluene (p-Cymene)	UG/L	5.0 U	5.0 U
4-Methyl-2-pentanone	UG/L	5.0 U	5.0 U
Acetone	UG/L	R	R
Benzene	UG/L	5.0 U	5.0 U
Bromobenzene	UG/L	5.0 U	5.0 U
Bromochloromethane	UG/L	5.0 U	5.0 U
Bromodichloromethane	UG/L	5.0 U	5.0 U
Bromoform	UG/L	5.0 U	5.0 U
Bromomethane	UG/L	5.0 UJ	5.0 UJ
Carbon disulfide	UG/L	5.0 U	5.0 U
Carbon tetrachloride	UG/L	5.0 U	5.0 U
Chlorobenzene	UG/L	5.0 U	5.0 U
Chloroethane	UG/L	5.0 U	5.0 U
Chloroform	UG/L	5.0 U	5.0 U
Chloromethane	UG/L	5.0 UJ	5.0 U
Cyclohexane	UG/L	5.0 U	5.0 U

Flags assigned during chemistry validation are shown.

J - The reported concentration is an estimated value. R - The data is rejected.

U - Not detected above the reported quantitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.

Made By: GEK 07/03/2012 Checked By: PRF 07/10/2012

Detection Limits shown are PQL

TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		FIELDQC	FIELDQC
Sample ID		TRIP BLANK 3	TRIP BLANK
Matrix		Water Quality	Water Quality
Depth Interval (ft)		-	-
Date Sampled		03/29/12	04/01/12
Parameter	Units	Trip Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds			
Dibromochloromethane	UG/L	5.0 U	5.0 U
Dibromomethane	UG/L	5.0 U	5.0 U
Dichlorodifluoromethane	UG/L	5.0 UJ	5.0 U
Ethylbenzene	UG/L	5.0 U	5.0 U
Hexachlorobutadiene	UG/L	5.0 U	5.0 U
Iodomethane (Methyl iodide)	UG/L	5.0 U	5.0 U
Isopropylbenzene (Cumene)	UG/L	5.0 U	5.0 U
Methyl acetate	UG/L	5.0 U	5.0 U
Methyl ethyl ketone (2-Butanone)	UG/L	R	R
Methyl tert-butyl ether	UG/L	5.0 U	5.0 U
Methylcyclohexane	UG/L	5.0 U	5.0 U
Methylene chloride	UG/L	5.0 U	5.0 U
Naphthalene	UG/L	5.0 U	5.0 U
sec-Butylbenzene	UG/L	5.0 U	5.0 U
Styrene	UG/L	5.0 U	5.0 U
tert-Butylbenzene	UG/L	5.0 U	5.0 U
Tetrachloroethene	UG/L	5.0 U	5.0 UJ
Toluene	UG/L	5.0 U	5.0 U
Trichloroethene	UG/L	5.0 U	5.0 U
Trichlorofluoromethane	UG/L	5.0 U	5.0 U
Vinyl acetate	UG/L	5.0 U	5.0 U
Vinyl chloride	UG/L	5.0 U	5.0 U
Xylene (total)	UG/L	5.0 U	5.0 U

Flags assigned during chemistry validation are shown.

J - The reported concentration is an estimated value. R - The data is rejected.

U - Not detected above the reported quantitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.

Made By: GEK 07/03/2012 Checked By: PRF 07/10/2012

Detection Limits shown are PQL

ATTACHMENT A

VALIDATED FORM 1's

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-004

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-12A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0535.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/09/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U I
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U R
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	2.1	J
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-004

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-12A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0535.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/09/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	1.2	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-004

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-12A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0535.D

Level: (TRACE/LOW/MED) LOW Date Received: 04/03/2012

% Moisture: not dec. Date Analyzed: 04/09/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) UG/L	Q
108-87-2	Methylcyclohexane	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-004

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-12A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0535.D
Level: (TRACE or LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/09/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-006D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-06A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5742.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/28/2012
% Moisture: not dec. Date Analyzed: 03/30/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 20.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	100	U
74-87-3	Chloromethane	100	U
75-01-4	Vinyl chloride	100	U
74-83-9	Bromomethane	100	U
75-00-3	Chloroethane	100	U
75-69-4	Trichlorofluoromethane	100	U
75-35-4	1,1-Dichloroethene	100	U
67-64-1	Acetone	100	U R
74-88-4	Iodomethane	100	U
75-15-0	Carbon disulfide	100	U
75-09-2	Methylene chloride	100	U
156-60-5	trans-1,2-Dichloroethene	100	U
1634-04-4	Methyl tert-butyl ether	100	U
75-34-3	1,1-Dichloroethane	100	U
108-05-4	Vinyl acetate	100	U
78-93-3	2-Butanone	100	U R
156-59-2	cis-1,2-Dichloroethene	100	U
594-20-7	2,2-Dichloropropane	100	U
74-97-5	Bromochloromethane	100	U
67-66-3	Chloroform	100	U
71-55-6	1,1,1-Trichloroethane	100	U
563-58-6	1,1-Dichloropropene	100	U
56-23-5	Carbon tetrachloride	100	U
107-06-2	1,2-Dichloroethane	100	U
71-43-2	Benzene	100	U
79-01-6	Trichloroethene	100	U
78-87-5	1,2-Dichloropropane	100	U
74-95-3	Dibromomethane	100	U
75-27-4	Bromodichloromethane	100	U
10061-01-5	cis-1,3-Dichloropropene	100	U
108-10-1	4-Methyl-2-pentanone	100	U
108-88-3	Toluene	100	U
10061-02-6	trans-1,3-Dichloropropene	100	U
79-00-5	1,1,2-Trichloroethane	100	U
142-28-9	1,3-Dichloropropane	100	U

60L
5/2/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-006D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-06A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5742.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/28/2012
% Moisture: not dec. Date Analyzed: 03/30/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 20.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	3300	
591-78-6	2-Hexanone	100	U
124-48-1	Dibromochloromethane	100	U
106-93-4	1,2-Dibromoethane	100	U
108-90-7	Chlorobenzene	100	U
630-20-6	1,1,1,2-Tetrachloroethane	100	U
100-41-4	Ethylbenzene	100	U
1330-20-7	m,p-Xylene	100	U
95-47-6	o-Xylene	100	U
1330-20-7	Xylene (Total)	100	U
100-42-5	Styrene	100	U
75-25-2	Bromoform	100	U J
98-82-8	Isopropylbenzene	100	U
79-34-5	1,1,2,2-Tetrachloroethane	100	U
108-86-1	Bromobenzene	100	U
96-18-4	1,2,3-Trichloropropane	100	U J
95-49-8	2-Chlorotoluene	100	U
108-67-8	1,3,5-Trimethylbenzene	100	U
106-43-4	4-Chlorotoluene	100	U
98-06-6	tert-Butylbenzene	100	U
95-63-6	1,2,4-Trimethylbenzene	100	U
135-98-8	sec-Butylbenzene	100	U
99-87-6	4-Isopropyltoluene	100	U
541-73-1	1,3-Dichlorobenzene	100	U
106-46-7	1,4-Dichlorobenzene	100	U
95-50-1	1,2-Dichlorobenzene	100	U
96-12-8	1,2-Dibromo-3-chloropropane	100	U
120-82-1	1,2,4-Trichlorobenzene	100	U
87-68-3	Hexachlorobutadiene	100	U
87-61-6	1,2,3-Trichlorobenzene	100	U J
91-20-3	Naphthalene	100	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	100	U
123-91-1	1,4-Dioxane	2000	U R
110-82-7	Cyclohexane	100	U
79-20-9	Methyl acetate	100	U J

for
5/2/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-006D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-06A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5742.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/28/2012
% Moisture: not dec. Date Analyzed: 03/30/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 20.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/L
108-87-2	Methylcyclohexane	100	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DEC-006D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-06A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5742.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/28/2012
% Moisture: not dec. Date Analyzed: 03/30/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 20.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-06DD

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-09A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5743.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/28/2012
% Moisture: not dec. Date Analyzed: 03/30/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 4.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	20	U
74-87-3	Chloromethane	20	U
75-01-4	Vinyl chloride	20	U
74-83-9	Bromomethane	20	U
75-00-3	Chloroethane	20	U
75-69-4	Trichlorofluoromethane	20	U
75-35-4	1,1-Dichloroethene	40	
67-64-1	Acetone	20	U R
74-88-4	Iodomethane	20	U
75-15-0	Carbon disulfide	20	U
75-09-2	Methylene chloride	20	U
156-60-5	trans-1,2-Dichloroethene	20	U
1634-04-4	Methyl tert-butyl ether	20	U
75-34-3	1,1-Dichloroethane	20	U
108-05-4	Vinyl acetate	20	U
78-93-3	2-Butanone	20	U R
156-59-2	cis-1,2-Dichloroethene	11	J
594-20-7	2,2-Dichloropropane	20	U
74-97-5	Bromochloromethane	20	U
67-66-3	Chloroform	20	U
71-55-6	1,1,1-Trichloroethane	9.1	J
563-58-6	1,1-Dichloropropene	20	U
56-23-5	Carbon tetrachloride	20	U
107-06-2	1,2-Dichloroethane	20	U
71-43-2	Benzene	20	U
79-01-6	Trichloroethene	220	
78-87-5	1,2-Dichloropropane	20	U
74-95-3	Dibromomethane	20	U
75-27-4	Bromodichloromethane	20	U
10061-01-5	cis-1,3-Dichloropropene	20	U
108-10-1	4-Methyl-2-pentanone	20	U
108-88-3	Toluene	20	U
10061-02-6	trans-1,3-Dichloropropene	20	U
79-00-5	1,1,2-Trichloroethane	20	U
142-28-9	1,3-Dichloropropane	20	U

62/5/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-06DD

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-09A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5743.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/28/2012
% Moisture: not dec. Date Analyzed: 03/30/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 4.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	320	
591-78-6	2-Hexanone	20	U
124-48-1	Dibromochloromethane	20	U
106-93-4	1,2-Dibromoethane	20	U
108-90-7	Chlorobenzene	20	U
630-20-6	1,1,1,2-Tetrachloroethane	20	U
100-41-4	Ethylbenzene	20	U
1330-20-7	m,p-Xylene	20	U
95-47-6	o-Xylene	20	U
1330-20-7	Xylene (Total)	20	U
100-42-5	Styrene	20	U
75-25-2	Bromoform	20	U J
98-82-8	Isopropylbenzene	20	U
79-34-5	1,1,2,2-Tetrachloroethane	20	U
108-86-1	Bromobenzene	20	U
96-18-4	1,2,3-Trichloropropane	20	U J
95-49-8	2-Chlorotoluene	20	U
108-67-8	1,3,5-Trimethylbenzene	20	U
106-43-4	4-Chlorotoluene	20	U
98-06-6	tert-Butylbenzene	20	U
95-63-6	1,2,4-Trimethylbenzene	20	U
135-98-8	sec-Butylbenzene	20	U
99-87-6	4-Isopropyltoluene	20	U
541-73-1	1,3-Dichlorobenzene	20	U
106-46-7	1,4-Dichlorobenzene	20	U
95-50-1	1,2-Dichlorobenzene	20	U
96-12-8	1,2-Dibromo-3-chloropropane	20	U
120-82-1	1,2,4-Trichlorobenzene	20	U
87-68-3	Hexachlorobutadiene	20	U
87-61-6	1,2,3-Trichlorobenzene	20	U J
91-20-3	Naphthalene	20	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	20	U
123-91-1	1,4-Dioxane	400	U R
110-82-7	Cyclohexane	20	U
79-20-9	Methyl acetate	20	U J

bx
5/4/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-06DD

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-09A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5743.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/28/2012
% Moisture: not dec. Date Analyzed: 03/30/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 4.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
108-87-2	Methylcyclohexane		20	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DEC-06DD

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-09A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5743.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/28/2012
% Moisture: not dec. Date Analyzed: 03/30/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 4.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-007

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-01A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0377.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/30/2012
% Moisture: not dec. Date Analyzed: 04/04/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	1.6	J
67-64-1	Acetone	5.0	U R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	1.3	J
75-34-3	1,1-Dichloroethane	4.8	J
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U R
156-59-2	cis-1,2-Dichloroethene	10	
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	3.2	J
71-55-6	1,1,1-Trichloroethane	0.86	J
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	39	
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

604
5/14/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-007

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-01A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0377.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/30/2012
% Moisture: not dec. Date Analyzed: 04/04/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
127-18-4	Tetrachloroethene	P30	0.00	BB
591-78-6	2-Hexanone		5.0	U
124-48-1	Dibromochloromethane		5.0	U
106-93-4	1,2-Dibromoethane		5.0	U
108-90-7	Chlorobenzene		5.0	U
630-20-6	1,1,1,2-Tetrachloroethane		5.0	U
100-41-4	Ethylbenzene		5.0	U
179601-23-1	m,p-Xylene		5.0	U
95-47-6	o-Xylene		5.0	U
1330-20-7	Xylene (Total)		5.0	U
100-42-5	Styrene		5.0	U
75-25-2	Bromoform		5.0	U
98-82-8	Isopropylbenzene		5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		5.0	U
108-86-1	Bromobenzene		5.0	U
96-18-4	1,2,3-Trichloropropane		5.0	U
95-49-8	2-Chlorotoluene		5.0	U
108-67-8	1,3,5-Trimethylbenzene		5.0	U
106-43-4	4-Chlorotoluene		5.0	U
98-06-6	tert-Butylbenzene		5.0	U
95-63-6	1,2,4-Trimethylbenzene		5.0	U
135-98-8	sec-Butylbenzene		5.0	U
99-87-6	4-Isopropyltoluene		5.0	U
541-73-1	1,3-Dichlorobenzene		5.0	U
106-46-7	1,4-Dichlorobenzene		5.0	U
95-50-1	1,2-Dichlorobenzene		5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		5.0	U
120-82-1	1,2,4-Trichlorobenzene		5.0	U
87-68-3	Hexachlorobutadiene		5.0	U
87-61-6	1,2,3-Trichlorobenzene		5.0	U
91-20-3	Naphthalene		5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		5.0	U
123-91-1	1,4-Dioxane		100	U
110-82-7	Cyclohexane		5.0	U
79-20-9	Methyl acetate		5.0	U

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-007

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-01A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0377.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/30/2012
% Moisture: not dec. Date Analyzed: 04/04/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L
108-87-2	Methylcyclohexane	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-007

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-01A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0377.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/30/2012
% Moisture: not dec. Date Analyzed: 04/04/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-007DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-01ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0423.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/30/2012
% Moisture: not dec. Date Analyzed: 04/04/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 10.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/L	Q
75-71-8	Dichlorodifluoromethane		50	U
74-87-3	Chloromethane		50	U
75-01-4	Vinyl chloride		50	U
74-83-9	Bromomethane		50	U
75-00-3	Chloroethane		50	U
75-69-4	Trichlorofluoromethane		50	U
75-35-4	1,1-Dichloroethene		50	U
67-64-1	Acetone		50	U R
74-88-4	Iodomethane		50	U
75-15-0	Carbon disulfide		50	U
75-09-2	Methylene chloride		50	U
156-60-5	trans-1,2-Dichloroethene		50	U
1634-04-4	Methyl tert-butyl ether		50	U
75-34-3	1,1-Dichloroethane		50	U
108-05-4	Vinyl acetate		50	U
78-93-3	2-Butanone		50	U R
156-59-2	cis-1,2-Dichloroethene		50	U
594-20-7	2,2-Dichloropropane		50	U
74-97-5	Bromochloromethane		50	U
67-66-3	Chloroform		50	U
71-55-6	1,1,1-Trichloroethane		50	U
563-58-6	1,1-Dichloropropene		50	U
56-23-5	Carbon tetrachloride		50	U
107-06-2	1,2-Dichloroethane		50	U
71-43-2	Benzene		50	U
79-01-6	Trichloroethene		25	U J
78-87-5	1,2-Dichloropropane		50	U
74-95-3	Dibromomethane		50	U
75-27-4	Bromodichloromethane		50	U
10061-01-5	cis-1,3-Dichloropropene		50	U
108-10-1	4-Methyl-2-pentanone		50	U
108-88-3	Toluene		50	U
10061-07-6	trans-1,3-Dichloropropene		50	U
79-00-5	1,1,2-Trichloroethane		50	U
142-28-9	1,3-Dichloropropane		50	U

for 5/11/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-007DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SI0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-01ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0423.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/30/2012
% Moisture: not dec. Date Analyzed: 04/04/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 10.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	830	D I
591-78-6	2-Hexanone	50	U
124-48-1	Dibromochloromethane	50	U
106-93-4	1,2-Dibromoethane	50	U
108-90-7	Chlorobenzene	50	U
630-20-6	1,1,1,2-Tetrachloroethane	50	U
100-41-4	Ethylbenzene	50	U
179601-23-1	m,p-Xylene	50	U
95-47-6	o-Xylene	50	U
1330-20-7	Xylene (Total)	50	U
100-42-5	Styrene	50	U
75-25-2	Bromoform	50	U
98-82-8	Isopropylbenzene	50	U
79-34-5	1,1,2,2-Tetrachloroethane	50	U
108-86-1	Bromobenzene	50	U
96-18-4	1,2,3-Trichloropropane	50	U
95-49-8	2-Chlorotoluene	50	U
108-67-8	1,3,5-Trimethylbenzene	50	U
106-43-4	4-Chlorotoluene	50	U
98-06-6	tert-Butylbenzene	50	U
95-63-6	1,2,4-Trimethylbenzene	50	U
135-98-8	sec-Butylbenzene	50	U
99-87-6	4-Isopropyltoluene	50	U
541-73-1	1,3-Dichlorobenzene	50	U
106-46-7	1,4-Dichlorobenzene	50	U
95-50-1	1,2-Dichlorobenzene	50	U
96-12-8	1,2-Dibromo-3-chloropropane	50	U
120-82-1	1,2,4-Trichlorobenzene	50	U
87-68-3	Hexachlorobutadiene	50	U
87-61-6	1,2,3-Trichlorobenzene	50	U
91-20-3	Napthalene	50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	50	U
123-91-1	1,4-Dioxane	1000	U R
110-82-7	Cyclohexane	50	U
79-20-9	Methyl acetate	50	U

4/5/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-007DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-01ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0423.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/30/2012
% Moisture: not dec. Date Analyzed: 04/04/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 10.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
108-87-2	Methylcyclohexane		50	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-007DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-01ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0423.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/30/2012
% Moisture: not dec. Date Analyzed: 04/04/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 10.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-007D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-02A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0378.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/30/2012
% Moisture: not dec. Date Analyzed: 04/04/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	4.1	J
67-64-1	Acetone	5.0	U R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	0.91	J
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U R
156-59-2	cis-1,2-Dichloroethene	4.6	J
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	0.89	J
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	39	
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

6/3/12/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-007D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-02A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0378.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/30/2012
% Moisture: not dec. Date Analyzed: 04/04/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
127-18-4	Tetrachloroethene	190	230	U DD
591-78-6	2-Hexanone		5.0	U
124-48-1	Dibromochloromethane		5.0	U
106-93-4	1,2-Dibromoethane		5.0	U
108-90-7	Chlorobenzene		5.0	U
630-20-6	1,1,1,2-Tetrachloroethane		5.0	U
100-41-4	Ethylbenzene		5.0	U
179601-23-1	m,p-Xylene		5.0	U
95-47-6	o-Xylene		5.0	U
1330-20-7	Xylene (Total)		5.0	U
100-42-5	Styrene		5.0	U
75-25-2	Bromoform		5.0	U
98-82-8	Isopropylbenzene		5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		5.0	U
108-86-1	Bromobenzene		5.0	U
96-18-4	1,2,3-Trichloropropane		5.0	U
95-49-8	2-Chlorotoluene		5.0	U
108-67-8	1,3,5-Trimethylbenzene		5.0	U
106-43-4	4-Chlorotoluene		5.0	U
98-06-6	tert-Butylbenzene		5.0	U
95-63-6	1,2,4-Trimethylbenzene		5.0	U
135-98-8	sec-Butylbenzene		5.0	U
99-87-6	4-Isopropyltoluene		5.0	U
541-73-1	1,3-Dichlorobenzene		5.0	U
106-46-7	1,4-Dichlorobenzene		5.0	U
95-50-1	1,2-Dichlorobenzene		5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		5.0	U
120-82-1	1,2,4-Trichlorobenzene		5.0	U
87-68-3	Hexachlorobutadiene		5.0	U
87-61-6	1,2,3-Trichlorobenzene		5.0	U
91-20-3	Naphthalene		5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		5.0	U
123-91-1	1,4-Dioxane		100	U R
110-82-7	Cyclohexane		5.0	U
79-20-9	Methyl acetate		5.0	U

624
5/11/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-007D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-02A
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0378.D
 Level: (TRACE/LOW/MED) LOW Date Received: 03/30/2012
 % Moisture: not dec. Date Analyzed: 04/04/2012
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
108-87-2	Methylcyclohexane		5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-007D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-02A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0378.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/30/2012
% Moisture: not dec. Date Analyzed: 04/04/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-007DDL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-02ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0424.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/30/2012
% Moisture: not dec. Date Analyzed: 04/05/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 2.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/L	Q
75-71-8	Dichlorodifluoromethane		10	U
74-87-3	Chloromethane		10	U
75-01-4	Vinyl chloride		10	U
74-83-9	Bromomethane		10	U
75-00-3	Chloroethane		10	U
75-69-4	Trichlorofluoromethane		10	U
75-35-4	1,1-Dichloroethene		2.6	DJ
67-64-1	Acetone		10	U R
74-88-4	Iodomethane		10	U
75-15-0	Carbon disulfide		10	U
75-09-2	Methylene chloride		10	U
156-60-5	trans-1,2-Dichloroethene		10	U
1634-04-4	Methyl tert-butyl ether		10	U
75-34-3	1,1-Dichloroethane		10	U
108-05-4	Vinyl acetate		10	U
78-93-3	2-Butanone		10	U R
156-59-2	cis-1,2-Dichloroethene		3.0	DJ
594-20-7	2,2-Dichloropropane		10	U
74-97-5	Bromochloromethane		10	U
67-66-3	Chloroform		10	U
71-55-6	1,1,1-Trichloroethane		10	U
563-58-6	1,1-Dichloropropene		10	U
56-23-5	Carbon tetrachloride		10	U
107-06-2	1,2-Dichloroethane		10	U
71-43-2	Benzene		10	U
79-01-6	Trichloroethene		23	D
78-87-5	1,2-Dichloropropane		10	U
74-95-3	Dibromomethane		10	U
75-27-4	Bromodichloromethane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
108-10-1	4-Methyl-2-pentanone		10	U
108-88-3	Toluene		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		10	U
142-28-9	1,3-Dichloropropane		10	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-007DDL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-02ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0424.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/30/2012
% Moisture: not dec. Date Analyzed: 04/05/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 2.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	190	D J
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
630-20-6	1,1,1,2-Tetrachloroethane	10	U
100-41-4	Ethylbenzene	10	U
179601-23-1	m,p-Xylene	10	U
95-47-6	o-Xylene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-86-1	Bromobenzene	10	U
96-18-4	1,2,3-Trichloropropane	10	U
95-49-8	2-Chlorotoluene	10	U
108-67-8	1,3,5-Trimethylbenzene	10	U
106-43-4	4-Chlorotoluene	10	U
98-06-6	tert-Butylbenzene	10	U
95-63-6	1,2,4-Trimethylbenzene	10	U
135-98-8	sec-Butylbenzene	10	U
99-87-6	4-Isopropyltoluene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
87-61-6	1,2,3-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
123-91-1	1,4-Dioxane	200	U R
110-82-7	Cyclohexane	10	U
79-20-9	Methyl acetate	10	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-007DDL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-02ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0424.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/30/2012
% Moisture: not dec. Date Analyzed: 04/05/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 2.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
108-87-2	Methylcyclohexane		10	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-007DDL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-02ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0424.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/30/2012
% Moisture: not dec. Date Analyzed: 04/05/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 2.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-008

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-01A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0529.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/09/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 20.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	100	U J
74-87-3	Chloromethane	100	U
75-01-4	Vinyl chloride	100	U
74-83-9	Bromomethane	100	U
75-00-3	Chloroethane	100	U
75-69-4	Trichlorofluoromethane	100	U
75-35-4	1,1-Dichloroethene	100	U
67-64-1	Acetone	100	U R
74-88-4	Iodomethane	100	U
75-15-0	Carbon disulfide	100	U
75-09-2	Methylene chloride	100	U
156-60-5	trans-1,2-Dichloroethene	100	U
1634-04-4	Methyl tert-butyl ether	100	U
75-34-3	1,1-Dichloroethane	100	U
108-05-4	Vinyl acetate	100	U
78-93-3	2-Butanone	100	U R
156-59-2	cis-1,2-Dichloroethene	22	J
594-20-7	2,2-Dichloropropane	100	U
74-97-5	Bromochloromethane	100	U
67-66-3	Chloroform	100	U
71-55-6	1,1,1-Trichloroethane	100	U
563-58-6	1,1-Dichloropropene	100	U
56-23-5	Carbon tetrachloride	100	U
107-06-2	1,2-Dichloroethane	100	U
71-43-2	Benzene	100	U
79-01-6	Trichloroethene	83	J
78-87-5	1,2-Dichloropropane	100	U
74-95-3	Dibromomethane	100	U
75-27-4	Bromodichloromethane	100	U
10061-01-5	cis-1,3-Dichloropropene	100	U
108-10-1	4-Methyl-2-pentanone	100	U
108-88-3	Toluene	100	U
10061-02-6	trans-1,3-Dichloropropene	100	U
79-00-5	1,1,2-Trichloroethane	100	U
142-28-9	1,3-Dichloropropane	100	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-008

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-01A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0529.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/09/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 20.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	1300	J
591-78-6	2-Hexanone	100	U
124-48-1	Dibromochloromethane	100	U
106-93-4	1,2-Dibromoethane	100	U
108-90-7	Chlorobenzene	100	U
630-20-6	1,1,1,2-Tetrachloroethane	100	U
100-41-4	Ethylbenzene	100	U
179601-23-1	m,p-Xylene	100	U
95-47-6	o-Xylene	100	U
1330-20-7	Xylene (Total)	100	U
100-42-5	Styrene	100	U
75-25-2	Bromoform	100	U
98-82-8	Isopropylbenzene	100	U
79-34-5	1,1,2,2-Tetrachloroethane	100	U
108-86-1	Bromobenzene	100	U
96-18-4	1,2,3-Trichloropropane	100	U
95-49-8	2-Chlorotoluene	100	U
108-67-8	1,3,5-Trimethylbenzene	100	U
106-43-4	4-Chlorotoluene	100	U
98-06-6	tert-Butylbenzene	100	U
95-63-6	1,2,4-Trimethylbenzene	100	U
135-98-8	sec-Butylbenzene	100	U
99-87-6	4-Isopropyltoluene	100	U
541-73-1	1,3-Dichlorobenzene	100	U
106-46-7	1,4-Dichlorobenzene	100	U
95-50-1	1,2-Dichlorobenzene	100	U
96-12-8	1,2-Dibromo-3-chloropropane	100	U
120-82-1	1,2,4-Trichlorobenzene	100	U
87-68-3	Hexachlorobutadiene	100	U
87-61-6	1,2,3-Trichlorobenzene	100	U
91-20-3	Naphthalene	100	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	100	U
123-91-1	1,4-Dioxane	2000	U R
110-82-7	Cyclohexane	100	U
79-20-9	Methyl acetate	100	U

see slush

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
DEC-008

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-01A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0529.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/09/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 20.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
108-87-2	Methylcyclohexane	100		U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-008

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-01A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0529.D
Level: (TRACE or LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/09/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 20.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-009

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-19A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0339.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/03/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	37	
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	4.3	J
67-64-1	Acetone	5.0	U R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.6	
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U R
156-59-2	cis-1,2-Dichloroethene	36	
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	2.1	J
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	59	
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

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5/12/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-009

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-19A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0339.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/03/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	130	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U J
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U J
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U J
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

6/25/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-009

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-19A
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0339.D
 Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
 % Moisture: not dec. Date Analyzed: 04/03/2012
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
108-87-2	Methylcyclohexane		5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DEC-009

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-19A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0339.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/03/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-010

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-11A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0534.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/09/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U J
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	27	
67-64-1	Acetone	5.0	U R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	32	
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U R
156-59-2	cis-1,2-Dichloroethene	8.1	
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	2.1	J
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	79	
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

6/5/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-010

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-11A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0534.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/09/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	19	I
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-010

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-11A
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0534.D
 Level: (TRACE/LOW/MED) LOW Date Received: 04/03/2012
 % Moisture: not dec. Date Analyzed: 04/09/2012
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
108-87-2	Methylcyclohexane		5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-010

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-11A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0534.D
Level: (TRACE or LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/09/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-011

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-13A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0526.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/02/2012
% Moisture: not dec. Date Analyzed: 04/09/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U J
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U R
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	15	
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

for SL0621

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-011

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-13A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0526.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/02/2012
% Moisture: not dec. Date Analyzed: 04/09/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	5.8	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

loc 5/10/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-011

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-13A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0526.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/02/2012
% Moisture: not dec. Date Analyzed: 04/09/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
108-87-2	Methylcyclohexane	5.0	U	

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-011

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-13A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0526.D
Level: (TRACE or LOW/MED) LOW Date Received: 04/02/2012
% Moisture: not dec. Date Analyzed: 04/09/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-011D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-14A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0527.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/02/2012
% Moisture: not dec. Date Analyzed: 04/09/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U J
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U R
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	3.1	J
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.5	
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

Wt 5/18/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-011D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-14A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0527.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/02/2012
% Moisture: not dec. Date Analyzed: 04/09/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	1.9	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

box 5/10/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-011D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-14A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0527.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/02/2012
% Moisture: not dec. Date Analyzed: 04/09/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L
108-87-2	Methylcyclohexane	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-011D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-14A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0527.D

Level: (TRACE or LOW/MED) LOW Date Received: 04/02/2012

% Moisture: not dec. Date Analyzed: 04/09/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown	2.632	5.5	J
02	71-36-3	1-Butanol	5.506	95	NJ

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-012

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-06A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0456.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/02/2012
% Moisture: not dec. Date Analyzed: 04/05/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	1.1	U
67-64-1	Acetone	5.0	U
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	0.90	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	8.9	U
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-012

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-06A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0456.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/02/2012
% Moisture: not dec. Date Analyzed: 04/05/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	270 260 250 240 230 220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

best 5/10/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-012

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-06A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0456.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/02/2012
% Moisture: not dec. Date Analyzed: 04/05/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
108-87-2	Methylcyclohexane		5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-012

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-06A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0456.D
Level: (TRACE or LOW/MED) LOW Date Received: 04/02/2012
% Moisture: not dec. Date Analyzed: 04/05/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-012DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-06ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0494.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/02/2012
% Moisture: not dec. Date Analyzed: 04/06/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 2.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane		10	U J
74-87-3	Chloromethane		10	U
75-01-4	Vinyl chloride		10	U
74-83-9	Bromomethane		10	U
75-00-3	Chloroethane		10	U
75-69-4	Trichlorofluoromethane		10	U
75-35-4	1,1-Dichloroethene		10	U
67-64-1	Acetone		10	U R
74-88-4	Iodomethane		10	U
75-15-0	Carbon disulfide		10	U
75-09-2	Methylene chloride		10	U
156-60-5	trans-1,2-Dichloroethene		10	U
1634-04-4	Methyl tert-butyl ether		10	U
75-34-3	1,1-Dichloroethane		10	U
108-05-4	Vinyl acetate		10	U
78-93-3	2-Butanone		10	U R
156-59-2	cis-1,2-Dichloroethene		10	U
594-20-7	2,2-Dichloropropane		10	U
74-97-5	Bromochloromethane		10	U
67-66-3	Chloroform		10	U
71-55-6	1,1,1-Trichloroethane		10	U
563-58-6	1,1-Dichloropropene		10	U
56-23-5	Carbon tetrachloride		10	U
107-06-2	1,2-Dichloroethane		10	U
71-43-2	Benzene		10	U
79-01-6	Trichloroethene		3.4	DJ
78-87-5	1,2-Dichloropropane		10	U
74-95-3	Dibromomethane		10	U
75-27-4	Bromodichloromethane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
108-10-1	4-Methyl-2-pentanone		10	U
108-88-3	Toluene		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		10	U
142-28-9	1,3-Dichloropropane		10	U

see 5/18/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-012DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-06ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0494.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/02/2012
% Moisture: not dec. Date Analyzed: 04/06/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 2.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	270	D I
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
630-20-6	1,1,1,2-Tetrachloroethane	10	U
100-41-4	Ethylbenzene	10	U
179601-23-1	m,p-Xylene	10	U
95-47-6	o-Xylene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-86-1	Bromobenzene	10	U
96-18-4	1,2,3-Trichloropropane	10	U
95-49-8	2-Chlorotoluene	10	U
108-67-8	1,3,5-Trimethylbenzene	10	U
106-43-4	4-Chlorotoluene	10	U
98-06-6	tert-Butylbenzene	10	U
95-63-6	1,2,4-Trimethylbenzene	10	U
135-98-8	sec-Butylbenzene	10	U
99-87-6	4-Isopropyltoluene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
87-61-6	1,2,3-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U I
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
123-91-1	1,4-Dioxane	200	U R
110-82-7	Cyclohexane	10	U
79-20-9	Methyl acetate	10	U

bal
5/10/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-012DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-06ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0494.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/02/2012
% Moisture: not dec. Date Analyzed: 04/06/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 2.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
108-87-2	Methylcyclohexane		10	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
DEC-012DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-06ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0494.D
Level: (TRACE or LOW/MED) LOW Date Received: 04/02/2012
% Moisture: not dec. Date Analyzed: 04/06/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 2.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

bac
5/10/12

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-013

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-09A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0523.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/02/2012
% Moisture: not dec. Date Analyzed: 04/09/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 20.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	100	U I
74-87-3	Chloromethane	100	U
75-01-4	Vinyl chloride	100	U
74-83-9	Bromomethane	100	U
75-00-3	Chloroethane	100	U
75-69-4	Trichlorofluoromethane	100	U
75-35-4	1,1-Dichloroethene	100	U
67-64-1	Acetone	100	U R
74-88-4	Iodomethane	100	U
75-15-0	Carbon disulfide	100	U
75-09-2	Methylene chloride	100	U
156-60-5	trans-1,2-Dichloroethene	100	U
1634-04-4	Methyl tert-butyl ether	100	U
75-34-3	1,1-Dichloroethane	100	U
108-05-4	Vinyl acetate	100	U
78-93-3	2-Butanone	100	U R
156-59-2	cis-1,2-Dichloroethene	21	J
594-20-7	2,2-Dichloropropane	100	U
74-97-5	Bromochloromethane	100	U
67-66-3	Chloroform	100	U
71-55-6	1,1,1-Trichloroethane	100	U
563-58-6	1,1-Dichloropropene	100	U
56-23-5	Carbon tetrachloride	100	U
107-06-2	1,2-Dichloroethane	100	U
71-43-2	Benzene	100	U
79-01-6	Trichloroethene	59	J
78-87-5	1,2-Dichloropropane	100	U
74-95-3	Dibromomethane	100	U
75-27-4	Bromodichloromethane	100	U
10061-01-5	cis-1,3-Dichloropropene	100	U
108-10-1	4-Methyl-2-pentanone	100	U
108-88-3	Toluene	100	U
10061-02-6	trans-1,3-Dichloropropene	100	U
79-00-5	1,1,2-Trichloroethane	100	U
142-28-9	1,3-Dichloropropane	100	U

rec 3/10/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-013

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-09A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0523.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/02/2012
% Moisture: not dec. Date Analyzed: 04/09/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 20.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	2500	I
591-78-6	2-Hexanone	100	U
124-48-1	Dibromochloromethane	100	U
106-93-4	1,2-Dibromoethane	100	U
108-90-7	Chlorobenzene	100	U
630-20-6	1,1,1,2-Tetrachloroethane	100	U
100-41-4	Ethylbenzene	100	U
179601-23-1	m,p-Xylene	100	U
95-47-6	o-Xylene	100	U
1330-20-7	Xylene (Total)	100	U
100-42-5	Styrene	100	U
75-25-2	Bromoform	100	U
98-82-8	Isopropylbenzene	100	U
79-34-5	1,1,2,2-Tetrachloroethane	100	U
108-86-1	Bromobenzene	100	U
96-18-4	1,2,3-Trichloropropane	100	U
95-49-8	2-Chlorotoluene	100	U
108-67-8	1,3,5-Trimethylbenzene	100	U
106-43-4	4-Chlorotoluene	100	U
98-06-6	tert-Butylbenzene	100	U
95-63-6	1,2,4-Trimethylbenzene	100	U
135-98-8	sec-Butylbenzene	100	U
99-87-6	4-Isopropyltoluene	100	U
541-73-1	1,3-Dichlorobenzene	100	U
106-46-7	1,4-Dichlorobenzene	100	U
95-50-1	1,2-Dichlorobenzene	100	U
96-12-8	1,2-Dibromo-3-chloropropane	100	U
120-82-1	1,2,4-Trichlorobenzene	100	U
87-68-3	Hexachlorobutadiene	100	U
87-61-6	1,2,3-Trichlorobenzene	100	U
91-20-3	Naphthalene	100	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	100	U
123-91-1	1,4-Dioxane	2000	U R
110-82-7	Cyclohexane	100	U
79-20-9	Methyl acetate	100	U

DEC 5/10/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-013

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-09A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0523.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/02/2012
% Moisture: not dec. Date Analyzed: 04/09/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 20.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
108-87-2	Methylcyclohexane		100	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-013

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-09A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0523.D
Level: (TRACE or LOW/MED) LOW Date Received: 04/02/2012
% Moisture: not dec. Date Analyzed: 04/09/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 20.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-013D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-10A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0495.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/02/2012
% Moisture: not dec. Date Analyzed: 04/06/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U J
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U R
156-59-2	cis-1,2-Dichloroethene	0.61	J
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	12	
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

10/5/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-013D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-10A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0495.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/02/2012
% Moisture: not dec. Date Analyzed: 04/06/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	47	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

bot 5/11/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-013D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-10A
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0495.D
 Level: (TRACE/LOW/MED) LOW Date Received: 04/02/2012
 % Moisture: not dec. Date Analyzed: 04/06/2012
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
108-87-2	Methylcyclohexane		5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-013D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-10A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0495.D
Level: (TRACE or LOW/MED) LOW Date Received: 04/02/2012
% Moisture: not dec. Date Analyzed: 04/06/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-014D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-07A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0480.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/06/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U J
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	1.2	J
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U R
156-59-2	cis-1,2-Dichloroethene	1.1	J
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	2.7	J
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

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5/4/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-014D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-07A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0480.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/06/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	28	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

6/3/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-014D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-07A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0480.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/06/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
108-87-2	Methylcyclohexane	5.0		U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DEC-014D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-07A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0480.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/06/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-014R

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-06A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0444.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/05/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U J
74-87-3	Chloromethane	5.0	U J
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U J
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U R
156-59-2	cis-1,2-Dichloroethene	17	
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	3.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	34	
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

bat 5/4/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-014R

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-06A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0444.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/05/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	15000 3200	U DJ
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	3.9	J
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	1.1	J
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

600
5/4/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-014R

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-06A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0444.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/05/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L
108-87-2	Methylcyclohexane	5.0	0

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DEC-014R

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-06A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0444.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/05/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-014RDL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-06ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0491.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/06/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 500.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	2500	U J
74-87-3	Chloromethane	2500	U
75-01-4	Vinyl chloride	2500	U
74-83-9	Bromomethane	2500	U
75-00-3	Chloroethane	2500	U
75-69-4	Trichlorofluoromethane	2500	U
75-35-4	1,1-Dichloroethene	2500	U
67-64-1	Acetone	2500	U R
74-88-4	Iodomethane	2500	U
75-15-0	Carbon disulfide	2500	U
75-09-2	Methylene chloride	2500	U
156-60-5	trans-1,2-Dichloroethene	2500	U
1634-04-4	Methyl tert-butyl ether	2500	U
75-34-3	1,1-Dichloroethane	2500	U
108-05-4	Vinyl acetate	2500	U
78-93-3	2-Butanone	2500	U R
156-59-2	cis-1,2-Dichloroethene	2500	U
594-20-7	2,2-Dichloropropane	2500	U
74-97-5	Bromochloromethane	2500	U
67-66-3	Chloroform	2500	U
71-55-6	1,1,1-Trichloroethane	2500	U
563-58-6	1,1-Dichloropropene	2500	U
56-23-5	Carbon tetrachloride	2500	U
107-06-2	1,2-Dichloroethane	2500	U
71-43-2	Benzene	2500	U
79-01-6	Trichloroethene	390	DJ
78-87-5	1,2-Dichloropropane	2500	U
74-95-3	Dibromomethane	2500	U
75-27-4	Bromodichloromethane	2500	U
10061-01-5	cis-1,3-Dichloropropene	2500	U
108-10-1	4-Methyl-2-pentanone	2500	U
108-88-3	Toluene	2500	U
10061-02-6	trans-1,3-Dichloropropene	2500	U
79-00-5	1,1,2-Trichloroethane	2500	U
142-28-9	1,3-Dichloropropane	2500	U

see 5/14/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-014RDL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-06ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0491.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/06/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 500.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	15000	D I
591-78-6	2-Hexanone	2500	U
124-48-1	Dibromochloromethane	2500	U
106-93-4	1,2-Dibromoethane	2500	U
108-90-7	Chlorobenzene	2500	U
630-20-6	1,1,1,2-Tetrachloroethane	2500	U
100-41-4	Ethylbenzene	2500	U
1330-20-7	m,p-Xylene	2500	U
95-47-6	o-Xylene	2500	U
1330-20-7	Xylene (Total)	2500	U
100-42-5	Styrene	2500	U
75-25-2	Bromoform	2500	U
98-82-8	Isopropylbenzene	2500	U
79-34-5	1,1,2,2-Tetrachloroethane	2500	U
108-86-1	Bromobenzene	2500	U
96-18-4	1,2,3-Trichloropropane	2500	U
95-49-8	2-Chlorotoluene	2500	U
108-67-8	1,3,5-Trimethylbenzene	2500	U
106-43-4	4-Chlorotoluene	2500	U
98-06-6	tert-Butylbenzene	2500	U
95-63-6	1,2,4-Trimethylbenzene	2500	U
135-98-8	sec-Butylbenzene	2500	U
99-87-6	4-Isopropyltoluene	2500	U
541-73-1	1,3-Dichlorobenzene	2500	U
106-46-7	1,4-Dichlorobenzene	2500	U
95-50-1	1,2-Dichlorobenzene	2500	U
96-12-8	1,2-Dibromo-3-chloropropane	2500	U
120-82-1	1,2,4-Trichlorobenzene	2500	U
87-68-3	Hexachlorobutadiene	2500	U
87-61-6	1,2,3-Trichlorobenzene	2500	U
91-20-3	Naphthalene	2500	U J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2500	U
123-91-1	1,4-Dioxane	50000	U R
110-82-7	Cyclohexane	2500	U
79-20-9	Methyl acetate	2500	U

626
3/1/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-014RDL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-06ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0491.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/06/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 500.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION/UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
108-87-2	Methylcyclohexane		2500	U

626
5/4/12

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DEC-014RDL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-06ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0491.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/06/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 500.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

6/2
5/2/12

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-015

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-13A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0349.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/30/2012
% Moisture: not dec. Date Analyzed: 04/03/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	11	
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U R
156-59-2	cis-1,2-Dichloroethene	19	
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	1.1	J
71-55-6	1,1,1-Trichloroethane	1.3	J
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	7.6	
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

60x
5/4/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-015

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-13A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0349.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/30/2012
% Moisture: not dec. Date Analyzed: 04/03/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	37	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U J
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U J
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U J
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

60x
5/4/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-015

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-13A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0349.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/30/2012
% Moisture: not dec. Date Analyzed: 04/03/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L
108-87-2	Methylcyclohexane	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DEC-015

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-13A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0349.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/30/2012
% Moisture: not dec. Date Analyzed: 04/03/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-015D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-18A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0367.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/30/2012
% Moisture: not dec. Date Analyzed: 04/04/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	6.1	
67-64-1	Acetone	5.0	U R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	0.58	J
75-34-3	1,1-Dichloroethane	1.6	J
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U R
156-59-2	cis-1,2-Dichloroethene	6.8	
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	1.2	J
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	45	
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-015D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-18A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0367.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/30/2012
% Moisture: not dec. Date Analyzed: 04/04/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
127-18-4	Tetrachloroethene	310	270	270
591-78-6	2-Hexanone		5.0	U
124-48-1	Dibromochloromethane		5.0	U
106-93-4	1,2-Dibromoethane		5.0	U
108-90-7	Chlorobenzene		5.0	U
630-20-6	1,1,1,2-Tetrachloroethane		5.0	U
100-41-4	Ethylbenzene		5.0	U
1330-20-7	m,p-Xylene		5.0	U
95-47-6	o-Xylene		5.0	U
1330-20-7	Xylene (Total)		5.0	U
100-42-5	Styrene		5.0	U
75-25-2	Bromoform		5.0	U
98-82-8	Isopropylbenzene		5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		5.0	U
108-86-1	Bromobenzene		5.0	U
96-18-4	1,2,3-Trichloropropane		2.7	J
95-49-8	2-Chlorotoluene		5.0	U
108-67-8	1,3,5-Trimethylbenzene		5.0	U
106-43-4	4-Chlorotoluene		5.0	U
98-06-6	tert-Butylbenzene		5.0	U
95-63-6	1,2,4-Trimethylbenzene		5.0	U
135-98-8	sec-Butylbenzene		5.0	U
99-87-6	4-Isopropyltoluene		5.0	U
541-73-1	1,3-Dichlorobenzene		5.0	U
106-46-7	1,4-Dichlorobenzene		5.0	U
95-50-1	1,2-Dichlorobenzene		5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		5.0	U
120-82-1	1,2,4-Trichlorobenzene		5.0	U
87-68-3	Hexachlorobutadiene		5.0	U
87-61-6	1,2,3-Trichlorobenzene		5.0	U
91-20-3	Naphthalene		5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		5.0	U
123-91-1	1,4-Dioxane		100	U
110-82-7	Cyclohexane		5.0	U
79-20-9	Methyl acetate		5.0	U

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-015D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-18A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0367.D

Level: (TRACE/LOW/MED) LOW Date Received: 03/30/2012

% Moisture: not dec. Date Analyzed: 04/04/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
108-87-2	Methylcyclohexane	5.0	U	

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DEC-015D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-18A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0367.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/30/2012
% Moisture: not dec. Date Analyzed: 04/04/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-015DDL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-18ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0420.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/30/2012
% Moisture: not dec. Date Analyzed: 04/04/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 5.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg)	UG/L	Q
75-71-8	Dichlorodifluoromethane	25	U	
74-87-3	Chloromethane	25	U	
75-01-4	Vinyl chloride	25	U	
74-83-9	Bromomethane	25	U	
75-00-3	Chloroethane	25	U	
75-69-4	Trichlorofluoromethane	25	U	
75-35-4	1,1-Dichloroethene	25	U	
67-64-1	Acetone	25	U	R
74-88-4	Iodomethane	25	U	
75-15-0	Carbon disulfide	25	U	
75-09-2	Methylene chloride	25	U	
156-60-5	trans-1,2-Dichloroethene	25	U	
1634-04-4	Methyl tert-butyl ether	25	U	
75-34-3	1,1-Dichloroethane	25	U	
108-05-4	Vinyl acetate	25	U	
78-93-3	2-Butanone	25	U	R
156-59-2	cis-1,2-Dichloroethene	25	U	
594-20-7	2,2-Dichloropropane	25	U	
74-97-5	Bromochloromethane	25	U	
67-66-3	Chloroform	25	U	
71-55-6	1,1,1-Trichloroethane	25	U	
563-58-6	1,1-Dichloropropene	25	U	
56-23-5	Carbon tetrachloride	25	U	
107-06-2	1,2-Dichloroethane	25	U	
71-43-2	Benzene	25	U	
79-01-6	Trichloroethene	31	D	
78-87-5	1,2-Dichloropropane	25	U	
74-95-3	Dibromomethane	25	U	
75-27-4	Bromodichloromethane	25	U	
10061-01-5	cis-1,3-Dichloropropene	25	U	
108-10-1	4-Methyl-2-pentanone	25	U	
108-88-3	Toluene	25	U	
10061-02-6	trans-1,3-Dichloropropene	25	U	
79-00-5	1,1,2-Trichloroethane	25	U	
142-28-9	1,3-Dichloropropane	25	U	

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-015DDL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-18ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0420.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/30/2012
% Moisture: not dec. Date Analyzed: 04/04/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 5.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	310	D
591-78-6	2-Hexanone	25	U
124-48-1	Dibromochloromethane	25	U
106-93-4	1,2-Dibromoethane	25	U
108-90-7	Chlorobenzene	25	U
630-20-6	1,1,1,2-Tetrachloroethane	25	U
100-41-4	Ethylbenzene	25	U
1330-20-7	m,p-Xylene	25	U
95-47-6	o-Xylene	25	U
1330-20-7	Xylene (Total)	25	U
100-42-5	Styrene	25	U
75-25-2	Bromoform	25	U
98-82-8	Isopropylbenzene	25	U
79-34-5	1,1,2,2-Tetrachloroethane	25	U
108-86-1	Bromobenzene	25	U
96-18-4	1,2,3-Trichloropropane	25	U
95-49-8	2-Chlorotoluene	25	U
108-67-8	1,3,5-Trimethylbenzene	25	U
106-43-4	4-Chlorotoluene	25	U
98-06-6	tert-Butylbenzene	25	U
95-63-6	1,2,4-Trimethylbenzene	25	U
135-98-8	sec-Butylbenzene	25	U
99-87-6	4-Isopropyltoluene	25	U
541-73-1	1,3-Dichlorobenzene	25	U
106-46-7	1,4-Dichlorobenzene	25	U
95-50-1	1,2-Dichlorobenzene	25	U
96-12-8	1,2-Dibromo-3-chloropropane	25	U
120-82-1	1,2,4-Trichlorobenzene	25	U
87-68-3	Hexachlorobutadiene	25	U
87-61-6	1,2,3-Trichlorobenzene	25	U
91-20-3	Naphthalene	25	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	25	U
123-91-1	1,4-Dioxane	500	U
110-82-7	Cyclohexane	25	U
79-20-9	Methyl acetate	25	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-015DDL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-18ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0420.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/30/2012
% Moisture: not dec. Date Analyzed: 04/04/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 5.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
108-87-2	Methylcyclohexane		25	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DEC-015DDL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-18ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0420.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/30/2012
% Moisture: not dec. Date Analyzed: 04/04/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 5.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

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1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-015R

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-16A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0418.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/30/2012
% Moisture: not dec. Date Analyzed: 04/04/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	14	
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U R
156-59-2	cis-1,2-Dichloroethene	27	
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	1.4	J
71-55-6	1,1,1-Trichloroethane	1.5	J
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	6.4	
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-015R

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-16A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0418.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/30/2012
% Moisture: not dec. Date Analyzed: 04/04/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	24	I
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-015R

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-16A
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0418.D
 Level: (TRACE/LOW/MED) LOW Date Received: 03/30/2012
 % Moisture: not dec. Date Analyzed: 04/04/2012
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L
108-87-2	Methylcyclohexane	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DEC-015R

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-16A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0418.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/30/2012
% Moisture: not dec. Date Analyzed: 04/04/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-022D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-18A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0310.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/02/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	0.89	J
67-64-1	Acetone	5.0	U R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	0.69	J
1634-04-4	Methyl tert-butyl ether	0.96	J
75-34-3	1,1-Dichloroethane	5.0	
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U R
156-59-2	cis-1,2-Dichloroethene	38	
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	2.4	J
71-55-6	1,1,1-Trichloroethane	1.5	J
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	64	
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

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5/4/14

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-022D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-18A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0310.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/02/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	1200 1100	U J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U J
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U J
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U J
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

5/14/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-022D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-18A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0310.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/02/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
108-87-2	Methylcyclohexane		5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DEC-022D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-18A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0310.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/02/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-022DDL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-18ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0341.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/03/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 20.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	100	U
74-87-3	Chloromethane	100	U
75-01-4	Vinyl chloride	100	U
74-83-9	Bromomethane	100	U
75-00-3	Chloroethane	100	U
75-69-4	Trichlorofluoromethane	100	U
75-35-4	1,1-Dichloroethene	100	U
67-64-1	Acetone	100	U R
74-88-4	Iodomethane	100	U
75-15-0	Carbon disulfide	100	U
75-09-2	Methylene chloride	100	U
156-60-5	trans-1,2-Dichloroethene	100	U
1634-04-4	Methyl tert-butyl ether	100	U
75-34-3	1,1-Dichloroethane	100	U
108-05-4	Vinyl acetate	100	U
78-93-3	2-Butanone	100	U R
156-59-2	cis-1,2-Dichloroethene	34	DJ
594-20-7	2,2-Dichloropropane	100	U
74-97-5	Bromochloromethane	100	U
67-66-3	Chloroform	100	U
71-55-6	1,1,1-Trichloroethane	100	U
563-58-6	1,1-Dichloropropene	100	U
56-23-5	Carbon tetrachloride	100	U
107-06-2	1,2-Dichloroethane	100	U
71-43-2	Benzene	100	U
79-01-6	Trichloroethene	58	DJ
78-87-5	1,2-Dichloropropane	100	U
74-95-3	Dibromomethane	100	U
75-27-4	Bromodichloromethane	100	U
10061-01-5	cis-1,3-Dichloropropene	100	U
108-10-1	4-Methyl-2-pentanone	100	U
108-88-3	Toluene	100	U
10061-02-6	trans-1,3-Dichloropropene	100	U
79-00-5	1,1,2-Trichloroethane	100	U
142-28-9	1,3-Dichloropropane	100	U

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-022DDL

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM

Case No.: L0590

Mod. Ref No.:

SDG No.: SL0590

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: L0590-18ADL

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V8B0341.D

Level: (TRACE/LOW/MED) LOW

Date Received: 03/29/2012

% Moisture: not dec.

Date Analyzed: 04/03/2012

GC Column: DB-624

ID: 0.25

(mm)

Dilution Factor: 20.0

Soil Extract Volume:

(uL)

Soil Aliquot Volume:

(uL)

Purge Volume: 5.0

(mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
127-18-4	Tetrachloroethene		1200	D J
591-78-6	2-Hexanone		100	U
124-48-1	Dibromochloromethane		100	U
106-93-4	1,2-Dibromoethane		100	U
108-90-7	Chlorobenzene		100	U
630-20-6	1,1,1,2-Tetrachloroethane		100	U
100-41-4	Ethylbenzene		100	U
1330-20-7	m,p-Xylene		100	U
95-47-6	o-Xylene		100	U
1330-20-7	Xylene (Total)		100	U
100-42-5	Styrene		100	U
75-25-2	Bromoform		100	U
98-82-8	Isopropylbenzene		100	U
79-34-5	1,1,2,2-Tetrachloroethane		100	U J
108-86-1	Bromobenzene		100	U
96-18-4	1,2,3-Trichloropropane		100	U J
95-49-8	2-Chlorotoluene		100	U
108-67-8	1,3,5-Trimethylbenzene		100	U
106-43-4	4-Chlorotoluene		100	U
98-06-6	tert-Butylbenzene		100	U
95-63-6	1,2,4-Trimethylbenzene		100	U
135-98-8	sec-Butylbenzene		100	U
99-87-6	4-Isopropyltoluene		100	U
541-73-1	1,3-Dichlorobenzene		100	U
106-46-7	1,4-Dichlorobenzene		100	U
95-50-1	1,2-Dichlorobenzene		100	U
96-12-8	1,2-Dibromo-3-chloropropane		100	U J
120-82-1	1,2,4-Trichlorobenzene		100	U
87-68-3	Hexachlorobutadiene		100	U
87-61-6	1,2,3-Trichlorobenzene		100	U
91-20-3	Naphthalene		100	U J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		100	U
123-91-1	1,4-Dioxane		2000	U R
110-82-7	Cyclohexane		100	U
79-20-9	Methyl acetate		100	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-022DDL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No. SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-18ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0341.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/03/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 20.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L
108-87-2	Methylcyclohexane	100	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DEC-022DDL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-18ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0341.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/03/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 20.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-027

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-06A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0627.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/12/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	3.4	J
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	6.8	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	190	
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

6/5/11

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-027

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-06A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0627.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/12/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	17	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-027

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-06A
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0627.D
 Level: (TRACE/LOW/MED) LOW Date Received: 04/03/2012
 % Moisture: not dec. Date Analyzed: 04/12/2012
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-87-2	Methylcyclohexane	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-027

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-06A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0627.D
Level: (TRACE or LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/12/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-028

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-11A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0623.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/02/2012
% Moisture: not dec. Date Analyzed: 04/12/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 5.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	25	U
74-87-3	Chloromethane	25	U
75-01-4	Vinyl chloride	25	U
74-83-9	Bromomethane	25	U
75-00-3	Chloroethane	25	U
75-69-4	Trichlorofluoromethane	25	U
75-35-4	1,1-Dichloroethene	25	U
67-64-1	Acetone	25	U
74-88-4	Iodomethane	25	U
75-15-0	Carbon disulfide	25	U
75-09-2	Methylene chloride	25	U
156-60-5	trans-1,2-Dichloroethene	25	U
1634-04-4	Methyl tert-butyl ether	25	U
75-34-3	1,1-Dichloroethane	25	U
108-05-4	Vinyl acetate	25	U
78-93-3	2-Butanone	25	U
156-59-2	cis-1,2-Dichloroethene	27	U
594-20-7	2,2-Dichloropropane	25	U
74-97-5	Bromochloromethane	25	U
67-66-3	Chloroform	25	U
71-55-6	1,1,1-Trichloroethane	25	U
563-58-6	1,1-Dichloropropene	25	U
56-23-5	Carbon tetrachloride	25	U
107-06-2	1,2-Dichloroethane	25	U
71-43-2	Benzene	25	U
79-01-6	Trichloroethene	190	U
78-87-5	1,2-Dichloropropane	25	U
74-95-3	Dibromomethane	25	U
75-27-4	Bromodichloromethane	25	U
10061-01-5	cis-1,3-Dichloropropene	25	U
108-10-1	4-Methyl-2-pentanone	25	U
108-88-3	Toluene	25	U
10061-02-6	trans-1,3-Dichloropropene	25	U
79-00-5	1,1,2-Trichloroethane	25	U
142-28-9	1,3-Dichloropropane	25	U

box 5/18/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-028

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-11A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0623.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/02/2012
% Moisture: not dec. Date Analyzed: 04/12/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 5.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	320	J
591-78-6	2-Hexanone	25	U
124-48-1	Dibromochloromethane	25	U
106-93-4	1,2-Dibromoethane	25	U
108-90-7	Chlorobenzene	25	U
630-20-6	1,1,1,2-Tetrachloroethane	25	U
100-41-4	Ethylbenzene	25	U
179601-23-1	m,p-Xylene	25	U
95-47-6	o-Xylene	25	U
1330-20-7	Xylene (Total)	25	U
100-42-5	Styrene	25	U
75-25-2	Bromoform	25	U
98-82-8	Isopropylbenzene	25	U
79-34-5	1,1,2,2-Tetrachloroethane	25	U
108-86-1	Bromobenzene	25	U
96-18-4	1,2,3-Trichloropropane	25	U
95-49-8	2-Chlorotoluene	25	U
108-67-8	1,3,5-Trimethylbenzene	25	U
106-43-4	4-Chlorotoluene	25	U
98-06-6	tert-Butylbenzene	25	U
95-63-6	1,2,4-Trimethylbenzene	25	U
135-98-8	sec-Butylbenzene	25	U
99-87-6	4-Isopropyltoluene	25	U
541-73-1	1,3-Dichlorobenzene	25	U
106-46-7	1,4-Dichlorobenzene	25	U
95-50-1	1,2-Dichlorobenzene	25	U
96-12-8	1,2-Dibromo-3-chloropropane	25	U
120-82-1	1,2,4-Trichlorobenzene	25	U
87-68-3	Hexachlorobutadiene	25	U
87-61-6	1,2,3-Trichlorobenzene	25	U
91-20-3	Naphthalene	25	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	25	U
123-91-1	1,4-Dioxane	500	U R
110-82-7	Cyclohexane	25	U
79-20-9	Methyl acetate	25	U

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5/18/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-028

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-11A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0623.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/02/2012
% Moisture: not dec. Date Analyzed: 04/12/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 5.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
108-87-2	Methylcyclohexane		25	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-028

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-11A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0623.D
Level: (TRACE or LOW/MED) LOW Date Received: 04/02/2012
% Moisture: not dec. Date Analyzed: 04/12/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 5.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

20120330-FD-1

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: Field Dup of DEC-28 D
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-15A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0528.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/02/2012
% Moisture: not dec. Date Analyzed: 04/09/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U	J
74-87-3	Chloromethane	5.0	U	
75-01-4	Vinyl chloride	5.0	U	
74-83-9	Bromomethane	5.0	U	
75-00-3	Chloroethane	5.0	U	
75-69-4	Trichlorofluoromethane	5.0	U	
75-35-4	1,1-Dichloroethene	2.7	J	
67-64-1	Acetone	5.0	U	R
74-88-4	Iodomethane	5.0	U	
75-15-0	Carbon disulfide	5.0	U	
75-09-2	Methylene chloride	5.0	U	
156-60-5	trans-1,2-Dichloroethene	5.0	U	
1634-04-4	Methyl tert-butyl ether	5.0	U	
75-34-3	1,1-Dichloroethane	2.2	J	
108-05-4	Vinyl acetate	5.0	U	
78-93-3	2-Butanone	5.0	U	R
156-59-2	cis-1,2-Dichloroethene	6.1		
594-20-7	2,2-Dichloropropane	5.0	U	
74-97-5	Bromochloromethane	5.0	U	
67-66-3	Chloroform	5.0	U	
71-55-6	1,1,1-Trichloroethane	5.0	U	
563-58-6	1,1-Dichloropropene	5.0	U	
56-23-5	Carbon tetrachloride	5.0	U	
107-06-2	1,2-Dichloroethane	5.0	U	
71-43-2	Benzene	5.0	U	
79-01-6	Trichloroethene	99		
78-87-5	1,2-Dichloropropane	5.0	U	
74-95-3	Dibromomethane	5.0	U	
75-27-4	Bromodichloromethane	5.0	U	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	
108-10-1	4-Methyl-2-pentanone	5.0	U	
108-88-3	Toluene	5.0	U	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	
79-00-5	1,1,2-Trichloroethane	5.0	U	
142-28-9	1,3-Dichloropropane	5.0	U	

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

20120330-FD-1

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: Field Dup of DEC-2PD
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-15A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0528.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/02/2012
% Moisture: not dec. Date Analyzed: 04/09/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	6.0	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

box 5/18/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

20120330-FD-1

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: Field Dup of DEC-280
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-15A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0528.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/02/2012
% Moisture: not dec. Date Analyzed: 04/09/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/L
108-87-2	Methylcyclohexane	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

20120330-FD-1

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: Field Dup of DEC-280
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-15A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0528.D
Level: (TRACE or LOW/MED) LOW Date Received: 04/02/2012
% Moisture: not dec. Date Analyzed: 04/09/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-028D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-12A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0624.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/02/2012
% Moisture: not dec. Date Analyzed: 04/12/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U J
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	3.2	J
67-64-1	Acetone	5.0	U R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	1.1	J
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	2.3	J
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U R
156-59-2	cis-1,2-Dichloroethene	7.1	
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	97	
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

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5/10/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-028D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-12A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0624.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/02/2012
% Moisture: not dec. Date Analyzed: 04/12/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	4.6	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

60x
5/11/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-028D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-12A
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0624.D
 Level: (TRACE/LOW/MED) LOW Date Received: 04/02/2012
 % Moisture: not dec. Date Analyzed: 04/12/2012
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-87-2	Methylcyclohexane	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-028D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-12A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0624.D
Level: (TRACE or LOW/MED) LOW Date Received: 04/02/2012
% Moisture: not dec. Date Analyzed: 04/12/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-029

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-15A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0351.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/30/2012
% Moisture: not dec. Date Analyzed: 04/03/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	0.66	J
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U R
156-59-2	cis-1,2-Dichloroethene	14	
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	2.0	J
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	21	
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

60/5/4/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-029

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-15A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0351.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/30/2012
% Moisture: not dec. Date Analyzed: 04/03/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	12000 2800	F DJ
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.9	J
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U J
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U J
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	0.82	J
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U J
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

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5/4/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-029

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-15A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0351.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/30/2012
% Moisture: not dec. Date Analyzed: 04/03/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L
108-87-2	Methylcyclohexane	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DEC-029

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-15A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0351.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/30/2012
% Moisture: not dec. Date Analyzed: 04/03/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DEC-029DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-15ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0419.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/30/2012
% Moisture: not dec. Date Analyzed: 04/04/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 500.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/L	Q
75-71-8	Dichlorodifluoromethane	2500	U	
74-87-3	Chloromethane	2500	U	
75-01-4	Vinyl chloride	2500	U	
74-83-9	Bromomethane	2500	U	
75-00-3	Chloroethane	2500	U	
75-69-4	Trichlorofluoromethane	2500	U	
75-35-4	1,1-Dichloroethene	2500	U	
67-64-1	Acetone	2500	U	R
74-88-4	Iodomethane	2500	U	
75-15-0	Carbon disulfide	2500	U	
75-09-2	Methylene chloride	2500	U	
156-60-5	trans-1,2-Dichloroethene	2500	U	
1634-04-4	Methyl tert-butyl ether	2500	U	
75-34-3	1,1-Dichloroethane	2500	U	
108-05-4	Vinyl acetate	2500	U	
78-93-3	2-Butanone	2500	U	R
156-59-2	cis-1,2-Dichloroethene	2500	U	
594-20-7	2,2-Dichloropropane	2500	U	
74-97-5	Bromochloromethane	2500	U	
67-66-3	Chloroform	2500	U	
71-55-6	1,1,1-Trichloroethane	2500	U	
563-58-6	1,1-Dichloropropene	2500	U	
56-23-5	Carbon tetrachloride	2500	U	
107-06-2	1,2-Dichloroethane	2500	U	
71-43-2	Benzene	2500	U	
79-01-6	Trichloroethene	2500	U	
78-87-5	1,2-Dichloropropane	2500	U	
74-95-3	Dibromomethane	2500	U	
75-27-4	Bromodichloromethane	2500	U	
10061-01-5	cis-1,3-Dichloropropene	2500	U	
108-10-1	4-Methyl-2-pentanone	2500	U	
108-88-3	Toluene	2500	U	
10061-02-6	trans-1,3-Dichloropropene	2500	U	
79-00-5	1,1,2-Trichloroethane	2500	U	
142-28-9	1,3-Dichloropropane	2500	U	

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-029DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-15ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0419.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/30/2012
% Moisture: not dec. Date Analyzed: 04/04/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 500.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	12000	D I
591-78-6	2-Hexanone	2500	U
124-48-1	Dibromochloromethane	2500	U
106-93-4	1,2-Dibromoethane	2500	U
108-90-7	Chlorobenzene	2500	U
630-20-6	1,1,1,2-Tetrachloroethane	2500	U
100-41-4	Ethylbenzene	2500	U
1330-20-7	m,p-Xylene	2500	U
95-47-6	o-Xylene	2500	U
1330-20-7	Xylene (Total)	2500	U
100-42-5	Styrene	2500	U
75-25-2	Bromoform	2500	U
98-82-8	Isopropylbenzene	2500	U
79-34-5	1,1,2,2-Tetrachloroethane	2500	U
108-86-1	Bromobenzene	2500	U
96-18-4	1,2,3-Trichloropropane	2500	U
95-49-8	2-Chlorotoluene	2500	U
108-67-8	1,3,5-Trimethylbenzene	2500	U
106-43-4	4-Chlorotoluene	2500	U
98-06-6	tert-Butylbenzene	2500	U
95-63-6	1,2,4-Trimethylbenzene	2500	U
135-98-8	sec-Butylbenzene	2500	U
99-87-6	4-Isopropyltoluene	2500	U
541-73-1	1,3-Dichlorobenzene	2500	U
106-46-7	1,4-Dichlorobenzene	2500	U
95-50-1	1,2-Dichlorobenzene	2500	U
96-12-8	1,2-Dibromo-3-chloropropane	2500	U
120-82-1	1,2,4-Trichlorobenzene	2500	U
87-68-3	Hexachlorobutadiene	2500	U
87-61-6	1,2,3-Trichlorobenzene	2500	U
91-20-3	Naphthalene	2500	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2500	U
123-91-1	1,4-Dioxane	50000	U R
110-82-7	Cyclohexane	2500	U
79-20-9	Methyl acetate	2500	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-029DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-15ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0419.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/30/2012
% Moisture: not dec. Date Analyzed: 04/04/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 500.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
108-87-2	Methylcyclohexane	2500		U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DEC-029DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-15ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0419.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/30/2012
% Moisture: not dec. Date Analyzed: 04/04/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 500.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

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5/4/12

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-029D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-14A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0350.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/30/2012
% Moisture: not dec. Date Analyzed: 04/03/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	1.7	J
75-34-3	1,1-Dichloroethane	0.94	J
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U R
156-59-2	cis-1,2-Dichloroethene	3.1	J
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	4.6	J
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

6/2K
5/14/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-029D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-14A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0350.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/30/2012
% Moisture: not dec. Date Analyzed: 04/03/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	19	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U J
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U J
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U J
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

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5/4/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-029D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-14A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0350.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/30/2012
% Moisture: not dec. Date Analyzed: 04/03/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L
108-87-2	Methylcyclohexane	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DEC-029D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-14A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0350.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/30/2012
% Moisture: not dec. Date Analyzed: 04/03/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

20120331-FD-1

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: Field No. DEC-029TC
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-14A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0630.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/12/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	1.1	J
67-64-1	Acetone	5.0	U
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	2.3	J
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	16	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	2100 1800	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	300 320	U
78-87-5	1,2-Dichloropropane	2.1	J
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

601 5/17/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

20120331-FD-1

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: Field by DEC-029 TC
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-14A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0630.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/12/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	4500 2900	U DI
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

20120331-FD-1

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: Field App of DEC-029 TC
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-14A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0630.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/12/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) UG/L	Q
108-87-2	Methylcyclohexane	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

20120331-FD-1

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: Field No. of DEC-0297C
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-14A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0630.D
Level: (TRACE or LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/12/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

20120331-FD-1DL

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Field No. of DEC-029TC

Lab Code: MITKEM

Case No.: L0639

Mod. Ref No.:

SDG No.: SL0639

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: L0639-14ADL

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V8B0650.D

Level: (TRACE/LOW/MED) LOW

Date Received: 04/03/2012

% Moisture: not dec.

Date Analyzed: 04/13/2012

GC Column: DB-624

ID: 0.25

(mm)

Dilution Factor: 50.0

Soil Extract Volume:

(uL)

Soil Aliquot Volume:

(uL)

Purge Volume: 5.0

(mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/L	Q
75-71-8	Dichlorodifluoromethane	250	U	
74-87-3	Chloromethane	250	U	
75-01-4	Vinyl chloride	250	U	
74-83-9	Bromomethane	250	U	
75-00-3	Chloroethane	250	U	
75-69-4	Trichlorofluoromethane	250	U	
75-35-4	1,1-Dichloroethene	250	U	
67-64-1	Acetone	250	U	R
74-88-4	Iodomethane	250	U	
75-15-0	Carbon disulfide	250	U	
75-09-2	Methylene chloride	250	U	
156-60-5	trans-1,2-Dichloroethene	250	U	
1634-04-4	Methyl tert-butyl ether	250	U	
75-34-3	1,1-Dichloroethane	250	U	
108-05-4	Vinyl acetate	250	U	
78-93-3	2-Butanone	250	U	R
156-59-2	cis-1,2-Dichloroethene	250	U	
594-20-7	2,2-Dichloropropane	250	U	
74-97-5	Bromochloromethane	250	U	
67-66-3	Chloroform	250	U	
71-55-6	1,1,1-Trichloroethane	250	U	
563-58-6	1,1-Dichloropropene	250	U	
56-23-5	Carbon tetrachloride	250	U	
107-06-2	1,2-Dichloroethane	2100	D	
71-43-2	Benzene	250	U	
79-01-6	Trichloroethene	300	D	
78-87-5	1,2-Dichloropropane	250	U	
74-95-3	Dibromomethane	250	U	
75-27-4	Bromodichloromethane	250	U	
10061-01-5	cis-1,3-Dichloropropene	250	U	
108-10-1	4-Methyl-2-pentanone	250	U	
108-88-3	Toluene	250	U	
10061-02-6	trans-1,3-Dichloropropene	250	U	
79-00-5	1,1,2-Trichloroethane	250	U	
142-28-9	1,3-Dichloropropane	250	U	

624
5/18/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

20120331-FD-1DL

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Field Dup of DEC-029 TC

Lab Code: MITKEM

Case No.: L0639

Mod. Ref No.:

SDG No.: SL0639

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: L0639-14ADL

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V8B0650.D

Level: (TRACE/LOW/MED) LOW

Date Received: 04/03/2012

% Moisture: not dec.

Date Analyzed: 04/13/2012

GC Column: DB-624

ID: 0.25

(mm)

Dilution Factor: 50.0

Soil Extract Volume:

(uL)

Soil Aliquot Volume:

(uL)

Purge Volume: 5.0

(mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	4500	D J
591-78-6	2-Hexanone	250	U
124-48-1	Dibromochloromethane	250	U
106-93-4	1,2-Dibromoethane	250	U
108-90-7	Chlorobenzene	250	U
630-20-6	1,1,1,2-Tetrachloroethane	250	U
100-41-4	Ethylbenzene	250	U
179601-23-1	m,p-Xylene	250	U
95-47-6	o-Xylene	250	U
1330-20-7	Xylene (Total)	250	U
100-42-5	Styrene	250	U
75-25-2	Bromoform	250	U
98-82-8	Isopropylbenzene	250	U
79-34-5	1,1,2,2-Tetrachloroethane	250	U
108-86-1	Bromobenzene	250	U
96-18-4	1,2,3-Trichloropropane	250	U
95-49-8	2-Chlorotoluene	250	U
108-67-8	1,3,5-Trimethylbenzene	250	U
106-43-4	4-Chlorotoluene	250	U
98-06-6	tert-Butylbenzene	250	U
95-63-6	1,2,4-Trimethylbenzene	250	U
135-98-8	sec-Butylbenzene	250	U
99-87-6	4-Isopropyltoluene	250	U
541-73-1	1,3-Dichlorobenzene	250	U
106-46-7	1,4-Dichlorobenzene	250	U
95-50-1	1,2-Dichlorobenzene	250	U
96-12-8	1,2-Dibromo-3-chloropropane	250	U
120-82-1	1,2,4-Trichlorobenzene	250	U
87-68-3	Hexachlorobutadiene	250	U
87-61-6	1,2,3-Trichlorobenzene	250	U
91-20-3	Naphthalene	250	U J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	250	U
123-91-1	1,4-Dioxane	5000	U R
110-82-7	Cyclohexane	250	U
79-20-9	Methyl acetate	250	U

ben
5/19/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

20120331-FD-1DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: Field Rep of DEC-029 TC
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-14ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0650.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/13/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 50.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L
108-87-2	Methylcyclohexane	250	U

W
5/10/12

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

20120331-FD-1DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: Field Rep of DEC-029TC
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-14ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0650.D
Level: (TRACE or LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/13/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 50.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-029TC

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-13A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0572.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/10/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U J
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U P
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	2.6	J
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U R
156-59-2	cis-1,2-Dichloroethene	14	
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	3700 1900	U D
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	300 410	U DT
78-87-5	1,2-Dichloropropane	2.2	J
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-029TC

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-13A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0572.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/10/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	2300 2000	U DT
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

for 5/10/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-029TC

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-13A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0572.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/10/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) UG/L	Q
108-87-2	Methylcyclohexane	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-029TC

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-13A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0572.D
Level: (TRACE or LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/10/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-029TCDL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-13ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0618.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/12/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 100.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/L	Q
75-71-8	Dichlorodifluoromethane	500	U	
74-87-3	Chloromethane	500	U	
75-01-4	Vinyl chloride	500	U	
74-83-9	Bromomethane	500	U	I
75-00-3	Chloroethane	500	U	
75-69-4	Trichlorofluoromethane	500	U	
75-35-4	1,1-Dichloroethene	500	U	
67-64-1	Acetone	500	U	R
74-88-4	Iodomethane	500	U	
75-15-0	Carbon disulfide	500	U	
75-09-2	Methylene chloride	500	U	
156-60-5	trans-1,2-Dichloroethene	500	U	
1634-04-4	Methyl tert-butyl ether	500	U	
75-34-3	1,1-Dichloroethane	500	U	
108-05-4	Vinyl acetate	500	U	
78-93-3	2-Butanone	500	U	R
156-59-2	cis-1,2-Dichloroethene	500	U	
594-20-7	2,2-Dichloropropane	500	U	
74-97-5	Bromochloromethane	500	U	
67-66-3	Chloroform	500	U	
71-55-6	1,1,1-Trichloroethane	500	U	
563-58-6	1,1-Dichloropropene	500	U	
56-23-5	Carbon tetrachloride	500	U	
107-06-2	1,2-Dichloroethane	3700	D	
71-43-2	Benzene	500	U	
79-01-6	Trichloroethene	300	DJ	
78-87-5	1,2-Dichloropropane	500	U	
74-95-3	Dibromomethane	500	U	
75-27-4	Bromodichloromethane	500	U	
10061-01-5	cis-1,3-Dichloropropene	500	U	
108-10-1	4-Methyl-2-pentanone	500	U	
108-88-3	Toluene	500	U	
10061-02-6	trans-1,3-Dichloropropene	500	U	
79-00-5	1,1,2-Trichloroethane	500	U	
142-28-9	1,3-Dichloropropane	500	U	

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-029TCDL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-13ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0618.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/12/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 100.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	2300	D I
591-78-6	2-Hexanone	500	U
124-48-1	Dibromochloromethane	500	U
106-93-4	1,2-Dibromoethane	500	U
108-90-7	Chlorobenzene	500	U
630-20-6	1,1,1,2-Tetrachloroethane	500	U
100-41-4	Ethylbenzene	500	U
179601-23-1	m,p-Xylene	500	U
95-47-6	o-Xylene	500	U
1330-20-7	Xylene (Total)	500	U
100-42-5	Styrene	500	U
75-25-2	Bromoform	500	U
98-82-8	Isopropylbenzene	500	U
79-34-5	1,1,2,2-Tetrachloroethane	500	U
108-86-1	Bromobenzene	500	U
96-18-4	1,2,3-Trichloropropane	500	U
95-49-8	2-Chlorotoluene	500	U
108-67-8	1,3,5-Trimethylbenzene	500	U
106-43-4	4-Chlorotoluene	500	U
98-06-6	tert-Butylbenzene	500	U
95-63-6	1,2,4-Trimethylbenzene	500	U
135-98-8	sec-Butylbenzene	500	U
99-87-6	4-Isopropyltoluene	500	U
541-73-1	1,3-Dichlorobenzene	500	U
106-46-7	1,4-Dichlorobenzene	500	U
95-50-1	1,2-Dichlorobenzene	500	U
96-12-8	1,2-Dibromo-3-chloropropane	500	U
120-82-1	1,2,4-Trichlorobenzene	500	U
87-68-3	Hexachlorobutadiene	500	U
87-61-6	1,2,3-Trichlorobenzene	500	U
91-20-3	Naphthalene	500	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	500	U
123-91-1	1,4-Dioxane	10000	U R
110-82-7	Cyclohexane	500	U
79-20-9	Methyl acetate	500	U

ben 5/14/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-029TCDL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-13ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0618.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/12/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 100.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L
108-87-2	Methylcyclohexane	500	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-029TCDL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-13ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0618.D
Level: (TRACE or LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/12/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 100.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

20120327-FD-1

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: *Field dup of DEC-030*
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-16A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0308.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/02/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U R
156-59-2	cis-1,2-Dichloroethene	23	
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	0.65	J
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	27	
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

6/5/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

20120327-FD-1

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: *Field dup of DEC-030*
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-16A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0308.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/02/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/L	Q
127-18-4	Tetrachloroethene	1900	1500	<i>21 DJ</i>
591-78-6	2-Hexanone		5.0	U
124-48-1	Dibromochloromethane		5.0	U
106-93-4	1,2-Dibromoethane		5.0	U
108-90-7	Chlorobenzene		5.0	U
630-20-6	1,1,1,2-Tetrachloroethane		5.0	U
100-41-4	Ethylbenzene		5.0	U
1330-20-7	m,p-Xylene		5.0	U
95-47-6	o-Xylene		5.0	U
1330-20-7	Xylene (Total)		5.0	U
100-42-5	Styrene		5.0	U
75-25-2	Bromoform		5.0	U
98-82-8	Isopropylbenzene		5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		5.0	U <i>J</i>
108-86-1	Bromobenzene		5.0	U
96-18-4	1,2,3-Trichloropropane		5.0	U <i>J</i>
95-49-8	2-Chlorotoluene		5.0	U
108-67-8	1,3,5-Trimethylbenzene		5.0	U
106-43-4	4-Chlorotoluene		5.0	U
98-06-6	tert-Butylbenzene		5.0	U
95-63-6	1,2,4-Trimethylbenzene		5.0	U
135-98-8	sec-Butylbenzene		5.0	U
99-87-6	4-Isopropyltoluene		5.0	U
541-73-1	1,3-Dichlorobenzene		5.0	U
106-46-7	1,4-Dichlorobenzene		5.0	U
95-50-1	1,2-Dichlorobenzene		5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		5.0	U <i>J</i>
120-82-1	1,2,4-Trichlorobenzene		5.0	U
87-68-3	Hexachlorobutadiene		5.0	U
87-61-6	1,2,3-Trichlorobenzene		5.0	U
91-20-3	Naphthalene		5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		5.0	U
123-91-1	1,4-Dioxane		100	U <i>R</i>
110-82-7	Cyclohexane		5.0	U
79-20-9	Methyl acetate		5.0	U

10/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

20120327-FD-1

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: Field Dup of DEC-030
 Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: SDG No.: SL0590
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-16A
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0308.D
 Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
 % Moisture: not dec. Date Analyzed: 04/02/2012
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
108-87-2	Methylcyclohexane		5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

20120327-FD-1

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: Field dup of DEC-030
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-16A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0308.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/02/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
20120327-FD-1DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: Field dup of DEC-030
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-16ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0340.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/03/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 20.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/L	Q
75-71-8	Dichlorodifluoromethane	100	U	
74-87-3	Chloromethane	100	U	
75-01-4	Vinyl chloride	100	U	
74-83-9	Bromomethane	100	U	
75-00-3	Chloroethane	100	U	
75-69-4	Trichlorofluoromethane	100	U	
75-35-4	1,1-Dichloroethene	100	U	
67-64-1	Acetone	100	U	R
74-88-4	Iodomethane	100	U	
75-15-0	Carbon disulfide	100	U	
75-09-2	Methylene chloride	100	U	
156-60-5	trans-1,2-Dichloroethene	100	U	
1634-04-4	Methyl tert-butyl ether	100	U	
75-34-3	1,1-Dichloroethane	100	U	
108-05-4	Vinyl acetate	100	U	
78-93-3	2-Butanone	100	U	R
156-59-2	cis-1,2-Dichloroethene	22	DJ	
594-20-7	2,2-Dichloropropane	100	U	
74-97-5	Bromochloromethane	100	U	
67-66-3	Chloroform	100	U	
71-55-6	1,1,1-Trichloroethane	100	U	
563-58-6	1,1-Dichloropropene	100	U	
56-23-5	Carbon tetrachloride	100	U	
107-06-2	1,2-Dichloroethane	100	U	
71-43-2	Benzene	100	U	
79-01-6	Trichloroethene	35	DJ	
78-87-5	1,2-Dichloropropane	100	U	
74-95-3	Dibromomethane	100	U	
75-27-4	Bromodichloromethane	100	U	
10061-01-5	cis-1,3-Dichloropropene	100	U	
108-10-1	4-Methyl-2-pentanone	100	U	
108-88-3	Toluene	100	U	
10061-02-6	trans-1,3-Dichloropropene	100	U	
79-00-5	1,1,2-Trichloroethane	100	U	
142-28-9	1,3-Dichloropropane	100	U	

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
20120327-FD-1DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: *field dup of DEC-030*
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: SDG No.: SL0590
Matrix: (SOIL/SBD/WATER) WATER Lab Sample ID: L0590-16ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0340.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/03/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 20.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	1900	DJ
591-78-6	2-Hexanone	100	U
124-48-1	Dibromochloromethane	100	U
106-93-4	1,2-Dibromoethane	100	U
108-90-7	Chlorobenzene	100	U
630-20-6	1,1,1,2-Tetrachloroethane	100	U
100-41-4	Ethylbenzene	100	U
1330-20-7	m,p-Xylene	100	U
95-47-6	o-Xylene	100	U
1330-20-7	Xylene (Total)	100	U
100-42-5	Styrene	100	U
75-25-2	Bromoform	100	U
98-82-8	Isopropylbenzene	100	U
79-34-5	1,1,2,2-Tetrachloroethane	100	UJ
108-86-1	Bromobenzene	100	U
96-18-4	1,2,3-Trichloropropane	100	UJ
95-49-8	2-Chlorotoluene	100	U
108-67-8	1,3,5-Trimethylbenzene	100	U
106-43-4	4-Chlorotoluene	100	U
98-06-6	tert-Butylbenzene	100	U
95-63-6	1,2,4-Trimethylbenzene	100	U
135-98-8	sec-Butylbenzene	100	U
99-87-6	4-Isopropyltoluene	100	U
541-73-1	1,3-Dichlorobenzene	100	U
106-46-7	1,4-Dichlorobenzene	100	U
95-50-1	1,2-Dichlorobenzene	100	U
96-12-8	1,2-Dibromo-3-chloropropane	100	UJ
120-82-1	1,2,4-Trichlorobenzene	100	U
87-68-3	Hexachlorobutadiene	100	U
87-61-6	1,2,3-Trichlorobenzene	100	U
91-20-3	Naphthalene	100	UJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	100	U
123-91-1	1,4-Dioxane	2000	U R
110-82-7	Cyclohexane	100	U
79-20-9	Methyl acetate	100	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
20120327-FD-1DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: *Field dup of DEC-030*
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-16ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0340.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/03/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 20.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L
108-87-2	Methylcyclohexane	100	U

W 5/1/12

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

20120327-FD-1DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: *Field dup of DEC-030*
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-16ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0340.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/03/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 20.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-030

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-20A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0312.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/02/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U R
156-59-2	cis-1,2-Dichloroethene	23	
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	0.63	J
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	27	
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

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5/4/12

1B - FORM 1 VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-030

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-20A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0312.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/02/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	1900 1500	U DT
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U DT
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	UJ
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	UJ
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	UJ
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-030

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-20A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0312.D

Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012

% Moisture: not dec. Date Analyzed: 04/02/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-87-2	Methylcyclohexane	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DEC-030

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-20A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0312.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/02/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-030DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-20ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0342.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/03/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 20.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/L	Q
75-71-8	Dichlorodifluoromethane		100	U
74-87-3	Chloromethane		100	U
75-01-4	Vinyl chloride		100	U
74-83-9	Bromomethane		100	U
75-00-3	Chloroethane		100	U
75-69-4	Trichlorofluoromethane		100	U
75-35-4	1,1-Dichloroethene		100	U
67-64-1	Acetone		100	U R
74-88-4	Iodomethane		100	U
75-15-0	Carbon disulfide		100	U
75-09-2	Methylene chloride		100	U
156-60-5	trans-1,2-Dichloroethene		100	U
1634-04-4	Methyl tert-butyl ether		100	U
75-34-3	1,1-Dichloroethane		100	U
108-05-4	Vinyl acetate		100	U
78-93-3	2-Butanone		100	U R
156-59-2	cis-1,2-Dichloroethene		21	DJ
594-20-7	2,2-Dichloropropane		100	U
74-97-5	Bromochloromethane		100	U
67-66-3	Chloroform		100	U
71-55-6	1,1,1-Trichloroethane		100	U
563-58-6	1,1-Dichloropropene		100	U
56-23-5	Carbon tetrachloride		100	U
107-06-2	1,2-Dichloroethane		100	U
71-43-2	Benzene		100	U
79-01-6	Trichloroethene		27	DJ
78-87-5	1,2-Dichloropropane		100	U
74-95-3	Dibromomethane		100	U
75-27-4	Bromodichloromethane		100	U
10061-01-5	cis-1,3-Dichloropropene		100	U
108-10-1	4-Methyl-2-pentanone		100	U
108-88-3	Toluene		100	U
10061-02-6	trans-1,3-Dichloropropene		100	U
79-00-5	1,1,2-Trichloroethane		100	U
142-28-9	1,3-Dichloropropane		100	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-030DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-20ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0342.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/03/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 20.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	1900	D J
591-78-6	2-Hexanone	100	U
124-48-1	Dibromochloromethane	100	U
106-93-4	1,2-Dibromoethane	100	U
108-90-7	Chlorobenzene	100	U
630-20-6	1,1,1,2-Tetrachloroethane	100	U
100-41-4	Ethylbenzene	100	U
1330-20-7	m,p-Xylene	100	U
95-47-6	o-Xylene	100	U
1330-20-7	Xylene (Total)	100	U
100-42-5	Styrene	100	U
75-25-2	Bromoform	100	U
98-82-8	Isopropylbenzene	100	U
79-34-5	1,1,2,2-Tetrachloroethane	100	U J
108-86-1	Bromobenzene	100	U
96-18-4	1,2,3-Trichloropropane	100	U J
95-49-8	2-Chlorotoluene	100	U
108-67-8	1,3,5-Trimethylbenzene	100	U
106-43-4	4-Chlorotoluene	100	U
98-06-6	tert-Butylbenzene	100	U
95-63-6	1,2,4-Trimethylbenzene	100	U
135-98-8	sec-Butylbenzene	100	U
99-87-6	4-Isopropyltoluene	100	U
541-73-1	1,3-Dichlorobenzene	100	U
106-46-7	1,4-Dichlorobenzene	100	U
95-50-1	1,2-Dichlorobenzene	100	U
96-12-8	1,2-Dibromo-3-chloropropane	100	U J
120-82-1	1,2,4-Trichlorobenzene	100	U
87-68-3	Hexachlorobutadiene	100	U
87-61-6	1,2,3-Trichlorobenzene	100	U
91-20-3	Naphthalene	100	U J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	100	U
123-91-1	1,4-Dioxane	2000	U R
110-82-7	Cyclohexane	100	U
79-20-9	Methyl acetate	100	U

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5/2/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-030DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-20ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0342.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/03/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 20.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
108-87-2	Methylcyclohexane	100		U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DEC-030DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-20ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0342.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/03/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 20.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-030D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-04A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0306.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/28/2012
% Moisture: not dec. Date Analyzed: 04/02/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	
67-64-1	Acetone	5.0	U R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	1.8	J
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U R
156-59-2	cis-1,2-Dichloroethene	0.93	J
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	1.1	J
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	57	
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DEC-030D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-04A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0306.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/28/2012
% Moisture: not dec. Date Analyzed: 04/02/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	33	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	J
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	J
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	J
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-030D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-04A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0306.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/28/2012
% Moisture: not dec. Date Analyzed: 04/02/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
108-87-2	Methylcyclohexane		5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DEC-030D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-04A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0306.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/28/2012
% Moisture: not dec. Date Analyzed: 04/02/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-031

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-16A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0892.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/21/2012
% Moisture: not dec. Date Analyzed: 04/23/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	22	
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	6.2	
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	35	
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

6/21/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-031

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-16A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0892.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/21/2012
% Moisture: not dec. Date Analyzed: 04/23/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	9200 2200	U DJ
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	3.8	J
100-41-4	Ethylbenzene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	1.0	J
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

6/3/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-031

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-16A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0892.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/21/2012
% Moisture: not dec. Date Analyzed: 04/23/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
108-87-2	Methylcyclohexane		5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-031

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-16A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0892.D
Level: (TRACE or LOW/MED) LOW Date Received: 04/21/2012
% Moisture: not dec. Date Analyzed: 04/23/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-031DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-16ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I6218.D
Level: (TRACE/LQW/MED) LOW Date Received: 04/21/2012
% Moisture: not dec. Date Analyzed: 04/24/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 50.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	250	U
74-87-3	Chloromethane	250	U
75-01-4	Vinyl chloride	250	U
74-83-9	Bromomethane	250	U
75-00-3	Chloroethane	250	U
75-69-4	Trichlorofluoromethane	250	U
75-35-4	1,1-Dichloroethene	250	U
67-64-1	Acetone	250	U R
74-88-4	Iodomethane	250	U
75-15-0	Carbon disulfide	250	U
75-09-2	Methylene chloride	250	U
156-60-5	trans-1,2-Dichloroethene	250	U J
1634-04-4	Methyl tert-butyl ether	250	U
75-34-3	1,1-Dichloroethane	250	U
108-05-4	Vinyl acetate	250	U
78-93-3	2-Butanone	250	U R
156-59-2	cis-1,2-Dichloroethene	250	U
594-20-7	2,2-Dichloropropane	250	U
74-97-5	Bromochloromethane	250	U
67-66-3	Chloroform	250	U
71-55-6	1,1,1-Trichloroethane	250	U
563-58-6	1,1-Dichloropropene	250	U
56-23-5	Carbon tetrachloride	250	U
107-06-2	1,2-Dichloroethane	250	U
71-43-2	Benzene	250	U
79-01-6	Trichloroethene	250	U
78-87-5	1,2-Dichloropropane	250	U
74-95-3	Dibromomethane	250	U
75-27-4	Bromodichloromethane	250	U J
10061-01-5	cis-1,3-Dichloropropene	250	U
108-10-1	4-Methyl-2-pentanone	250	U
108-88-3	Toluene	250	U
10061-02-6	trans-1,3-Dichloropropene	250	U J
79-00-5	1,1,2-Trichloroethane	250	U
142-28-9	1,3-Dichloropropane	250	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-031DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-16ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I6218.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/21/2012
% Moisture: not dec. Date Analyzed: 04/24/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 50.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	9200	D
591-78-6	2-Hexanone	250	U
124-48-1	Dibromochloromethane	250	U
106-93-4	1,2-Dibromoethane	250	U
108-90-7	Chlorobenzene	250	U
630-20-6	1,1,1,2-Tetrachloroethane	250	U
100-41-4	Ethylbenzene	250	U
179601-23-1	m,p-Xylene	250	U
95-47-6	o-Xylene	250	U
1330-20-7	Xylene (Total)	250	U
100-42-5	Styrene	250	U
75-25-2	Bromoform	250	U
98-82-8	Isopropylbenzene	250	U
79-34-5	1,1,2,2-Tetrachloroethane	250	U
108-86-1	Bromobenzene	250	U
96-18-4	1,2,3-Trichloropropane	250	U
95-49-8	2-Chlorotoluene	250	U
108-67-8	1,3,5-Trimethylbenzene	250	U
106-43-4	4-Chlorotoluene	250	U
98-06-6	tert-Butylbenzene	250	U
95-63-6	1,2,4-Trimethylbenzene	250	U
135-98-8	sec-Butylbenzene	250	U
99-87-6	4-Isopropyltoluene	250	U
541-73-1	1,3-Dichlorobenzene	250	U
106-46-7	1,4-Dichlorobenzene	250	U
95-50-1	1,2-Dichlorobenzene	250	U
96-12-8	1,2-Dibromo-3-chloropropane	250	U
120-82-1	1,2,4-Trichlorobenzene	250	U
87-68-3	Hexachlorobutadiene	250	U
87-61-6	1,2,3-Trichlorobenzene	250	U
91-20-3	Naphthalene	250	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	250	U
123-91-1	1,4-dioxane	5000	U
110-82-7	Cyclohexane	250	U
79-20-9	Methyl acetate	250	U

bec 5/18/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
DEC-031DL

Lab Name: SPECTROM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-16ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I6218.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/21/2012
% Moisture: not dec. Date Analyzed: 04/24/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 50.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
108-87-2	Methylcyclohexane		250	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-031DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-16ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I6218.D
Level: (TRACE or LOW/MED) LOW Date Received: 04/21/2012
% Moisture: not dec. Date Analyzed: 04/24/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 50.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-031D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-15A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0651.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/13/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U	
74-87-3	Chloromethane	5.0	U	
75-01-4	Vinyl chloride	5.0	U	
74-83-9	Bromomethane	5.0	U	
75-00-3	Chloroethane	5.0	U	
75-69-4	Trichlorofluoromethane	5.0	U	
75-35-4	1,1-Dichloroethene	5.0	U	
67-64-1	Acetone	5.0	U	R
74-88-4	Iodomethane	5.0	U	
75-15-0	Carbon disulfide	5.0	U	
75-09-2	Methylene chloride	5.0	U	
156-60-5	trans-1,2-Dichloroethene	5.0	U	
1634-04-4	Methyl tert-butyl ether	5.0	U	
75-34-3	1,1-Dichloroethane	5.0	U	
108-05-4	Vinyl acetate	5.0	U	
78-93-3	2-Butanone	5.0	U	R
156-59-2	cis-1,2-Dichloroethene	5.0	U	
594-20-7	2,2-Dichloropropane	5.0	U	
74-97-5	Bromochloromethane	5.0	U	
67-66-3	Chloroform	5.0	U	
71-55-6	1,1,1-Trichloroethane	5.0	U	
563-58-6	1,1-Dichloropropene	5.0	U	
56-23-5	Carbon tetrachloride	5.0	U	
107-06-2	1,2-Dichloroethane	130		
71-43-2	Benzene	5.0	U	
79-01-6	Trichloroethene	5.0	U	
78-87-5	1,2-Dichloropropane	5.0	U	
74-95-3	Dibromomethane	5.0	U	
75-27-4	Bromodichloromethane	5.0	U	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	
108-10-1	4-Methyl-2-pentanone	5.0	U	
108-88-3	Toluene	5.0	U	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	
79-00-5	1,1,2-Trichloroethane	5.0	U	
142-28-9	1,3-Dichloropropane	5.0	U	

See 5/10/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-031D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-15A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0651.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/13/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	3.6	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

for 5/10/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-031D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-15A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0651.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/13/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) ug/L	Q
108-87-2	Methylcyclohexane	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-031D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-15A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0651.D
Level: (TRACE or LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/13/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-031TC

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-08A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0522.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/02/2012
% Moisture: not dec. Date Analyzed: 04/09/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	1.3	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

6/5/11

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-031TC

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-08A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0522.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/02/2012
% Moisture: not dec. Date Analyzed: 04/09/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	1.9	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U J
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U J
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U J
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U J
108-67-8	1,3,5-Trimethylbenzene	5.0	U J
106-43-4	4-Chlorotoluene	5.0	U J
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U J
106-46-7	1,4-Dichlorobenzene	5.0	U J
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

loc 5/10/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-031TC

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-08A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0522.D

Level: (TRACE/LOW/MED) LOW Date Received: 04/02/2012

% Moisture: not dec. Date Analyzed: 04/09/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
108-87-2	Methylcyclohexane	5.0	U	

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-031TC

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-08A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0522.D
Level: (TRACE or LOW/MED) LOW Date Received: 04/02/2012
% Moisture: not dec. Date Analyzed: 04/09/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-032

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-01A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5760.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/28/2012
% Moisture: not dec. Date Analyzed: 04/02/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U	
74-87-3	Chloromethane	5.0	U	
75-01-4	Vinyl chloride	5.0	U	
74-83-9	Bromomethane	5.0	U	
75-00-3	Chloroethane	5.0	U	
75-69-4	Trichlorofluoromethane	5.0	U	
75-35-4	1,1-Dichloroethene	5.0	U	
67-64-1	Acetone	5.0	U	R
74-88-4	Iodomethane	5.0	U	
75-15-0	Carbon disulfide	5.0	U	
75-09-2	Methylene chloride	5.0	U	
156-60-5	trans-1,2-Dichloroethene	5.0	U	
1634-04-4	Methyl tert-butyl ether	5.0	U	
75-34-3	1,1-Dichloroethane	5.0	U	
108-05-4	Vinyl acetate	5.0	U	
78-93-3	2-Butanone	5.0	U	R
156-59-2	cis-1,2-Dichloroethene	5.0	U	
594-20-7	2,2-Dichloropropane	5.0	U	
74-97-5	Bromochloromethane	5.0	U	
67-66-3	Chloroform	5.0	U	
71-55-6	1,1,1-Trichloroethane	5.0	U	
563-58-6	1,1-Dichloropropene	5.0	U	
56-23-5	Carbon tetrachloride	5.0	U	
107-06-2	1,2-Dichloroethane	5.0	U	
71-43-2	Benzene	5.0	U	
79-01-6	Trichloroethene	5.0	U	
78-87-5	1,2-Dichloropropane	5.0	U	
74-95-3	Dibromomethane	5.0	U	
75-27-4	Bromodichloromethane	5.0	U	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	
108-10-1	4-Methyl-2-pentanone	5.0	U	
108-88-3	Toluene	5.0	U	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	
79-00-5	1,1,2-Trichloroethane	5.0	U	
142-28-9	1,3-Dichloropropane	5.0	U	

ben 5/2/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-032

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-01A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5760.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/28/2012
% Moisture: not dec. Date Analyzed: 04/02/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U J
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U J
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

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5/2/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-032

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-01A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5760.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/28/2012
% Moisture: not dec. Date Analyzed: 04/02/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) UG/L	Q
108-87-2	Methylcyclohexane	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DEC-032

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-01A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5760.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/28/2012
% Moisture: not dec. Date Analyzed: 04/02/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-033

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-07A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0496.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/02/2012
% Moisture: not dec. Date Analyzed: 04/06/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U J
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U R
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	0.85	J
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

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5/10/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-033

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-07A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0496.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/02/2012
% Moisture: not dec. Date Analyzed: 04/06/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	2.1	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-033

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-07A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0496.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/02/2012
% Moisture: not dec. Date Analyzed: 04/06/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) ug/L	Q
108-87-2	Methylcyclohexane	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-033

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-07A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0496.D
Level: (TRACE or LOW/MED) LOW Date Received: 04/02/2012
% Moisture: not dec. Date Analyzed: 04/06/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DEC-039

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-17A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0338.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/03/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
75-71-8	Dichlorodifluoromethane		5.0	U
74-87-3	Chloromethane		5.0	U
75-01-4	Vinyl chloride		5.0	U
74-83-9	Bromomethane		5.0	U
75-00-3	Chloroethane		5.0	U
75-69-4	Trichlorofluoromethane		11	
75-35-4	1,1-Dichloroethene		5.0	U
67-64-1	Acetone		5.0	U R
74-88-4	Iodomethane		5.0	U
75-15-0	Carbon disulfide		5.0	U
75-09-2	Methylene chloride		5.0	U
156-60-5	trans-1,2-Dichloroethene		5.0	U
1634-04-4	Methyl tert-butyl ether		5.0	U
75-34-3	1,1-Dichloroethane		4.2	J
108-05-4	Vinyl acetate		5.0	U
78-93-3	2-Butanone		5.0	U R
156-59-2	cis-1,2-Dichloroethene		23	
594-20-7	2,2-Dichloropropane		5.0	U
74-97-5	Bromochloromethane		5.0	U
67-66-3	Chloroform		5.0	U
71-55-6	1,1,1-Trichloroethane		6.9	
563-58-6	1,1-Dichloropropene		5.0	U
56-23-5	Carbon tetrachloride		5.0	U
107-06-2	1,2-Dichloroethane		5.0	U
71-43-2	Benzene		5.0	U
79-01-6	Trichloroethene		150	
78-87-5	1,2-Dichloropropane		5.0	U
74-95-3	Dibromomethane		5.0	U
75-27-4	Bromodichloromethane		5.0	U
10061-01-5	cis-1,3-Dichloropropene		5.0	U
108-10-1	4-Methyl-2-pentanone		5.0	U
108-88-3	Toluene		5.0	U
10061-02-6	trans-1,3-Dichloropropene		5.0	U
79-00-5	1,1,2-Trichloroethane		5.0	U
142-28-9	1,3-Dichloropropane		5.0	U

6/5/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-039

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-17A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0338.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/03/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	62	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U J
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U J
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U J
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

6/5/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-039

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-17A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0338.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/03/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
108-87-2	Methylcyclohexane		5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DEC-039

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-17A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0338.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/03/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-042

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-02A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0530.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/09/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U J
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	13	
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	4.9	J
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U R
156-59-2	cis-1,2-Dichloroethene	15	
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	1.3	J
71-55-6	1,1,1-Trichloroethane	12	
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	48	
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-042

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-02A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0530.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/09/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
127-18-4	Tetrachloroethene		72	J
591-78-6	2-Hexanone		5.0	U
124-48-1	Dibromochloromethane		5.0	U
106-93-4	1,2-Dibromoethane		5.0	U
108-90-7	Chlorobenzene		5.0	U
630-20-6	1,1,1,2-Tetrachloroethane		5.0	U
100-41-4	Ethylbenzene		5.0	U
179601-23-1	m,p-Xylene		5.0	U
95-47-6	o-Xylene		5.0	U
1330-20-7	Xylene (Total)		5.0	U
100-42-5	Styrene		5.0	U
75-25-2	Bromoform		5.0	U
98-82-8	Isopropylbenzene		5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		5.0	U
108-86-1	Bromobenzene		5.0	U
96-18-4	1,2,3-Trichloropropane		5.0	U
95-49-8	2-Chlorotoluene		5.0	U
108-67-8	1,3,5-Trimethylbenzene		5.0	U
106-43-4	4-Chlorotoluene		5.0	U
98-06-6	tert-Butylbenzene		5.0	U
95-63-6	1,2,4-Trimethylbenzene		5.0	U
135-98-8	sec-Butylbenzene		5.0	U
99-87-6	4-Isopropyltoluene		5.0	U
541-73-1	1,3-Dichlorobenzene		5.0	U
106-46-7	1,4-Dichlorobenzene		5.0	U
95-50-1	1,2-Dichlorobenzene		5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		5.0	U
120-82-1	1,2,4-Trichlorobenzene		5.0	U
87-68-3	Hexachlorobutadiene		5.0	U
87-61-6	1,2,3-Trichlorobenzene		5.0	U
91-20-3	Naphthalene		5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		5.0	U
123-91-1	1,4-Dioxane		100	U R
110-82-7	Cyclohexane		5.0	U
79-20-9	Methyl acetate		5.0	U

for 5/14/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-042

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-02A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0530.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/09/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
108-87-2	Methylcyclohexane		5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-042

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-02A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0530.D
Level: (TRACE or LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/09/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-043

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-16A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0486.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/02/2012
% Moisture: not dec. Date Analyzed: 04/06/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U J
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U R
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	1.3	J
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

loc 5/10/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-043

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-16A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0486.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/02/2012
% Moisture: not dec. Date Analyzed: 04/06/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	14	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

WLC
5/19/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-043

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-16A
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0486.D
 Level: (TRACE/LOW/MED) LOW Date Received: 04/02/2012
 % Moisture: not dec. Date Analyzed: 04/06/2012
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) UG/L	Q
108-87-2	Methylcyclohexane	5.0	0

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-043

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-16A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0486.D
Level: (TRACE or LOW/MED) LOW Date Received: 04/02/2012
% Moisture: not dec. Date Analyzed: 04/06/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-043D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-17A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0487.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/02/2012
% Moisture: not dec. Date Analyzed: 04/06/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U J
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	0.60	J
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U R
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	4.6	J
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	1.3	J
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

6/5/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-043D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-17A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0487.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/02/2012
% Moisture: not dec. Date Analyzed: 04/06/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	8.2	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

626
5/10/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-043D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-17A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0487.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/02/2012
% Moisture: not dec. Date Analyzed: 04/06/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L
108-87-2	Methylcyclohexane	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-043D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-17A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0487.D
Level: (TRACE or LOW/MED) LOW Date Received: 04/02/2012
% Moisture: not dec. Date Analyzed: 04/06/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-044

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-05A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0571.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/10/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 10.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	50	U I
74-87-3	Chloromethane	50	U
75-01-4	Vinyl chloride	50	U
74-83-9	Bromomethane	50	U
75-00-3	Chloroethane	50	U
75-69-4	Trichlorofluoromethane	50	U
75-35-4	1,1-Dichloroethene	50	U
67-64-1	Acetone	50	U R
74-88-4	Iodomethane	50	U
75-15-0	Carbon disulfide	50	U
75-09-2	Methylene chloride	50	U
156-60-5	trans-1,2-Dichloroethene	50	U
1634-04-4	Methyl tert-butyl ether	50	U
75-34-3	1,1-Dichloroethane	50	U
108-05-4	Vinyl acetate	50	U
78-93-3	2-Butanone	50	U R
156-59-2	cis-1,2-Dichloroethene	50	U
594-20-7	2,2-Dichloropropane	50	U
74-97-5	Bromochloromethane	50	U
67-66-3	Chloroform	50	U
71-55-6	1,1,1-Trichloroethane	50	U
563-58-6	1,1-Dichloropropene	50	U
56-23-5	Carbon tetrachloride	50	U
107-06-2	1,2-Dichloroethane	50	U
71-43-2	Benzene	50	U
79-01-6	Trichloroethene	49	J
78-87-5	1,2-Dichloropropane	50	U
74-95-3	Dibromomethane	50	U
75-27-4	Bromodichloromethane	50	U
10061-01-5	cis-1,3-Dichloropropene	50	U
108-10-1	4-Methyl-2-pentanone	50	U
108-88-3	Toluene	50	U
10061-02-6	trans-1,3-Dichloropropene	50	U
79-00-5	1,1,2-Trichloroethane	50	U
142-28-9	1,3-Dichloropropane	50	U

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-044

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-05A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0571.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/10/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 10.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	890	J
591-78-6	2-Hexanone	50	U
124-48-1	Dibromochloromethane	50	U
106-93-4	1,2-Dibromoethane	50	U
108-90-7	Chlorobenzene	50	U
630-20-6	1,1,1,2-Tetrachloroethane	50	U
100-41-4	Ethylbenzene	50	U
179601-23-1	m,p-Xylene	50	U
95-47-6	o-Xylene	50	U
1330-20-7	Xylene (Total)	50	U
100-42-5	Styrene	50	U
75-25-2	Bromoform	50	U
98-82-8	Isopropylbenzene	50	U
79-34-5	1,1,2,2-Tetrachloroethane	50	U
108-86-1	Bromobenzene	50	U
96-18-4	1,2,3-Trichloropropane	50	U
95-49-8	2-Chlorotoluene	50	U
108-67-8	1,3,5-Trimethylbenzene	50	U
106-43-4	4-Chlorotoluene	50	U
98-06-6	tert-Butylbenzene	50	U
95-63-6	1,2,4-Trimethylbenzene	50	U
135-98-8	sec-Butylbenzene	50	U
99-87-6	4-Isopropyltoluene	50	U
541-73-1	1,3-Dichlorobenzene	50	U
106-46-7	1,4-Dichlorobenzene	50	U
95-50-1	1,2-Dichlorobenzene	50	U
96-12-8	1,2-Dibromo-3-chloropropane	50	U
120-82-1	1,2,4-Trichlorobenzene	50	U
87-68-3	Hexachlorobutadiene	50	U
87-61-6	1,2,3-Trichlorobenzene	50	U
91-20-3	Naphthalene	50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	50	U
123-91-1	1,4-Dioxane	1000	U R
110-82-7	Cyclohexane	50	U
79-20-9	Methyl acetate	50	U

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5/17/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-044

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-05A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0571.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/10/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 10.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
108-87-2	Methylcyclohexane	50		U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-044

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-05A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0571.D
Level: (TRACE or LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/10/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 10.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

20120401-FD-1

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: Field Dup of DEC-044D
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-09A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0629.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/12/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U	
74-87-3	Chloromethane	5.0	U	
75-01-4	Vinyl chloride	5.0	U	
74-83-9	Bromomethane	5.0	U	
75-00-3	Chloroethane	5.0	U	
75-69-4	Trichlorofluoromethane	5.0	U	
75-35-4	1,1-Dichloroethene	5.0	U	
67-64-1	Acetone	5.0	U	R
74-88-4	Iodomethane	5.0	U	
75-15-0	Carbon disulfide	5.0	U	
75-09-2	Methylene chloride	5.0	U	
156-60-5	trans-1,2-Dichloroethene	5.0	U	
1634-04-4	Methyl tert-butyl ether	5.0	U	
75-34-3	1,1-Dichloroethane	5.0	U	
108-05-4	Vinyl acetate	5.0	U	
78-93-3	2-Butanone	5.0	U	R
156-59-2	cis-1,2-Dichloroethene	5.0	U	
594-20-7	2,2-Dichloropropane	5.0	U	
74-97-5	Bromochloromethane	5.0	U	
67-66-3	Chloroform	5.0	U	
71-55-6	1,1,1-Trichloroethane	5.0	U	
563-58-6	1,1-Dichloropropene	5.0	U	
56-23-5	Carbon tetrachloride	5.0	U	
107-06-2	1,2-Dichloroethane	300	U	D
71-43-2	Benzene	5.0	U	
79-01-6	Trichloroethene	5.0	U	
78-87-5	1,2-Dichloropropane	5.0	U	
74-95-3	Dibromomethane	5.0	U	
75-27-4	Bromodichloromethane	5.0	U	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	
108-10-1	4-Methyl-2-pentanone	5.0	U	
108-88-3	Toluene	5.0	U	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	
79-00-5	1,1,2-Trichloroethane	5.0	U	
142-28-9	1,3-Dichloropropane	5.0	U	

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

20120401-FD-1

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: Field by DEC-044
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-09A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0629.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/12/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/L	Q
127-18-4	Tetrachloroethene	5.0	U	J
591-78-6	2-Hexanone	5.0	U	
124-48-1	Dibromochloromethane	5.0	U	
106-93-4	1,2-Dibromoethane	5.0	U	
108-90-7	Chlorobenzene	5.0	U	
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U	
100-41-4	Ethylbenzene	5.0	U	
179601-23-1	m,p-Xylene	5.0	U	
95-47-6	o-Xylene	5.0	U	
1330-20-7	Xylene (Total)	5.0	U	
100-42-5	Styrene	5.0	U	
75-25-2	Bromoform	5.0	U	
98-82-8	Isopropylbenzene	5.0	U	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	
108-86-1	Bromobenzene	5.0	U	
96-18-4	1,2,3-Trichloropropane	5.0	U	
95-49-8	2-Chlorotoluene	5.0	U	
108-67-8	1,3,5-Trimethylbenzene	5.0	U	
106-43-4	4-Chlorotoluene	5.0	U	
98-06-6	tert-Butylbenzene	5.0	U	
95-63-6	1,2,4-Trimethylbenzene	5.0	U	
135-98-8	sec-Butylbenzene	5.0	U	
99-87-6	4-Isopropyltoluene	5.0	U	
541-73-1	1,3-Dichlorobenzene	5.0	U	
106-46-7	1,4-Dichlorobenzene	5.0	U	
95-50-1	1,2-Dichlorobenzene	5.0	U	
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U	
120-82-1	1,2,4-Trichlorobenzene	5.0	U	
87-68-3	Hexachlorobutadiene	5.0	U	
87-61-6	1,2,3-Trichlorobenzene	5.0	U	
91-20-3	Naphthalene	5.0	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	
123-91-1	1,4-Dioxane	100	U	R
110-82-7	Cyclohexane	5.0	U	
79-20-9	Methyl acetate	5.0	U	

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

20120401-FD-1

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: Field Dup of DEC-0448
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-09A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0629.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/12/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
108-87-2	Methylcyclohexane	5.0		U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

20120401-FD-1

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: Field Dup of DEC-044A
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-09A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0629.D
Level: (TRACE or LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/12/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

20120401-FD-1DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: Field Dpt of DEC-0440
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-09ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0649.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/13/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 4.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	20	U
74-87-3	Chloromethane	20	U
75-01-4	Vinyl chloride	20	U
74-83-9	Bromomethane	20	U
75-00-3	Chloroethane	20	U
75-69-4	Trichlorofluoromethane	20	U
75-35-4	1,1-Dichloroethene	20	U
67-64-1	Acetone	20	UR
74-88-4	Iodomethane	20	U
75-15-0	Carbon disulfide	20	U
75-09-2	Methylene chloride	20	U
156-60-5	trans-1,2-Dichloroethene	20	U
1634-04-4	Methyl tert-butyl ether	20	U
75-34-3	1,1-Dichloroethane	20	U
108-05-4	Vinyl acetate	20	U
78-93-3	2-Butanone	20	UR
156-59-2	cis-1,2-Dichloroethene	20	U
594-20-7	2,2-Dichloropropane	20	U
74-97-5	Bromochloromethane	20	U
67-66-3	Chloroform	20	U
71-55-6	1,1,1-Trichloroethane	20	U
563-58-6	1,1-Dichloropropene	20	U
56-23-5	Carbon tetrachloride	20	U
107-06-2	1,2-Dichloroethane	300	D
71-43-2	Benzene	20	U
79-01-6	Trichloroethene	20	U
78-87-5	1,2-Dichloropropane	20	U
74-95-3	Dibromomethane	20	U
75-27-4	Bromodichloromethane	20	U
10061-01-5	cis-1,3-Dichloropropene	20	U
108-10-1	4-Methyl-2-pentanone	20	U
108-88-3	Toluene	20	U
10061-02-6	trans-1,3-Dichloropropene	20	U
79-00-5	1,1,2-Trichloroethane	20	U
142-28-9	1,3-Dichloropropane	20	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

20120401-FD-1DL

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Field Ap of DEC-0445

Lab Code: MITKEM

Case No.: L0639

Mod. Ref No.:

SDG No.: SL0639

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: L0639-09ADL

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V8B0649.D

Level: (TRACE/LOW/MED) LOW

Date Received: 04/03/2012

% Moisture: not dec.

Date Analyzed: 04/13/2012

GC Column: DB-624

ID: 0.25

(mm)

Dilution Factor: 4.0

Soil Extract Volume:

(uL)

Soil Aliquot Volume:

(uL)

Purge Volume: 5.0

(mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
127-18-4	Tetrachloroethene	20	U	J
591-78-6	2-Hexanone	20	U	
124-48-1	Dibromochloromethane	20	U	
106-93-4	1,2-Dibromoethane	20	U	
108-90-7	Chlorobenzene	20	U	
630-20-6	1,1,1,2-Tetrachloroethane	20	U	
100-41-4	Ethylbenzene	20	U	
179601-23-1	m,p-Xylene	20	U	
95-47-6	o-Xylene	20	U	
1330-20-7	Xylene (Total)	20	U	
100-42-5	Styrene	20	U	
75-25-2	Bromoform	20	U	
98-82-8	Isopropylbenzene	20	U	
79-34-5	1,1,2,2-Tetrachloroethane	20	U	
108-86-1	Bromobenzene	20	U	
96-18-4	1,2,3-Trichloropropane	20	U	
95-49-8	2-Chlorotoluene	20	U	
108-67-8	1,3,5-Trimethylbenzene	20	U	
106-43-4	4-Chlorotoluene	20	U	
98-06-6	tert-Butylbenzene	20	U	
95-63-6	1,2,4-Trimethylbenzene	20	U	
135-98-8	sec-Butylbenzene	20	U	
99-87-6	4-Isopropyltoluene	20	U	
541-73-1	1,3-Dichlorobenzene	20	U	
106-46-7	1,4-Dichlorobenzene	20	U	
95-50-1	1,2-Dichlorobenzene	20	U	
96-12-8	1,2-Dibromo-3-chloropropane	20	U	
120-82-1	1,2,4-Trichlorobenzene	20	U	
87-68-3	Hexachlorobutadiene	20	U	
87-61-6	1,2,3-Trichlorobenzene	20	U	
91-20-3	Naphthalene	20	U	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	20	U	
123-91-1	1,4-Dioxane	400	U	R
110-82-7	Cyclohexane	20	U	
79-20-9	Methyl acetate	20	U	

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

20120401-FD-1DL

Lab Name: SPEGTRUM ANALYTICAL, INC. Contract: Field Trip of DEC-0440
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-09ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0649.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/13/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 4.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
108-87-2	Methylcyclohexane		20	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

20120401-FD-1DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: Field Ap of DEC-044 D
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-09ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0649.D
Level: (TRACE or LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/13/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 4.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-044D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-07A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0628.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/12/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	<u>Q</u>
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U <i>J</i>
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U <i>R</i>
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U <i>R</i>
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	<i>2PO 310</i> 5.0	U <i>FD</i>
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	1.1	J
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-044D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-07A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0628.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/12/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

hex 5/10/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-044D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-07A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0628.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/12/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
108-87-2	Methylcyclohexane	5.0		U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-044D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-07A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0628.D
Level: (TRACE or LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/12/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-044DDL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-07ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0648.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/13/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 4.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/L	Q
75-71-8	Dichlorodifluoromethane	20	U	
74-87-3	Chloromethane	20	U	
75-01-4	Vinyl chloride	20	U	
74-83-9	Bromomethane	20	U	
75-00-3	Chloroethane	20	U	
75-69-4	Trichlorofluoromethane	20	U	
75-35-4	1,1-Dichloroethene	20	U	
67-64-1	Acetone	20	U	R
74-88-4	Iodomethane	20	U	
75-15-0	Carbon disulfide	20	U	
75-09-2	Methylene chloride	20	U	
156-60-5	trans-1,2-Dichloroethene	20	U	
1634-04-4	Methyl tert-butyl ether	20	U	
75-34-3	1,1-Dichloroethane	20	U	
108-05-4	Vinyl acetate	20	U	
78-93-3	2-Butanone	20	U	R
156-59-2	cis-1,2-Dichloroethene	20	U	
594-20-7	2,2-Dichloropropane	20	U	
74-97-5	Bromochloromethane	20	U	
67-66-3	Chloroform	20	U	
71-55-6	1,1,1-Trichloroethane	20	U	
563-58-6	1,1-Dichloropropene	20	U	
56-23-5	Carbon tetrachloride	20	U	
107-06-2	1,2-Dichloroethane	280	D	
71-43-2	Benzene	20	U	
79-01-6	Trichloroethene	20	U	
78-87-5	1,2-Dichloropropane	20	U	
74-95-3	Dibromomethane	20	U	
75-27-4	Bromodichloromethane	20	U	
10061-01-5	cis-1,3-Dichloropropene	20	U	
108-10-1	4-Methyl-2-pentanone	20	U	
108-88-3	Toluene	20	U	
10061-02-6	trans-1,3-Dichloropropene	20	U	
79-00-5	1,1,2-Trichloroethane	20	U	
142-28-9	1,3-Dichloropropane	20	U	

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-044DDL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-07ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0648.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/13/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 4.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	20	U J
591-78-6	2-Hexanone	20	U
124-48-1	Dibromochloromethane	20	U
106-93-4	1,2-Dibromoethane	20	U
108-90-7	Chlorobenzene	20	U
630-20-6	1,1,1,2-Tetrachloroethane	20	U
100-41-4	Ethylbenzene	20	U
179601-23-1	m,p-Xylene	20	U
95-47-6	o-Xylene	20	U
1330-20-7	Xylene (Total)	20	U
100-42-5	Styrene	20	U
75-25-2	Bromoform	20	U
98-82-8	Isopropylbenzene	20	U
79-34-5	1,1,2,2-Tetrachloroethane	20	U
108-86-1	Bromobenzene	20	U
96-18-4	1,2,3-Trichloropropane	20	U
95-49-8	2-Chlorotoluene	20	U
108-67-8	1,3,5-Trimethylbenzene	20	U
106-43-4	4-Chlorotoluene	20	U
98-06-6	tert-Butylbenzene	20	U
95-63-6	1,2,4-Trimethylbenzene	20	U
135-98-8	sec-Butylbenzene	20	U
99-87-6	4-Isopropyltoluene	20	U
541-73-1	1,3-Dichlorobenzene	20	U
106-46-7	1,4-Dichlorobenzene	20	U
95-50-1	1,2-Dichlorobenzene	20	U
96-12-8	1,2-Dibromo-3-chloropropane	20	U
120-82-1	1,2,4-Trichlorobenzene	20	U
87-68-3	Hexachlorobutadiene	20	U
87-61-6	1,2,3-Trichlorobenzene	20	U
91-20-3	Naphthalene	20	U J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	20	U
123-91-1	1,4-Dioxane	400	U R
110-82-7	Cyclohexane	20	U
79-20-9	Methyl acetate	20	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-044DDL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-07ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0648.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/13/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 4.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
108-87-2	Methylcyclohexane		20	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-044DDL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-07ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0648.D
Level: (TRACE or LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/13/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 4.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-045

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-02A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5809.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/04/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
75-71-8	Dichlorodifluoromethane		5.0	U
74-87-3	Chloromethane		5.0	U
75-01-4	Vinyl chloride		5.0	U
74-83-9	Bromomethane		5.0	U
75-00-3	Chloroethane		5.0	U
75-69-4	Trichlorofluoromethane		5.0	U
75-35-4	1,1-Dichloroethene		5.0	U
67-64-1	Acetone		5.0	U R
74-88-4	Iodomethane		5.0	U
75-15-0	Carbon disulfide		5.0	U
75-09-2	Methylene chloride		5.0	U
156-60-5	trans-1,2-Dichloroethene		5.0	U
1634-04-4	Methyl tert-butyl ether		5.0	U
75-34-3	1,1-Dichloroethane		5.0	U
108-05-4	Vinyl acetate		5.0	U
78-93-3	2-Butanone		5.0	U R
156-59-2	cis-1,2-Dichloroethene		1.5	J
594-20-7	2,2-Dichloropropane		5.0	U
74-97-5	Bromochloromethane		5.0	U
67-66-3	Chloroform		5.0	U
71-55-6	1,1,1-Trichloroethane		5.0	U
563-58-6	1,1-Dichloropropene		5.0	U
56-23-5	Carbon tetrachloride		5.0	U
107-06-2	1,2-Dichloroethane		5.0	U
71-43-2	Benzene		5.0	U
79-01-6	Trichloroethene		1.3	J
78-87-5	1,2-Dichloropropane		5.0	U
74-95-3	Dibromomethane		5.0	U
75-27-4	Bromodichloromethane		5.0	U
10061-01-5	cis-1,3-Dichloropropene		5.0	U
108-10-1	4-Methyl-2-pentanone		5.0	U
108-88-3	Toluene		5.0	U
10061-02-6	trans-1,3-Dichloropropene		5.0	U
79-00-5	1,1,2-Trichloroethane		5.0	U
142-28-9	1,3-Dichloropropane		5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-045

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-02A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5809.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/04/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	38	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

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5/7/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-045

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-02A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5809.D

Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012

% Moisture: not dec. Date Analyzed: 04/04/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
108-87-2	Methylcyclohexane		5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DEC-045

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-02A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5809.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/04/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-045D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-03A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5810.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/04/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	2.1	J
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U R
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	53	
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-045D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-03A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5810.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/04/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

hex
5/4/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-045D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-03A
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5810.D
 Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
 % Moisture: not dec. Date Analyzed: 04/04/2012
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
108-87-2	Methylcyclohexane	5.0		U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DEC-045D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-03A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5810.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/04/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-046

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-08A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5764.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/28/2012
% Moisture: not dec. Date Analyzed: 04/02/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U R
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	1.6	J
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	2.4	J
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

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5/2/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-046

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-08A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5764.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/28/2012
% Moisture: not dec. Date Analyzed: 04/02/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	7.4	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U J
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U J
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

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5/1/11

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-046

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-08A
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5764.D
 Level: (TRACE/LOW/MED) LOW Date Received: 03/28/2012
 % Moisture: not dec. Date Analyzed: 04/02/2012
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
108-87-2	Methylcyclohexane		5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DEC-046

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-08A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5764.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/28/2012
% Moisture: not dec. Date Analyzed: 04/02/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-046D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-07A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5763.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/28/2012
% Moisture: not dec. Date Analyzed: 04/02/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	1.1	J
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U R
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	2.5	J
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	3.3	J
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

ben 5/14/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-046D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-07A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5763.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/28/2012
% Moisture: not dec. Date Analyzed: 04/02/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
127-18-4	Tetrachloroethene		3.5	J
591-78-6	2-Hexanone		5.0	U
124-48-1	Dibromochloromethane		5.0	U J
106-93-4	1,2-Dibromoethane		5.0	U
108-90-7	Chlorobenzene		5.0	U
630-20-6	1,1,1,2-Tetrachloroethane		5.0	U
100-41-4	Ethylbenzene		5.0	U
1330-20-7	m,p-Xylene		5.0	U
95-47-6	o-Xylene		5.0	U
1330-20-7	Xylene (Total)		5.0	U
100-42-5	Styrene		5.0	U
75-25-2	Bromoform		5.0	U J
98-82-8	Isopropylbenzene		5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		5.0	U
108-86-1	Bromobenzene		5.0	U
96-18-4	1,2,3-Trichloropropane		5.0	U
95-49-8	2-Chlorotoluene		5.0	U
108-67-8	1,3,5-Trimethylbenzene		5.0	U
106-43-4	4-Chlorotoluene		5.0	U
98-06-6	tert-Butylbenzene		5.0	U
95-63-6	1,2,4-Trimethylbenzene		5.0	U
135-98-8	sec-Butylbenzene		5.0	U
99-87-6	4-Isopropyltoluene		5.0	U
541-73-1	1,3-Dichlorobenzene		5.0	U
106-46-7	1,4-Dichlorobenzene		5.0	U
95-50-1	1,2-Dichlorobenzene		5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		5.0	U
120-82-1	1,2,4-Trichlorobenzene		5.0	U
87-68-3	Hexachlorobutadiene		5.0	U
87-61-6	1,2,3-Trichlorobenzene		5.0	U
91-20-3	Naphthalene		5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		5.0	U
123-91-1	1,4-Dioxane		100	U R
110-82-7	Cyclohexane		5.0	U
79-20-9	Methyl acetate		5.0	U

6/5/11

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-046D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-07A
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5763.D
 Level: (TRACE/LOW/MED) LOW Date Received: 03/28/2012
 % Moisture: not dec. Date Analyzed: 04/02/2012
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
108-87-2	Methylcyclohexane		5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DEC-046D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-07A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5763.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/28/2012
% Moisture: not dec. Date Analyzed: 04/02/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-047

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-04A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0484.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/30/2012
% Moisture: not dec. Date Analyzed: 04/06/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U J
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	36	
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U R
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	0.67	J
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

6/5/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
DEC-047

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-04A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0484.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/30/2012
% Moisture: not dec. Date Analyzed: 04/06/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	2.5	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

bol
5/19/14

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-047

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-04A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0484.D

Level: (TRACE/LOW/MED) LOW Date Received: 03/30/2012

% Moisture: not dec. Date Analyzed: 04/06/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L
108-87-2	Methylcyclohexane	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-047

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-04A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0484.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/30/2012
% Moisture: not dec. Date Analyzed: 04/06/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

20120329-FD-1

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: Field Dup of DEC-48
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-05A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0485.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/30/2012
% Moisture: not dec. Date Analyzed: 04/06/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	1.3	J
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

see 5/10/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

20120329-FD-1

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: Field Dup of DEC-48
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-05A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0485.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/30/2012
% Moisture: not dec. Date Analyzed: 04/06/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	4.3	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	J
135-98-8	sec-Butylbenzene	0.69	J
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	1.8	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

5/10/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

20120329-FD-1

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: Field Dup of DEC-48
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-05A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0485.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/30/2012
% Moisture: not dec. Date Analyzed: 04/06/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
108-87-2	Methylcyclohexane	5.0		U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

20120329-FD-1

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: Field Dup of DEC-48
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-05A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0485.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/30/2012
% Moisture: not dec. Date Analyzed: 04/06/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-048

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-03A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0483.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/30/2012
% Moisture: not dec. Date Analyzed: 04/06/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U J
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U R
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	1.3	U
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

6/5/11/11

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-048

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-03A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0483.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/30/2012
% Moisture: not dec. Date Analyzed: 04/06/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	4.4	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	0.95	J
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

606/3/11/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-048

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-03A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0483.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/30/2012
% Moisture: not dec. Date Analyzed: 04/06/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
108-87-2	Methylcyclohexane		5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-048

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-03A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0483.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/30/2012
% Moisture: not dec. Date Analyzed: 04/06/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01 556-67-2	Cyclotetrasiloxane, octameth	9.795	5.4	NJ

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-064

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-08A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0446.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/05/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U J
74-87-3	Chloromethane	5.0	U J
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U J
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U R
156-59-2	cis-1,2-Dichloroethene	2.2	J
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	2.2	J
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	4.5	J
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

6/5/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-064

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-08A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0446.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/05/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L		Q
127-18-4	Tetrachloroethene	140	210	65
591-78-6	2-Hexanone		5.0	U
124-48-1	Dibromochloromethane		5.0	U
106-93-4	1,2-Dibromoethane		5.0	U
108-90-7	Chlorobenzene		5.0	U
630-20-6	1,1,1,2-Tetrachloroethane		5.0	U
100-41-4	Ethylbenzene		5.0	U
1330-20-7	m,p-Xylene		5.0	U
95-47-6	o-Xylene		5.0	U
1330-20-7	Xylene (Total)		5.0	U
100-42-5	Styrene		5.0	U
75-25-2	Bromoform		5.0	U
98-82-8	Isopropylbenzene		5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		5.0	U
108-86-1	Bromobenzene		5.0	U
96-18-4	1,2,3-Trichloropropane		5.0	U
95-49-8	2-Chlorotoluene		5.0	U
108-67-8	1,3,5-Trimethylbenzene		5.0	U
106-43-4	4-Chlorotoluene		5.0	U
98-06-6	tert-Butylbenzene		5.0	U
95-63-6	1,2,4-Trimethylbenzene		5.0	U
135-98-8	sec-Butylbenzene		5.0	U
99-87-6	4-Isopropyltoluene		5.0	U
541-73-1	1,3-Dichlorobenzene		5.0	U
106-46-7	1,4-Dichlorobenzene		5.0	U
95-50-1	1,2-Dichlorobenzene		5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		5.0	U
120-82-1	1,2,4-Trichlorobenzene		5.0	U
87-68-3	Hexachlorobutadiene		5.0	U
87-61-6	1,2,3-Trichlorobenzene		5.0	U
91-20-3	Naphthalene		5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		5.0	U
123-91-1	1,4-Dioxane		100	U R
110-82-7	Cyclohexane		5.0	U
79-20-9	Methyl acetate		5.0	U

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5/4/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-064

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-08A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0446.D

Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012

% Moisture: not dec. Date Analyzed: 04/05/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
108-87-2	Methylcyclohexane		5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DEC-064

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-08A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0446.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/05/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-064DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-08ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0492.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/06/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 2.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U J
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
67-64-1	Acetone	10	U R
74-88-4	Iodomethane	10	U
75-15-0	Carbon disulfide	10	U
75-09-2	Methylene chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-butyl ether	10	U
75-34-3	1,1-Dichloroethane	10	U
108-05-4	Vinyl acetate	10	U
78-93-3	2-Butanone	10	U R
156-59-2	cis-1,2-Dichloroethene	1.8	DJ
594-20-7	2,2-Dichloropropane	10	U
74-97-5	Bromochloromethane	10	U
67-66-3	Chloroform	2.0	DJ
71-55-6	1,1,1-Trichloroethane	10	U
563-58-6	1,1-Dichloropropene	10	U
56-23-5	Carbon tetrachloride	10	U
107-06-2	1,2-Dichloroethane	10	U
71-43-2	Benzene	10	U
79-01-6	Trichloroethene	4.7	DJ
78-87-5	1,2-Dichloropropane	10	U
74-95-3	Dibromomethane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
142-28-9	1,3-Dichloropropane	10	U

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5/4/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-064DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-08ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0492.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/06/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 2.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	140	D I
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
630-20-6	1,1,1,2-Tetrachloroethane	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	m,p-Xylene	10	U
95-47-6	o-Xylene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-86-1	Bromobenzene	10	U
96-18-4	1,2,3-Trichloropropane	10	U
95-49-8	2-Chlorotoluene	10	U
108-67-8	1,3,5-Trimethylbenzene	10	U
106-43-4	4-Chlorotoluene	10	U
98-06-6	tert-Butylbenzene	10	U
95-63-6	1,2,4-Trimethylbenzene	10	U
135-98-8	sec-Butylbenzene	10	U
99-87-6	4-Isopropyltoluene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
87-61-6	1,2,3-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U I
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
123-91-1	1,4-Dioxane	200	U R
110-82-7	Cyclohexane	10	U
79-20-9	Methyl acetate	10	U

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DEC-064DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-08ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0492.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/06/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 2.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) UG/L	Q
108-87-2	Methylcyclohexane	10	U

6cc
5/4/12

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DEC-064DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-08ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0492.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/06/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 2.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-064D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-10A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0479.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/06/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U J
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	6.3	
67-64-1	Acetone	5.0	U R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	1.6	J
75-34-3	1,1-Dichloroethane	0.81	J
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U R
156-59-2	cis-1,2-Dichloroethene	1.1	J
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	1.6	J
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	80	
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-064D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-10A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0479.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/06/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	14	I
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U I
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

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5/11/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-064D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-10A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0479.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/06/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
108-87-2	Methylcyclohexane		5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DEC-064D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-10A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0479.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/06/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-065

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-03A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0626.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/12/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 2.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	10	U
74-83-9	Bromomethane	10	U J
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
67-64-1	Acetone	10	U R
74-88-4	Iodomethane	10	U
75-15-0	Carbon disulfide	10	U
75-09-2	Methylene chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-butyl ether	10	U
75-34-3	1,1-Dichloroethane	10	U
108-05-4	Vinyl acetate	10	U
78-93-3	2-Butanone	10	U R
156-59-2	cis-1,2-Dichloroethene	10	U
594-20-7	2,2-Dichloropropane	10	U
74-97-5	Bromochloromethane	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
563-58-6	1,1-Dichloropropene	10	U
56-23-5	Carbon tetrachloride	10	U
107-06-2	1,2-Dichloroethane	10	U
71-43-2	Benzene	10	U
79-01-6	Trichloroethene	2.5	J
78-87-5	1,2-Dichloropropane	10	U
74-95-3	Dibromomethane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
142-28-9	1,3-Dichloropropane	10	U

box 5/12/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
DEC-065

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-03A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0626.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/12/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 2.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	200	J
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
630-20-6	1,1,1,2-Tetrachloroethane	10	U
100-41-4	Ethylbenzene	10	U
179601-23-1	m,p-Xylene	10	U
95-47-6	o-Xylene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-86-1	Bromobenzene	10	U
96-18-4	1,2,3-Trichloropropane	10	U
95-49-8	2-Chlorotoluene	10	U
108-67-8	1,3,5-Trimethylbenzene	10	U
106-43-4	4-Chlorotoluene	10	U
98-06-6	tert-Butylbenzene	10	U
95-63-6	1,2,4-Trimethylbenzene	10	U
135-98-8	sec-Butylbenzene	10	U
99-87-6	4-Isopropyltoluene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
87-61-6	1,2,3-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
123-91-1	1,4-Dioxane	200	U R
110-82-7	Cyclohexane	10	U
79-20-9	Methyl acetate	10	U

box 5/10/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-065

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-03A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0626.D

Level: (TRACE/LOW/MED) LOW Date Received: 04/03/2012

% Moisture: not dec. Date Analyzed: 04/12/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 2.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) UG/L	Q
108-87-2	Methylcyclohexane	10	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-065

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-03A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0626.D
Level: (TRACE or LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/12/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 2.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-065D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-04A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0532.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/09/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 5.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane	25	U	J
74-87-3	Chloromethane	25	U	
75-01-4	Vinyl chloride	25	U	
74-83-9	Bromomethane	25	U	
75-00-3	Chloroethane	25	U	
75-69-4	Trichlorofluoromethane	25	U	
75-35-4	1,1-Dichloroethene	75		
67-64-1	Acetone	25	U	R
74-88-4	Iodomethane	25	U	
75-15-0	Carbon disulfide	25	U	
75-09-2	Methylene chloride	25	U	
156-60-5	trans-1,2-Dichloroethene	25	U	
1634-04-4	Methyl tert-butyl ether	25	U	
75-34-3	1,1-Dichloroethane	5.9	J	
108-05-4	Vinyl acetate	25	U	
78-93-3	2-Butanone	25	U	R
156-59-2	cis-1,2-Dichloroethene	8.8	J	
594-20-7	2,2-Dichloropropane	25	U	
74-97-5	Bromochloromethane	25	U	
67-66-3	Chloroform	25	U	
71-55-6	1,1,1-Trichloroethane	14	J	
563-58-6	1,1-Dichloropropene	25	U	
56-23-5	Carbon tetrachloride	25	U	
107-06-2	1,2-Dichloroethane	25	U	
71-43-2	Benzene	25	U	
79-01-6	Trichloroethene	470		
78-87-5	1,2-Dichloropropane	25	U	
74-95-3	Dibromomethane	25	U	
75-27-4	Bromodichloromethane	25	U	
10061-01-5	cis-1,3-Dichloropropene	25	U	
108-10-1	4-Methyl-2-pentanone	25	U	
108-88-3	Toluene	25	U	
10061-02-6	trans-1,3-Dichloropropene	25	U	
79-00-5	1,1,2-Trichloroethane	25	U	
142-28-9	1,3-Dichloropropane	25	U	

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5/18/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-065D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-04A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0532.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/09/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 5.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	65	J
591-78-6	2-Hexanone	25	U
124-48-1	Dibromochloromethane	25	U
106-93-4	1,2-Dibromoethane	25	U
108-90-7	Chlorobenzene	25	U
630-20-6	1,1,1,2-Tetrachloroethane	25	U
100-41-4	Ethylbenzene	25	U
179601-23-1	m,p-Xylene	25	U
95-47-6	o-Xylene	25	U
1330-20-7	Xylene (Total)	25	U
100-42-5	Styrene	25	U
75-25-2	Bromoform	25	U
98-82-8	Isopropylbenzene	25	U
79-34-5	1,1,2,2-Tetrachloroethane	25	U
108-86-1	Bromobenzene	25	U
96-18-4	1,2,3-Trichloropropane	25	U
95-49-8	2-Chlorotoluene	25	U
108-67-8	1,3,5-Trimethylbenzene	25	U
106-43-4	4-Chlorotoluene	25	U
98-06-6	tert-Butylbenzene	25	U
95-63-6	1,2,4-Trimethylbenzene	25	U
135-98-8	sec-Butylbenzene	25	U
99-87-6	4-Isopropyltoluene	25	U
541-73-1	1,3-Dichlorobenzene	25	U
106-46-7	1,4-Dichlorobenzene	25	U
95-50-1	1,2-Dichlorobenzene	25	U
96-12-8	1,2-Dibromo-3-chloropropane	25	U
120-82-1	1,2,4-Trichlorobenzene	25	U
87-68-3	Hexachlorobutadiene	25	U
87-61-6	1,2,3-Trichlorobenzene	25	U
91-20-3	Naphthalene	25	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	25	U
123-91-1	1,4-Dioxane	500	U R
110-82-7	Cyclohexane	25	U
79-20-9	Methyl acetate	25	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DEC-065D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-04A
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0532.D
 Level: (TRACE/LOW/MED) LOW Date Received: 04/03/2012
 % Moisture: not dec. Date Analyzed: 04/09/2012
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 5.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	<u>Q</u>
108-87-2	Methylcyclohexane	25	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DEC-065D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-04A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0532.D
Level: (TRACE or LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/09/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 5.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-066

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-02A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5761.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/28/2012
% Moisture: not dec. Date Analyzed: 04/02/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U R
156-59-2	cis-1,2-Dichloroethene	3.9	J
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	2.3	J
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-066

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-02A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5761.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/28/2012
% Moisture: not dec. Date Analyzed: 04/02/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	42	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U J
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U J
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

for 5/4/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-066

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-02A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5761.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/28/2012
% Moisture: not dec. Date Analyzed: 04/02/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) UG/L	Q
108-87-2	Methylcyclohexane	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DEC-066

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-02A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5761.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/28/2012
% Moisture: not dec. Date Analyzed: 04/02/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-066D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-03A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5762.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/28/2012
% Moisture: not dec. Date Analyzed: 04/02/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U R
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	22	
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

6/25/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-066D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-03A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5762.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/28/2012
% Moisture: not dec. Date Analyzed: 04/02/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U J
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U J
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

ben 3/2/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-066D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-03A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5762.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/28/2012
% Moisture: not dec. Date Analyzed: 04/02/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
108-87-2	Methylcyclohexane		5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DEC-066D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-03A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5762.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/28/2012
% Moisture: not dec. Date Analyzed: 04/02/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-088

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-12A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5766.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/28/2012
% Moisture: not dec. Date Analyzed: 04/02/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U R
156-59-2	cis-1,2-Dichloroethene	1.0	J
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	1.7	J
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

5/12/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-088

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-12A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5766.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/28/2012
% Moisture: not dec. Date Analyzed: 04/02/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	150	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U J
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U J
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

6/2/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-088

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-12A
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5766.D
 Level: (TRACE/LOW/MED) LOW Date Received: 03/28/2012
 % Moisture: not dec. Date Analyzed: 04/02/2012
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) <u>UG/L</u>	<u>Q</u>
108-87-2	Methylcyclohexane	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DEC-088

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-12A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5766.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/28/2012
% Moisture: not dec. Date Analyzed: 04/02/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-088D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-13A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5767.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/28/2012
% Moisture: not dec. Date Analyzed: 04/02/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 2.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
67-64-1	Acetone	10	U R
74-88-4	Iodomethane	10	U
75-15-0	Carbon disulfide	10	U
75-09-2	Methylene chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-butyl ether	10	U
75-34-3	1,1-Dichloroethane	10	U
108-05-4	Vinyl acetate	10	U
78-93-3	2-Butanone	10	U R
156-59-2	cis-1,2-Dichloroethene	10	U
594-20-7	2,2-Dichloropropane	10	U
74-97-5	Bromochloromethane	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
563-58-6	1,1-Dichloropropene	10	U
56-23-5	Carbon tetrachloride	10	U
107-06-2	1,2-Dichloroethane	2.8	J
71-43-2	Benzene	10	U
79-01-6	Trichloroethene	2.7	J
78-87-5	1,2-Dichloropropane	10	U
74-95-3	Dibromomethane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
142-28-9	1,3-Dichloropropane	10	U

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-088D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-13A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5767.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/28/2012
% Moisture: not dec. Date Analyzed: 04/02/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 2.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	190	
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U J
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
630-20-6	1,1,1,2-Tetrachloroethane	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	m,p-Xylene	10	U
95-47-6	o-Xylene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U J
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-86-1	Bromobenzene	10	U
96-18-4	1,2,3-Trichloropropane	10	U
95-49-8	2-Chlorotoluene	10	U
108-67-8	1,3,5-Trimethylbenzene	10	U
106-43-4	4-Chlorotoluene	10	U
98-06-6	tert-Butylbenzene	10	U
95-63-6	1,2,4-Trimethylbenzene	10	U
135-98-8	sec-Butylbenzene	10	U
99-87-6	4-Isopropyltoluene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
87-61-6	1,2,3-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
123-91-1	1,4-Dioxane	200	U R
110-82-7	Cyclohexane	10	U
79-20-9	Methyl acetate	10	U

6/25/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-088D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-13A
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5767.D
 Level: (TRACE/LOW/MED) LOW Date Received: 03/28/2012
 % Moisture: not dec. Date Analyzed: 04/02/2012
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 2.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
108-87-2	Methylcyclohexane		10	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DEC-088D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-13A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5767.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/28/2012
% Moisture: not dec. Date Analyzed: 04/02/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 2.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-089

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-10A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5765.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/28/2012
% Moisture: not dec. Date Analyzed: 04/02/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U R
156-59-2	cis-1,2-Dichloroethene	1.5	J
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	1.3	J
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-089

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-10A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5765.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/28/2012
% Moisture: not dec. Date Analyzed: 04/02/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	59	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U J
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U J
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

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5/1/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-089

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-10A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5765.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/28/2012
% Moisture: not dec. Date Analyzed: 04/02/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
108-87-2	Methylcyclohexane		5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DEC-089

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-10A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5765.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/28/2012
% Moisture: not dec. Date Analyzed: 04/02/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-089D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-11A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5744.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/28/2012
% Moisture: not dec. Date Analyzed: 03/30/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 10.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	50	U
74-87-3	Chloromethane	50	U
75-01-4	Vinyl chloride	50	U
74-83-9	Bromomethane	50	U
75-00-3	Chloroethane	50	U
75-69-4	Trichlorofluoromethane	50	U
75-35-4	1,1-Dichloroethene	50	U
67-64-1	Acetone	50	U R
74-88-4	Iodomethane	50	U
75-15-0	Carbon disulfide	50	U
75-09-2	Methylene chloride	50	U
156-60-5	trans-1,2-Dichloroethene	50	U
1634-04-4	Methyl tert-butyl ether	50	U
75-34-3	1,1-Dichloroethane	50	U
108-05-4	Vinyl acetate	50	U
78-93-3	2-Butanone	50	U R
156-59-2	cis-1,2-Dichloroethene	50	U
594-20-7	2,2-Dichloropropane	50	U
74-97-5	Bromochloromethane	50	U
67-66-3	Chloroform	50	U
71-55-6	1,1,1-Trichloroethane	50	U
563-58-6	1,1-Dichloropropene	50	U
56-23-5	Carbon tetrachloride	50	U
107-06-2	1,2-Dichloroethane	23	U
71-43-2	Benzene	50	U
79-01-6	Trichloroethene	50	U
78-87-5	1,2-Dichloropropane	50	U
74-95-3	Dibromomethane	50	U
75-27-4	Bromodichloromethane	50	U
10061-01-5	cis-1,3-Dichloropropene	50	U
108-10-1	4-Methyl-2-pentanone	50	U
108-88-3	Toluene	50	U
10061-02-6	trans-1,3-Dichloropropene	50	U
79-00-5	1,1,2-Trichloroethane	50	U
142-28-9	1,3-Dichloropropane	50	U

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-089D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-11A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5744.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/28/2012
% Moisture: not dec. Date Analyzed: 03/30/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 10.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	1200	
591-78-6	2-Hexanone	50	U
124-48-1	Dibromochloromethane	50	U
106-93-4	1,2-Dibromoethane	50	U
108-90-7	Chlorobenzene	50	U
630-20-6	1,1,1,2-Tetrachloroethane	50	U
100-41-4	Ethylbenzene	50	U
1330-20-7	m,p-Xylene	50	U
95-47-6	o-Xylene	50	U
1330-20-7	Xylene (Total)	50	U
100-42-5	Styrene	50	U
75-25-2	Bromoform	50	U J
98-82-8	Isopropylbenzene	50	U
79-34-5	1,1,2,2-Tetrachloroethane	50	U
108-86-1	Bromobenzene	50	U
96-18-4	1,2,3-Trichloropropane	50	U J
95-49-8	2-Chlorotoluene	50	U
108-67-8	1,3,5-Trimethylbenzene	50	U
106-43-4	4-Chlorotoluene	50	U
98-06-6	tert-Butylbenzene	50	U
95-63-6	1,2,4-Trimethylbenzene	50	U
135-98-8	sec-Butylbenzene	50	U
99-87-6	4-Isopropyltoluene	50	U
541-73-1	1,3-Dichlorobenzene	50	U
106-46-7	1,4-Dichlorobenzene	50	U
95-50-1	1,2-Dichlorobenzene	50	U
96-12-8	1,2-Dibromo-3-chloropropane	50	U
120-82-1	1,2,4-Trichlorobenzene	50	U
87-68-3	Hexachlorobutadiene	50	U
87-61-6	1,2,3-Trichlorobenzene	50	U J
91-20-3	Naphthalene	50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	50	U
123-91-1	1,4-Dioxane	1000	U R
110-82-7	Cyclohexane	50	U
79-20-9	Methyl acetate	50	U J

OK 5/14/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-089D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-11A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5744.D

Level: (TRACE/LOW/MED) LOW Date Received: 03/28/2012

% Moisture: not dec. Date Analyzed: 03/30/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 10.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
108-87-2	Methylcyclohexane		50	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DEC-089D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-11A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5744.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/28/2012
% Moisture: not dec. Date Analyzed: 03/30/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 10.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
DEC-090

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-04A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5811.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/04/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
75-71-8	Dichlorodifluoromethane	5.0	U	
74-87-3	Chloromethane	5.0	U	
75-01-4	Vinyl chloride	5.0	U	
74-83-9	Bromomethane	5.0	U	
75-00-3	Chloroethane	5.0	U	
75-69-4	Trichlorofluoromethane	5.0	U	
75-35-4	1,1-Dichloroethene	5.0	U	
67-64-1	Acetone	5.0	U	R
74-88-4	Iodomethane	5.0	U	
75-15-0	Carbon disulfide	5.0	U	
75-09-2	Methylene chloride	5.0	U	
156-60-5	trans-1,2-Dichloroethene	5.0	U	
1634-04-4	Methyl tert-butyl ether	5.0	U	
75-34-3	1,1-Dichloroethane	5.0	U	
108-05-4	Vinyl acetate	5.0	U	
78-93-3	2-Butanone	5.0	U	R
156-59-2	cis-1,2-Dichloroethene	9.2		
594-20-7	2,2-Dichloropropane	5.0	U	
74-97-5	Bromochloromethane	5.0	U	
67-66-3	Chloroform	5.0	U	
71-55-6	1,1,1-Trichloroethane	5.0	U	
563-58-6	1,1-Dichloropropene	5.0	U	
56-23-5	Carbon tetrachloride	5.0	U	
107-06-2	1,2-Dichloroethane	5.0	U	
71-43-2	Benzene	5.0	U	
79-01-6	Trichloroethene	12		
78-87-5	1,2-Dichloropropane	5.0	U	
74-95-3	Dibromomethane	5.0	U	
75-27-4	Bromodichloromethane	5.0	U	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	
108-10-1	4-Methyl-2-pentanone	5.0	U	
108-88-3	Toluene	5.0	U	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	
79-00-5	1,1,2-Trichloroethane	5.0	U	
142-28-9	1,3-Dichloropropane	5.0	U	

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5/4/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-090

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-04A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5811.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/04/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/L	Q
127-18-4	Tetrachloroethene	2400	3100	2 DJ
591-78-6	2-Hexanone		5.0	U
124-48-1	Dibromochloromethane		5.0	U
106-93-4	1,2-Dibromoethane		5.0	U
108-90-7	Chlorobenzene		5.0	U
630-20-6	1,1,1,2-Tetrachloroethane		1.2	U
100-41-4	Ethylbenzene		5.0	U
1330-20-7	m,p-Xylene		5.0	U
95-47-6	o-Xylene		5.0	U
1330-20-7	Xylene (Total)		5.0	U
100-42-5	Styrene		5.0	U
75-25-2	Bromoform		5.0	U
98-82-8	Isopropylbenzene		5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		5.0	U
108-86-1	Bromobenzene		5.0	U
96-18-4	1,2,3-Trichloropropane		5.0	U
95-49-8	2-Chlorotoluene		5.0	U
108-67-8	1,3,5-Trimethylbenzene		5.0	U
106-43-4	4-Chlorotoluene		5.0	U
98-06-6	tert-Butylbenzene		5.0	U
95-63-6	1,2,4-Trimethylbenzene		5.0	U
135-98-8	sec-Butylbenzene		5.0	U
99-87-6	4-Isopropyltoluene		5.0	U
541-73-1	1,3-Dichlorobenzene		5.0	U
106-46-7	1,4-Dichlorobenzene		5.0	U
95-50-1	1,2-Dichlorobenzene		5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		5.0	U
120-82-1	1,2,4-Trichlorobenzene		5.0	U
87-68-3	Hexachlorobutadiene		5.0	U
87-61-6	1,2,3-Trichlorobenzene		5.0	U
91-20-3	Naphthalene		5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		5.0	U
123-91-1	1,4-Dioxane		100	U R
110-82-7	Cyclohexane		5.0	U
79-20-9	Methyl acetate		5.0	U

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-090

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-04A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5811.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/04/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) UG/L	Q
108-87-2	Methylcyclohexane	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DEC-090

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-04A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5811.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/04/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-090DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-04ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0493.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/06/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 200.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1000	U J
74-87-3	Chloromethane	1000	U
75-01-4	Vinyl chloride	1000	U
74-83-9	Bromomethane	1000	U
75-00-3	Chloroethane	1000	U
75-69-4	Trichlorofluoromethane	1000	U
75-35-4	1,1-Dichloroethene	1000	U
67-64-1	Acetone	1000	U R
74-88-4	Iodomethane	1000	U
75-15-0	Carbon disulfide	1000	U
75-09-2	Methylene chloride	1000	U
156-60-5	trans-1,2-Dichloroethene	1000	U
1634-04-4	Methyl tert-butyl ether	1000	U
75-34-3	1,1-Dichloroethane	1000	U
108-05-4	Vinyl acetate	1000	U
78-93-3	2-Butanone	1000	U R
156-59-2	cis-1,2-Dichloroethene	1000	U
594-20-7	2,2-Dichloropropane	1000	U
74-97-5	Bromochloromethane	1000	U
67-66-3	Chloroform	1000	U
71-55-6	1,1,1-Trichloroethane	1000	U
563-58-6	1,1-Dichloropropene	1000	U
56-23-5	Carbon tetrachloride	1000	U
107-06-2	1,2-Dichloroethane	1000	U
71-43-2	Benzene	1000	U
79-01-6	Trichloroethene	1000	U
78-87-5	1,2-Dichloropropane	1000	U
74-95-3	Dibromomethane	1000	U
75-27-4	Bromodichloromethane	1000	U
10061-01-5	cis-1,3-Dichloropropene	1000	U
108-10-1	4-Methyl-2-pentanone	1000	U
108-88-3	Toluene	1000	U
10061-02-6	trans-1,3-Dichloropropene	1000	U
79-00-5	1,1,2-Trichloroethane	1000	U
142-28-9	1,3-Dichloropropane	1000	U

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5/4/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-090DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-04ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0493.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/06/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 200.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	2400	DJ
591-78-6	2-Hexanone	1000	U
124-48-1	Dibromochloromethane	1000	U
106-93-4	1,2-Dibromoethane	1000	U
108-90-7	Chlorobenzene	1000	U
630-20-6	1,1,1,2-Tetrachloroethane	1000	U
100-41-4	Ethylbenzene	1000	U
1330-20-7	m,p-Xylene	1000	U
95-47-6	o-Xylene	1000	U
1330-20-7	Xylene (Total)	1000	U
100-42-5	Styrene	1000	U
75-25-2	Bromoform	1000	U
98-82-8	Isopropylbenzene	1000	U
79-34-5	1,1,2,2-Tetrachloroethane	1000	U
108-86-1	Bromobenzene	1000	U
96-18-4	1,2,3-Trichloropropane	1000	U
95-49-8	2-Chlorotoluene	1000	U
108-67-8	1,3,5-Trimethylbenzene	1000	U
106-43-4	4-Chlorotoluene	1000	U
98-06-6	tert-Butylbenzene	1000	U
95-63-6	1,2,4-Trimethylbenzene	1000	U
135-98-8	sec-Butylbenzene	1000	U
99-87-6	4-Isopropyltoluene	1000	U
541-73-1	1,3-Dichlorobenzene	1000	U
106-46-7	1,4-Dichlorobenzene	1000	U
95-50-1	1,2-Dichlorobenzene	1000	U
96-12-8	1,2-Dibromo-3-chloropropane	1000	U
120-82-1	1,2,4-Trichlorobenzene	1000	U
87-68-3	Hexachlorobutadiene	1000	U
87-61-6	1,2,3-Trichlorobenzene	1000	U
91-20-3	Naphthalene	1000	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1000	U
123-91-1	1,4-Dioxane	20000	U
110-82-7	Cyclohexane	1000	U
79-20-9	Methyl acetate	1000	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-090DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-04ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0493.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/06/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 200.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
108-87-2	Methylcyclohexane		1000	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DEC-090DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-04ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0493.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/06/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 200.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

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5/4/12

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-090D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-05A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0488.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/06/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U J
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	0.70	J
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U R
156-59-2	cis-1,2-Dichloroethene	1.5	J
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	0.55	J
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	1.8	J
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

624
5/14/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-090D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-05A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0488.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/06/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	10	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-090D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-05A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0488.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/06/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
108-87-2	Methylcyclohexane		5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DEC-090D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-05A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0488.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/06/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-091

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-15A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0307.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/28/2012
% Moisture: not dec. Date Analyzed: 04/02/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U R
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

6/5/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-091

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-15A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0307.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/28/2012
% Moisture: not dec. Date Analyzed: 04/02/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	1.2	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	0.97	J
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	1.0	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

6/25/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-091

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-15A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0307.D

Level: (TRACE/LOW/MED) LOW Date Received: 03/28/2012

% Moisture: not dec. _____ Date Analyzed: 04/02/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
108-87-2	Methylcyclohexane		5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DEC-091

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-15A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0307.D

Level: (TRACE or LOW/MED) LOW Date Received: 03/28/2012

% Moisture: not dec. Date Analyzed: 04/02/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	20836-11-7	1H-Indene, 2,3-dihydro-2,2-di	12.718	5.9	NJ
02	2809-64-5	Naphthalene, 1,2,3,4-tetrahy	13.352	8.0	NJ

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FD-03272012-2

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: Field dup of DEC-0910
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-11A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0348.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/03/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	0.52	J
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U R
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	0.77	J
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	0.60	J
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
FD-03272012-2

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: Field dup of DEC-091D
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-11A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0348.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/03/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	3.3	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U J
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U J
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U J
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

6/5/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FD-03272012-2

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: Field by 7 DEC-0910
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-11A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0348.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/03/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
108-87-2	Methylcyclohexane	5.0		U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FD-03272012-2

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: Field dup of DEC-0910
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-11A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0348.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/03/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-091D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-01A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0441.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/05/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U J
74-87-3	Chloromethane	5.0	U J
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U J
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U R
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

REV
5/4/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-091D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-01A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0441.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/05/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	2.2	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

bx
5/4/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DEC-091D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-01A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0441.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/05/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-87-2	Methylcyclohexane	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DEC-091D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-01A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0441.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/05/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB032712

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-05A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5758.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/28/2012
% Moisture: not dec. Date Analyzed: 04/02/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U R
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

bot
5/4/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB032712

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-05A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5758.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/28/2012
% Moisture: not dec. Date Analyzed: 04/02/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U J
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U J
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

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5/2/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB032712

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-05A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5758.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/28/2012
% Moisture: not dec. Date Analyzed: 04/02/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) UG/L	Q
108-87-2	Methylcyclohexane	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TB032712

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-05A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5758.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/28/2012
% Moisture: not dec. Date Analyzed: 04/02/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB2-0312712

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-14A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5759.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/28/2012
% Moisture: not dec. Date Analyzed: 04/02/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U R
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

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5/14/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB2-0312712

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-14A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5759.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/28/2012
% Moisture: not dec. Date Analyzed: 04/02/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

6/2/12

1B - FORM 1 VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB2-0312712

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-14A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5759.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/28/2012
% Moisture: not dec. Date Analyzed: 04/02/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
108-87-2	Methylcyclohexane		5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TB2-0312712

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0590-14A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M5759.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/28/2012
% Moisture: not dec. Date Analyzed: 04/02/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
TRIP BLANK

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-09A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0439.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/05/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U J
74-87-3	Chloromethane	5.0	U J
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U J
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U R
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP BLANK

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-09A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0439.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/05/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

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5/19/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP BLANK

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-09A
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0439.D
 Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
 % Moisture: not dec. Date Analyzed: 04/05/2012
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) <u>UG/L</u>	<u>Q</u>
108-87-2	Methylcyclohexane	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TRIP BLANK

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-09A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0439.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/05/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
TRIP BLANK 2

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-12A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0337.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/03/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	UR
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	UR
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

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5/4/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP BLANK 2

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-12A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0337.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/03/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	ug/L	Q
127-18-4	Tetrachloroethene		5.0	U
591-78-6	2-Hexanone		5.0	U
124-48-1	Dibromochloromethane		5.0	U
106-93-4	1,2-Dibromoethane		5.0	U
108-90-7	Chlorobenzene		5.0	U
630-20-6	1,1,1,2-Tetrachloroethane		5.0	U
100-41-4	Ethylbenzene		5.0	U
1330-20-7	m,p-Xylene		5.0	U
95-47-6	o-Xylene		5.0	U
1330-20-7	Xylene (Total)		5.0	U
100-42-5	Styrene		5.0	U
75-25-2	Bromoform		5.0	U
98-82-8	Isopropylbenzene		5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		5.0	U J
108-86-1	Bromobenzene		5.0	U
96-18-4	1,2,3-Trichloropropane		5.0	U J
95-49-8	2-Chlorotoluene		5.0	U
108-67-8	1,3,5-Trimethylbenzene		5.0	U
106-43-4	4-Chlorotoluene		5.0	U
98-06-6	tert-Butylbenzene		5.0	U
95-63-6	1,2,4-Trimethylbenzene		5.0	U
135-98-8	sec-Butylbenzene		5.0	U
99-87-6	4-Isopropyltoluene		5.0	U
541-73-1	1,3-Dichlorobenzene		5.0	U
106-46-7	1,4-Dichlorobenzene		5.0	U
95-50-1	1,2-Dichlorobenzene		5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		5.0	U J
120-82-1	1,2,4-Trichlorobenzene		5.0	U
87-68-3	Hexachlorobutadiene		5.0	U
87-61-6	1,2,3-Trichlorobenzene		5.0	U
91-20-3	Naphthalene		5.0	U J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		5.0	U
123-91-1	1,4-Dioxane		100	U R
110-82-7	Cyclohexane		5.0	U
79-20-9	Methyl acetate		5.0	U

68L
5/4/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP BLANK 2

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-12A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0337.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/03/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	Q
108-87-2	Methylcyclohexane	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TRIP BLANK 2

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-12A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0337.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/29/2012
% Moisture: not dec. Date Analyzed: 04/03/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP BLANK 3

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-17A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0440.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/30/2012
% Moisture: not dec. Date Analyzed: 04/05/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U J
74-87-3	Chloromethane	5.0	U J
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U J
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U R
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

6/5/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP BLANK 3

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-17A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0440.D
Level: (TRACE/LOW/MED) LOW Date Received: 03/30/2012
% Moisture: not dec. Date Analyzed: 04/05/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

604
5/14/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP BLANK 3

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-17A
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0440.D
 Level: (TRACE/LOW/MED) LOW Date Received: 03/30/2012
 % Moisture: not dec. Date Analyzed: 04/05/2012
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L
108-87-2	Methylcyclohexane	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TRIP BLANK 3

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0607-17A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0440.D
Level: (TRACE or LOW/MED) LOW Date Received: 03/30/2012
% Moisture: not dec. Date Analyzed: 04/05/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TRIP BLANK

4-1-12

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-10A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0625.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/12/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U	
74-87-3	Chloromethane	5.0	U	
75-01-4	Vinyl chloride	5.0	U	
74-83-9	Bromomethane	5.0	U	J
75-00-3	Chloroethane	5.0	U	
75-69-4	Trichlorofluoromethane	5.0	U	
75-35-4	1,1-Dichloroethene	5.0	U	
67-64-1	Acetone	5.0	U	R
74-88-4	Iodomethane	5.0	U	
75-15-0	Carbon disulfide	5.0	U	
75-09-2	Methylene chloride	5.0	U	
156-60-5	trans-1,2-Dichloroethene	5.0	U	
1634-04-4	Methyl tert-butyl ether	5.0	U	
75-34-3	1,1-Dichloroethane	5.0	U	
108-05-4	Vinyl acetate	5.0	U	
78-93-3	2-Butanone	5.0	U	R
156-59-2	cis-1,2-Dichloroethene	5.0	U	
594-20-7	2,2-Dichloropropane	5.0	U	
74-97-5	Bromochloromethane	5.0	U	
67-66-3	Chloroform	5.0	U	
71-55-6	1,1,1-Trichloroethane	5.0	U	
563-58-6	1,1-Dichloropropene	5.0	U	
56-23-5	Carbon tetrachloride	5.0	U	
107-06-2	1,2-Dichloroethane	5.0	U	
71-43-2	Benzene	5.0	U	
79-01-6	Trichloroethene	5.0	U	
78-87-5	1,2-Dichloropropane	5.0	U	
74-95-3	Dibromomethane	5.0	U	
75-27-4	Bromodichloromethane	5.0	U	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	
108-10-1	4-Methyl-2-pentanone	5.0	U	
108-88-3	Toluene	5.0	U	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	
79-00-5	1,1,2-Trichloroethane	5.0	U	
142-28-9	1,3-Dichloropropane	5.0	U	

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TRIP BLANK

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-10A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0625.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/12/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

6/5/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TRIP BLANK

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-10A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0625.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/12/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L
108-87-2	Methylcyclohexane	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

TRIP BLANK

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0639-10A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0625.D
Level: (TRACE or LOW/MED) LOW Date Received: 04/03/2012
% Moisture: not dec. Date Analyzed: 04/12/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TRIP BLANK

3-29-12 (2-1)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-18A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0517.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/02/2012
% Moisture: not dec. Date Analyzed: 04/09/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U J
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U R
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U R
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

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5/18/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TRIP BLANK

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-18A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0517.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/02/2012
% Moisture: not dec. Date Analyzed: 04/09/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

5/18/12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TRIP BLANK

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-18A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0517.D
Level: (TRACE/LOW/MED) LOW Date Received: 04/02/2012
% Moisture: not dec. Date Analyzed: 04/09/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/L
108-87-2	Methylcyclohexane	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

TRIP BLANK

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0621-18A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0517.D
Level: (TRACE or LOW/MED) LOW Date Received: 04/02/2012
% Moisture: not dec. Date Analyzed: 04/09/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/17/2012

Client: URS Corporation
Client Sample ID: DEC-004
Lab ID: L0639-12

Project: Klink Cosmo Meeker
Collection Date: 03/30/12 16:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromotography (LOW)							E300IC_W
Chloride	120		10	mg/L	5	04/11/2012 22:22	65525
Sulfate	170		25	mg/L	5	04/11/2012 22:22	65525
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	460		20	mg/L CaCO3	1	04/09/2012 13:14	65504
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.13		0.030	mg/L	1	04/13/2012 14:17	65596
SM 4500D S- -- Total Sulfides							SM4500_S_W
Sulfide	ND		0.030	mg/L	1	04/05/2012 11:22	65456
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L	1	04/12/2012 15:38	65571

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 353.2

DEC-004

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46684
 Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
 Project Number: L0639 Received: 04/04/12 15:00
 Matrix: Aqueous Laboratory ID: SB46684-11 File ID: OM 4-6-2012 12-21-15PM-045
 Sampled: 03/30/12 16:10 Prepared: 04/06/12 08:03 Analyzed: 04/06/12 13:00
 % Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
 Batch: 1207793 Sequence: S203881 Calibration: 1204013
 Instrument: Lachat2
 Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	6.46	20		EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/13/2012

Client: URS Corporation

Client Sample ID: DEC-006D

Lab ID: L0590-06

Project: Klink Cosmo Meeker

Collection Date: 03/26/12 16:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromotography (LOW)				E300IC_W
Chloride	160 <i>P</i>	10 mg/L	5 04/02/2012 16:07	65353
Sulfate	100	5.0 mg/L	1 04/02/2012 11:19	65353
SM 2320B -- ALKALINITY (Total)				SM2320_W
Alkalinity, Total (As CaCO3)	160	20 mg/L CaCO3	1 03/30/2012 13:35	65336
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method				SM4500_P_W
Phosphorus (As P)	0.27	0.060 mg/L	2 04/05/2012 10:52	65439
SM 4500D S- -- Total Sulfides				SM4500_S-_W
Sulfide	ND	0.030 mg/L	1 03/30/2012 11:26	65338
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method				SM4500_TKN_W
TKN-N	ND	0.20 mg/L	1 04/05/2012 11:41	65440

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

*for
5/2/12*

FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 353.2

DEC-006D

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46397
 Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
 Project Number: L0590 Received: 03/30/12 17:15
 Matrix: Aqueous Laboratory ID: SB46397-05 File ID: OM_4-5-2012_11-06-20AM-039
 Sampled: 03/26/12 16:00 Prepared: 04/05/12 08:08 Analyzed: 04/05/12 11:40
 % Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
 Batch: 1207690 Sequence: S203807 Calibration: 1204011
 Instrument: Lachat2
 Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	7.84	20		EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/13/2012

Client: URS Corporation

Client Sample ID: DEC-06DD

Lab ID: L0590-09

Project: Klink Cosmo Meeker

Collection Date: 03/26/12 18:05

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromatography (LOW)				E300IC_W
Chloride	160 5	10 mg/L	5 04/03/2012 9:08	65353
Sulfate	160	25 mg/L	5 04/03/2012 9:08	65353
SM 2320B -- ALKALINITY (Total)				SM2320_W
Alkalinity, Total (As CaCO3)	120	20 mg/L CaCO3	1 03/30/2012 13:47	65336
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method				SM4500_P_W
Phosphorus (As P)	0.39	0.060 mg/L	2 04/05/2012 11:01	65439
SM 4500D S- -- Total Sulfides				SM4500_S_W
Sulfide	ND	0.030 mg/L	1 03/30/2012 11:33	65338
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method				SM4500_TKN_W
TKN-N	ND	0.20 mg/L	1 04/05/2012 11:46	65440

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

w
5/2/12

FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 353.2

DEC-06DD

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46397
 Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
 Project Number: L0590 Received: 03/30/12 17:15
 Matrix: Aqueous Laboratory ID: SB46397-08 File ID: OM 4-5-2012 11-06-20AM-042
 Sampled: 03/26/12 18:05 Prepared: 04/05/12 08:08 Analyzed: 04/05/12 11:42
 % Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
 Batch: 1207690 Sequence: S203807 Calibration: 1204011
 Instrument: Lachat2
 Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	4.60	20		EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/17/2012

Client: URS Corporation
Client Sample ID: DEC-007
Lab ID: L0621-01

Project: Klink Cosmo Meeker
Collection Date: 03/28/12 15:21

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromatography (LOW)							E300IC_W
Chloride	130		20	mg/L		10/04/11/2012 16:07	65524
Sulfate	90		5.0	mg/L		10/04/10/2012 20:08	65524
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	180		20	mg/L CaCO3		10/04/09/2012 11:02	65503
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.13		0.030	mg/L		10/04/10/2012 10:31	65529
SM 4500D S- -- Total Sulfides							SM4500_S-W
Sulfide	ND		0.030	mg/L		10/04/02/2012 10:26	65367
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L		10/04/10/2012 16:06	65528

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

FORM I - INORGANIC ANALYSIS DATA SHEET**EPA 353.2****DEC-007**

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46687
Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
Project Number: L0621 Received: 04/04/12 15:00
Matrix: Aqueous Laboratory ID: SB46687-01 File ID: OM 4-7-2012 08-05-28AM-021
Sampled: 03/28/12 15:21 Prepared: 04/07/12 06:37 Analyzed: 04/07/12 08:23
% Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
Batch: 1207901 Sequence: S203886 Calibration: 1204015
Instrument: Lachat2
Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	8.28	20		EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/17/2012

Client: URS Corporation
Client Sample ID: DEC-007D
Lab ID: L0621-02

Project: Klink Cosmo Meeker
Collection Date: 03/28/12 16:49

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromotography (LOW)							E300IC_W
Chloride	230		20	mg/L		10/04/11/2012 16:19	65524
Sulfate	130		5.0	mg/L		10/04/10/2012 20:19	65524
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	240		20	mg/L CaCO3		10/04/09/2012 11:04	65503
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.14		0.030	mg/L		10/04/10/2012 10:32	65529
SM 4500D S- -- Total Sulfides							SM4500_S-_W
Sulfide	ND		0.030	mg/L		10/04/02/2012 10:27	65367
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L		10/04/10/2012 16:08	65528

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 353.2

DEC-007D

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46687
 Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
 Project Number: L0621 Received: 04/04/12 15:00
 Matrix: Aqueous Laboratory ID: SB46687-02 File ID: OM 4-7-2012 08-05-28AM-024
 Sampled: 03/28/12 16:49 Prepared: 04/07/12 06:37 Analyzed: 04/07/12 08:26
 % Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
 Batch: 1207901 Sequence: S203886 Calibration: 1204015
 Instrument: Lachat2
 Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	5.58	20		EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/17/2012

Client: URS Corporation
Client Sample ID: DEC-008
Lab ID: L0639-01

Project: Klink Cosmo Meeker
Collection Date: 03/30/12 16:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromatography (LOW)							E300IC_W
Chloride	280		20	mg/L		10 04/11/2012 20:13	65525
Sulfate	110		5.0	mg/L		1 04/11/2012 1:13	65525
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	260		20	mg/L CaCO3		1 04/09/2012 13:04	65504
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.13		0.030	mg/L		1 04/13/2012 10:53	65596
SM 4500D S- -- Total Sulfides							SM4500_S_W
Sulfide	ND		0.030	mg/L		1 04/05/2012 11:07	65456
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L		1 04/12/2012 15:23	65571

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 353.2

DEC-008

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46684
 Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
 Project Number: L0639 Received: 04/04/12 15:00
 Matrix: Aqueous Laboratory ID: SB46684-01 File ID: OM 4-6-2012 12-21-15PM-027
 Sampled: 03/30/12 16:30 Prepared: 04/06/12 08:03 Analyzed: 04/06/12 12:44
 % Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
 Batch: 1207793 Sequence: S203881 Calibration: 1204013
 Instrument: Lachat2
 Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	9.44	20		EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/13/2012

Client: URS Corporation

Client Sample ID: DEC-009

Lab ID: L0590-19

Project: Klink Cosmo Meeker

Collection Date: 03/28/12 12:07

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromatography (LOW)							E300IC_W
Chloride	220	B	10	mg/L		5 04/03/2012 11:05	65353
Sulfate	140		5.0	mg/L		1 04/02/2012 14:33	65353
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	220		20	mg/L CaCO3		1 03/30/2012 14:22	65336
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.28		0.060	mg/L		2 04/05/2012 11:23	65439
SM 4500D S- -- Total Sulfides							SM4500_S_W
Sulfide	ND		0.030	mg/L		1 03/30/2012 11:53	65338
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L		1 04/05/2012 11:57	65440

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

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5/14/12

FORM I - INORGANIC ANALYSIS DATA SHEET**EPA 353.2****DEC-009**

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46397
Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
Project Number: L0590 Received: 03/30/12 17:15
Matrix: Aqueous Laboratory ID: SB46397-17 File ID: OM 4-6-2012 12-21-15PM-025
Sampled: 03/28/12 12:07 Prepared: 04/06/12 08:03 Analyzed: 04/06/12 12:42
% Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
Batch: 1207793 Sequence: S203881 Calibration: 1204013
Instrument: Lachat2
Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	6.68	20		EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/17/2012

Client: URS Corporation
Client Sample ID: DEC-010
Lab ID: L0639-11

Project: Klink Cosmo Meeker
Collection Date: 03/30/12 14:52

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromotography (LOW)							E300IC_W
Chloride	220		10	mg/L	5	04/11/2012 22:11	65525
Sulfate	380		25	mg/L	5	04/11/2012 22:11	65525
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	100		20	mg/L CaCO3	1	04/09/2012 13:28	65505
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.10		0.030	mg/L	1	04/13/2012 13:57	65596
SM 4500D S- -- Total Sulfides							SM4500_S_W
Sulfide	ND		0.030	mg/L	1	04/05/2012 11:21	65456
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L	1	04/12/2012 15:36	65571

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 353.2

DEC-010

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46684
 Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
 Project Number: L0639 Received: 04/04/12 15:00
 Matrix: Aqueous Laboratory ID: SB46684-10 File ID: OM 4-6-2012 12-21-15PM-044
 Sampled: 03/30/12 14:52 Prepared: 04/06/12 08:03 Analyzed: 04/06/12 12:59
 % Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
 Batch: 1207793 Sequence: S203881 Calibration: 1204013
 Instrument: Lachat2
 Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	3.60	20		EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/17/2012

Client: URS Corporation
Client Sample ID: DEC-011
Lab ID: L0621-13

Project: Klink Cosmo Meeker
Collection Date: 03/30/12 13:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromatography (LOW)							E300IC_W
Chloride	380		20	mg/L		10 04/11/2012 19:03	65524
Sulfate	53		5.0	mg/L		1 04/10/2012 23:15	65524
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	150		20	mg/L CaCO3		1 04/09/2012 11:17	65503
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.12		0.030	mg/L		1 04/10/2012 10:40	65529
SM 4500D S- -- Total Sulfides							SM4500_S_W
Sulfide	ND		0.030	mg/L		1 04/04/2012 14:45	65433
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L		1 04/10/2012 16:30	65528

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 353.2

DEC-011

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46687
 Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
 Project Number: L0621 Received: 04/04/12 15:00
 Matrix: Aqueous Laboratory ID: SB46687-13 File ID: OM 4-7-2012 08-05-28AM-043
 Sampled: 03/30/12 13:55 Prepared: 04/07/12 06:37 Analyzed: 04/07/12 08:42
 % Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
 Batch: 1207901 Sequence: S203886 Calibration: 1204015
 Instrument: Lachat2
 Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	5.82	20		EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/17/2012

Client: URS Corporation
Client Sample ID: DEC-011D
Lab ID: L0621-14

Project: Klink Cosmo Meeker
Collection Date: 03/30/12 14:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromatography (LOW)							E300IC_W
Chloride	53		2.0	mg/L		1 04/10/2012 23:27	65524
Sulfate	29		5.0	mg/L		1 04/10/2012 23:27	65524
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	150		20	mg/L CaCO3		1 04/09/2012 11:19	65503
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.094		0.030	mg/L		1 04/10/2012 10:41	65529
SM 4500D S- -- Total Sulfides							SM4500_S_W
Sulfide	0.10		0.030	mg/L		1 04/04/2012 14:45	65433
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L		1 04/10/2012 16:32	65528

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

FORM I - INORGANIC ANALYSIS DATA SHEET**EPA 353.2****DEC-011D**

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46687
Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
Project Number: L0621 Received: 04/04/12 15:00
Matrix: Aqueous Laboratory ID: SB46687-14 File ID: OM 4-7-2012 08-05-28AM-044
Sampled: 03/30/12 14:15 Prepared: 04/07/12 06:37 Analyzed: 04/07/12 08:43
% Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
Batch: 1207901 Sequence: S203886 Calibration: 1204015
Instrument: Lachat2
Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	1.49	20		EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/17/2012

Client: URS Corporation
Client Sample ID: DEC-012
Lab ID: L0621-06

Project: Klink Cosmo Meeker
Collection Date: 03/29/12 16:34

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromatography (LOW)							E300IC_W
Chloride	140		20	mg/L		10/04/11/2012 17:06	65524
Sulfate	71		5.0	mg/L		10/04/10/2012 21:06	65524
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	140		20	mg/L CaCO3		10/04/09/2012 11:09	65503
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.13		0.030	mg/L		10/04/10/2012 10:35	65529
SM 4500D S- -- Total Sulfides							SM4500_S-W
Sulfide	ND		0.030	mg/L		10/04/04/2012 14:36	65433
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L		10/04/10/2012 16:14	65528

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

FORM I - INORGANIC ANALYSIS DATA SHEET**EPA 353.2****DEC-012**

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46687
Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
Project Number: L0621 Received: 04/04/12 15:00
Matrix: Aqueous Laboratory ID: SB46687-06 File ID: OM 4-7-2012 08-05-28AM-028
Sampled: 03/29/12 16:34 Prepared: 04/07/12 06:37 Analyzed: 04/07/12 08:29
% Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
Batch: 1207901 Sequence: S203886 Calibration: 1204015
Instrument: Lachat2
Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	3.74	20		EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/17/2012

Client: URS Corporation
Client Sample ID: DEC-013
Lab ID: L0621-09

Project: Klink Cosmo Meeker
Collection Date: 03/30/12 8:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromatography (LOW)							E300IC_W
Chloride	56		2.0	mg/L		1 04/10/2012 22:28	65524
Sulfate	78		5.0	mg/L		1 04/10/2012 22:28	65524
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	190		20	mg/L CaCO3		1 04/09/2012 11:12	65503
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.085		0.030	mg/L		1 04/10/2012 10:38	65529
SM 4500D S- -- Total Sulfides							SM4500_S-W
Sulfide	ND		0.030	mg/L		1 04/04/2012 14:41	65433
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L		1 04/10/2012 16:24	65528

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

FORM I - INORGANIC ANALYSIS DATA SHEET**EPA 353.2****DEC-013**

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46687
Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
Project Number: L0621 Received: 04/04/12 15:00
Matrix: Aqueous Laboratory ID: SB46687-09 File ID: OM 4-7-2012 08-05-28AM-039
Sampled: 03/30/12 08:55 Prepared: 04/07/12 06:37 Analyzed: 04/07/12 08:39
% Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
Batch: 1207901 Sequence: S203886 Calibration: 1204015
Instrument: Lachat2
Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	1.61	20		EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/17/2012

Client: URS Corporation
Client Sample ID: DEC-013D
Lab ID: L0621-10

Project: Klink Cosmo Meeker
Collection Date: 03/30/12 9:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromatography (LOW)							E300IC_W
Chloride	250		20	mg/L		10/04/11/2012 18:28	65524
Sulfate	120		5.0	mg/L		10/04/10/2012 22:40	65524
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	240		20	mg/L CaCO3		10/04/09/2012 11:13	65503
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.044		0.030	mg/L		10/04/10/2012 10:38	65529
SM 4500D S- -- Total Sulfides							SM4500_S-_W
Sulfide	ND		0.030	mg/L		10/04/04/2012 14:42	65433
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L		10/04/10/2012 16:25	65528

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 353.2

DEC-013D

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46687
 Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
 Project Number: L0621 Received: 04/04/12 15:00
 Matrix: Aqueous Laboratory ID: SB46687-10 File ID: QM 4-7-2012 08-05-28AM-040
 Sampled: 03/30/12 09:15 Prepared: 04/07/12 06:37 Analyzed: 04/07/12 08:40
 % Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
 Batch: 1207901 Sequence: S203886 Calibration: 1204015
 Instrument: Lachat2
 Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	4.04	20		EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/17/2012

Client: URS Corporation
Client Sample ID: DEC-014D
Lab ID: L0607-07

Project: Klink Cosmo Meeker
Collection Date: 03/29/12 8:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromotography (LOW)							E300IC_W
Chloride	240		10	mg/L	5	04/11/2012 13:11	65523
Sulfate	120		5.0	mg/L	1	04/10/2012 16:38	65523
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	150		20	mg/L CaCO3	1	04/09/2012 10:41	65502
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.087		0.030	mg/L	1	04/06/2012 14:27	65486
SM 4500D S- -- Total Sulfides							SM4500_S-_W
Sulfide	ND		0.030	mg/L	1	04/02/2012 10:21	65367
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L	1	04/06/2012 15:43	65487

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 353.2

DEC-014D

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46717
 Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
 Project Number: L0607 Received: 04/04/12 15:00
 Matrix: Aqueous Laboratory ID: SB46717-07 File ID: OM 4-7-2012 10-18-14AM-028
 Sampled: 03/29/12 08:55 Prepared: 04/07/12 09:26 Analyzed: 04/07/12 10:42
 % Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
 Batch: 1207909 Sequence: S203888 Calibration: 1204016
 Instrument: Lachat2
 Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	7.08	20		EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/17/2012

Client: URS Corporation
Client Sample ID: DEC-014R
Lab ID: L0607-06

Project: Klink Cosmo Meeker
Collection Date: 03/28/12 11:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromatography (LOW)							E300IC_W
Chloride	340		20	mg/L		10 04/12/2012 9:35	65523
Sulfate	100		5.0	mg/L		1 04/10/2012 16:26	65523
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	160		20	mg/L CaCO3		1 04/09/2012 10:40	65502
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.18		0.030	mg/L		1 04/06/2012 14:26	65486
SM 4500D S- -- Total Sulfides							SM4500_S_W
Sulfide	ND		0.030	mg/L		1 04/02/2012 10:20	65367
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L		1 04/06/2012 15:41	65487

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

FORM I - INORGANIC ANALYSIS DATA SHEET**EPA 353.2****DEC-014R**

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46717
Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
Project Number: L0607 Received: 04/04/12 15:00
Matrix: Aqueous Laboratory ID: SB46717-06 File ID: OM 4-7-2012 10-18-14AM-027
Sampled: 03/28/12 11:40 Prepared: 04/07/12 09:26 Analyzed: 04/07/12 10:42
% Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
Batch: 1207909 Sequence: S203888 Calibration: 1204016
Instrument: Lachat2
Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	4.26	20		EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/17/2012

Client: URS Corporation
Client Sample ID: DEC-015
Lab ID: L0607-13

Project: Klink Cosmo Meeker
Collection Date: 03/29/12 9:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromotography (LOW)							E300IC_W
Chloride	460		20	mg/L		10/04/11/2012 14:22	65523
Sulfate	130		5.0	mg/L		10/04/10/2012 17:59	65523
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	260		20	mg/L CaCO3		10/04/09/2012 10:47	65502
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.20		0.030	mg/L		10/04/06/2012 14:33	65486
SM 4500D S- -- Total Sulfides							SM4500_S_W
Sulfide	0.062		0.030	mg/L		10/04/02/2012 10:23	65367
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L		10/04/06/2012 15:49	65487

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

FORM I - INORGANIC ANALYSIS DATA SHEET**EPA 353.2****DEC-015**

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46717
Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
Project Number: L0607 Received: 04/04/12 15:00
Matrix: Aqueous Laboratory ID: SB46717-11 File ID: OM 4-7-2012 10-18-14AM-032
Sampled: 03/29/12 09:15 Prepared: 04/07/12 09:26 Analyzed: 04/07/12 10:46
% Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
Batch: 1207909 Sequence: S203888 Calibration: 1204016
Instrument: Lachat2
Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	7.06	20		EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/17/2012

Client: URS Corporation
Client Sample ID: DEC-015D
Lab ID: L0607-18

Project: Klink Cosmo Meeker
Collection Date: 03/29/12 14:35

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromotography (LOW)							E300IC_W
Chloride	250		10	mg/L	5	04/11/2012 15:32	65523
Sulfate	110		5.0	mg/L	1	04/10/2012 19:09	65523
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	120		20	mg/L CaCO3	1	04/09/2012 10:55	65502
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.23		0.030	mg/L	1	04/06/2012 14:38	65486
SM 4500D S- -- Total Sulfides							SM4500_S-_W
Sulfide	ND		0.030	mg/L	1	04/02/2012 10:25	65367
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L	1	04/06/2012 15:57	65487

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

FORM I - INORGANIC ANALYSIS DATA SHEET**EPA 353.2****DEC-015D**

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46717
Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
Project Number: L0607 Received: 04/04/12 15:00
Matrix: Aqueous Laboratory ID: SB46717-15 File ID: OM 4-7-2012 10-18-14AM-044
Sampled: 03/29/12 14:35 Prepared: 04/07/12 09:26 Analyzed: 04/07/12 10:56
% Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
Batch: 1207909 Sequence: S203888 Calibration: 1204016
Instrument: Lachat2
Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	8.28	20		EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/17/2012

Client: URS Corporation
Client Sample ID: DEC-015R
Lab ID: L0607-16

Project: Klink Cosmo Meeker
Collection Date: 03/29/12 14:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromatography (LOW)							E300IC_W
Chloride	450		20	mg/L		10/04/11/2012 15:20	65523
Sulfate	110		5.0	mg/L		10/04/10/2012 18:57	65523
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	250		20	mg/L CaCO3		10/04/09/2012 10:54	65502
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.23		0.030	mg/L		10/04/08/2012 14:37	65486
SM 4500D S- -- Total Sulfides							SM4500_S_W
Sulfide	ND		0.030	mg/L		10/04/02/2012 10:25	65367
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L		10/04/08/2012 15:56	65487

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 353.2

DEC-015R

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46717
 Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
 Project Number: L0607 Received: 04/04/12 15:00
 Matrix: Aqueous Laboratory ID: SB46717-14 File ID: OM 4-7-2012 11-00-35AM-003
 Sampled: 03/29/12 14:20 Prepared: 04/07/12 09:26 Analyzed: 04/07/12 11:03
 % Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
 Batch: 1207909 Sequence: S203888 Calibration: 1204016
 Instrument: Lachat2
 Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	9.50	50		EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/13/2012

Client: URS Corporation
Client Sample ID: DEC-022D
Lab ID: L0590-18

Project: Klink Cosmo Meeker
Collection Date: 03/28/12 10:12

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromotography (LOW)							E300IC_W
Chloride	210	P	10	mg/L	5	04/03/2012 10:30	65353
Sulfate	98		5.0	mg/L	1	04/02/2012 14:21	65353
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	270		20	mg/L CaCO3	1	03/30/2012 14:18	65336
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.19		0.060	mg/L	2	04/05/2012 11:19	65439
SM 4500D S- -- Total Sulfides							SM4500_S-W
Sulfide	ND		0.030	mg/L	1	03/30/2012 11:51	65338
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L	1	04/05/2012 11:55	65440

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

W
5/4/12

FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 353.2

DEC-022D

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46397
 Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
 Project Number: L0590 Received: 03/30/12 17:15
 Matrix: Aqueous Laboratory ID: SB46397-16 File ID: OM 4-6-2012 12-21-15PM-024
 Sampled: 03/28/12 10:12 Prepared: 04/06/12 08:03 Analyzed: 04/06/12 12:42
 % Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
 Batch: 1207793 Sequence: S203881 Calibration: 1204013
 Instrument: Lachat2
 Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	8.72	20		EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/17/2012

Client: URS Corporation
Client Sample ID: DEC-027
Lab ID: L0639-06

Project: Klink Cosmo Meeker
Collection Date: 04/01/12 8:26

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromatography (LOW)							E300IC_W
Chloride	200		20	mg/L		10 04/11/2012 21:00	65525
Sulfate	82		5.0	mg/L		1 04/11/2012 2:11	65525
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	260		20	mg/L CaCO3		1 04/09/2012 13:09	65504
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.077		0.030	mg/L		1 04/13/2012 12:35	65596
SM 4500D S- -- Total Sulfides							SM4500_S_W
Sulfide	ND		0.030	mg/L		1 04/05/2012 11:14	65456
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L		1 04/12/2012 15:30	65571

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 353.2

DEC-027

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46684
 Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
 Project Number: L0639 Received: 04/04/12 15:00
 Matrix: Aqueous Laboratory ID: SB46684-06 File ID: OM 4-6-2012 12-21-15PM-040
 Sampled: 04/01/12 08:26 Prepared: 04/06/12 08:03 Analyzed: 04/06/12 12:55
 % Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
 Batch: 1207793 Sequence: S203881 Calibration: 1204013
 Instrument: Lachat2
 Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	11.0	20		EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/17/2012

Client: URS Corporation

Client Sample ID: DEC-028

Lab ID: L0621-11

Project: Klink Cosmo Meeker

Collection Date: 03/30/12 11:35

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromotography (LOW)							E300IC_W
Chloride	230		20	mg/L		10 04/11/2012 18:40	65524
Sulfate	86		5.0	mg/L		1 04/10/2012 22:52	65524
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	310		20	mg/L CaCO3		1 04/09/2012 11:15	65503
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.12		0.030	mg/L		1 04/10/2012 10:39	65529
SM 4500D S- -- Total Sulfides							SM4500_S-_W
Sulfide	ND		0.030	mg/L		1 04/04/2012 14:43	65433
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L		1 04/10/2012 16:27	65528

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 353.2

DEC-028

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46687
 Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
 Project Number: L0621 Received: 04/04/12 15:00
 Matrix: Aqueous Laboratory ID: SB46687-11 File ID: OM 4-7-2012 08-05-28AM-041
 Sampled: 03/30/12 11:35 Prepared: 04/07/12 06:37 Analyzed: 04/07/12 08:41
 % Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
 Batch: 1207901 Sequence: S203886 Calibration: 1204015
 Instrument: Lachat2
 Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	0.200	20		EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/17/2012

Client: URS Corporation

Client Sample ID: 20120330-FD-1

Lab ID: L0621-15

Project: Klink Cosmo Meeker

Collection Date: 03/30/12 0:00

Field Duplicate of DEC-028D

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromotography (LOW)							E300IC_W
Chloride	220		10	mg/L		5 04/11/2012 19:15	65524
Sulfate	320		25	mg/L		5 04/11/2012 19:15	65524
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	180	J	20	mg/L CaCO3		1 04/09/2012 11:20	65503
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.081		0.030	mg/L		1 04/10/2012 10:42	65529
SM 4500D S- -- Total Sulfides							SM4500_S_W
Sulfide	ND		0.030	mg/L		1 04/04/2012 14:46	65433
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L		1 04/10/2012 16:33	65528

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 353.2

20120330-FD-1

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46687 *Field Duplicate of*
 Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody *DEC-02PB*
 Project Number: L0621 Received: 04/04/12 15:00
 Matrix: Aqueous Laboratory ID: SB46687-15 File ID: OM 4-7-2012 08-05-28AM-045
 Sampled: 03/30/12 00:00 Prepared: 04/07/12 06:37 Analyzed: 04/07/12 08:44
 % Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
 Batch: 1207901 Sequence: S203886 Calibration: 1204015
 Instrument: Lachat2
 Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	0.182	20	U	EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/17/2012

Client: URS Corporation

Client Sample ID: DEC-028D

Lab ID: L0621-12

Project: Klink Cosmo Meeker

Collection Date: 03/30/12 11:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromotography (LOW)							E300IC_W
Chloride	220		10	mg/L	5	04/11/2012 18:51	65524
Sulfate	330		25	mg/L	5	04/11/2012 18:51	65524
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	140	J	20	mg/L CaCO3	1	04/09/2012 11:16	65503
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.082		0.030	mg/L	1	04/10/2012 10:40	65529
SM 4500D S- -- Total Sulfides							SM4500_S_W
Sulfide	ND		0.030	mg/L	1	04/04/2012 14:44	65433
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L	1	04/10/2012 16:28	65528

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 353.2

DEC-028D

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46687
 Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
 Project Number: L0621 Received: 04/04/12 15:00
 Matrix: Aqueous Laboratory ID: SB46687-12 File ID: QM 4-7-2012 08-05-28AM-042
 Sampled: 03/30/12 11:55 Prepared: 04/07/12 06:37 Analyzed: 04/07/12 08:42
 % Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
 Batch: 1207901 Sequence: S203886 Calibration: 1204015
 Instrument: Lachat2
 Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	0.182	20	U	EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/17/2012

Client: URS Corporation

Client Sample ID: DEC-029

Lab ID: L0607-15

Project: Klink Cosmo Meeker

Collection Date: 03/29/12 11:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromotography (LOW)							E300IC_W
Chloride	210		10	mg/L	5	04/11/2012 15:08	65523
Sulfate	84		5.0	mg/L	1	04/10/2012 18:46	65523
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	160		20	mg/L CaCO3	1	04/09/2012 10:52	65502
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.31		0.060	mg/L	2	04/06/2012 14:36	65486
SM 4500D S- -- Total Sulfides							SM4500_S_W
Sulfide	ND		0.030	mg/L	1	04/02/2012 10:24	65367
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L	1	04/06/2012 15:54	65487

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 353.2

DEC-029

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46717
Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
Project Number: L0607 Received: 04/04/12 15:00
Matrix: Aqueous Laboratory ID: SB46717-13 File ID: OM 4-7-2012 10-18-14AM-042
Sampled: 03/29/12 11:45 Prepared: 04/07/12 09:26 Analyzed: 04/07/12 10:54
% Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
Batch: 1207909 Sequence: S203888 Calibration: 1204016
Instrument: Lachat2
Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	4.92	20		EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/17/2012

Client: URS Corporation

Client Sample ID: DEC-029D

Lab ID: L0607-14

Project: Klink Cosmo Meeker

Collection Date: 03/29/12 11:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromotography (LOW)							E300IC_W
Chloride	250		10	mg/L		5 04/11/2012 14:33	65523
Sulfate	170		25	mg/L		5 04/11/2012 14:33	65523
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	160		20	mg/L CaCO3		1 04/09/2012 10:48	65502
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.18		0.030	mg/L		1 04/06/2012 14:35	65486
SM 4500D S- -- Total Sulfides							SM4500_S_W
Sulfide	ND		0.030	mg/L		1 04/02/2012 10:24	65367
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L		1 04/06/2012 15:50	65487

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 353.2

DEC-029D

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46717
Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
Project Number: L0607 Received: 04/04/12 15:00
Matrix: Aqueous Laboratory ID: SB46717-12 File ID: OM 4-7-2012 10-18-14AM-033
Sampled: 03/29/12 11:25 Prepared: 04/07/12 09:26 Analyzed: 04/07/12 10:47
% Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
Batch: 1207909 Sequence: S203888 Calibration: 1204016
Instrument: Lachat2
Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	3.92	20		EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/17/2012

Client: URS Corporation

Client Sample ID: 20120331-FD-1

Lab ID: L0639-14

Project: Klink Cosmo Meeker

Collection Date: 03/31/12 0:00

Field Duplicate of DEC-029TC

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromatography (LOW)							E300IC_W
Chloride	2400		120	mg/L	60	04/12/2012 10:22	65525
Sulfate	720		100	mg/L	20	04/11/2012 22:46	65525
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	260		20	mg/L CaCO3	1	04/09/2012 13:17	65504
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.10		0.030	mg/L	1	04/13/2012 14:58	65596
SM 4500D S- -- Total Sulfides							SM4500_S-W
Sulfide	ND		0.030	mg/L	1	04/05/2012 11:25	65456
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L	1	04/12/2012 15:40	65571

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 353.2

20120331-FD-1

Field Duplicate of
DEC-029TC

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46684
 Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
 Project Number: L0639 Received: 04/04/12 15:00
 Matrix: Aqueous Laboratory ID: SB46684-13 File ID: OM 4-7-2012 08-05-28AM-019
 Sampled: 03/31/12 00:00 Prepared: 04/07/12 06:37 Analyzed: 04/07/12 08:21
 % Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
 Batch: 1207901 Sequence: S203886 Calibration: 1204015
 Instrument: Lachat2
 Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	0.182	20	U	EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/17/2012

Client: URS Corporation**Client Sample ID:** DEC-029TC**Lab ID:** L0639-13**Project:** Klink Cosmo Meeker**Collection Date:** 03/31/12 11:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromatography (LOW)							E300IC_W
Chloride	2500		120	mg/L	60	04/12/2012 10:10	65525
Sulfate	720		100	mg/L	20	04/11/2012 22:34	65525
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	310		20	mg/L CaCO3	1	04/09/2012 13:16	65504
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.086		0.030	mg/L	1	04/13/2012 14:38	65596
SM 4500D S- -- Total Sulfides							SM4500_S_W
Sulfide	ND		0.030	mg/L	1	04/05/2012 11:24	65456
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L	1	04/12/2012 15:39	65571

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 353.2

DEC-029TC

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46684
 Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
 Project Number: L0639 Received: 04/04/12 15:00
 Matrix: Aqueous Laboratory ID: SB46684-12 File ID: OM 4-7-2012 08-05-28AM-015
 Sampled: 03/31/12 11:30 Prepared: 04/07/12 06:37 Analyzed: 04/07/12 08:18
 % Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
 Batch: 1207901 Sequence: S203886 Calibration: 1204015
 Instrument: Lachat2
 Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	0.182	20	U	EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/13/2012

Client: URS Corporation
Client Sample ID: 20120327-FD-1
Lab ID: L0590-16

Field dup of
DEC-030

Project: Klink Cosmo Meeker
Collection Date: 03/27/12 0:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromotography (LOW)							E300IC_W
Chloride	310	P	10	mg/L		5 04/03/2012 10:06	65353
Sulfate	130		5.0	mg/L		1 04/02/2012 13:28	65353
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	90		20	mg/L CaCO3		1 03/30/2012 14:10	65336
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.39		0.060	mg/L		2 04/05/2012 11:14	65439
SM 4500D S- -- Total Sulfides							SM4500_S_W
Sulfide	ND		0.030	mg/L		1 03/30/2012 11:45	65338
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L		1 04/05/2012 11:53	65440

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

6
SP12

FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 353.2

20120327-FD-1

Field dup of DEC-030

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46397
Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
Project Number: L0590 Received: 03/30/12 17:15
Matrix: Aqueous Laboratory ID: SB46397-14 File ID: OM 4-6-2012 12-21-15PM-020
Sampled: 03/27/12 00:00 Prepared: 04/06/12 08:03 Analyzed: 04/06/12 12:38
% Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
Batch: 1207793 Sequence: S203881 Calibration: 1204013
Instrument: Lachat2
Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	5.64	20		EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/13/2012

Client: URS Corporation
Client Sample ID: DEC-030
Lab ID: L0590-20

Project: Klink Cosmo Meeker
Collection Date: 03/27/12 15:52

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromatography (LOW)							E300IC_W
Chloride	310		10	mg/L	5	04/03/2012 11:17	65353
Sulfate	130		5.0	mg/L	1	04/02/2012 14:44	65353
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	90		20	mg/L CaCO3	1	03/30/2012 14:26	65336
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.36		0.060	mg/L	2	04/05/2012 11:25	65439
SM 4500D S- -- Total Sulfides							SM4500_S_W
Sulfide	ND		0.030	mg/L	1	03/30/2012 11:55	65338
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L	1	04/05/2012 11:58	65440

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

6
5/2/12

FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 353.2

DEC-030

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46397
 Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
 Project Number: L0590 Received: 03/30/12 17:15
 Matrix: Aqueous Laboratory ID: SB46397-18 File ID: OM 4-6-2012 12-21-15PM-026
 Sampled: 03/27/12 15:52 Prepared: 04/06/12 08:03 Analyzed: 04/06/12 12:43
 % Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
 Batch: 1207793 Sequence: S203881 Calibration: 1204013
 Instrument: Lachat2
 Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	5.54	20		EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/13/2012

Client: URS Corporation
Client Sample ID: DEC-030D
Lab ID: L0590-04

Project: Klink Cosmo Meeker
Collection Date: 03/27/12 14:21

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromotography (LOW)							E300IC_W
Chloride	210	J	10	mg/L	5	04/02/2012 15:31	65353
Sulfate	160		25	mg/L	5	04/02/2012 15:31	65353
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	140		20	mg/L CaCO3	1	03/30/2012 13:23	65336
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.28		0.060	mg/L	2	04/05/2012 10:48	65439
SM 4500D S- -- Total Sulfides							SM4500_S_W
Sulfide	ND		0.030	mg/L	1	03/30/2012 11:18	65338
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L	1	04/05/2012 11:38	65440

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

6/5/12

FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 353.2

DEC-030D

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46397
Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
Project Number: L0590 Received: 03/30/12 17:15
Matrix: Aqueous Laboratory ID: SB46397-04 File ID: OM 4-5-2012 11-06-20AM-030
Sampled: 03/27/12 14:21 Prepared: 04/05/12 08:08 Analyzed: 04/05/12 11:32
% Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
Batch: 1207690 Sequence: S203807 Calibration: 1204011
Instrument: Lachat2
Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	8.72	20		EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/17/2012

Client: URS Corporation
Client Sample ID: DEC-031
Lab ID: L0639-08

Project: Klink Cosmo Meeker
Collection Date: 04/01/12 12:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromatography (LOW)							E300IC_W
Chloride	130		20	mg/L		10 04/11/2012 21:47	65525
Sulfate	48		5.0	mg/L		1 04/11/2012 2:58	65525
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	170		20	mg/L CaCO3		1 04/09/2012 13:12	65504
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.082		0.030	mg/L		1 04/13/2012 13:16	65596
SM 4500D S- -- Total Sulfides							SM4500_S_W
Sulfide	ND		0.030	mg/L		1 04/05/2012 11:18	65456
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L		1 04/12/2012 15:34	65571

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

FORM I - INORGANIC ANALYSIS DATA SHEET**EPA 353.2****DEC-031**

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46684
Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
Project Number: L0639 Received: 04/04/12 15:00
Matrix: Aqueous Laboratory ID: SB46684-08 File ID: OM 4-6-2012 12-21-15PM-042
Sampled: 04/01/12 12:05 Prepared: 04/06/12 08:03 Analyzed: 04/06/12 12:57
% Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
Batch: 1207793 Sequence: S203881 Calibration: 1204013
Instrument: Lachat2
Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	2.76	20		EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/17/2012

Client: URS Corporation
Client Sample ID: DEC-031D
Lab ID: L0639-15

Project: Klink Cosmo Meeker
Collection Date: 03/31/12 14:17

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromatography (LOW)							E300IC_W
Chloride	250		10	mg/L	5	04/11/2012 22:58	65525
Sulfate	210		25	mg/L	5	04/11/2012 22:58	65525
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	150		20	mg/L CaCO3	1	04/09/2012 13:18	65504
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.089		0.030	mg/L	1	04/13/2012 15:19	65596
SM 4500D S- -- Total Sulfides							SM4500_S_W
Sulfide	ND		0.030	mg/L	1	04/05/2012 11:27	65456
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L	1	04/12/2012 15:42	65571

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 353.2

DEC-031D

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46684
 Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
 Project Number: L0639 Received: 04/04/12 15:00
 Matrix: Aqueous Laboratory ID: SB46684-14 File ID: OM 4-7-2012_08-05-28AM-020
 Sampled: 03/31/12 14:17 Prepared: 04/07/12 06:37 Analyzed: 04/07/12 08:22
 % Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
 Batch: 1207901 Sequence: S203886 Calibration: 1204015
 Instrument: Lachat2
 Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	5.28	20		EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/17/2012

Client: URS Corporation
Client Sample ID: DEC-031TC
Lab ID: L0621-08

Project: Klink Cosmo Meeker
Collection Date: 03/30/12 13:19

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromotography (LOW)							E300IC_W
Chloride	180		20	mg/L		10 04/11/2012 17:29	65524
Sulfate	2.6	J	5.0	mg/L		1 04/10/2012 21:30	65524
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	91		20	mg/L CaCO3		1 04/09/2012 13:24	65505
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.16		0.030	mg/L		1 04/10/2012 10:36	65529
SM 4500D S- -- Total Sulfides							SM4500_S_W
Sulfide	ND		0.030	mg/L		1 04/04/2012 14:38	65433
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L		1 04/10/2012 16:17	65528

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

FORM I - INORGANIC ANALYSIS DATA SHEET**EPA 353.2**

DEC-031TC

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46687
Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
Project Number: L0621 Received: 04/04/12 15:00
Matrix: Aqueous Laboratory ID: SB46687-08 File ID: OM 4-7-2012 08-05-28AM-030
Sampled: 03/30/12 13:19 Prepared: 04/07/12 06:37 Analyzed: 04/07/12 08:31
% Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
Batch: 1207901 Sequence: S203886 Calibration: 1204015
Instrument: Lachat2
Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	0.182	20	U	EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/13/2012

Client: URS Corporation
Client Sample ID: DEC-032
Lab ID: L0590-01

Project: Klink Cosmo Meeker
Collection Date: 03/27/12 8:08

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromatography (LOW)							E300IC_W
Chloride	200		10	mg/L		5 04/02/2012 14:56	65353
Sulfate	10		5.0	mg/L		1 04/02/2012 9:59	65353
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	90		20	mg/L CaCO3		1 03/30/2012 13:11	65336
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.10		0.030	mg/L		1 04/05/2012 10:39	65439
SM 4500D S- -- Total Sulfides							SM4500_S_W
Sulfide	ND		0.030	mg/L		1 03/30/2012 11:12	65338
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L		1 04/05/2012 11:34	65440

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

for
5/2/12

FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 353.2

DEC-032

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46397
 Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
 Project Number: L0590 Received: 03/30/12 17:15
 Matrix: Aqueous Laboratory ID: SB46397-01 File ID: OM 4-5-2012 11-06-20AM-027
 Sampled: 03/27/12 08:08 Prepared: 04/05/12 08:08 Analyzed: 04/05/12 11:29
 % Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
 Batch: 1207690 Sequence: S203807 Calibration: 1204011
 Instrument: Lachat2
 Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	0.182	20	U	EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/17/2012

Client: URS Corporation

Client Sample ID: DEC-033

Lab ID: L0621-07

Project: Klink Cosmo Meeker

Collection Date: 03/30/12 7:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromotography (LOW)							E300IC_W
Chloride	900		40	mg/L	20	04/12/2012 9:58	65524
Sulfate	150		5.0	mg/L	1	04/10/2012 21:18	65524
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	140		20	mg/L CaCO3	1	04/09/2012 11:10	65503
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.50		0.060	mg/L	2	04/10/2012 10:35	65529
SM 4500D S- -- Total Sulfides							SM4500_S_W
Sulfide	ND		0.030	mg/L	1	04/04/2012 14:37	65433
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L	1	04/10/2012 16:16	65528

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 353.2

DEC-033

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46687
 Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
 Project Number: L0621 Received: 04/04/12 15:00
 Matrix: Aqueous Laboratory ID: SB46687-07 File ID: OM 4-7-2012 08-05-28AM-029
 Sampled: 03/30/12 07:40 Prepared: 04/07/12 06:37 Analyzed: 04/07/12 08:30
 % Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
 Batch: 1207901 Sequence: S203886 Calibration: 1204015
 Instrument: Lachat2
 Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	1.17	20		EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/13/2012

Client: URS Corporation
Client Sample ID: DEC-039
Lab ID: L0590-17

Project: Klink Cosmo Meeker
Collection Date: 03/28/12 8:34

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromotography (LOW)							E300IC_W
Chloride	200	P	10	mg/L		5 04/03/2012 10:18	65353
Sulfate	120		5.0	mg/L		1 04/02/2012 13:40	65353
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	210		20	mg/L CaCO3		1 03/30/2012 14:14	65336
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.28		0.060	mg/L		2 04/05/2012 11:17	65439
SM 4500D S- -- Total Sulfides							SM4500_S_W
Sulfide	ND		0.030	mg/L		1 03/30/2012 11:49	65338
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L		1 04/05/2012 11:54	65440

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

60
5/2/12

FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 353.2

DEC-039

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46397
Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
Project Number: L0590 Received: 03/30/12 17:15
Matrix: Aqueous Laboratory ID: SB46397-15 File ID: OM 4-6-2012 12-21-15PM-021
Sampled: 03/28/12 08:34 Prepared: 04/06/12 08:03 Analyzed: 04/06/12 12:39
% Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
Batch: 1207793 Sequence: S203881 Calibration: 1204013
Instrument: Lachat2
Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	19.2	20		EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/17/2012

Client: URS Corporation**Client Sample ID:** DEC-042**Lab ID:** L0639-02**Project:** Klink Cosmo Meeker**Collection Date:** 03/30/12 16:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromotography (LOW)							E300IC_W
Chloride	190		20	mg/L		10/04/11/2012 20:25	65525
Sulfate	96		5.0	mg/L		10/04/11/2012 1:24	65525
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	190		20	mg/L CaCO3		10/04/09/2012 13:05	65504
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.15		0.030	mg/L		10/04/13/2012 11:13	65596
SM 4500D S- -- Total Sulfides							SM4500_S-_W
Sulfide	ND		0.030	mg/L		10/04/05/2012 11:08	65456
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L		10/04/12/2012 15:24	65571

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 353.2

DEC-042

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46684
 Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
 Project Number: L0639 Received: 04/04/12 15:00
 Matrix: Aqueous Laboratory ID: SB46684-02 File ID: OM 4-6-2012 12-21-15PM-031
 Sampled: 03/30/12 16:40 Prepared: 04/06/12 08:03 Analyzed: 04/06/12 12:48
 % Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
 Batch: 1207793 Sequence: S203881 Calibration: 1204013
 Instrument: Lachat2
 Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	16.4	20		EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/17/2012

Client: URS Corporation
Client Sample ID: DEC-043
Lab ID: L0621-16

Project: Klink Cosmo Meeker
Collection Date: 03/29/12 16:35

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromotography (LOW)							E300IC_W
Chloride	68		10	mg/L	5	04/11/2012 19:28	65524
Sulfate	69		5.0	mg/L	1	04/10/2012 23:50	65524
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	250		20	mg/L CaCO3	1	04/09/2012 11:21	65503
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.083		0.030	mg/L	1	04/10/2012 10:42	65529
SM 4500D S- -- Total Sulfides							SM4500_S_W
Sulfide	ND		0.030	mg/L	1	04/04/2012 14:47	65433
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L	1	04/10/2012 16:35	65528

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

FORM I - INORGANIC ANALYSIS DATA SHEET**EPA 353.2**

DEC-043

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46687
Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
Project Number: L0621 Received: 04/04/12 15:00
Matrix: Aqueous Laboratory ID: SB46687-16 File ID: OM 4-7-2012 10-18-14AM-015
Sampled: 03/29/12 16:35 Prepared: 04/07/12 09:26 Analyzed: 04/07/12 10:31
% Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
Batch: 1207909 Sequence: S203888 Calibration: 1204016
Instrument: Lachat2
Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	2.26	20		EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/17/2012

Client: URS Corporation
Client Sample ID: DEC-043D
Lab ID: L0621-17

Project: Klink Cosmo Meeker
Collection Date: 03/29/12 17:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromotography (LOW)							E300IC_W
Chloride	220		20	mg/L		10 04/11/2012 20:02	65524
Sulfate	110		5.0	mg/L		1 04/11/2012 0:26	65524
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	190		20	mg/L CaCO3		1 04/09/2012 11:23	65503
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.11		0.030	mg/L		1 04/10/2012 10:43	65529
SM 4500D S- -- Total Sulfides							SM4500_S-_W
Sulfide	ND		0.030	mg/L		1 04/04/2012 14:48	65433
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L		1 04/10/2012 16:38	65528

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

FORM I - INORGANIC ANALYSIS DATA SHEET**EPA 353.2**

DEC-043D

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46687
Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
Project Number: L0621 Received: 04/04/12 15:00
Matrix: Aqueous Laboratory ID: SB46687-17 File ID: OM 4-7-2012 10-18-14AM-019
Sampled: 03/29/12 17:00 Prepared: 04/07/12 09:26 Analyzed: 04/07/12 10:35
% Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
Batch: 1207909 Sequence: S203888 Calibration: 1204016
Instrument: Lachat2
Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	2.40	20		EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/17/2012

Client: URS Corporation
Client Sample ID: DEC-044
Lab ID: L0639-05

Project: Klink Cosmo Meeker
Collection Date: 03/31/12 14:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromotography (LOW)							E300IC_W
Chloride	40		2.0	mg/L	1	04/11/2012 2:00	65525
Sulfate	36		5.0	mg/L	1	04/11/2012 2:00	65525
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	100		20	mg/L CaCO3	1	04/09/2012 13:27	65505
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.067		0.030	mg/L	1	04/13/2012 12:14	65596
SM 4500D S- -- Total Sulfides							SM4500_S_W
Sulfide	ND		0.030	mg/L	1	04/05/2012 11:12	65456
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L	1	04/12/2012 15:28	65571

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

FORM I - INORGANIC ANALYSIS DATA SHEET**EPA 353.2**

DEC-044

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46684
Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
Project Number: L0639 Received: 04/04/12 15:00
Matrix: Aqueous Laboratory ID: SB46684-05 File ID: OM 4-6-2012 12-21-15PM-039
Sampled: 03/31/12 14:40 Prepared: 04/06/12 08:03 Analyzed: 04/06/12 12:55
% Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
Batch: 1207793 Sequence: S203881 Calibration: 1204013
Instrument: Lachat2
Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	0.774	20		EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/17/2012

Client: URS Corporation

Client Sample ID: 20120401-FD-1

Lab ID: L0639-09

Project: Klink Cosmo Meeker

Collection Date: 04/01/12 0:00

Field Duplicate of DEC-044D

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromatography (LOW)							E300IC_W
Chloride	280		10	mg/L		5 04/11/2012 21:59	65525
Sulfate	350		25	mg/L		5 04/11/2012 21:59	65525
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	180		20	mg/L CaCO3		1 04/09/2012 13:13	65504
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.13		0.030	mg/L		1 04/13/2012 13:36	65596
SM 4500D S- -- Total Sulfides							SM4500_S-W
Sulfide	ND		0.030	mg/L		1 04/05/2012 11:20	65456
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L		1 04/12/2012 15:35	65571

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 353.2

20120401-FD-1

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46684 *Field Duplicate of DEC-0440*
Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
Project Number: L0639 Received: 04/04/12 15:00
Matrix: Aqueous Laboratory ID: SB46684-09 File ID: OM_4-6-2012_12-21-15PM-043
Sampled: 04/01/12 00:00 Prepared: 04/06/12 08:03 Analyzed: 04/06/12 12:58
% Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
Batch: 1207793 Sequence: S203881 Calibration: 1204013
Instrument: Lachat2
Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	4.52	20		EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/17/2012

Client: URS Corporation
Client Sample ID: DEC-044D
Lab ID: L0639-07

Project: Klink Cosmo Meeker
Collection Date: 04/01/12 10:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromotography (LOW)							E300IC_W
Chloride	280		10	mg/L	5	04/11/2012 21:36	65525
Sulfate	360		25	mg/L	5	04/11/2012 21:36	65525
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	180		20	mg/L CaCO3	1	04/09/2012 13:10	65504
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.15		0.030	mg/L	1	04/13/2012 12:55	65596
SM 4500D S- -- Total Sulfides							SM4500_S_W
Sulfide	ND		0.030	mg/L	1	04/05/2012 11:15	65456
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L	1	04/12/2012 15:32	65571

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 353.2

DEC-044D

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46684
 Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
 Project Number: L0639 Received: 04/04/12 15:00
 Matrix: Aqueous Laboratory ID: SB46684-07 File ID: OM 4-6-2012 12-21-15PM-041
 Sampled: 04/01/12 10:25 Prepared: 04/06/12 08:03 Analyzed: 04/06/12 12:56
 % Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
 Batch: 1207793 Sequence: S203881 Calibration: 1204013
 Instrument: Lachat2
 Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	4.94	20		EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/17/2012

Client: URS Corporation
Client Sample ID: DEC-045
Lab ID: L0607-02

Project: Klink Cosmo Meeker
Collection Date: 03/27/12 16:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromotography (LOW)							E300IC_W
Chloride	160		10	mg/L	5	04/11/2012 12:13	65523
Sulfate	36		5.0	mg/L	1	04/10/2012 15:39	65523
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	190		20	mg/L CaCO3	1	04/09/2012 10:34	65502
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.18		0.030	mg/L	1	04/06/2012 14:21	65486
SM 4500D S- -- Total Sulfides							SM4500_S-W
Sulfide	ND		0.030	mg/L	1	04/02/2012 10:18	65367
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L	1	04/06/2012 15:36	65487

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 353.2

DEC-045

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46717
 Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
 Project Number: L0607 Received: 04/04/12 15:00
 Matrix: Aqueous Laboratory ID: SB46717-02 File ID: OM 4-7-2012 10-18-14AM-021
 Sampled: 03/27/12 16:55 Prepared: 04/07/12 09:26 Analyzed: 04/07/12 10:36
 % Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
 Batch: 1207909 Sequence: S203888 Calibration: 1204016
 Instrument: Lachat2
 Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	1.72	20		EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/17/2012

Client: URS Corporation

Client Sample ID: DEC-045D

Lab ID: L0607-03

Project: Klink Cosmo Meeker

Collection Date: 03/27/12 17:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromatography (LOW)							E300IC_W
Chloride	220		10	mg/L	5	04/11/2012 12:24	65523
Sulfate	170		25	mg/L	5	04/11/2012 12:24	65523
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	220		20	mg/L CaCO3	1	04/09/2012 10:35	65502
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.095		0.030	mg/L	1	04/06/2012 14:22	65486
SM 4500D S- -- Total Sulfides							SM4500_S-_W
Sulfide	ND		0.030	mg/L	1	04/02/2012 10:19	65367
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L	1	04/06/2012 15:37	65487

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 353.2

DEC-045D

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46717
 Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
 Project Number: L0607 Received: 04/04/12 15:00
 Matrix: Aqueous Laboratory ID: SB46717-03 File ID: OM 4-7-2012 10-18-14AM-024
 Sampled: 03/27/12 17:40 Prepared: 04/07/12 09:26 Analyzed: 04/07/12 10:39
 % Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
 Batch: 1207909 Sequence: S203888 Calibration: 1204016
 Instrument: Lachat2
 Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	6.64	20		EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/13/2012

Client: URS Corporation
Client Sample ID: DEC-046
Lab ID: L0590-08

Project: Klink Cosmo Meeker
Collection Date: 03/26/12 17:23

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromatography (LOW)							E300IC_W
Chloride	160	B	10	mg/L		5 04/03/2012 8:56	65353
Sulfate	78		5.0	mg/L		1 04/02/2012 12:06	65353
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	150		20	mg/L CaCO3		1 03/30/2012 13:43	65336
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.16		0.060	mg/L		2 04/05/2012 10:59	65439
SM 4500D S- -- Total Sulfides							SM4500_S-W
Sulfide	ND		0.030	mg/L		1 03/30/2012 11:31	65338
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L		1 04/05/2012 11:44	65440

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

6/5/12

FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 353.2

DEC-046

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46397
 Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
 Project Number: 10590 Received: 03/30/12 17:15
 Matrix: Aqueous Laboratory ID: SB46397-07 File ID: OM 4-5-2012 11-06-20AM-041
 Sampled: 03/26/12 17:23 Prepared: 04/05/12 08:08 Analyzed: 04/05/12 11:42
 % Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
 Batch: 1207690 Sequence: S203807 Calibration: 1204011
 Instrument: Lachat2
 Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	6.16	20		EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/13/2012

Client: URS Corporation
Client Sample ID: DEC-046D
Lab ID: L0590-07

Project: Klink Cosmo Meeker
Collection Date: 03/26/12 16:07

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromatography (LOW)							E300IC_W
Chloride	170		10	mg/L	5	04/03/2012 8:44	65353
Sulfate	220		25	mg/L	5	04/03/2012 8:44	65353
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	130		20	mg/L CaCO3	1	03/30/2012 13:39	65336
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.31		0.060	mg/L	2	04/05/2012 10:54	65439
SM 4500D S- -- Total Sulfides							SM4500_S-W
Sulfide	ND		0.030	mg/L	1	03/30/2012 11:28	65338
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L	1	04/05/2012 11:42	65440

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

6-
5/2/12

FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 353.2

DEC-046D

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46397
Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
Project Number: L0590 Received: 03/30/12 17:15
Matrix: Aqueous Laboratory ID: SB46397-06 File ID: OM 4-5-2012_11-06-20AM-040
Sampled: 03/26/12 16:07 Prepared: 04/05/12 08:08 Analyzed: 04/05/12 11:41
% Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
Batch: 1207690 Sequence: S203807 Calibration: 1204011
Instrument: Lachat2
Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	3.66	20		EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/17/2012

Client: URS Corporation

Client Sample ID: DEC-047

Lab ID: L0621-04

Project: Klink Cosmo Meeker

Collection Date: 03/29/12 13:24

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromatography (LOW)							E300IC_W
Chloride	410		20	mg/L	10	04/11/2012 16:42	65524
Sulfate	110		5.0	mg/L	1	04/10/2012 20:43	65524
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	150		20	mg/L CaCO3	1	04/09/2012 11:06	65503
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.12		0.030	mg/L	1	04/10/2012 10:33	65529
SM 4500D S- -- Total Sulfides							SM4500_S-_W
Sulfide	ND		0.030	mg/L	1	04/02/2012 10:28	65367
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L	1	04/10/2012 16:11	65528

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 353.2

DEC-047

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46687
 Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
 Project Number: L0621 Received: 04/04/12 15:00
 Matrix: Aqueous Laboratory ID: SB46687-04 File ID: OM 4-7-2012 08-05-28AM-026
 Sampled: 03/29/12 13:24 Prepared: 04/07/12 06:37 Analyzed: 04/07/12 08:28
 % Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
 Batch: 1207901 Sequence: S203886 Calibration: 1204015
 Instrument: Lachat2
 Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	2.22	20		EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/17/2012

Client: URS Corporation
Client Sample ID: 20120329-FD-1
Lab ID: L0621-05

Project: Klink Cosmo Meeker
Collection Date: 03/29/12 0:00

Field Duplicate of DEC-048

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromatography (LOW)							E300IC_W
Chloride	140		20	mg/L	10	04/11/2012 16:54	65524
Sulfate	83		5.0	mg/L	1	04/10/2012 20:55	65524
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO ₃)	150		20	mg/L CaCO ₃	1	04/09/2012 11:08	65503
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.097		0.030	mg/L	1	04/10/2012 10:34	65529
SM 4500D S- -- Total Sulfides							SM4500_S_W
Sulfide	ND		0.030	mg/L	1	04/02/2012 10:28	65367
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L	1	04/10/2012 16:12	65528

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 353.2

20120329-FD-1

Field Duplicate of
DEC-048

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46687
 Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
 Project Number: L0621 Received: 04/04/12 15:00
 Matrix: Aqueous Laboratory ID: SB46687-05 File ID: OM 4-7-2012 08-05-28AM-027
 Sampled: 03/29/12 00:00 Prepared: 04/07/12 06:37 Analyzed: 04/07/12 08:28
 % Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
 Batch: 1207901 Sequence: S203886 Calibration: 1204015
 Instrument: Lachat2
 Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	7.92	20		EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/17/2012

Client: URS Corporation

Client Sample ID: DEC-048

Lab ID: L0621-03

Project: Klink Cosmo Meeker

Collection Date: 03/29/12 11:24

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromotography (LOW)							E300IC_W
Chloride	140		20	mg/L		10/04/11/2012 16:31	65524
Sulfate	85		5.0	mg/L		10/04/10/2012 20:31	65524
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	140		20	mg/L CaCO3		10/04/09/2012 11:05	65503
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.092		0.030	mg/L		10/04/10/2012 10:33	65529
SM 4500D S- -- Total Sulfides							SM4500_S-W
Sulfide	ND		0.030	mg/L		10/04/02/2012 10:27	65367
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L		10/04/10/2012 16:09	65528

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

FORM I - INORGANIC ANALYSIS DATA SHEET**EPA 353.2****DEC-048**

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46687
Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
Project Number: L0621 Received: 04/04/12 15:00
Matrix: Aqueous Laboratory ID: SB46687-03 File ID: OM 4-7-2012 08-05-28AM-025
Sampled: 03/29/12 11:24 Prepared: 04/07/12 06:37 Analyzed: 04/07/12 08:27
% Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
Batch: 1207901 Sequence: S203886 Calibration: 1204015
Instrument: Lachat2
Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	7.32	20		EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/17/2012

Client: URS Corporation
Client Sample ID: DEC-064
Lab ID: L0607-08

Project: Klink Cosmo Meeker
Collection Date: 03/28/12 14:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromotography (LOW)							E300IC_W
Chloride	390		20	mg/L		10/04/12/2012 9:47	65523
Sulfate	100		5.0	mg/L		10/04/10/2012 17:00	65523
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	70		20	mg/L CaCO3		10/04/09/2012 10:42	65502
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.071		0.030	mg/L		10/04/06/2012 14:28	65486
SM 4500D S- -- Total Sulfides							SM4500_S-W
Sulfide	ND		0.030	mg/L		10/04/02/2012 10:22	65367
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L		10/04/06/2012 15:44	65487

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

FORM I - INORGANIC ANALYSIS DATA SHEET**EPA 353.2**

DEC-064

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46717
Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
Project Number: L0607 Received: 04/04/12 15:00
Matrix: Aqueous Laboratory ID: SB46717-08 File ID: OM 4-7-2012 10-18-14AM-029
Sampled: 03/28/12 14:05 Prepared: 04/07/12 09:26 Analyzed: 04/07/12 10:43
% Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
Batch: 1207909 Sequence: S203888 Calibration: 1204016
Instrument: Lachat2
Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	5.88	20		EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/17/2012

Client: URS Corporation
Client Sample ID: DEC-064D
Lab ID: L0607-10

Project: Klink Cosmo Meeker
Collection Date: 03/28/12 14:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromatography (LOW)							E300IC_W
Chloride	250		10	mg/L	5	04/11/2012 13:58	65523
Sulfate	140		5.0	mg/L	1	04/10/2012 17:35	65523
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	130		20	mg/L CaCO3	1	04/09/2012 10:44	65502
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.24		0.030	mg/L	1	04/06/2012 14:31	65486
SM 4500D S- -- Total Sulfides							SM4500_S-W
Sulfide	ND		0.030	mg/L	1	04/02/2012 10:22	65367
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L	1	04/06/2012 15:46	65487

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 353.2

DEC-064D

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46717
 Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
 Project Number: L0607 Received: 04/04/12 15:00
 Matrix: Aqueous Laboratory ID: SB46717-09 File ID: OM 4-7-2012 10-18-14AM-030
 Sampled: 03/28/12 14:55 Prepared: 04/07/12 09:26 Analyzed: 04/07/12 10:44
 % Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
 Batch: 1207909 Sequence: S203888 Calibration: 1204016
 Instrument: Lachat2
 Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	8.18	20		EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/17/2012

Client: URS Corporation
Client Sample ID: DEC-065
Lab ID: L0639-03

Project: Klink Cosmo Meeker
Collection Date: 03/31/12 8:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromotography (LOW)							E300IC_W
Chloride	140		20	mg/L	10	04/11/2012 20:37	65525
Sulfate	57		5.0	mg/L	1	04/11/2012 1:36	65525
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	150		20	mg/L CaCO3	1	04/09/2012 13:06	65504
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.13		0.030	mg/L	1	04/13/2012 11:34	65586
SM 4500D S- -- Total Sulfides							SM4500_S-W
Sulfide	ND		0.030	mg/L	1	04/05/2012 11:10	65456
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L	1	04/12/2012 15:25	65571

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 353.2

DEC-065

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46684
Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
Project Number: L0639 Received: 04/04/12 15:00
Matrix: Aqueous Laboratory ID: SB46684-03 File ID: OM 4-6-2012 12-21-15PM-032
Sampled: 03/31/12 08:55 Prepared: 04/06/12 08:03 Analyzed: 04/06/12 12:49
% Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
Batch: 1207793 Sequence: S203881 Calibration: 1204013
Instrument: Lachat2
Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	1.96	20		EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/17/2012

Client: URS Corporation**Client Sample ID:** DEC-065D**Lab ID:** L0639-04**Project:** Klink Cosmo Meeker**Collection Date:** 03/31/12 11:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromatography (LOW)							E300IC_W
Chloride	240		20	mg/L		10/04/11/2012 20:49	65525
Sulfate	150		5.0	mg/L		10/04/11/2012 1:48	65525
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	140		20	mg/L CaCO3		10/04/09/2012 13:08	65504
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.16		0.030	mg/L		10/04/13/2012 11:54	65596
SM 4500D S- -- Total Sulfides							SM4500_S-_W
Sulfide	ND		0.030	mg/L		10/04/05/2012 11:11	65456
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L		10/04/12/2012 15:27	65571

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 353.2

DEC-065D

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46684
 Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
 Project Number: L0639 Received: 04/04/12 15:00
 Matrix: Aqueous Laboratory ID: SB46684-04 File ID: OM 4-6-2012 12-21-15PM-033
 Sampled: 03/31/12 11:05 Prepared: 04/06/12 08:03 Analyzed: 04/06/12 12:49
 % Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
 Batch: 1207793 Sequence: S203881 Calibration: 1204013
 Instrument: Lachat2
 Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	3.88	20		EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/13/2012

Client: URS Corporation

Client Sample ID: DEC-066

Lab ID: L0590-02

Project: Klink Cosmo Meeker

Collection Date: 03/27/12 11:14

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromatography (LOW)							E300IC_W
Chloride	110	B	10	mg/L		5 04/02/2012 15:08	65353
Sulfate	23		5.0	mg/L		1 04/02/2012 10:11	65353
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	110		20	mg/L CaCO3		1 03/30/2012 13:15	65336
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.13		0.030	mg/L		1 04/05/2012 10:41	65439
SM 4500D S- -- Total Sulfides							SM4500_S_W
Sulfide	ND		0.030	mg/L		1 03/30/2012 11:14	65338
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L		1 04/05/2012 11:35	65440

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

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5/12/12

FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 353.2

DEC-066

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46397
Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
Project Number: L0590 Received: 03/30/12 17:15
Matrix: Aqueous Laboratory ID: SB46397-02 File ID: OM 4-5-2012 11-06-20AM-028
Sampled: 03/27/12 11:14 Prepared: 04/05/12 08:08 Analyzed: 04/05/12 11:30
% Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
Batch: 1207690 Sequence: S203807 Calibration: 1204011
Instrument: Lachat2
Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	0.976	20		EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/13/2012

Client: URS Corporation

Client Sample ID: DEC-066D

Lab ID: L0590-03

Project: Klink Cosmo Meeker

Collection Date: 03/27/12 10:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromatography (LOW)							E300IC_W
Chloride	230		10	mg/L	5	04/02/2012 15:20	65353
Sulfate	190		25	mg/L	5	04/02/2012 15:20	65353
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	100		20	mg/L CaCO3	1	03/30/2012 13:19	65336
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.23		0.030	mg/L	1	04/05/2012 10:43	65439
SM 4500D S- -- Total Sulfides							SM4500_S-W
Sulfide	ND		0.030	mg/L	1	03/30/2012 11:16	65338
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L	1	04/05/2012 11:36	65440

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

6/5/12

FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 353.2

DEC-066D

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46397
 Client: Spectrum Analytical, Inc. -- RI Division Project: See Chain of Custody
 Project Number: L0590 Received: 03/30/12 17:15
 Matrix: Aqueous Laboratory ID: SB46397-03 File ID: OM 4-5-2012 11-06-20AM-029
 Sampled: 03/27/12 10:00 Prepared: 04/05/12 08:08 Analyzed: 04/05/12 11:31
 % Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
 Batch: 1207690 Sequence: S203807 Calibration: 1204011
 Instrument: Lachat2
 Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	8.02	20		EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/13/2012

Client: URS Corporation

Client Sample ID: DEC-088

Lab ID: L0590-12

Project: Klink Cosmo Meeker

Collection Date: 03/27/12 11:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromotography (LOW)							E300IC_W
Chloride	160	B	10	mg/L	5	04/03/2012 9:31	65353
Sulfate	88		5.0	mg/L	1	04/02/2012 12:53	65353
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	150		20	mg/L CaCO3	1	03/30/2012 13:58	65336
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.26		0.060	mg/L	2	04/05/2012 11:08	65439
SM 4500D S- -- Total Sulfides							SM4500_S-_W
Sulfide	ND		0.030	mg/L	1	03/30/2012 11:39	65338
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L	1	04/05/2012 11:49	65440

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

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3/2/12

FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 353.2

DEC-088

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46397
 Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
 Project Number: L0590 Received: 03/30/12 17:15
 Matrix: Aqueous Laboratory ID: SB46397-11 File ID: OM 4-5-2012 11-06-20AM-045
 Sampled: 03/27/12 11:00 Prepared: 04/05/12 08:08 Analyzed: 04/05/12 11:45
 % Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
 Batch: 1207690 Sequence: S203807 Calibration: 1204011
 Instrument: Lachat2
 Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	4.78	20		EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/13/2012

Client: URS Corporation

Client Sample ID: DEC-088D

Lab ID: L0590-13

Project: Klink Cosmo Meeker

Collection Date: 03/27/12 11:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromatography (LOW)							E300IC_W
Chloride	160	B	10	mg/L	5	04/03/2012 9:43	65353
Sulfate	120		5.0	mg/L	1	04/02/2012 13:04	65353
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	160		20	mg/L CaCO3	1	03/30/2012 14:02	65336
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.52		0.060	mg/L	2	04/05/2012 11:10	65439
SM 4500D S- -- Total Sulfides							SM4500_S-W
Sulfide	ND		0.030	mg/L	1	03/30/2012 11:41	65338
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L	1	04/05/2012 11:50	65440

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

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5/2/12

FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 353.2

DEC-088D

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46397
 Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
 Project Number: L0590 Received: 03/30/12 17:15
 Matrix: Aqueous Laboratory ID: SB46397-12 File ID: OM 4-6-2012 12-21-15PM-015
 Sampled: 03/27/12 11:50 Prepared: 04/06/12 08:03 Analyzed: 04/06/12 12:34
 % Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
 Batch: 1207793 Sequence: S203881 Calibration: 1204013
 Instrument: Lachat2
 Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	4.18	20		EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/13/2012


Client: URS Corporation

Client Sample ID: DEC-089

Lab ID: L0590-10

Project: Klink Cosmo Meeker

Collection Date: 03/27/12 8:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromatography (LOW)							E300IC_W
Chloride	53			2.0	mg/L	1 04/02/2012 12:29	65353
Sulfate	78			5.0	mg/L	1 04/02/2012 12:29	65353
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	160			20	mg/L CaCO3	1 03/30/2012 13:50	65336
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.21			0.030	mg/L	1 04/05/2012 11:03	65439
SM 4500D S- -- Total Sulfides							SM4500_S-W
Sulfide	ND			0.030	mg/L	1 03/30/2012 11:35	65338
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND			0.20	mg/L	1 04/05/2012 11:47	65440

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit



FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 353.2

DEC-089

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46397
 Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
 Project Number: L0590 Received: 03/30/12 17:15
 Matrix: Aqueous Laboratory ID: SB46397-09 File ID: OM_4-5-2012_11-06-20AM-043
 Sampled: 03/27/12 08:50 Prepared: 04/05/12 08:08 Analyzed: 04/05/12 11:43
 % Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
 Batch: 1207690 Sequence: S203807 Calibration: 1204011
 Instrument: Lachat2
 Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	3.76	20		EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/13/2012

Client: URS Corporation
Client Sample ID: DEC-089D
Lab ID: L0590-11

Project: Klink Cosmo Meeker
Collection Date: 03/27/12 9:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromatography (LOW)							E300IC_W
Chloride	220		10	mg/L		5 04/03/2012 9:19	65353
Sulfate	200		25	mg/L		5 04/03/2012 9:19	65353
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	150		20	mg/L CaCO3		1 03/30/2012 13:54	65336
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.19		0.030	mg/L		1 04/05/2012 11:05	65439
SM 4500D S- -- Total Sulfides							SM4500_S-W
Sulfide	ND		0.030	mg/L		1 03/30/2012 11:37	65338
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L		1 04/05/2012 11:48	65440

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

6/5/12

FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 353.2

DEC-089D

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46397
 Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
 Project Number: L0590 Received: 03/30/12 17:15
 Matrix: Aqueous Laboratory ID: SB46397-10 File ID: OM 4-5-2012 11-06-20AM-044
 Sampled: 03/27/12 09:30 Prepared: 04/05/12 08:08 Analyzed: 04/05/12 11:44
 % Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
 Batch: 1207690 Sequence: S203807 Calibration: 1204011
 Instrument: Lachat2
 Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	3.80	20		EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/17/2012

Client: URS Corporation**Client Sample ID:** DEC-090**Lab ID:** L0607-04**Project:** Klink Cosmo Meeker**Collection Date:** 03/28/12 9:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromotography (LOW)							E300IC_W
Chloride	73		10	mg/L		5 04/11/2012 12:36	65523
Sulfate	42		5.0	mg/L		1 04/10/2012 16:03	65523
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	150		20	mg/L CaCO3		1 04/09/2012 10:37	65502
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.12		0.030	mg/L		1 04/06/2012 14:23	65486
SM 4500D S- -- Total Sulfides							SM4500_S-W
Sulfide	0.030		0.030	mg/L		1 04/02/2012 10:19	65367
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L		1 04/06/2012 15:39	65487

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 353.2

DEC-090

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46717
 Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
 Project Number: L0607 Received: 04/04/12 15:00
 Matrix: Aqueous Laboratory ID: SB46717-04 File ID: OM 4-7-2012 10-18-14AM-025
 Sampled: 03/28/12 09:20 Prepared: 04/07/12 09:26 Analyzed: 04/07/12 10:40
 % Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
 Batch: 1207909 Sequence: S203888 Calibration: 1204016
 Instrument: Lachat2
 Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	2.66	20		EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/17/2012

Client: URS Corporation
Client Sample ID: DEC-090D
Lab ID: L0607-05

Project: Klink Cosmo Meeker
Collection Date: 03/28/12 9:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromotography (LOW)							E300IC_W
Chloride	240		10	mg/L		5 04/11/2012 12:48	65523
Sulfate	150		5.0	mg/L		1 04/10/2012 16:15	65523
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	160		20	mg/L CaCO3		1 04/09/2012 10:38	65502
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.11		0.030	mg/L		1 04/06/2012 14:25	65486
SM 4500D S- -- Total Sulfides							SM4500_S-W
Sulfide	ND		0.030	mg/L		1 04/02/2012 10:20	65367
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L		1 04/06/2012 15:40	65487

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 353.2

DEC-090D

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46717
Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
Project Number: L0607 Received: 04/04/12 15:00
Matrix: Aqueous Laboratory ID: SB46717-05 File ID: OM 4-7-2012 10-18-14AM-026
Sampled: 03/28/12 09:30 Prepared: 04/07/12 09:26 Analyzed: 04/07/12 10:41
% Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
Batch: 1207909 Sequence: S203888 Calibration: 1204016
Instrument: Lachat2
Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	4.02	20		EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/13/2012

Client: URS Corporation

Client Sample ID: DEC-091

Lab ID: L0590-15

Project: Klink Cosmo Meeker

Collection Date: 03/27/12 14:35

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromatography (LOW)							E300IC_W
Chloride	160	J	10	mg/L	5	04/03/2012 9:55	65353
Sulfate	4.7	J	5.0	mg/L	1	04/02/2012 13:16	65353
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO ₃)	150		20	mg/L CaCO ₃	1	03/30/2012 14:06	65336
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.29		0.060	mg/L	2	04/05/2012 11:12	65439
SM 4500D S- -- Total Sulfides							SM4500_S-W
Sulfide	ND		0.030	mg/L	1	03/30/2012 11:43	65338
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L	1	04/05/2012 11:51	65440

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

6m
5/2/12

FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 353.2

DEC-091

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46397
 Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
 Project Number: L0590 Received: 03/30/12 17:15
 Matrix: Aqueous Laboratory ID: SB46397-13 File ID: OM 4-6-2012 12-21-15PM-019
 Sampled: 03/27/12 14:35 Prepared: 04/06/12 08:03 Analyzed: 04/06/12 12:37
 % Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
 Batch: 1207793 Sequence: S203881 Calibration: 1204013
 Instrument: Lachat2
 Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	0.182	20	U	EPA 353.2

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/17/2012

Client: URS Corporation

Client Sample ID: FD-03272012-2

Lab ID: L0607-11

Project: Klink Cosmo Meeker

Collection Date: 03/27/12 0:00

*Field dup of
DEC-0910*

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromotography (LOW)							E300IC_W
Chloride	150		10	mg/L		5 04/11/2012 14:10	65523
Sulfate	85		5.0	mg/L		1 04/10/2012 17:47	65523
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	200		20	mg/L CaCO3		1 04/09/2012 10:45	65502
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.46		0.060	mg/L		2 04/06/2012 14:32	65486
SM 4500D S- -- Total Sulfides							SM4500_S_W
Sulfide	0.040		0.030	mg/L		1 04/02/2012 10:23	65367
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L		1 04/06/2012 15:48	65487

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 353.2

FD-03272012-2

Field dup of DEC-091D

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46717
Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
Project Number: L0607 Received: 04/04/12 15:00
Matrix: Aqueous Laboratory ID: SB46717-10 File ID: OM 4-7-2012 10-18-14AM-031
Sampled: 03/27/12 00:00 Prepared: 04/07/12 09:26 Analyzed: 04/07/12 10:45
% Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
Batch: 1207909 Sequence: S203888 Calibration: 1204016
Instrument: Lachat2
Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	1.39	20	J	EPA 353.2

see 5/4/12

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

04/17/2012

Client: URS Corporation

Client Sample ID: DEC-091D

Lab ID: L0607-01

Project: Klink Cosmo Meeker

Collection Date: 03/27/12 15:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromatography (LOW)							E300IC_W
Chloride	150		10	mg/L		5 04/11/2012 12:01	65523
Sulfate	82		5.0	mg/L		1 04/10/2012 15:28	65523
SM 2320B -- ALKALINITY (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	180		20	mg/L CaCO3		1 04/09/2012 10:32	65502
SM 4500B5-E P -- Total Phosphorus by Ascorbic Acid Method							SM4500_P_W
Phosphorus (As P)	0.46		0.060	mg/L		2 04/06/2012 14:20	65486
SM 4500D S- -- Total Sulfides							SM4500_S-W
Sulfide	0.038		0.030	mg/L		1 04/02/2012 10:17	65367
SM 4500B-C N Org -- NITROGEN (ORGANIC) by Micro-Kjeldahl Method							SM4500_TKN_W
TKN-N	ND		0.20	mg/L		1 04/06/2012 15:35	65487

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 353.2

DEC-091D

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 46717
Client: Spectrum Analytical, Inc.-- RI Division Project: See Chain of Custody
Project Number: L0607 Received: 04/04/12 15:00
Matrix: Aqueous Laboratory ID: SB46717-01 File ID: OM_4-7-2012_10-18-14AM-020
Sampled: 03/27/12 15:10 Prepared: 04/07/12 09:26 Analyzed: 04/07/12 10:35
% Solids: Preparation: General Preparation Initial/Final: 10 ml / 10 ml
Batch: 1207909 Sequence: S203888 Calibration: 1204016
Instrument: Lachat2
Reported to: MDL

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
N+N	Nitrate/Nitrite as N	1.02	20	J	EPA 353.2

*for
5/4/12*

ATTACHMENT B

SUPPORT DOCUMENTATION

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Klink Cosmo Meeker

Laboratory Workorder / SDG #: L0590

SW846 8260C, VOC by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8260C

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW5030

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: V1
Instrument Type: GCMS-VOA
Description: HP5890 II / HP5972
Manufacturer: Hewlett-Packard
Model: 5890 / 5972
GC Column used: 30 m X 0.25 mm ID [1.40 um thickness] DB-624
capillary column.

Instrument Code: V10
Instrument Type: GCMS-VOA
Description: HP7890A
Manufacturer: Agilent
Model: 7890A / 5975C
GC Column used: 30 m X 0.25 mm ID [1.40 um thickness] DB-624
capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits with the following exceptions. Please note that most test procedures allow for several compounds outside of the QC limits for the LCS, although this may indicate a bias for this specific compound.

LCS-65333 in batch 65333, Percent Recovery is outside QC Limits, recovery is above criteria for Bromoform at 149% with criteria of (70-130).

LCS-65365 in batch 65365, Percent Recovery is outside QC Limits, recovery is above criteria for Bromoform at 149% with criteria of (70-130).

LCSD-65333 in batch 65333, Percent Recovery is outside QC Limits, recovery is above criteria for Bromoform at 151% with criteria of (70-130).

LCSD-65365 in batch 65365, Percent Recovery is outside QC Limits, recovery is above criteria for Bromoform at 146% with criteria of (70-130).

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: DEC-030D (L0590-04AMS) and DEC-030D (L0590-04AMSD).

Percent recoveries were within the QC limits with the following exceptions:

DEC-030D (L0590-04AMS) Percent Recovery is outside QC Limits, recovery is below criteria for 1,3-Dichlorobenzene at 75% with criteria of (75-125).

DEC-030D (L0590-04AMSD) Percent Recovery is outside QC Limits, recovery is below criteria for Chlorobenzene at 79% with criteria of (80-120).

Replicate RPDs were within the advisory QC limits.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

The following samples were analyzed at dilution:

DEC-006D (L0590-06A) : Dilution Factor: 20
DEC-06DD (L0590-09A) : Dilution Factor: 4
DEC-089D (L0590-11A) : Dilution Factor: 10
DEC-088D (L0590-13A) : Dilution Factor: 2
20120327-FD-1 (L0590-16ADL) : Dilution Factor: 20
DEC-022D (L0590-18ADL) : Dilution Factor: 20
DEC-030 (L0590-20ADL) : Dilution Factor: 20

G. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

A handwritten signature in black ink, appearing to be 'J. H. L.', written over a horizontal line.

Signed: _____

Date: _____ 4/12/2012 _____

CHAIN OF CUSTODY RECORD

PROJECT NO.

SITE NAME

Klink Cosmo

SAMPLERS (PRINT/SIGNATURE)

John Boyd *John Boyd*

DELIVERY SERVICE: *Conner Pick up*

AIRBILL NO.:

TOTAL NO. OF CONTAINERS

LOCATION IDENTIFIER

DATE

TIME

COM/ GRAB

SAMPLE ID

MATRIX

DEC-006D

DEC-046D

DEC-046

DEC-006D

DEC-089

DEC-089D

DEC-088

DEC-088D

DEC-91

DEC-91D

DEC-089D

DEC-089D

DEC-089D

DEC-089D

DEC-089D

DEC-089D

DEC-089D

DEC-089D

DEC-089D

DEC-089D

TESTS

TCL VOCs

Substrate

Nitrate-Nitrite

TKN

Alk Chloride

Substrate

Substrate

Substrate

Substrate

Substrate

Substrate

Substrate

Substrate

Substrate

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URS

LAB *Spec TRUM*

COOLER *2* of *2*

PAGE *2* of *2*

REMARKS

SAMPLE TYPE

DEPTH (IN FEET)

ENDING

DEPTH (IN FEET)

FIELD LOT NO. #

FIELD LOT NO. #

FIELD LOT NO. #

FIELD LOT NO. #

FIELD LOT NO. #

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FIELD LOT NO. #

FIELD LOT NO. #

SPECIAL INSTRUCTIONS

URS contact Geo. Kisluk, Chemist

DATE

TIME

3/27

3:06

DATE

TIME

3/27

18:15

RECEIVED BY (SIGNATURE)

John Boyd

DATE

TIME

3/27

15:06

RECEIVED FOR LAB BY (SIGNATURE)

Sub bridge

RELINQUISHED BY (SIGNATURE)

John Boyd

DATE

TIME

3/27

15:06

RELINQUISHED BY (SIGNATURE)

Sub bridge

Distribution: Original accompanies shipment, copy to coordinator field files

Sub bridge

John Boyd

Sub bridge

John Boyd

URS-075C1 OF 11-01-01-01

3/27/02

3:06

18:15

CHAIN OF CUSTODY RECORD

PROJECT NO.

11176590.0002

SITE NAME

MSDC KLINE-COKE

SAMPLERS (PRINT/SIGNATURE)

K. McGowan

Delivery Service:

AIRBILL NO.:

20120327.FP.1

08:34

10:12

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TESTS

8260B

92C VOCs

500ML/VOL

W/NaOH

FROM RASH

W/1004

500ML/VOL

W/11C

ALUMINUM

CHLORINE

500ML/VOL

W/11C

ALUMINUM

CHLORINE

500ML/VOL

W/11C

ALUMINUM

CHLORINE

500ML/VOL

W/11C

ALUMINUM

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500ML/VOL

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ALUMINUM

URS

LAB Standard Analytical

COOLER 1 of 1

PAGE 1 of 1

REMARKS

SAMPLE TYPE

DEPTH (IN FEET)

ENDING

DEPTH (IN FEET)

FIELD LOT NO. #

(RPMs ONLY)

LH - HAZARDOUS LIQUID WASTE

LF - FLOATING/FREE PRODUCT ON GW TABLE

WO - OCEAN WATER

WS - SURFACE WATER

WQ - WATER FIELD QC

WL - LEACHATE

WS - SOIL GAS

WC - DRILLING WATER

WG - GROUND WATER

SC - SOIL

DC - DRILL CUTTINGS

SL - SLUDGE

WP - DRINKING WATER

WW - WASTE WATER

AA - AMBIENT AIR

SE - SEDIMENT

SH - HAZARDOUS SOLID WASTE

TRIP BLANK

SD# - MATRIX SPIKE DUPLICATE

FR# - FIELD REPLICATE

MS# - MATRIX SPIKE

MS# - MATRIX SPIKE

MS# - MATRIX SPIKE

SPECIAL INSTRUCTIONS

RECEIVED BY (SIGNATURE)

DATE

TIME

RELINQUISHED BY (SIGNATURE)

DATE

TIME

RECEIVED FOR LAB BY (SIGNATURE)

DATE

TIME

RELINQUISHED BY (SIGNATURE)

DATE

TIME

Distribution: Original accompanies shipment, copy to coordinator field files

3A - FORM III VOA-1
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix Spike - EPA Sample No.: DEC-030D Level: (TRACE or LOW) LOW

cis-1,2-Dichloroethene	50.0000	45.8492	90	2	0-40	70-125
2,2-Dichloropropane	50.0000	37.3151	75	4	0-40	70-135
Bromochloromethane	50.0000	45.3535	91	2	0-40	65-130
Chloroform	50.0000	44.5505	89	3	0-40	65-135
1,1,1-Trichloroethane	50.0000	45.6100	89	3	0-40	65-130
1,1-Dichloropropene	50.0000	44.3461	89	3	0-40	75-130
Carbon tetrachloride	50.0000	44.3839	89	3	0-40	65-140
1,2-Dichloroethane	50.0000	45.9933	92	2	0-40	70-130
Benzene	50.0000	44.0513	88	3	0-40	80-120
Trichloroethene	50.0000	100.7051	88	3	0-40	70-125
1,2-Dichloropropane	50.0000	46.0972	92	2	0-40	75-125
Dibromomethane	50.0000	46.7555	94	0	0-40	75-125
Bromodichloromethane	50.0000	44.5956	89	2	0-40	75-120
cis-1,3-Dichloropropene	50.0000	44.1878	88	2	0-40	70-130
4-Methyl-2-pentanone	50.0000	50.3907	101	3	0-40	60-135
Toluene	50.0000	43.7660	88	1	0-40	75-120
trans-1,3-Dichloropropene	50.0000	45.7490	91	1	0-40	55-140
1,1,2-Trichloroethane	50.0000	43.9248	88	0	0-40	75-125
1,3-Dichloropropane	50.0000	42.5061	85	0	0-40	75-125
Tetrachloroethene	50.0000	76.5445	88	6	0-40	45-150
2-Hexanone	50.0000	46.1397	92	6	0-40	55-130
Dibromochloromethane	50.0000	42.7029	85	1	0-40	60-135
1,2-Dibromoethane	50.0000	43.2205	86	2	0-40	80-120
Chlorobenzene	50.0000	39.7348	79	1	0-40	80-120
1,1,1,2-Tetrachloroethane	50.0000	40.5917	81	0	0-40	80-130
Ethylbenzene	50.0000	41.3433	83	1	0-40	75-125
m,p-Xylene	100.0000	83.7291	84	1	0-40	75-130
o-Xylene	50.0000	42.2468	84	1	0-40	80-120
Xylene (Total)	150.0000	125.9759	84	1	0-40	81-121
Styrene	50.0000	43.7078	87	0	0-40	65-135
Bromoform	50.0000	42.3673	85	3	0-40	70-130
Isopropylbenzene	50.0000	42.3273	85	2	0-40	75-125
1,1,2,2-Tetrachloroethane	50.0000	46.9025	94	4	0-40	65-130
Bromobenzene	50.0000	43.1396	86	1	0-40	75-125
1,2,3-Trichloropropane	50.0000	45.3426	91	4	0-40	75-125
2-Chlorotoluene	50.0000	39.2886	79	0	0-40	75-125
1,3,5-Trimethylbenzene	50.0000	41.3480	83	1	0-40	75-130
4-Chlorotoluene	50.0000	39.5052	79	1	0-40	75-130
tert-Butylbenzene	50.0000	40.2707	81	0	0-40	70-130
1,2,4-Trimethylbenzene	50.0000	40.8984	82	0	0-40	75-130
sec-Butylbenzene	50.0000	40.2769	81	1	0-40	70-125
4-Isopropyltoluene	50.0000	39.9135	80	1	0-40	75-130
1,3-Dichlorobenzene	50.0000	38.0080	76	2	0-40	75-125
1,4-Dichlorobenzene	50.0000	42.8858	86	1	0-40	75-125
1,2-Dichlorobenzene	50.0000	43.8662	88	2	0-40	70-120
1,2-Dibromo-3-chloropropan	50.0000	42.0250	84	10	0-40	50-130
1,2,4-Trichlorobenzene	50.0000	43.2177	86	8	0-40	65-135

6C - FORM VI VOA-3
VOLATILE ORGANICS INITIAL CALIBRATION DATA
Contract:

Lab Name: Spectrum Analytical, Inc.

Lab Code: MITKEM Case No.: I0590 SAS No.: SDG No.: SL0590

Instrument ID: V1 Heated Purge: (Y/N) N Calibration Date(s): 03/29/2012 03/29/2012

Purge Volume: 5 mL Calibration Times: 10:49 13:35

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (mm)

LAB FILE ID: RRF005 = V1M5693.D RRF020 = V1M5692.D RRF050 = V1M5691.D RRF100 = V1M5697.D RRF200 = V1M5696.D

RRF001 = V1M5695.D

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF001	RRF	% RSD
Dichlorodifluoromethane	0.286	0.287	0.259	0.257	0.248	0.222	0.260	9.4
Chloromethane	0.472	0.429	0.397	0.381	0.391	0.487	0.426	10.5
Vinyl chloride	0.451	0.426	0.392	0.407	0.380	0.488	0.424	9.5
Bromomethane	0.388	0.326	0.301	0.317	0.296	0.403	0.338	13.5
Chloroethane	0.221	0.252	0.236	0.239	0.221	0.321	0.249	15.0
Trichlorofluoromethane	0.465	0.481	0.442	0.466	0.451	0.465	0.462	2.9
1,1-Dichloroethene	0.419	0.417	0.386	0.417	0.388	0.489	0.419	8.8
Acetone -	0.056	0.033	0.034	0.035	0.033		0.038	26.4
Iodomethane	0.782	0.802	0.684	0.795	0.738	0.744	0.758	5.9
Carbon disulfide	1.386	1.362	1.239	1.285	1.205	1.219	1.283	5.9
Methylene chloride	0.502	0.460	0.403	0.433	0.410	0.656	0.477	19.9
trans-1,2-Dichloroethene	0.435	0.445	0.401	0.435	0.406	0.559	0.447	12.9
Methyl tert-butyl ether	1.090	1.058	0.937	1.038	0.998	1.061	1.030	5.3
1,1-Dichloroethane	0.731	0.716	0.636	0.698	0.662	0.799	0.707	8.1
Vinyl acetate	1.629	1.596	1.362	1.510	1.395	1.496	1.498	7.1
2-Butanone -	0.046	0.041	0.044	0.044	0.042		0.044	4.7
cis-1,2-Dichloroethene	0.451	0.479	0.427	0.446	0.432	0.564	0.467	11.0
2,2-Dichloropropane	0.339	0.384	0.290	0.314	0.290	0.373	0.332	12.3
Bromochloromethane	0.219	0.231	0.202	0.221	0.214	0.181	0.211	8.4
Chloroform	0.727	0.724	0.634	0.714	0.669	0.752	0.703	6.2
1,1,1-Trichloroethane	0.534	0.538	0.457	0.510	0.479	0.438	0.493	8.4
1,1-Dichloropropene	0.181	0.202	0.172	0.191	0.183	0.180	0.185	5.6
Carbon tetrachloride	0.440	0.455	0.414	0.454	0.445	0.377	0.431	7.0
1,2-Dichloroethane	0.566	0.545	0.462	0.538	0.509	0.394	0.503	12.8
Benzene	1.596	1.575	1.385	1.522	1.420	1.623	1.520	6.4
Trichloroethene	0.437	0.427	0.370	0.408	0.395	0.384	0.403	6.3
1,2-Dichloropropane	0.408	0.381	0.334	0.384	0.368	0.366	0.374	6.5

6C - FORM VI VOA-3
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc.

Lab Code: MITKEM Case No.: 10590 SAS No.: SDG No.: SL0590

Instrument ID: VI Calibration Date(s): 03/29/2012 03/29/2012

Heated Purge: (Y/N) N Calibration Times: 10:49 13:35

Purge Volume: 5 (mL)

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (mm)

LAB FILE ID: RRF005 = V1M5693.D RRF020 = V1M5692.D RRF050 = V1M5691.D RRF100 = V1M5697.D RRF200 = V1M5696.D

RRF001 = V1M5695.D

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF001	RRF	% RSD
tert-Butylbenzene	3.737	3.803	3.347	3.428	3.282	3.583	3.530	6.0
1,2,4-Trimethylbenzene	3.619	3.644	3.144	3.307	3.120	3.335	3.362	6.7
sec-Butylbenzene	4.242	4.385	3.805	3.914	3.727	4.729	4.134	9.4
4-Isopropyltoluene	3.367	3.351	2.964	3.077	2.942	3.311	3.169	6.2
1,3-Dichlorobenzene	2.111	2.225	1.886	1.963	1.929	2.147	2.044	6.7
1,4-Dichlorobenzene	2.165	2.250	1.948	2.048	1.976	2.224	2.102	6.1
1,2-Dichlorobenzene	2.012	2.057	1.732	1.857	1.788	1.802	1.875	7.0
1,2-Dibromo-3-chloropropane	0.181	0.160	0.143	0.160	0.157	0.162	0.160	7.7
1,2,4-Trichlorobenzene	1.001	0.939	0.767	0.870	0.843	0.932	0.892	9.3
Hexachlorobutadiene	0.427	0.406	0.348	0.369	0.374	0.365	0.382	7.7
1,2,3-Trichlorobenzene	0.762	0.674	0.506	0.630	0.584	0.672	0.638	13.7
Naphthalene	2.356	2.080	1.655	2.085	1.851	2.460	2.081	14.5
1,1,2-Trichloro-1,2,2-trifluoro	0.434	0.429	0.383	0.403	0.381	0.418	0.408	5.6
1,4-Dioxane	0.008	0.005	0.005	0.005	0.004	0.011	0.006	44.5
Cyclohexane	0.672	0.645	0.582	0.591	0.577	0.669	0.623	7.1
Methyl acetate	0.301	0.289	0.251	0.293	0.280	0.449	0.310	22.5
Methylcyclohexane	0.632	0.606	0.555	0.576	0.557	0.584	0.585	5.1

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590

Instrument ID: V1 Calibration Date: 03/30/2012 Time: 10:48

Lab File ID: V1M5732.D Init. Calib. Date(s): 03/29/2012 03/29/2012

EPA Sample No. (VSTD####) VSTD0501E Init. Calib. Time(s): 10:49 13:35

Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
1,1,1,2-Tetrachloroethane	0.513	0.512	0.010	-0.1	20.0
Ethylbenzene	0.740	0.708	0.010	-4.3	20.0
m,p-Xylene	0.927	0.871	0.010	-6.1	20.0
o-Xylene	0.880	0.854	0.010	-3.0	20.0
Xylene (Total)	0.912	0.865	0.010	-5.1	20.0
Styrene	1.540	1.442	0.010	-6.4	20.0
Bromoform -	0.259	0.369	0.010	-42.7	20.0
Isopropylbenzene	2.265	2.097	0.300	-7.4	20.0
1,1,2,2-Tetrachloroethane	1.179	1.000	0.300	-15.2	20.0
Bromobenzene	1.172	1.123	0.010	-4.2	20.0
1,2,3-Trichloropropane -	1.463	1.083	0.010	-26.0	20.0
2-Chlorotoluene	0.983	0.919	0.010	-6.5	20.0
1,3,5-Trimethylbenzene	3.367	3.058	0.010	-9.2	20.0
4-Chlorotoluene	1.020	0.990	0.010	-2.9	20.0
tert-Butylbenzene	3.530	3.329	0.010	-5.7	20.0
1,2,4-Trimethylbenzene	3.362	3.088	0.010	-8.1	20.0
sec-Butylbenzene	4.134	3.682	0.010	-10.9	20.0
4-Isopropyltoluene	3.169	2.987	0.010	-5.7	20.0
1,3-Dichlorobenzene	2.044	1.962	0.010	-4.0	20.0
1,4-Dichlorobenzene	2.102	2.075	0.010	-1.3	20.0
1,2-Dichlorobenzene	1.875	1.801	0.010	-3.9	20.0
1,2-Dibromo-3-chloropropane	0.160	0.135	0.010	-15.5	20.0
1,2,4-Trichlorobenzene	0.892	0.850	0.010	-4.7	20.0
Hexachlorobutadiene	0.382	0.365	0.010	-4.4	20.0
1,2,3-Trichlorobenzene -	0.638	0.495	0.010	-22.3	20.0
Naphthalene	2.081	1.752	0.010	-15.8	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.408	0.402	0.010	-1.4	20.0
1,4-Dioxane	0.006	0.004	0.010	-42.9	20.0
Cyclohexane	0.623	0.543	0.010	-12.8	20.0
Methyl acetate -	0.310	0.239	0.010	-22.9	20.0
Methylcyclohexane	0.585	0.552	0.010	-5.6	20.0

INJECTION LOG

Spectrum Analytical, Inc. RI Division VI Injection Log
 METHOD: 8260 W ANALYST: AED
 BATCH: 120330.B
 Start: 30-MAR-12 09:42
 End: 30-MAR-12 17:00

Comments:

Standards: 8260 W 2
 8260 W 2
 8260 W 2
 8260 W 2

Reviewed By: JAM 4/2/12 Manual Integration: N/A MI Review: N/A

FILE	TIME	LAB ID	CLIENT ID	PREP	MT	EN	INTERNAL STDs				SURROGATES				DILN	FLG	COMMENTS	PH
				BATCH			FEZ	CBZ	DCB	DFM	DCE	TOL	BFB					
VIMS730	09:42	BFB1E	BFB1E															
VIMS731	10:08	VSTD0501E	VSTD0501E															
VIMS732	10:48	VSTD0501E	VSTD0501E															
VIMS733	11:31	LCS-65333	LCS-65333															
VIMS734	12:16	LCS-65333	LCS-65333															
VIMS735	12:43	MB-65333	MB-65333															
VIMS736	13:11	MB-65333	MB-65333															
VIMS737	13:39	MB-65333	MB-65333															
VIMS738	14:07	LO606-08A	TRIP BLANK															
VIMS739	14:35	LO580-04C	INITIAL GROUNDW															
VIMS740	15:04	LO603-06ADL	MM09-098-032712															
VIMS741	15:33	LO603-08A	PO9-12A-032712															
VIMS742	16:02	LO590-06A	DEC-006D															
VIMS743	16:31	LO590-09A	DEC-06DD															
VIMS744	17:00	LO590-11A	DEC-089D															

E - One or more target compounds are above the calibration range
 R - One or more spike compounds are outside of control limits
 T - Sample was injected outside of the 12 hour sequence
 * - Internal Standard or Surrogate outside of control limit
 D - Surrogates are diluted

AED 4/2/12

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Instrument ID: V1 Calibration Date: 04/02/2012 Time: 10:44
Lab File ID: VLM5752.D Init. Calib. Date(s): 03/29/2012 03/29/2012
EPA Sample No. (VSTD####) VSTD0501F Init. Calib. Time(s): 10:49 13:35
Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)
Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.260	0.257	0.100	-1.0	20.0
Chloromethane	0.426	0.393	0.010	-7.8	20.0
Vinyl chloride	0.424	0.375	0.010	-11.5	20.0
Bromomethane	0.338	0.318	0.010	-6.2	20.0
Chloroethane	0.249	0.214	0.010	-14.0	20.0
Trichlorofluoromethane	0.462	0.510	0.010	10.4	20.0
1,1-Dichloroethene	0.419	0.413	0.100	-1.5	20.0
Acetone	0.038	0.029	0.010	-23.7	20.0
Iodomethane	0.758	0.850	0.010	12.2	20.0
Carbon disulfide	1.283	1.285	0.010	0.2	20.0
Methylene chloride	0.477	0.431	0.010	-9.6	20.0
trans-1,2-Dichloroethene	0.447	0.437	0.010	-2.3	20.0
Methyl tert-butyl ether	1.030	1.048	0.010	1.7	20.0
1,1-Dichloroethane	0.707	0.679	0.010	-4.0	20.0
Vinyl acetate	1.498	1.492	0.010	-0.4	20.0
2-Butanone	0.044	0.039	0.010	-9.5	20.0
cis-1,2-Dichloroethene	0.467	0.455	0.010	-2.5	20.0
2,2-Dichloropropane	0.332	0.328	0.010	-1.0	20.0
Bromochloromethane	0.211	0.234	0.010	10.7	20.0
Chloroform	0.703	0.738	0.010	4.9	20.0
1,1,1-Trichloroethane	0.493	0.540	0.010	9.7	20.0
1,1-Dichloropropene	0.185	0.201	0.010	8.8	20.0
Carbon tetrachloride	0.431	0.496	0.010	15.1	20.0
1,2-Dichloroethane	0.503	0.554	0.010	10.2	20.0
Benzene	1.520	1.507	0.010	-0.9	20.0
Trichloroethene	0.403	0.443	0.010	9.8	20.0
1,2-Dichloropropane	0.374	0.377	0.010	0.8	20.0
Dibromomethane	0.273	0.281	0.010	2.9	20.0
Bromodichloromethane	0.491	0.555	0.010	13.2	20.0
cis-1,3-Dichloropropene	0.670	0.659	0.010	-1.6	20.0
4-Methyl-2-pentanone	0.353	0.343	0.010	-2.8	20.0
Toluene	1.527	1.553	0.010	1.7	20.0
trans-1,3-Dichloropropene	0.572	0.590	0.010	3.0	20.0
1,1,2-Trichloroethane	0.340	0.351	0.010	3.2	20.0
1,3-Dichloropropane	0.877	0.801	0.010	-8.7	20.0
Tetrachloroethene	0.474	0.493	0.010	3.9	20.0
2-Hexanone	0.383	0.343	0.010	-10.5	20.0
Dibromochloromethane	0.499	0.607	0.010	21.5	20.0
1,2-Dibromoethane	0.537	0.566	0.010	5.4	20.0
Chlorobenzene	1.396	1.399	0.010	0.2	20.0

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590

Instrument ID: V1 Calibration Date: 04/02/2012 Time: 10:44

Lab File ID: V1M5752.D Init. Calib. Date(s): 03/29/2012 03/29/2012

EPA Sample No. (VSTD####) VSTD0501F Init. Calib. Time(s): 10:49 13:35

Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
1,1,1,2-Tetrachloroethane	0.513	0.553	0.010	7.8	20.0
Ethylbenzene	0.740	0.753	0.010	1.7	20.0
m,p-Xylene	0.927	0.937	0.010	1.0	20.0
o-Xylene	0.880	0.911	0.010	3.5	20.0
Xylene (Total)	0.912	0.928	0.010	1.8	20.0
Styrene	1.540	1.564	0.010	1.6	20.0
Bromoform	0.259	0.382	0.010	47.8	20.0
Isopropylbenzene	2.265	2.204	0.300	-2.7	20.0
1,1,2,2-Tetrachloroethane	1.179	1.115	0.300	-5.4	20.0
Bromobenzene	1.172	1.169	0.010	-0.3	20.0
1,2,3-Trichloropropane	1.463	1.196	0.010	-18.3	20.0
2-Chlorotoluene	0.983	0.953	0.010	-3.1	20.0
1,3,5-Trimethylbenzene	3.367	3.180	0.010	-5.6	20.0
4-Chlorotoluene	1.020	0.994	0.010	-2.5	20.0
tert-Butylbenzene	3.530	3.429	0.010	-2.8	20.0
1,2,4-Trimethylbenzene	3.362	3.267	0.010	-2.8	20.0
sec-Butylbenzene	4.134	3.832	0.010	-7.3	20.0
4-Isopropyltoluene	3.169	3.029	0.010	-4.4	20.0
1,3-Dichlorobenzene	2.044	2.073	0.010	1.4	20.0
1,4-Dichlorobenzene	2.102	2.155	0.010	2.6	20.0
1,2-Dichlorobenzene	1.875	1.907	0.010	1.7	20.0
1,2-Dibromo-3-chloropropane	0.160	0.150	0.010	-6.4	20.0
1,2,4-Trichlorobenzene	0.892	0.891	0.010	-0.2	20.0
Hexachlorobutadiene	0.382	0.374	0.010	-2.1	20.0
1,2,3-Trichlorobenzene	0.638	0.594	0.010	-6.9	20.0
Naphthalene	2.081	1.885	0.010	-9.4	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.408	0.405	0.010	-0.8	20.0
1,4-Dioxane	0.006	0.005	0.010	-22.2	20.0
Cyclohexane	0.623	0.572	0.010	-8.1	20.0
Methyl acetate	0.310	0.266	0.010	-14.2	20.0
Methylcyclohexane	0.585	0.578	0.010	-1.3	20.0

Spectrum Analytical, Inc. RI Division VI Injection Log
 Volatiles Laboratory
 METHOD: 8260W ANALYST: AED
 BATCH: 120402.B
 Start: 02-APR-12 09:41
 End: 02-APR-12 19:35

Comments:

Standards: BFB VLM11054A 2 uL
 BISS VLM20319A 2 uL
 STD VLM120329A 2 uL

Reviewed By: A430 Manual Integration: N/A MI Review: N/A

FILE	TIME	LAB ID	CLIENT ID	PREP	MT	BN	INTERNAL STDS	SURROGATES	DILUT	FLG	COMMENTS	pH
BATCH	FBZ	CBZ	DCB	DFM	DCE	TOL	BFB					
VLM5750	09:41	BFB1F	BFB1F	SL					1		OK	
VLM5751	10:04	VSTD0501F	VSTD0501F	AQ	100	100			1		NOT USED	
VLM5752	10:44	VSTD0501F	VSTD0501F	AQ	100	100			1		OK	
VLM5753	11:36	LCS-65365	LCS-65365	65365	AQ	107	104	95	97	96	95	
VLM5754	12:03	LCS-65365	LCS-65365	65365	AQ	104	100	96	104	91	100	
VLM5755	12:31	MB-65365	MB-65365	65365	AQ	102	97	89	101	100	100	
VLM5756	12:58	MB-65365	MB-65365	65365	AQ	101	96	90	102	95	101	
VLM5757	13:26	MB-65365	MB-65365	65365	AQ	99	95	87	103	93	98	
VLM5758	13:54	L0590-05A	TR032712	65365	AQ	97	94	89	103	96	98	
VLM5759	14:22	L0590-14A	DEC-0312712	65365	AQ	94	95	91	105	95	96	
VLM5760	14:50	L0590-01A	DEC-032	65365	AQ	94	94	90	106	100	96	
VLM5761	15:18	L0590-02A	DEC-066	65365	AQ	94	93	87	104	92	97	
VLM5762	15:46	L0590-03A	DEC-066D	65365	AQ	92	92	90	112	87	96	
VLM5763	16:15	L0590-07A	DEC-046D	65365	AQ	91	94	91	110	92	96	
VLM5764	16:43	L0590-08A	DEC-046	65365	AQ	90	96	88	110	89	91	
VLM5765	17:12	L0590-10A	DEC-089	65365	AQ	90	91	87	109	95	95	
VLM5766	17:41	L0590-12A	DEC-088	65365	AQ	89	92	89	106	95	94	
VLM5767	18:10	L0590-13A	DEC-088D	65365	AQ	91	93	89	110	93	93	
VLM5768	18:38	L0606-01A	B-103-OW	65365	AQ	88	90	89	109	106	95	
VLM5769	19:07	L0606-02A	MW-4-05	65365	AQ	90	91	89	109	97	94	
VLM5770	19:35	L0606-03A	MW-203-05	65365	AQ	88	93	92	110	101	93	

Z - One or more target compounds are above the calibration range
 R - One or more spike compounds are outside of control limits
 T - Sample was injected outside of the 12 hour sequence
 * - Internal Standard or surrogate outside of control limit
 D - Surrogates are diluted

AED 4/3/12

6C - FORM VI VOA-3
VOLATILE ORGANICS INITIAL CALIBRATION DATA
Contract:

Lab Name: Spectrum Analytical, Inc.

Lab Code: MITKEM Case No.: L0590 SAS No.: SDG No.: SL0590

Instrument ID: V10 Calibration Date(s): 03/30/2012 03/30/2012

Heated Purge: (Y/N) N Calibration Times: 11:39 14:15

Purge Volume: 5 (mL)

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (mm)

LAB FILE ID: RRF005 = V8B0285.D RRF020 = V8B0284.D RRF050 = V8B0283.D RRF100 = V8B0289.D RRF200 = V8B0288.D										
RRF001 = V8B0287.D										
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF001			RRF	% RSD
Dichlorodifluoromethane	0.201	0.194	0.142	0.176	0.176	0.187			0.180	11.6
Chloromethane	0.322	0.311	0.230	0.283	0.295	0.344			0.297	13.2
Vinyl chloride	0.281	0.272	0.202	0.255	0.253	0.279			0.257	11.5
Bromomethane	0.215	0.185	0.130	0.159	0.152	0.277			0.186	28.6
Chloroethane	0.156	0.153	0.113	0.135	0.130	0.179			0.144	16.1
Trichlorofluoromethane	0.372	0.361	0.266	0.324	0.328	0.380			0.339	12.4
1,1-Dichloroethene	0.301	0.289	0.212	0.278	0.272	0.317			0.278	13.0
Acetone	0.035	0.039	0.025	0.037	0.038				0.035	17.2
Iodomethane	0.236	0.290	0.241	0.308	0.324	0.169			0.261	22.0
Carbon disulfide	1.008	0.922	0.712	0.876	0.849	1.163			0.922	16.6
Methylene chloride	0.354	0.338	0.258	0.317	0.313	0.395			0.329	14.0
trans-1,2-Dichloroethene	0.318	0.307	0.231	0.295	0.289	0.335			0.296	12.1
Methyl tert-butyl ether	0.806	0.830	0.670	0.808	0.799	0.832			0.791	7.7
1,1-Dichloroethane	0.584	0.568	0.426	0.531	0.524	0.610			0.541	12.0
Vinyl acetate	0.905	0.970	0.793	0.932	0.914	0.862			0.896	6.9
2-Butanone	0.028	0.037	0.029	0.038	0.039				0.034	16.2
cis-1,2-Dichloroethene	0.348	0.339	0.261	0.328	0.323	0.335			0.322	9.7
2,2-Dichloropropane	0.442	0.439	0.332	0.404	0.408	0.441			0.411	10.3
Bromochloromethane	0.165	0.162	0.127	0.149	0.151	0.152			0.151	8.8
Chloroform	0.567	0.552	0.420	0.523	0.519	0.617			0.533	12.3
1,1,1-Trichloroethane	0.470	0.456	0.340	0.438	0.438	0.471			0.436	11.3
1,1-Dichloropropene	0.152	0.151	0.115	0.149	0.147	0.139			0.142	10.0
Carbon tetrachloride	0.397	0.391	0.294	0.378	0.377	0.399			0.373	10.7
1,2-Dichloroethane	0.412	0.410	0.324	0.386	0.388	0.451			0.395	10.6
Benzene	1.296	1.251	0.948	1.182	1.150	1.377			1.201	12.3
Trichloroethene	0.320	0.313	0.239	0.310	0.308	0.354			0.307	12.2
1,2-Dichloropropane	0.335	0.325	0.254	0.308	0.300	0.358			0.313	11.4

sem1111027A

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

SW846

6C - FORM VI VOA-3
VOLATILE ORGANICS INITIAL CALIBRATION DATA
Contract:

Lab Name: Spectrum Analytical, Inc.

Lab Code: MITKEM Case No.: L0590 SAS No.: SDG No.: SL0590

Instrument ID: V10 Calibration Date(s): 03/30/2012 03/30/2012

Heated Purge: (Y/N) N Calibration Times: 11:39 14:15

Purge Volume: 5 (mL)

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (mm)

LAB FILE ID: RRF005 = V8B0285.D RRF020 = V8B0284.D RRF050 = V8B0283.D RRF100 = V8B0289.D RRF200 = V8B0288.D										
RRF001 = V8B0287.D										
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF001			RRF	% RSD
Dibromomethane	0.199	0.201	0.164	0.195	0.197	0.210			0.194	8.2
Bromodichloromethane	0.399	0.405	0.325	0.398	0.404	0.458			0.398	10.7
cis-1,3-Dichloropropene	0.437	0.474	0.389	0.483	0.487	0.476			0.458	8.4
4-Methyl-2-pentanone	0.207	0.235	0.197	0.242	0.250				0.226	10.1
Toluene	1.287	1.264	0.966	1.219	1.194	1.425			1.226	12.3
trans-1,3-Dichloropropene	0.371	0.414	0.348	0.431	0.442	0.415			0.404	9.0
1,1,2-Trichloroethane	0.282	0.284	0.227	0.274	0.276	0.385			0.288	18.0
1,3-Dichloropropane	0.610	0.608	0.488	0.579	0.562	0.788			0.606	16.4
Tetrachloroethene	0.376	0.330	0.253	0.320	0.309	0.500			0.348	24.2
2-Hexanone	0.167	0.208	0.169	0.227	0.228				0.200	15.0
Dibromochloromethane	0.371	0.393	0.331	0.399	0.404	0.479			0.396	12.3
1,2-Dibromoethane	0.356	0.367	0.299	0.362	0.361	0.454			0.367	13.5
Chlorobenzene	1.106	1.044	0.817	0.996	0.964	1.407			1.056	18.7
1,1,1,2-Tetrachloroethane	0.373	0.365	0.293	0.354	0.353	0.478			0.369	16.3
Ethylbenzene	0.524	0.534	0.424	0.521	0.511	0.597			0.518	10.7
m,p-Xylene	0.665	0.661	0.527	0.632	0.603	0.719			0.634	10.3
o-Xylene	0.617	0.633	0.512	0.618	0.596	0.689			0.611	9.5
Xylene (Total)	0.649	0.652	0.522	0.627	0.600	0.709			0.627	10.0
Styrene	0.953	1.029	0.850	1.046	1.015	1.015			0.985	7.4
Bromoform	0.225	0.239	0.205	0.257	0.264	0.317			0.251	15.5
Isopropylbenzene	1.471	1.536	1.266	1.510	1.467	1.539			1.465	7.0
1,1,2,2-Tetrachloroethane	1.026	0.946	0.742	0.863	0.822	1.663			1.010	33.1
Bromobenzene	0.890	0.842	0.670	0.787	0.766	1.186			0.857	20.7
1,2,3-Trichloropropane	1.118	1.112	0.899	1.061	1.033	1.849			1.179	28.7
2-Chlorotoluene	0.801	0.772	0.615	0.714	0.688	0.942			0.755	14.9
1,3,5-Trimethylbenzene	2.465	2.509	2.065	2.330	2.219	2.674			2.377	9.2
4-Chlorotoluene	0.829	0.798	0.635	0.735	0.707	0.964			0.778	14.6

sem11.1027A

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

SW846

6C - FORM VI VOA-3
VOLATILE ORGANICS INITIAL CALIBRATION DATA
Contract:

Lab Name: Spectrum Analytical, Inc.

Lab Code: MITKEM Case No.: L0590 SAS No.: SDG No.: SL0590
Instrument ID: V10 Calibration Date(s): 03/30/2012 03/30/2012
Heated Purge: (Y/N) N Calibration Times: 11:39 14:15
Purge Volume: 5 (mL)
GC Column: DB-624 ID: 0.25 (mm) Length: 30 (mm)

LAB FILE ID: RRF005 = V8B0285.D RRF020 = V8B0284.D RRF050 = V8B0283.D RRF100 = V8B0289.D RRF200 = V8B0288.D										
RRF001 = V8B0287.D										
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF001			RRF	% RSD
tert-Butylbenzene	2.446	2.525	2.115	2.318	2.212	2.884			2.417	11.3
1,2,4-Trimethylbenzene	2.497	2.558	2.104	2.356	2.251	2.605			2.395	8.1
sec-Butylbenzene	2.979	3.048	2.598	2.799	2.660	3.130			2.869	7.5
4-Isopropyltoluene	2.424	2.464	2.104	2.280	2.173	2.588			2.339	7.9
1,3-Dichlorobenzene	1.570	1.449	1.170	1.343	1.285	1.999			1.469	20.0
1,4-Dichlorobenzene	1.628	1.497	1.203	1.380	1.316	2.283			1.551	25.0
1,2-Dichlorobenzene	1.543	1.425	1.134	1.299	1.227	2.037			1.444	22.5
1,2-Dibromo-3-chloropropane	0.139	0.131	0.100	0.133	0.121	0.170			0.132	17.3
1,2,4-Trichlorobenzene	0.671	0.663	0.541	0.712	0.645	0.424			0.609	17.6
Hexachlorobutadiene	0.425	0.350	0.294	0.303	0.276	0.453			0.350	21.0
1,2,3-Trichlorobenzene	0.649	0.595	0.449	0.642	0.537	0.375			0.541	20.4
Naphthalene	1.261	1.396	1.087	1.791	1.464	1.125			1.354	19.2
1,1,2-Trichloro-1,2,2-trifluoro	0.308	0.292	0.220	0.262	0.260	0.301			0.274	12.0
1,4-Dioxane	0.003	0.003	0.003	0.004	0.004	0.004			0.003	13.4
Cyclohexane	0.478	0.478	0.375	0.439	0.432	0.436			0.440	8.6
Methyl acetate	0.188	0.201	0.165	0.193	0.190	0.195			0.189	6.6
Methylcyclohexane	0.436	0.444	0.378	0.410	0.402	0.393			0.410	6.2

Spectrum Analytical, Inc. RI Division Volatiles Laboratory
 METHOD: 82401W ANALYST: GJA
 BATCH: 120330.B
 START: 30-MAR-12 09:45
 END: 30-MAR-12 16:30

Comments:

Standards: BFB V01111044 2 ul
 358 V0120326A AUTO ul
 STD V0120326A 20 ul
 TICV V0120358 20 ul

Reviewed By: [Signature] Manual Integration: GJA MI Review: [Signature] NOT GOOD FOR 2-CVE

FILE	TIME	LAB ID	CLIENT ID	PREP	MT EN	INTERNAL STDS					SURROGATES					DIAN FLG	COMMENTS	pH
						BATCH	FBZ	CBZ	DCB	DFM	DCE	TOL	BFB					
V8B0280	09:45	BFB10L	BFB10L	AQ											OK			
V8B0283	11:39	VSTD05010L	VSTD05010L	AQ		100	100	100						1	OK			
V8B0284	12:05	VSTD02010L	VSTD02010L	AQ		100	101	98						1	OK			
V8B0285	12:31	VSTD00510L	VSTD00510L	AQ		99	98	93						1	OK			
V8B0287	13:23	VSTD00110L	VSTD00110L	AQ		96	94	87						1	OK MI 20			
V8B0288	13:49	VSTD20010L	VSTD20010L	AQ		100	103	109						1	OK			
V8B0289	14:15	VSTD10010L	VSTD10010L	AQ		102	103	107						1	OK			
V8B0290	16:30	VICV05010L	VICV05010L	AQ		103	105	107	100	101	100	100		1	PER OK			

E - One or more target compounds are above the calibration range
 R - One or more spike compounds are outside of control limits
 T - Sample was injected outside of the 12 hour sequence
 * - Internal Standard or Surrogate outside of control limit
 D - Surrogates are diluted

[Signature] 4/1/12

Spectrum Analytical, Inc. RI Division VI Injection Log
Volatiles Laboratory

METHOD: 81609/014 ANALYST: AED
BATCH: 120329.B
Start: 29-MAR-12 10:22
End: 30-MAR-12 00:08

Comments:

Standards: BFB, V, W, H, D, V, A
1555, W, D, B, S, I, A
S, D, W, B, L, O, S, T, A
L, W, D, B, S, I, A, B

Reviewed By: *AK* Manual Integration: AED 3/30/12 MI Review:

FILE	TIME	LAB ID	CLIENT ID	PREP	MT	INT	INTERNAL	STDS	SURROGATES	DILN	FLG	COMMENTS	pH
				BATCH			FBZ	CBZ	DCB	DEF	DCE	TOL	BFB
VIMS690	10:22	BFBID	BFBID										
VIMS691	10:49	VSTD0501D	VSTD0501D										
VIMS692	11:16	VSTD0201D	VSTD0201D										
VIMS693	11:44	VSTD0051D	VSTD0051D										
VIMS694	12:12	VSTD0011D	VSTD0011D										
VIMS695	12:40	VSTD0011D	VSTD0011D										
VIMS696	13:08	VSTD2001D	VSTD2001D										
VIMS697	13:35	VSTD1001D	VSTD1001D										
VIMS698	15:00	VICV0501D	VICV0501D										
VIMS699	15:27	VBLK	VBLK										
VIMS700	15:55	LCS-65313	LCS-65313										
VIMS701	16:23	LCS-65313	LCS-65313										
VIMS702	16:51	MB-65313	MB-65313										
VIMS703	17:19	MB-65313	MB-65313										
VIMS704	17:47	MB-65313	MB-65313										
VIMS705	18:15	L0599-08A	L0599-08A										
VIMS706	18:43	L0603-01A	L0603-01A										
VIMS707	19:10	L0603-20C	L0603-20C										
VIMS708	19:37	L0603-02A	L0603-02A										
VIMS709	20:05	L0603-04A	L0603-04A										
VIMS710	20:32	L0603-06A	L0603-06A										
VIMS711	20:59	L0603-08A	L0603-08A										
VIMS712	21:26	L0603-17A	L0603-17A										
VIMS713	21:53	L0603-19A	L0603-19A										
VIMS714	22:20	L0599-01A	L0599-01A										
VIMS715	23:14	L0001-04A	L0001-04A										
VIMS716	23:41	L0001-05A	L0001-05A										
VIMS717	00:08	L0001-06A	L0001-06A										

E - One or more target compounds are above the calibration range
R - One or more spike compounds are outside of control limits
T - Sample was injected outside of the 12 hour sequence
* - Internal Standard or Surrogate outside of control limit
D - Surrogates are diluted

AED 3/30/12

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
 Instrument ID: V10 Calibration Date: 04/02/2012 Time: 10:52
 Lab File ID: V8B0302.D Init. Calib. Date(s): 03/30/2012 03/30/2012
 EPA Sample No. (VSTD####) VSTD05010M Init. Calib. Time(s): 11:39 14:15
 Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)
 Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
1,1,1,2-Tetrachloroethane	0.369	0.334	0.010	-9.7	20.0
Ethylbenzene	0.518	0.502	0.010	-3.2	20.0
m,p-Xylene	0.634	0.612	0.010	-3.5	20.0
o-Xylene	0.611	0.587	0.010	-4.0	20.0
Xylene (Total)	0.627	0.604	0.010	-3.7	20.0
Styrene	0.985	0.959	0.010	-2.6	20.0
Bromoform	0.251	0.217	0.010	-13.4	20.0
Isopropylbenzene	1.465	1.480	0.300	1.0	20.0
1,1,2,2-Tetrachloroethane -	1.010	0.770	0.300	-23.8	20.0
Bromobenzene	0.857	0.752	0.010	-12.2	20.0
1,2,3-Trichloropropane -	1.179	0.914	0.010	-22.5	20.0
2-Chlorotoluene	0.755	0.700	0.010	-7.3	20.0
1,3,5-Trimethylbenzene	2.377	2.308	0.010	-2.9	20.0
4-Chlorotoluene	0.778	0.715	0.010	-8.1	20.0
tert-Butylbenzene	2.417	2.355	0.010	-2.6	20.0
1,2,4-Trimethylbenzene	2.395	2.317	0.010	-3.3	20.0
sec-Butylbenzene	2.869	2.885	0.010	0.5	20.0
4-Isopropyltoluene	2.339	2.324	0.010	-0.6	20.0
1,3-Dichlorobenzene	1.469	1.306	0.010	-11.1	20.0
1,4-Dichlorobenzene	1.551	1.333	0.010	-14.1	20.0
1,2-Dichlorobenzene	1.444	1.244	0.010	-13.9	20.0
1,2-Dibromo-3-chloropropane -	0.132	0.102	0.010	-22.9	20.0
1,2,4-Trichlorobenzene	0.609	0.638	0.010	4.7	20.0
Hexachlorobutadiene	0.350	0.340	0.010	-3.0	20.0
1,2,3-Trichlorobenzene	0.541	0.536	0.010	-1.0	20.0
Naphthalene	1.354	1.262	0.010	-6.8	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.274	0.275	0.010	0.3	20.0
1,4-Dioxane	0.003	0.003	0.010	-11.3	20.0
Cyclohexane	0.440	0.456	0.010	3.7	20.0
Methyl acetate	0.189	0.164	0.010	-13.4	20.0
Methylcyclohexane	0.410	0.450	0.010	9.6	20.0

INJECTION LOG

Spectrum Analytical, Inc. RI Division
Volatiles Laboratory
METHOD: 8200W ANALYST: CJA
BATCH: 120402.B Start: 02-APR-12 09:51
ICAL DATE: 3/30/12 End: 02-APR-12 22:58

Comments:

Standards: 8200W 2
355 W120326A 20
510 W120329A 20

Reviewed By: J4312 Manual Integration: MI Review:

FILE	TIME	LAB ID	CLIENT ID	PREP	MT	BN	BATCH	FBZ	CBZ	DCB	DFM	DCE	TOL	BFB	DIIN	FLG	COMMENTS	pH
V8B0300	09:51	BFB10M	BFB10M				100	100	100	100	100	100	100	100	1	OK		
V8B0302	10:52	VSTD05010M	VSTD05010M				100	100	100	100	100	100	100	100	1	OK		
V8B0303	11:52	LCS-65366	LCS-65366				101	101	102	101	101	101	100	100	1	OK		
V8B0304	12:29	MB-65366	MB-65366				99	96	86	86	99	100	101	95	1	OK		
V8B0305	12:55	MB-65366	MB-65366				98	97	87	87	100	100	100	95	1	OK		
V8B0306	13:21	L0590-04A	DEC-030D				98	97	87	87	99	100	100	95	1	OK		
V8B0307	13:52	L0590-15A	DEC-091				95	93	86	86	100	101	100	97	1	OK		
V8B0308	14:18	L0590-16A	20120327-FD-1				96	96	89	89	100	100	101	97	1	OK		
V8B0309	14:44	L0590-17A	DEC-039				94	93	84	84	101	101	100	95	1	OK		
V8B0310	15:10	L0590-18A	DEC-022D				95	94	85	85	100	100	100	96	1	OK		
V8B0311	15:36	L0590-19A	DEC-009				93	93	84	84	100	100	100	96	1	OK		
V8B0312	16:02	L0590-20A	DEC-030				92	92	83	83	102	102	100	95	1	OK		
V8B0313	16:28	L0610-10A	SB-GW-5				90	90	81	81	101	101	100	96	1	OK		
V8B0314	16:54	L0610-11A	SB-GW-6				89	89	79	79	102	101	100	95	1	OK		
V8B0315	17:20	L0610-12A	SB-GW-7				88	88	80	80	102	101	100	96	1	OK		
V8B0316	17:46	L0610-13A	SB-GW-8				87	88	81	81	102	100	98	96	1	OK		
V8B0317	18:12	L0610-14A	DUP-AQ				86	86	76	76	103	103	100	94	1	OK		
V8B0318	18:38	VBLX	VBLX				86	85	75	75	103	102	99	94	1	OK		
V8B0319	19:04	L0610-15A	TB				86	85	75	75	102	102	100	94	1	OK		
V8B0320	19:30	VBLX	VBLX				87	87	75	75	102	102	98	101	1	OK		
V8B0321	19:56	L0590-04AMS	DEC-030DMS				89	90	93	93	103	102	98	100	1	OK		
V8B0322	20:22	L0590-04AMS	DEC-030DMS				89	92	94	94	103	102	98	100	1	OK		
V8B0323	20:48	L0610-12AMS	SB-GW-7MS				91	92	94	94	103	102	98	100	1	OK		
V8B0324	21:14	L0610-12AMS	SB-GW-7MSD				91	94	95	95	102	101	98	100	1	OK		
V8B0325	21:40	VBLX	VBLX				89	89	82	82	102	100	100	96	1	OK		
V8B0326	22:06	L0559-02A	R9040212				86	87	77	77	102	100	100	95	1	OK		
V8B0327	22:32	L0559-02B	R10040212				85	85	75	75	103	101	100	94	1	OK		
V8B0328	22:58	VBLX	VBLX				82	82	72	72	103	100	100	94	1	OK		

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
 Instrument ID: V10 Calibration Date: 04/03/2012 Time: 8:34
 Lab File ID: V8B0331.D Init. Calib. Date(s): 03/30/2012 03/30/2012
 EPA Sample No. (VSTD####) VSTD05010N Init. Calib. Time(s): 11:39 14:15
 Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)
 Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
1,1,1,2-Tetrachloroethane	0.369	0.336	0.010	-8.9	20.0
Ethylbenzene	0.518	0.503	0.010	-3.1	20.0
m,p-Xylene	0.634	0.617	0.010	-2.7	20.0
o-Xylene	0.611	0.600	0.010	-1.8	20.0
Xylene (Total)	0.627	0.611	0.010	-2.4	20.0
Styrene	0.985	0.984	0.010	-0.1	20.0
Bromoform	0.251	0.221	0.010	-11.9	20.0
Isopropylbenzene	1.465	1.505	0.300	2.7	20.0
1,1,2,2-Tetrachloroethane -	1.010	0.779	0.300	-22.9	20.0
Bromobenzene	0.857	0.753	0.010	-12.1	20.0
1,2,3-Trichloropropane -	1.179	0.940	0.010	-20.3	20.0
2-Chlorotoluene	0.755	0.703	0.010	-6.9	20.0
1,3,5-Trimethylbenzene	2.377	2.356	0.010	-0.9	20.0
4-Chlorotoluene	0.778	0.726	0.010	-6.7	20.0
tert-Butylbenzene	2.417	2.410	0.010	-0.3	20.0
1,2,4-Trimethylbenzene	2.395	2.371	0.010	-1.0	20.0
sec-Butylbenzene	2.869	2.981	0.010	3.9	20.0
4-Isopropyltoluene	2.339	2.385	0.010	2.0	20.0
1,3-Dichlorobenzene	1.469	1.309	0.010	-10.9	20.0
1,4-Dichlorobenzene	1.551	1.342	0.010	-13.5	20.0
1,2-Dichlorobenzene	1.444	1.251	0.010	-13.4	20.0
1,2-Dibromo-3-chloropropane -	0.132	0.097	0.010	-26.7	20.0
1,2,4-Trichlorobenzene	0.609	0.554	0.010	-9.1	20.0
Hexachlorobutadiene	0.350	0.328	0.010	-6.4	20.0
1,2,3-Trichlorobenzene	0.541	0.440	0.010	-18.7	20.0
Naphthalene -	1.354	0.999	0.010	-26.2	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.274	0.289	0.010	5.4	20.0
1,4-Dioxane	0.003	0.003	0.010	-4.6	20.0
Cyclohexane	0.440	0.483	0.010	9.8	20.0
Methyl acetate	0.189	0.184	0.010	-2.7	20.0
Methylcyclohexane	0.410	0.473	0.010	15.3	20.0

INJECTION LOG

Spectrum Analytical, Inc. RI Division Volatiles Laboratory
V10 Injection Log
METHOD: 3200 W ANALYST: JGA
ICAL DATE: 3/30/12
BATCH: 120403.B Start: 03-APR-12 08:17
End: 03-APR-12 19:51

Comments:

Standards: BFB VOLATILE 2 uL
ISX W01203204 AUTO uL
STD W01203204 00 uL

Reviewed By: J4442 Manual Integration: MI Review:

FILE	TIME	LAB ID	CLIENT ID	PREP BATCH	PREP INT	EN	INTERNAL STDS	SURROGATES	DILN	FLG	COMMENTS	pH
V8B0330	08:17	BFB10N	BFB10N		AQ							
V8B0331	08:34	VSTD05010N	VSTD05010N		AQ							
V8B0333	10:04	LCS-65380	LCS-65380		104	105	103	102	102	97	100	
V8B0334	10:42	MB-65380	MB-65380		102	99	87	102	101	100	96	
V8B0335	11:08	MB-65380	MB-65380		100	98	86	103	102	99	95	
V8B0336	11:34	L0610-15A	TS		98	96	84	103	103	100	95	
V8B0337	12:00	L0607-12A	TRIP BLANK 2		97	95	83	104	101	100	94	
V8B0338	12:26	L0590-17A	DEC-039		96	94	82	103	101	100	95	
V8B0339	12:52	L0590-19A	DEC-009		94	94	83	104	102	98	95	
V8B0340	13:18	L0590-16ADL	20120327-FD-10N		93	93	80	104	103	99	93	
V8B0341	13:44	L0590-18ADL	DEC-022DDL		92	92	79	105	104	98	94	
V8B0342	14:10	L0590-20ADL	DEC-030DL		92	92	79	105	102	98	94	
V8B0343	14:36	L0610-10ADL	SB-GW-5DL		90	89	79	104	103	98	93	
V8B0344	15:02	L0610-11ADL	SB-GW-6DL		89	90	79	106	103	98	93	
V8B0345	15:28	L0610-12ADL	SB-GW-7DL		88	89	78	106	104	98	93	
V8B0346	15:54	L0610-13ADL	SB-GW-8DL		88	89	78	107	104	97	93	
V8B0347	16:20	L0610-14ADL	DUP-AQDL		88	88	78	107	105	98	93	
V8B0348	16:47	L0607-11A	FD-03272012-2		86	88	79	108	106	98	94	
V8B0349	17:13	L0607-13A	DEC-015		86	87	78	109	105	97	94	
V8B0350	17:39	L0607-14A	DEC-029D		87	88	79	107	105	98	94	
V8B0351	18:06	L0607-15A	DEC-029		87	92	85	107	105	94	95	
V8B0352	18:32	L0607-16A	DEC-015R		85	87	77	109	106	97	94	
V8B0353	18:58	L0607-14AMS	DEC-029DMS		90	98	102	106	104	93	101	
V8B0354	19:25	L0607-14MSD	DEC-029DMSD		94	100	104	106	105	94	102	
V8B0355	19:51	VB1X	VB1X		AQ	91	93	85	106	105	96	

E - One or more target compounds are above the calibration range
S - One or more spike compounds are outside of control limits
D - Sample was injected outside of the 12 hour sequence
I - Internal Standard or Surrogate outside of control limit
D - Surrogates are diluted

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-65366

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-65366
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0305.D
Level: (TRACE/LOW/MED) LOW Date Received: _____
% Moisture: not dec. Date Analyzed: 04/02/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/L Q
127-18-4	Tetrachloroethene	1.1	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

MB-65366

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0590 Mod. Ref No.: _____ SDG No.: SL0590
Lab File ID: V8B0305.D Lab Sample ID: MB-65366
Instrument ID: V10
Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 04/02/2012
Level: (TRACE or LOW/MED) LOW Time Analyzed: 12:55
GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS-65366	LCS-65366	V8B0303.D	11:52
02	DEC-030D	L0590-04A	V8B0306.D	13:21
03	DEC-091	L0590-15A	V8B0307.D	13:52
04	20120327-FD-1	L0590-16A	V8B0308.D	14:18
05	DEC-022D	L0590-18A	V8B0310.D	15:10
06	DEC-030	L0590-20A	V8B0312.D	16:02
07	DEC-030DMS	L0590-04AMS	V8B0321.D	19:56
08	DEC-030DMSD	L0590-04AMSD	V8B0322.D	20:22

COMMENTS: _____

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Klink Cosmo Meeker

Laboratory Workorder / SDG #: L0590

**EPA 300.0, SM 2320B, SM 4500B5-E P, SM 4500B-C N Org, SM
4500D S-**

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
EPA 300.0, SM 2320B, SM 4500B5-E P, SM 4500B-C N Org, SM
4500D S-

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: EPA 300.0, SM 2320B, SM 4500B5-E P, SM 4500B-C N Org, SM 4500D S-

V. INSTRUMENTATION

The following instrumentation was used to perform

Instrument Code: IC1

Instrument Type: IC

Description: DX-500

Manufacturer: Dionex

Model: DX-500

GC Column used: 0.25 m X 4 mm ID [um thickness] AS14A-7 capillary column.

Instrument Code: MANUAL

Instrument Type: WC

Instrument Code: SPEC2

Instrument Type: SP

Description: Spectronic 20 Genesys

Manufacturer: Spectronic Instruments

Model: 4004-000

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: DEC-030D (L0590-04DMS) and DEC-030D (L0590-04DMSD) for Chloride and Sulfate.

Percent recoveries were within the QC limits with the following exceptions:

DEC-030D (L0590-04DMS), recovery is below criteria for Chloride at 60% with criteria of (80-120).

DEC-030D (L0590-04DMSD), recovery is below criteria for Chloride at 49% with criteria of (80-120).

Percent RPDs were within the QC limits.

Matrix spike was performed on sample: DEC-030D (L0590-04BMS) for Sulfide, DEC-030D (L0590-04CMS) for Phosphorus and TKN and DEC-030D (L0590-04DMS) for Alkalinity.

Spike recovery was within the QC limits for all analyses.

D. Duplicate sample:

Duplicate analysis was performed on sample: DEC-030D (L0590-04BDUP) for Sulfide, DEC-030D (L0590-04CDUP) for Phosphorus and TKN and DEC-030D (L0590-04DDUP) for Alkalinity.

Percent RPD was within the QC limits for all analyses.

E. Dilutions:

The following samples were analyzed at dilution:

DEC-032 (L0590-01D), dilution factor: 5 for Chloride
DEC-066 (L0590-02D), dilution factor: 5 for Chloride
DEC-066D (L0590-03D), dilution factor: 5 for Chloride and Sulfate
DEC-030D (L0590-04C), dilution factor: 2 for Phosphorus (As P)
DEC-030D (L0590-04CDUP), dilution factor: 2 for Phosphorus (As P)
DEC-030D (L0590-04CMS), dilution factor: 2 for Phosphorus (As P)
DEC-030D (L0590-04D), dilution factor: 5 for Chloride and Sulfate
DEC-030D (L0590-04DMS), dilution factor: 5 for Chloride and Sulfate
DEC-030D (L0590-04DMSD), dilution factor: 5 for Chloride and Sulfate
DEC-006D (L0590-06C), dilution factor: 2 for Phosphorus (As P)
DEC-006D (L0590-06D), dilution factor: 5 for Chloride
DEC-046D (L0590-07C), dilution factor: 2 for Phosphorus (As P)
DEC-046D (L0590-07D), dilution factor: 5 for Chloride and Sulfate
DEC-046 (L0590-08C), dilution factor: 2 for Phosphorus (As P)
DEC-046 (L0590-08D), dilution factor: 5 for Chloride
DEC-06DD (L0590-09C), dilution factor: 2 for Phosphorus (As P)
DEC-06DD (L0590-09D), dilution factor: 5 for Chloride and Sulfate

DEC-089D (L0590-11D), dilution factor: 5 for Chloride and Sulfate
DEC-088 (L0590-12C), dilution factor: 2 for Phosphorus (As P)
DEC-088 (L0590-12D), dilution factor: 5 for Chloride
DEC-088D (L0590-13C), dilution factor: 2 for Phosphorus (As P)
DEC-088D (L0590-13D), dilution factor: 5 for Chloride
DEC-091 (L0590-15C), dilution factor: 2 for Phosphorus (As P)
DEC-091 (L0590-15D), dilution factor: 5 for Chloride
20120327-FD-1 (L0590-16C), dilution factor: 2 for Phosphorus (As P)
20120327-FD-1 (L0590-16D), dilution factor: 5 for Chloride
DEC-039 (L0590-17C), dilution factor: 2 for Phosphorus (As P)
DEC-039 (L0590-17D), dilution factor: 5 for Chloride
DEC-022D (L0590-18C), dilution factor: 2 for Phosphorus (As P)
DEC-022D (L0590-18D), dilution factor: 5 for Chloride
DEC-009 (L0590-19C), dilution factor: 2 for Phosphorus (As P)
DEC-009 (L0590-19D), dilution factor: 5 for Chloride
DEC-030 (L0590-20C), dilution factor: 2 for Phosphorus (As P)
DEC-030 (L0590-20D), dilution factor: 5 for Chloride

F. Samples:

The Nitrate/Nitrite analyses were performed by Spectrum Analytical, Inc., featuring Hanibal Technology of Agawam, MA. The Spectrum Analytical Agawam report has been submitted following the Spectrum RI data report.

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum RI, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed: 

Date: 04/16/12

ANALYTICAL QC SUMMARY REPORT

E300IC W

EPA 300.0 -- Ion Chromatography (LOW)

CLIENT: URS Corporation

Work Order: L0590

Project: Klink Cosmo Meeker

Sample ID: MB-65353	SampType: MBLK	TestCode: E300IC_W	Prep Date: 04/02/12 8:00	Run ID: IC1_120402A
Client ID: MB-65353	Batch ID: 65353	Units: mg/L	Analysis Date: 04/02/12 9:36	SeqNo: 1717047
Analyte	Result	MDL	RL	SPK value
Chloride	0.5729	0.25	2.0	
Sulfate	ND	0.32	5.0	
				SPK Ref Val
				%REC LowLimit HighLimit
				RPD Ref Val
				%RPD RPDLimit
				Qual

Sample ID: LCS-65353	Sample Type: LCS	Test Code: E300IC_W	Prep Date: 04/02/12 8:00	Run ID: IC1_120402A
Client ID: LCS-65353	Batch ID: 65353	Units: mg/L	Analysis Date: 04/02/12 9:48	SeqNo: 1717048
Analyte	Result	MDL	RL	SPK value
Chloride	16.77	0.25	2.0	16.00
Sulfate	38.99	0.32	5.0	40.00
				%REC LowLimit HighLimit
				SPK Ref Val
				RPD Ref Val
				%RPD RPDLimit
				Qual
				B

Sample ID: L0590-04DMS	SampType: MS	TestCode: E300C_W	Prep Date: 04/02/12 8:00	Run ID: IC1_120402A
Client ID: DEC-030D	Batch ID: 65353	Units: mg/L	Analysis Date: 04/02/12 15:43	SeqNo: 1717040
Analyte	Result	MDL	RL	SPK value
Chloride	219.8	1.3	10	16.00
Sulfate	191.0	1.6	25	40.00
				SPK Ref Val
				%REC LowLimit
				HighLimit
				RPD Ref Val
				%RPD RPDLimit
				Qual
				BS

Sample ID: L0590-04DMSD	SampType: MSD	TestCode: E300IC_W	Prep Date: 04/02/12 8:00	Run ID: IC1_120402A
Client ID: DEC-030D	Batch ID: 65353	Units: mg/L	Analysis Date: 04/02/12 15:55	SeqNo: 1717041
Analyte	Result	MDL	RL	SPK value
Chloride	218.0	1.3	10	16.00
Sulfate	190.7	1.6	25	40.00
				SPK Ref Val
				%REC LowLimit
				HighLimit
				RPD Ref Val
				%RPD RPDLimit
				Qual

sample 74x spike and

CASE NARRATIVE

Spectrum Analytical, Inc. Lab Reference No. SB46397

Client: Spectrum Analytical, Inc.-- RI Division

Project: See Chain of Custody / L0590

SDG #: 46397

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception or a communication form is included in the addendum with this package.

II. HOLDING TIMES

All samples were prepared and analyzed within the method-specific holding time.

III. METHODS

Analyses were performed according to EPA 353.2.

IV. PREPARATION

Aqueous samples were prepared according to General Preparation.

V. INSTRUMENTATION

The following equipment was used to analyze EPA 353.2:

Lachat2 details: Lachat Quikchem 8000

VI. ANALYSIS

A. Calibration:

All quality control samples were within the acceptance criteria.

B. Blanks:

All blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Samples (LCS):

All method criteria were met.

2. Matrix Spike / Matrix Spike Duplicate Samples (MS/MSD):

A matrix spike and a matrix spike duplicate were analyzed:

In batch 1207690 from source sample DEC-030D (SB46397-04).

In batch 1207793 from source sample DEC-088D (SB46397-12).

All method criteria were met.

3. Reference:

All method criteria were met.

D. Duplicates:

A duplicate was analyzed.

In batch 1207690 from source sample DEC-030D (SB46397-04).

In batch 1207793 from source sample DEC-088D (SB46397-12).

All method criteria were met.

E. Samples:

All method criteria were met with the following exceptions:

Nitrate/Nitrite as N in batch 1207690, samples DEC-006D (SB46397-05), DEC-030D (SB46397-04), DEC-046 (SB46397-07), DEC-046D (SB46397-06), DEC-066D (SB46397-03), DEC-06DD (SB46397-08), DEC-088 (SB46397-11), DEC-089 (SB46397-09), DEC-089D (SB46397-10): Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Nitrate/Nitrite as N in batch 1207690, samples DEC-032 (SB46397-01), DEC-066 (SB46397-02): The Reporting Limit has been raised to account for matrix interference.

Nitrate/Nitrite as N in batch 1207793, samples 20120327-FD-1 (SB46397-14), DEC-009 (SB46397-17), DEC-022D (SB46397-16), DEC-030 (SB46397-18), DEC-039 (SB46397-15), DEC-088D (SB46397-12): Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Nitrate/Nitrite as N in batch 1207793, sample DEC-091 (SB46397-13): The Reporting Limit has been raised to account for matrix interference.

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Klink Cosmo Meeker

Laboratory Workorder / SDG #: L0607

SW846 8260C, VOC by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8260C

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW5030

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: V1
Instrument Type: GCMS-VOA
Description: HP5890 II / HP5972
Manufacturer: Hewlett-Packard
Model: 5890 / 5972
GC Column used: 30 m X 0.25 mm ID [1.40 um thickness] DB-624
capillary column.

Instrument Code: V10
Instrument Type: GCMS-VOA
Description: HP7890A
Manufacturer: Agilent
Model: 7890A / 5975C
GC Column used: 30 m X 0.25 mm ID [1.40 um thickness] DB-624
capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: DEC-029D (L0607-14AMS) and DEC-029D (L0607-14AMSD).

Percent recoveries were within the QC limits with the following exceptions:

DEC-029D (L0607-14AMS)Percent Recovery is outside QC Limits, recovery is above criteria for 1,4-Dioxane at 132% with criteria of (70-130).

DEC-029D (L0607-14AMSD)Percent Recovery is outside QC Limits, recovery is above criteria for 1,4-Dioxane at 135% with criteria of (70-130).

Replicate RPDs were within the advisory QC limits.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

The following samples were analyzed at dilution:

DEC-090 (L0607-04ADL) : Dilution Factor: 200
DEC-014R (L0607-06ADL) : Dilution Factor: 500
DEC-064 (L0607-08ADL) : Dilution Factor: 2
DEC-029 (L0607-15ADL) : Dilution Factor: 500
DEC-015D (L0607-18ADL) : Dilution Factor: 5

G. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.



Signed:_____

Date:_____4/17/2012_____

CHAIN OF CUSTODY RECORD

PROJECT NO.

SITE NAME

Link Cosmo

SAMPLERS (PRINT/SIGNATURE)

Don Boyd *Don Boyd* *Shahid M. Abdelaziz*

Carrier pickup

DELIVERY SERVICE:

AIRBILL NO.:

LOCATION IDENTIFIER

DATE

TIME

COMPI/GRAB

SAMPLEID

MATRIX

TOTAL NO. OF CONTAINERS

40 mL WCA

250 mL WCA

250 mL WCA

250 mL WCA

250 mL WCA

250 mL WCA

250 mL WCA

250 mL WCA

250 mL WCA

DEC-0910

3/27/12

15:00

Grab

DEC-0910

WG

5

2

1

1

1

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1

DEC-045

1655

1

DEC-045

WG

5

2

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1

DEC-045D

1740

1

DEC-045D

WG

5

2

1

1

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1

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1

1

DEC-090

3/28/12

0920

1

DEC-090

WG

5

2

1

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1

1

DEC-090D

0930

1

DEC-090D

WG

5

2

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1

DEC-014R

1140

1

DEC-014R

WG

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DEC-014D

1230

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DEC-014D

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DEC-064

1405

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DEC-064

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DEC-064D

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DEC-064D

1455

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DEC-064D

CHAIN OF CUSTODY RECORD

PROJECT NO.

SITE NAME

KLINIC COSMO

SAMPLERS (PRINT/SIGNATURE)

John Boyd, Mira Abdelaziz, Jma Gladys

DELIVERY SERVICE:

AIRBILL NO.:

LOCATION IDENTIFIER

DATE

TIME

COMP/GRAB

SAMPLE ID

MATRIX

TOTAL NO. OF CONTAINERS

WQ

WQ

WQ

WQ

WQ

WQ

WQ

WQ

WQ

WQ

WQ

WQ

WQ

WQ

WQ

WQ

WQ

WQ

DEC-014D

DEC-015

DEC-029D

DEC-029D MS

DEC-029D MSD

DEC-029

DEC-015R

Thup Blank

Thup Blank

Thup Blank

Thup Blank

Thup Blank

Thup Blank

Thup Blank

Thup Blank

DEC-014D

DEC-015

DEC-029D

DEC-029D MS

DEC-029D MSD

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DEC-015R

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DEC-015R

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Spectrum Analytical, Inc. RI Division Sample Condition Notification

Project#: 10607Date of Receipt: 3/29/12Client: URS

Received By: _____

Client project #/name: KLink Cosmo

Unusual Occurance Description:

we received 1 full set ~~with~~2 HCL VOA1 500mL Zinc Acetate NaOH1 500mL H₂SO₄1 500mL USwith I.D. FD 03272012 -2 + 2 HCL TripBLANK

Client Contacted:

Contacted via: Phone/Fax/E-mail

Date: 4/3/12 Time: _____Contacted By: AgnesName of person contacted: George

Not on Cod

Client Response:

Responded via: Phone/Fax/E-mail

Date: _____

Name of person responding: _____

Responding to: _____

Action Taken:

Logged samples in for analysis

Spectrum Analytical, Inc. RI Division Sample Condition NotificationProject#: 11176390.00002Date of Receipt: 3/30/12Client: URS BuffaloReceived By: JVClient project #/name: Klink Cosmo Meeker**Unusual Occurance Description:**

Sample DEC-015D was not written on
the chain. I logged it in as LO607-18.

Client Contacted:Contacted via: Phone/Fax/E-mailDate: 4/3/12 Time: _____Contacted By: AgnisName of person contacted: George**Client Response:**

Responded via: Phone/Fax/E-mail

Date: _____

Name of person responding: _____

Responding to: _____

Action Taken: Logged samples in for analysis

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-65383

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-65383
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0364.D
Level: (TRACE/LOW/MED) LOW Date Received: _____
% Moisture: not dec. Date Analyzed: 04/03/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/L
127-18-4	Tetrachloroethene	2.3	Q
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

MB-65383

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Lab File ID: V8B0364.D Lab Sample ID: MB-65383
Instrument ID: V10
Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 04/03/2012
Level: (TRACE or LOW/MED) LOW Time Analyzed: 23:46
GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS-65383	LCS-65383	V8B0360.D	22:01
02	LCSD-65383	LCSD-65383	V8B0361.D	22:27
03	DEC-015D	L0607-18A	V8B0367.D	1:04

COMMENTS: _____

6C - FORM VI VOA-3
VOLATILE ORGANICS INITIAL CALIBRATION DATA
Contract:

Lab Name: Spectrum Analytical, Inc.

Lab Code: MITKEM Case No.: I0607 SAS No.: SDG No.: SL0607

Instrument ID: V10 Heated Purge: (Y/N) N Calibration Date(s): 03/30/2012 03/30/2012

Purge Volume: 5 Calibration Times: 11:39 14:15

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (mm)

LAB FILE ID: RRF005 = V8B0285.D RRF020 = V8B0284.D RRF050 = V8B0283.D RRF100 = V8B0289.D RRF200 = V8B0288.D

RRF001 = V8B0287.D

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF001	RRF	% RSD
Dichlorodifluoromethane	0.201	0.194	0.142	0.176	0.176	0.187	0.180	11.6
Chloromethane	0.322	0.311	0.230	0.283	0.295	0.344	0.297	13.2
Vinyl chloride	0.281	0.272	0.202	0.255	0.253	0.279	0.257	11.5
Bromomethane	0.215	0.185	0.130	0.159	0.152	0.277	0.186	28.6
Chloroethane	0.156	0.153	0.113	0.135	0.130	0.179	0.144	16.1
Trichlorofluoromethane	0.372	0.361	0.266	0.324	0.328	0.380	0.339	12.4
1,1-Dichloroethene	0.301	0.289	0.212	0.278	0.272	0.317	0.278	13.0
Acetone	0.035	0.039	0.025	0.037	0.038		0.035	17.2
Iodomethane	0.236	0.290	0.241	0.308	0.324	0.169	0.261	22.0
Carbon disulfide	1.008	0.922	0.712	0.876	0.849	1.163	0.922	16.6
Methylene chloride	0.354	0.338	0.258	0.317	0.313	0.395	0.329	14.0
trans-1,2-Dichloroethene	0.318	0.307	0.231	0.295	0.289	0.335	0.296	12.1
Methyl tert-butyl ether	0.806	0.830	0.670	0.808	0.799	0.832	0.791	7.7
1,1-Dichloroethane	0.584	0.568	0.426	0.531	0.524	0.610	0.541	12.0
Vinyl acetate	0.905	0.970	0.793	0.932	0.914	0.862	0.896	6.9
2-Butanone	0.028	0.037	0.029	0.038	0.039		0.034	16.2
cis-1,2-Dichloroethene	0.348	0.339	0.261	0.328	0.323	0.335	0.322	9.7
2,2-Dichloropropane	0.442	0.439	0.332	0.404	0.408	0.441	0.411	10.3
Bromochloromethane	0.165	0.162	0.127	0.149	0.151	0.152	0.151	8.8
Chloroform	0.567	0.552	0.420	0.523	0.519	0.617	0.533	12.3
1,1,1-Trichloroethane	0.470	0.456	0.340	0.438	0.438	0.471	0.436	11.3
1,1-Dichloropropene	0.152	0.151	0.115	0.149	0.147	0.139	0.142	10.0
Carbon tetrachloride	0.397	0.391	0.294	0.378	0.377	0.399	0.373	10.7
1,2-Dichloroethane	0.412	0.410	0.324	0.386	0.388	0.451	0.395	10.6
Benzene	1.296	1.251	0.948	1.182	1.150	1.377	1.201	12.3
Trichloroethene	0.320	0.313	0.239	0.310	0.308	0.354	0.307	12.2
1,2-Dichloropropane	0.335	0.325	0.254	0.308	0.300	0.358	0.313	11.4

sem111027A

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

SW846

6C - FORM VI VOA-3
VOLATILE ORGANICS INITIAL CALIBRATION DATA
Contract:

Lab Name: Spectrum Analytical, Inc.

Lab Code: MITKEM Case No.: L0607 SAS No.: SDG No.: SL0607

Instrument ID: V10 Heated Purge: (Y/N) N Calibration Date(s): 03/30/2012 03/30/2012

Purge Volume: 5 Calibration Times: 11:39 14:15

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (mm)

LAB FILE ID: RRF005 = V8B0285.D RRF020 = V8B0284.D RRF050 = V8B0283.D RRF100 = V8B0289.D RRF200 = V8B0288.D

RRF001 = V8B0287.D

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF001	RRF	% RSD
Dibromomethane	0.199	0.201	0.164	0.195	0.197	0.210	0.194	8.2
Bromodichloromethane	0.399	0.405	0.325	0.398	0.404	0.458	0.398	10.7
cis-1,3-Dichloropropene	0.437	0.474	0.389	0.483	0.487	0.476	0.458	8.4
4-Methyl-2-pentanone	0.207	0.235	0.197	0.242	0.250		0.226	10.1
Toluene	1.287	1.264	0.966	1.219	1.194	1.425	1.226	12.3
trans-1,3-Dichloropropene	0.371	0.414	0.348	0.431	0.442	0.415	0.404	9.0
1,1,2-Trichloroethane	0.282	0.284	0.227	0.274	0.276	0.385	0.288	18.0
1,3-Dichloropropane	0.610	0.608	0.488	0.579	0.562	0.788	0.606	16.4
Tetrachloroethene	0.376	0.330	0.253	0.320	0.309	0.500	0.348	24.2
2-Hexanone	0.167	0.208	0.169	0.227	0.228		0.200	15.0
Dibromochloromethane	0.371	0.393	0.331	0.399	0.404	0.479	0.396	12.3
1,2-Dibromoethane	0.356	0.367	0.299	0.362	0.361	0.454	0.367	13.5
Chlorobenzene	1.106	1.044	0.817	0.996	0.964	1.407	1.056	18.7
1,1,1,2-Tetrachloroethane	0.373	0.365	0.293	0.354	0.353	0.478	0.369	16.3
Ethylbenzene	0.524	0.534	0.424	0.521	0.511	0.597	0.518	10.7
m,p-Xylene	0.665	0.661	0.527	0.632	0.603	0.719	0.634	10.3
o-Xylene	0.617	0.633	0.512	0.618	0.596	0.689	0.611	9.5
Xylene (Total)	0.649	0.652	0.522	0.627	0.600	0.709	0.627	10.0
Styrene	0.953	1.029	0.850	1.046	1.015	1.015	0.985	7.4
Bromoform	0.225	0.239	0.205	0.257	0.264	0.317	0.251	15.5
Isopropylbenzene	1.471	1.536	1.266	1.510	1.467	1.539	1.465	7.0
1,1,2,2-Tetrachloroethane	1.026	0.946	0.742	0.863	0.822	1.663	1.010	33.1
Bromobenzene	0.890	0.842	0.670	0.787	0.766	1.186	0.857	20.7
1,2,3-Trichloropropane	1.118	1.112	0.899	1.061	1.033	1.849	1.179	28.7
2-Chlorotoluene	0.801	0.772	0.615	0.714	0.688	0.942	0.755	14.9
1,3,5-Trimethylbenzene	2.465	2.509	2.065	2.330	2.219	2.674	2.377	9.2
4-Chlorotoluene	0.829	0.798	0.635	0.735	0.707	0.964	0.778	14.6

sm111027A

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

SW846

6C - FORM VI VOA-3
VOLATILE ORGANICS INITIAL CALIBRATION DATA
Contract:

Lab Name: Spectrum Analytical, Inc.

Lab Code: MITKEM Case No.: L0607 SAS No.: SDG No.: SL0607

Instrument ID: V10 Calibration Date(s): 03/30/2012 03/30/2012

Heated Purge: (Y/N) N Calibration Times: 11:39 14:15

Purge Volume: 5 (mL)

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (mm)

LAB FILE ID: RRF005 = V8B0285.D RRF020 = V8B0284.D RRF050 = V8B0283.D RRF100 = V8B0289.D RRF200 = V8B0288.D

RRF001 = V8B0287.D

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF001	RRF	% RSD
tert-Butylbenzene	2.446	2.525	2.115	2.318	2.212	2.884	2.417	11.3
1,2,4-Trimethylbenzene	2.497	2.558	2.104	2.356	2.251	2.605	2.395	8.1
sec-Butylbenzene	2.979	3.048	2.598	2.799	2.660	3.130	2.869	7.5
4-Isopropyltoluene	2.424	2.464	2.104	2.280	2.173	2.588	2.339	7.9
1,3-Dichlorobenzene	1.570	1.449	1.170	1.343	1.285	1.999	1.469	20.0
1,4-Dichlorobenzene	1.628	1.497	1.203	1.380	1.316	2.283	1.551	25.0
1,2-Dichlorobenzene	1.543	1.425	1.134	1.299	1.227	2.037	1.444	22.5
1,2-Dibromo-3-chloropropane	0.139	0.131	0.100	0.133	0.121	0.170	0.132	17.3
1,2,4-Trichlorobenzene	0.671	0.663	0.541	0.712	0.645	0.424	0.609	17.6
Hexachlorobutadiene	0.425	0.350	0.294	0.303	0.276	0.453	0.350	21.0
1,2,3-Trichlorobenzene	0.649	0.595	0.449	0.642	0.537	0.375	0.541	20.4
Naphthalene	1.261	1.396	1.087	1.791	1.464	1.125	1.354	19.2
1,1,2-Trichloro-1,2,2-trifluoro	0.308	0.292	0.220	0.262	0.260	0.301	0.274	12.0
1,4-Dioxane	0.003	0.003	0.003	0.004	0.004	0.004	0.003	13.4
Cyclohexane	0.478	0.478	0.375	0.439	0.432	0.436	0.440	8.6
Methyl acetate	0.188	0.201	0.165	0.193	0.190	0.195	0.189	6.6
Methylcyclohexane	0.436	0.444	0.378	0.410	0.402	0.393	0.410	6.2

Spectrum Analytical, Inc. RI Division
Volatiles Laboratory
V10 Injection Log
METHOD: 8260W ANALYST: GA
BATCH: 120330.B
Start: 30-MAR-12 09:45
End: 30-MAR-12 16:30

Comments:
Standards: BFB V011104A 2 uL
365 V0120326A AUTO uL
SIP V0120326A 20 uL
ICV V0120326A 20 uL
Reviewed By: GA Manual Integration: GA MI Review: GA
NOT GOOD FOR 2-CVE

FILE	TIME	LAB ID	CLIENT ID	PREP		MT	BN	INTERNAL STDS				SURROGATES				DILN	FLG	PH	COMMENTS
				BATCH				FBZ	CBZ	DCB	DFM	DCE	TOL	BFB					
V8B0280	09:45	BFB10L	BFB10L		AQ													OK	
V8B0283	11:39	VSTD05010L	VSTD05010L		AQ			100	100	100					1			OK	
V8B0284	12:05	VSTD02010L	VSTD02010L		AQ			100	101	98					1			OK	
V8B0285	12:31	VSTD00510L	VSTD00510L		AQ			99	98	93					1			OK	
V8B0287	13:23	VSTD00110L	VSTD00110L		AQ			96	94	87					1			OK	
V8B0288	13:49	VSTD20010L	VSTD20010L		AQ			100	103	109					1			OK	
V8B0289	14:15	VSTD10010L	VSTD10010L		AQ			102	103	107					1			OK	
V8B0290	16:30	VICV05010L	VICV05010L		AQ			103	105	107	100	101	100	100	1	ER		OK	

E - One or more target compounds are above the calibration range
R - One or more spike compounds are outside of control limits
T - Sample was injected outside of the 12 hour sequence
* - Internal Standard or Surrogate outside of control limit
D - Surrogates are diluted

GA 4/1/12

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607

Instrument ID: V10 Calibration Date: 04/03/2012 Time: 8:34

Lab File ID: V8B0331.D Init. Calib. Date(s): 03/30/2012 03/30/2012

EPA Sample No. (VSTD####) VSTD05010N Init. Calib. Time(s): 11:39 14:15

Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
1,1,1,2-Tetrachloroethane	0.369	0.336	0.010	-8.9	20.0
Ethylbenzene	0.518	0.503	0.010	-3.1	20.0
m,p-Xylene	0.634	0.617	0.010	-2.7	20.0
o-Xylene	0.611	0.600	0.010	-1.8	20.0
Xylene (Total)	0.627	0.611	0.010	-2.4	20.0
Styrene	0.985	0.984	0.010	-0.1	20.0
Bromoform	0.251	0.221	0.010	-11.9	20.0
Isopropylbenzene	1.465	1.505	0.300	2.7	20.0
1,1,2,2-Tetrachloroethane —	1.010	0.779	0.300	-22.9	20.0
Bromobenzene	0.857	0.753	0.010	-12.1	20.0
1,2,3-Trichloropropane —	1.179	0.940	0.010	-20.3	20.0
2-Chlorotoluene	0.755	0.703	0.010	-6.9	20.0
1,3,5-Trimethylbenzene	2.377	2.356	0.010	-0.9	20.0
4-Chlorotoluene	0.778	0.726	0.010	-6.7	20.0
tert-Butylbenzene	2.417	2.410	0.010	-0.3	20.0
1,2,4-Trimethylbenzene	2.395	2.371	0.010	-1.0	20.0
sec-Butylbenzene	2.869	2.981	0.010	3.9	20.0
4-Isopropyltoluene	2.339	2.385	0.010	2.0	20.0
1,3-Dichlorobenzene	1.469	1.309	0.010	-10.9	20.0
1,4-Dichlorobenzene	1.551	1.342	0.010	-13.5	20.0
1,2-Dichlorobenzene	1.444	1.251	0.010	-13.4	20.0
1,2-Dibromo-3-chloropropane —	0.132	0.097	0.010	-26.7	20.0
1,2,4-Trichlorobenzene	0.609	0.554	0.010	-9.1	20.0
Hexachlorobutadiene	0.350	0.328	0.010	-6.4	20.0
1,2,3-Trichlorobenzene	0.541	0.440	0.010	-18.7	20.0
Naphthalene —	1.354	0.999	0.010	-26.2	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.274	0.289	0.010	5.4	20.0
1,4-Dioxane	0.003	0.003	0.010	-4.6	20.0
Cyclohexane	0.440	0.483	0.010	9.8	20.0
Methyl acetate	0.189	0.184	0.010	-2.7	20.0
Methylcyclohexane	0.410	0.473	0.010	15.3	20.0

Spectrum Analytical, Inc. RI Division
Volatiles Laboratory

VIA Injection Log

MANUAL INTEGRATION

METHOD: 8260 W
ICAL DATE: 3/30/12

ANALYST: GYA

BATCH: 120403.B

Start: 03-APR-12 08:17
End: 03-APR-12 19:51

Comments:

Standards: BFB VOLATILES 2 uL
ISX VOLATILES 2 uL
STD VOLATILES 2 uL

Reviewed By: *[Signature]* Manual Integration: MI Review:

FILE	TIME	LAB ID	CLIENT ID	PREP	WT	INT	INTERNAL STDS	SURROGATES				DIIN	FLAG	COMMENTS	pH	
				BATCH			FZ	CBZ	DCB	DFM	DCE	TOL	BFB			
V8B0330	08:17	BFB10N	BFB10N		AQ		100	100	100					1	OK	
V8B0331	08:34	VSTD05010N	VSTD05010N		AQ		104	105	103	102	102	97	100	1	OK	
V8B0333	10:04	LCS-65380	LCS-65380		65380	AQ	102	99	87	102	101	100	96	1	OK	
V8B0334	10:42	MB-65380	MB-65380		65380	AQ	100	98	86	103	102	99	95	1	NOT USED	
V8B0335	11:08	MB-65380	MB-65380		65380	AQ	100	98	86	103	102	99	95	1	OK	
V8B0336	11:34	L0610-15A	TB		65380	AQ	98	96	84	103	103	100	95	1	OK	
V8B0337	12:00	L0607-12A	TRIP BLANK 2		65380	AQ	97	95	83	104	101	100	94	1	OK	
V8B0338	12:26	L0590-17A	DEC-039		65380	AQ	96	94	82	103	101	100	95	1	OK	
V8B0339	12:52	L0590-19A	DEC-009		65380	AQ	94	94	83	104	102	98	95	1	OK	
V8B0340	13:18	L0590-16ADL	20120327-FD-1DL		65380	AQ	93	93	80	104	103	99	93	20	PCS = 16, OK	
V8B0341	13:44	L0590-18ADL	DEC-022DDL		65380	AQ	92	92	79	105	104	98	94	20	PCS = 120, OK	
V8B0342	14:10	L0590-20ADL	DEC-030DL		65380	AQ	92	92	79	105	102	98	94	20	PCS = 93, OK	
V8B0343	14:36	L0610-10ADL	SB-GW-5DL		65380	AQ	90	89	79	104	103	98	93	20	PCS = 78, OK	
V8B0344	15:02	L0610-11ADL	SB-GW-6DL		65380	AQ	89	90	79	106	103	98	93	40	PCS = 94, OK	
V8B0345	15:28	L0610-12ADL	SB-GW-7DL		65380	AQ	88	89	78	106	104	98	93	10	PCS = 75, OK	
V8B0346	15:54	L0610-13ADL	SB-GW-8DL		65380	AQ	88	89	78	107	104	97	93	5	PCS = 107, OK	
V8B0347	16:20	L0610-14ADL	DUP-AQDL		65380	AQ	88	88	78	107	105	98	93	40	PCS = 79, OK	
V8B0348	16:47	L0607-11A	FD-03272012-2		65380	AQ	86	88	79	108	106	98	94	1	OK	
V8B0349	17:13	L0607-13A	DEC-015		65380	AQ	86	87	78	109	105	97	94	1	OK	
V8B0350	17:39	L0607-14A	DEC-029D		65380	AQ	87	88	79	107	105	98	94	1	OK	
V8B0351	18:06	L0607-15A	DEC-029		65380	AQ	87	92	85	107	105	94	95	1	PCS = 170, OK	
V8B0352	18:32	L0607-16A	DEC-016R		65380	AQ	86	87	77	109	106	97	94	1	RR @ 1X	
V8B0353	18:58	L0607-14AMS	DEC-029DMS		65380	AQ	90	98	102	106	104	93	101	1	OK	
V8B0354	19:25	L0607-14MSD	DEC-029DMSD		65380	AQ	94	100	104	106	105	94	102	1	OK	
V8B0355	19:51	VBLK	VBLK		AQ		91	93	85	106	105	96	95	1	NOT USED	

E - One or more target compounds are above the calibration range
 S - One or more spike compounds are outside of control limits
 D - Sample was injected outside of the 12 hour sequence
 I - Internal Standard or Surrogate outside of control limit
 D - Surrogates are diluted

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Instrument ID: V10 Calibration Date: 04/03/2012 Time: 21:09
Lab File ID: V8B0358.D Init. Calib. Date(s): 03/30/2012 03/30/2012
EPA Sample No. (VSTD####) VSTD050100 Init. Calib. Time(s): 11:39 14:15
Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)
Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
1,1,1,2-Tetrachloroethane	0.369	0.312	0.010	-15.5	20.0
Ethylbenzene	0.518	0.444	0.010	-14.4	20.0
m,p-Xylene	0.634	0.553	0.010	-12.8	20.0
o-Xylene	0.611	0.540	0.010	-11.6	20.0
Xylene (Total)	0.627	0.549	0.010	-12.4	20.0
Styrene	0.985	0.894	0.010	-9.2	20.0
Bromoform	0.251	0.224	0.010	-10.8	20.0
Isopropylbenzene	1.465	1.301	0.300	-11.2	20.0
1,1,2,2-Tetrachloroethane ~	1.010	0.802	0.300	-20.6	20.0
Bromobenzene ~	0.857	0.663	0.010	-22.6	20.0
1,2,3-Trichloropropane	1.179	0.953	0.010	-19.1	20.0
2-Chlorotoluene	0.755	0.609	0.010	-19.4	20.0
1,3,5-Trimethylbenzene	2.377	1.974	0.010	-16.9	20.0
4-Chlorotoluene	0.778	0.629	0.010	-19.2	20.0
tert-Butylbenzene	2.417	1.948	0.010	-19.4	20.0
1,2,4-Trimethylbenzene	2.395	2.008	0.010	-16.2	20.0
sec-Butylbenzene	2.869	2.390	0.010	-16.7	20.0
4-Isopropyltoluene	2.339	1.943	0.010	-16.9	20.0
1,3-Dichlorobenzene ~	1.469	1.134	0.010	-22.8	20.0
1,4-Dichlorobenzene ~	1.551	1.177	0.010	-24.2	20.0
1,2-Dichlorobenzene ~	1.444	1.121	0.010	-22.4	20.0
1,2-Dibromo-3-chloropropane	0.132	0.116	0.010	-12.7	20.0
1,2,4-Trichlorobenzene	0.609	0.528	0.010	-13.3	20.0
Hexachlorobutadiene ~	0.350	0.257	0.010	-26.7	20.0
1,2,3-Trichlorobenzene	0.541	0.490	0.010	-9.6	20.0
Naphthalene	1.354	1.273	0.010	-6.0	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.274	0.268	0.010	-2.0	20.0
1,4-Dioxane	0.003	0.004	0.010	22.1	20.0
Cyclohexane	0.440	0.434	0.010	-1.4	20.0
Methyl acetate	0.189	0.217	0.010	14.8	20.0
Methylcyclohexane	0.410	0.394	0.010	-4.0	20.0

Start: 03-APR-12 20:17
End: 04-APR-12 08:05

BATCH: 120403A.B

ANALYST: CJA

METHOD: 313012

Spectrum Analytical, Inc. RI Division
Volatiles Laboratory

Comments:

Standards: 2 ul
555 W120324A AND
510 W120324A 20 ul

Reviewed By: *[Signature]* Manual Integration: MI Review:

FILE	TIME	LAB ID	CLIENT ID	PREP	INT	INTERNAL STDS	SURROGATES	DILN	FIG	COMMENTS	PH
V8B0356	20:17	BFB100									
V8B0357	20:43	VSTD050100									
V8B0358	21:09	VSTD050100									
V8B0359	21:35	LCS-65383									
V8B0360	22:01	LCS-65383									
V8B0361	22:27	LCS-65383									
V8B0362	22:53	MB-65383									
V8B0363	23:20	MB-65383									
V8B0364	23:46	MB-65383									
V8B0365	00:12	L0614-01A									
V8B0366	00:38	L0615-08A									
V8B0367	01:04	L0607-18A									
V8B0368	01:30	L0614-02A									
V8B0369	01:56	L0614-04A									
V8B0370	02:22	L0614-06A									
V8B0371	02:48	L0614-08A									
V8B0372	03:14	L0614-10A									
V8B0373	03:39	L0614-12A									
V8B0374	04:05	L0614-14A									
V8B0375	04:31	L0615-04A									
V8B0376	04:57	L0615-05A									
V8B0377	05:23	L0621-01A									
V8B0378	05:49	L0621-02A									
V8B0379	06:15	L0614-12AMS									
V8B0380	06:41	L0614-12MSD									
V8B0381	07:07	VBLK									
V8B0382	08:05	VBLK									
V8B0383											

5
Z - One or more target compounds are above the calibration range
R - One or more spike compounds are outside of control limits
T - Sample was injected outside of the 12 hour sequence
* - Internal Standard or Surrogate outside of control limit

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
 Instrument ID: V10 Calibration Date: 04/05/2012 Time: 11:46
 Lab File ID: V8B0434.D Init. Calib. Date(s): 03/30/2012 03/30/2012
 EPA Sample No. (VSTD####) VSTD05010R Init. Calib. Time(s): 11:39 14:15
 Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)
 Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.180	0.132	0.100	-26.7	20.0
Chloromethane	0.297	0.232	0.010	-21.9	20.0
Vinyl chloride	0.257	0.207	0.010	-19.4	20.0
Bromomethane	0.186	0.140	0.010	-25.1	20.0
Chloroethane	0.144	0.120	0.010	-17.2	20.0
Trichlorofluoromethane	0.339	0.292	0.010	-13.8	20.0
1,1-Dichloroethene	0.278	0.232	0.100	-16.6	20.0
Acetone	0.035	0.036	0.010	2.5	20.0
Iodomethane	0.261	0.225	0.010	-14.0	20.0
Carbon disulfide	0.922	0.762	0.010	-17.3	20.0
Methylene chloride	0.329	0.282	0.010	-14.2	20.0
trans-1,2-Dichloroethene	0.296	0.255	0.010	-13.9	20.0
Methyl tert-butyl ether	0.791	0.720	0.010	-9.0	20.0
1,1-Dichloroethane	0.541	0.461	0.010	-14.8	20.0
Vinyl acetate	0.896	0.838	0.010	-6.5	20.0
2-Butanone	0.034	0.036	0.010	3.6	20.0
cis-1,2-Dichloroethene	0.322	0.282	0.010	-12.6	20.0
2,2-Dichloropropane	0.411	0.367	0.010	-10.6	20.0
Bromochloromethane	0.151	0.134	0.010	-11.6	20.0
Chloroform	0.533	0.459	0.010	-14.0	20.0
1,1,1-Trichloroethane	0.436	0.375	0.010	-13.9	20.0
1,1-Dichloropropene	0.142	0.123	0.010	-13.5	20.0
Carbon tetrachloride	0.373	0.324	0.010	-13.0	20.0
1,2-Dichloroethane	0.395	0.351	0.010	-11.2	20.0
Benzene	1.201	1.024	0.010	-14.7	20.0
Trichloroethene	0.307	0.260	0.010	-15.4	20.0
1,2-Dichloropropane	0.313	0.271	0.010	-13.4	20.0
Dibromomethane	0.194	0.177	0.010	-8.9	20.0
Bromodichloromethane	0.398	0.351	0.010	-11.9	20.0
cis-1,3-Dichloropropene	0.458	0.416	0.010	-9.2	20.0
4-Methyl-2-pentanone	0.226	0.215	0.010	-4.9	20.0
Toluene	1.226	1.060	0.010	-13.5	20.0
trans-1,3-Dichloropropene	0.404	0.377	0.010	-6.7	20.0
1,1,2-Trichloroethane	0.288	0.247	0.010	-14.2	20.0
1,3-Dichloropropane	0.606	0.563	0.010	-7.1	20.0
Tetrachloroethene	0.348	0.295	0.010	-15.2	20.0
2-Hexanone	0.200	0.212	0.010	6.2	20.0
Dibromochloromethane	0.396	0.378	0.010	-4.6	20.0
1,2-Dibromoethane	0.367	0.345	0.010	-5.9	20.0
Chlorobenzene	1.056	0.952	0.010	-9.8	20.0

Spectrum Analytical, Inc. RI Division V10 Injection Log
 Volatiles Laboratory
 METHOD: 920011 ANALYST: Jm
 BATCH: 120405.B Start: 05-APR-12 11:00
 ICAI DATE: 3-20-12 End: 05-APR-12 23:58

Comments: Standards: BFB 1000 4000 2 ul
 1000 1000 4000 1000 ul
 1000 1000 4000 1000 ul
 1000 1000 4000 1000 ul

Reviewed By: W 4/6/12 Manual Integration: MI Review:

FILE	TIME	LAB ID	CLIENT ID	PREP	INT	INTERNAL	STDS	SURROGATES	DIIN	FLG	COMMENTS	pH
V8B0433	11:00	BFB10R	BFB10R	AQ	100	100	100	100	1			
V8B0434	11:46	VSTD05010R	VSTD05010R	AQ	100	100	100	100	1			
V8B0435	12:12	LCS-65451	LCS-65451	65451	AQ	101	101	103	97			
V8B0436	12:38	MB-65451	MB-65451	65451	AQ	99	95	86	99	105	92	
V8B0437	13:04	MB-65451	MB-65451	65451	AQ	96	91	79	100	98	91	
V8B0438	13:30	MB-65451	MB-65451	65451	AQ	93	89	77	101	100	91	
V8B0439	13:56	L0607-09A	TRIP BLANK	65451	AQ	90	86	74	101	100	90	
V8B0440	14:22	L0607-17A	TRIP BLANK 3	65451	AQ	89	84	72	102	101	89	
V8B0441	14:48	L0607-01A	DEC-091D	65451	AQ	87	83	72	102	100	89	
V8B0442	15:14	L0607-04A	DEC-090	65451	AQ	88	86	76	102	100	90	
V8B0443	15:41	L0607-05A	DEC-090D	65451	AQ	86	82	69	103	102	89	
V8B0444	16:07	L0607-06A	DEC-014R	65451	AQ	85	85	77	103	100	90	
V8B0445	16:33	L0607-07A	DEC-014D	65451	AQ	84	81	68	104	103	88	
V8B0446	16:59	L0607-08A	DEC-064	65451	AQ	84	81	68	104	101	88	
V8B0447	17:26	L0607-10A	DEC-064D	65451	AQ	84	81	67	103	103	88	
V8B0448	17:52	L0614-16A	MW09-DUP01-0329	65451	AQ	82	79	66	105	103	88	
V8B0449	18:18	L0614-18A	MW09-DUP02-0329	65451	AQ	82	79	66	104	104	88	
V8B0450	18:44	L0615-01A	BED3-GW-MWGLS-	65451	AQ	81	77	64	104	101	88	
V8B0451	19:11	L0615-02A	BED3-GW-MW13S-0	65451	AQ	88	87	74	104	102	92	
V8B0452	19:37	L0615-03A	BED3-GW-MW12R-0	65451	AQ	83	80	66	105	102	88	
V8B0453	20:03	L0621-03A	DEC-048	65451	AQ	82	79	70	105	102	89	
V8B0454	20:29	L0621-04A	DEC-047	65451	AQ	83	79	67	105	101	88	
V8B0455	20:55	L0621-05A	20120328-FD-1	65451	AQ	82	79	75	104	102	92	
V8B0456	21:21	L0621-06A	DEC-012	65451	AQ	86	82	71	103	102	90	
V8B0457	21:47	L0621-16A	DEC-043	65451	AQ	83	80	68	105	102	88	
V8B0458	22:14	L0621-17A	DEC-043D	65451	AQ	82	78	66	105	104	107	
V8B0459	22:40	VBK	VBK	65451	AQ	81	77	64	105	102	89	
V8B0460	23:06	VBK	VBK	AQ	80	76	62	106	102	107	88	

Z - One or more target compounds are above the calibration range
 R - One or more spike compounds are outside of control limits
 T - Sample was injected outside of the 12 hour sequence
 I - Internal Standard or Surrogate outside of control limit
 S - Surrogates are diluted

44612

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Instrument ID: V10 Calibration Date: 04/06/2012 Time: 8:58
Lab File ID: V8B0472.D Init. Calib. Date(s): 03/30/2012 03/30/2012
EPA Sample No. (VSTD####) VSTD05010S Init. Calib. Time(s): 11:39 14:15
Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)
Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.180	0.141	0.100	-21.5	20.0
Chloromethane	0.297	0.254	0.010	-14.5	20.0
Vinyl chloride	0.257	0.238	0.010	-7.3	20.0
Bromomethane	0.186	0.165	0.010	-11.4	20.0
Chloroethane	0.144	0.140	0.010	-2.8	20.0
Trichlorofluoromethane	0.339	0.328	0.010	-3.2	20.0
1,1-Dichloroethene	0.278	0.246	0.100	-11.6	20.0
Acetone	0.035	0.034	0.010	-1.7	20.0
Iodomethane	0.261	0.238	0.010	-9.0	20.0
Carbon disulfide	0.922	0.831	0.010	-9.9	20.0
Methylene chloride	0.329	0.297	0.010	-9.7	20.0
trans-1,2-Dichloroethene	0.296	0.271	0.010	-8.4	20.0
Methyl tert-butyl ether	0.791	0.713	0.010	-9.8	20.0
1,1-Dichloroethane	0.541	0.496	0.010	-8.2	20.0
Vinyl acetate	0.896	0.867	0.010	-3.3	20.0
2-Butanone	0.034	0.032	0.010	-6.8	20.0
cis-1,2-Dichloroethene	0.322	0.300	0.010	-6.9	20.0
2,2-Dichloropropane	0.411	0.392	0.010	-4.5	20.0
Bromochloromethane	0.151	0.142	0.010	-6.0	20.0
Chloroform	0.533	0.497	0.010	-6.8	20.0
1,1,1-Trichloroethane	0.436	0.399	0.010	-8.5	20.0
1,1-Dichloropropene	0.142	0.128	0.010	-9.7	20.0
Carbon tetrachloride	0.373	0.345	0.010	-7.6	20.0
1,2-Dichloroethane	0.395	0.379	0.010	-4.3	20.0
Benzene	1.201	1.104	0.010	-8.0	20.0
Trichloroethene	0.307	0.273	0.010	-11.1	20.0
1,2-Dichloropropane	0.313	0.292	0.010	-6.9	20.0
Dibromomethane	0.194	0.186	0.010	-4.4	20.0
Bromodichloromethane	0.398	0.375	0.010	-5.7	20.0
cis-1,3-Dichloropropene	0.458	0.427	0.010	-6.8	20.0
4-Methyl-2-pentanone	0.226	0.195	0.010	-13.9	20.0
Toluene	1.226	1.114	0.010	-9.2	20.0
trans-1,3-Dichloropropene	0.404	0.386	0.010	-4.4	20.0
1,1,2-Trichloroethane	0.288	0.255	0.010	-11.4	20.0
1,3-Dichloropropane	0.606	0.576	0.010	-4.9	20.0
Tetrachloroethene	0.348	0.294	0.010	-15.4	20.0
2-Hexanone	0.200	0.186	0.010	-6.6	20.0
Dibromochloromethane	0.396	0.385	0.010	-2.8	20.0
1,2-Dibromoethane	0.367	0.340	0.010	-7.3	20.0
Chlorobenzene	1.056	0.984	0.010	-6.8	20.0

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0607 Mod. Ref No.: _____ SDG No.: SL0607
Instrument ID: V10 Calibration Date: 04/06/2012 Time: 8:58
Lab File ID: V8B0472.D Init. Calib. Date(s): 03/30/2012 03/30/2012
EPA Sample No. (VSTD####) VSTD05010S Init. Calib. Time(s): 11:39 14:15
Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)
Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
1,1,1,2-Tetrachloroethane	0.369	0.355	0.010	-4.0	20.0
Ethylbenzene	0.518	0.498	0.010	-4.0	20.0
m,p-Xylene	0.634	0.618	0.010	-2.5	20.0
o-Xylene	0.611	0.594	0.010	-2.8	20.0
Xylene (Total)	0.627	0.610	0.010	-2.6	20.0
Styrene	0.985	1.000	0.010	1.5	20.0
Bromoform	0.251	0.235	0.010	-6.5	20.0
Isopropylbenzene	1.465	1.421	0.300	-3.0	20.0
1,1,2,2-Tetrachloroethane	1.010	0.859	0.300	-15.0	20.0
Bromobenzene	0.857	0.800	0.010	-6.6	20.0
1,2,3-Trichloropropane	1.179	1.032	0.010	-12.5	20.0
2-Chlorotoluene	0.755	0.723	0.010	-4.2	20.0
1,3,5-Trimethylbenzene	2.377	2.365	0.010	-0.5	20.0
4-Chlorotoluene	0.778	0.756	0.010	-2.8	20.0
tert-Butylbenzene	2.417	2.317	0.010	-4.1	20.0
1,2,4-Trimethylbenzene	2.395	2.414	0.010	0.8	20.0
sec-Butylbenzene	2.869	2.829	0.010	-1.4	20.0
4-Isopropyltoluene	2.339	2.319	0.010	-0.8	20.0
1,3-Dichlorobenzene	1.469	1.373	0.010	-6.6	20.0
1,4-Dichlorobenzene	1.551	1.421	0.010	-8.4	20.0
1,2-Dichlorobenzene	1.444	1.340	0.010	-7.2	20.0
1,2-Dibromo-3-chloropropane	0.132	0.110	0.010	-16.9	20.0
1,2,4-Trichlorobenzene	0.609	0.570	0.010	-6.5	20.0
Hexachlorobutadiene	0.350	0.327	0.010	-6.8	20.0
1,2,3-Trichlorobenzene	0.541	0.483	0.010	-10.8	20.0
Naphthalene	1.354	1.062	0.010	-21.5	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.274	0.251	0.010	-8.3	20.0
1,4-Dioxane	0.003	0.003	0.010	-14.3	20.0
Cyclohexane	0.440	0.399	0.010	-9.3	20.0
Methyl acetate	0.189	0.180	0.010	-4.4	20.0
Methylcyclohexane	0.410	0.378	0.010	-7.8	20.0

6C - FORM VI VOA-3
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc.

Contract:

SL0607

Lab Code: MITKEM

Case No.: 10607

SAS No.:

SDG No.:

Instrument ID: VI N Calibration Date(s): 04/03/2012 04/03/2012

Heated Purge: (Y/N) N Calibration Times: 10:38 14:20

Purge Volume: 5 (mL)

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (mm)

LAB FILE ID: RRF005 = V1M5785.D RRF020 = V1M5784.D RRF050 = V1M5783.D RRF100 = V1M5789.D RRF200 = V1M5788.D

RRF001 = V1M5787.D

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF001	RRF	% RSD
Dichlorodifluoromethane	0.280	0.252	0.254	0.232	0.273	0.167	0.243	16.7
Chloromethane	0.393	0.386	0.372	0.357	0.332	0.400	0.373	6.9
Vinyl chloride	0.391	0.371	0.382	0.363	0.370	0.347	0.371	4.2
Bromomethane	0.351	0.305	0.299	0.310	0.277	0.500	0.340	24.1
Chloroethane	0.222	0.228	0.203	0.217	0.200	0.200	0.212	5.8
Trichlorofluoromethane	0.520	0.502	0.493	0.467	0.555	0.480	0.503	6.3
1,1-Dichloroethene	0.417	0.425	0.404	0.401	0.408	0.434	0.415	3.2
Acetone	0.042	0.042	0.033	0.044	0.022		0.037	24.8
Iodomethane	0.868	0.858	0.839	0.811	0.749	0.772	0.816	5.9
Carbon disulfide	1.391	1.272	1.240	1.222	1.255	1.183	1.261	5.6
Methylene chloride	0.464	0.427	0.416	0.412	0.324	0.571	0.436	18.5
trans-1,2-Dichloroethene	0.490	0.431	0.424	0.412	0.393	0.390	0.423	8.6
Methyl tert-butyl ether	1.128	1.033	0.979	1.049	0.750	0.909	0.975	13.5
1,1-Dichloroethane	0.700	0.670	0.633	0.656	0.590	0.654	0.651	5.7
Vinyl acetate	1.487	1.444	1.387	1.433	1.001	1.432	1.364	13.2
2-Butanone	0.051	0.045	0.042	0.050	0.031		0.044	18.8
cis-1,2-Dichloroethene	0.498	0.452	0.435	0.441	0.369	0.495	0.449	10.6
2,2-Dichloropropane	0.384	0.379	0.313	0.285	0.372	0.384	0.353	12.2
Bromochloromethane	0.252	0.230	0.233	0.228	0.178	0.232	0.225	11.0
Chloroform	0.755	0.708	0.711	0.691	0.581	0.752	0.699	9.1
1,1,1-Trichloroethane	0.583	0.543	0.522	0.484	0.568	0.570	0.545	6.8
1,1-Dichloropropene	0.197	0.199	0.196	0.192	0.208	0.193	0.197	3.0
Carbon tetrachloride	0.501	0.508	0.484	0.472	0.542	0.444	0.492	6.8
1,2-Dichloroethane	0.511	0.540	0.522	0.526	0.405	0.550	0.509	10.4
Benzene	1.604	1.495	1.427	1.453	1.236	1.520	1.456	8.5
Trichloroethene	0.465	0.431	0.432	0.424	0.413	0.355	0.420	8.6
1,2-Dichloropropane	0.415	0.356	0.352	0.370	0.286	0.364	0.357	11.7

sem1111027A

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

SW846

6C - FORM VI VOA-3
VOLATILE ORGANICS INITIAL CALIBRATION DATA
Contract:

Lab Name: Spectrum Analytical, Inc.

Lab Code: MITKEM Case No.: L0607 SAS No.: SDG No.: SL0607

Instrument ID: V1 Calibration Date(s): 04/03/2012 04/03/2012

Heated Purge: (Y/N) N Calibration Times: 10:38 14:20

Purge Volume: 5 (mL)

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (mm)

LAB FILE ID: RRF005 = V1M5785.D RRF020 = V1M5784.D RRF050 = V1M5783.D RRF100 = V1M5789.D RRF200 = V1M5788.D

RRF001 = V1M5787.D

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF001	RRF	% RSD
tert-Butylbenzene	3.744	3.454	3.377	3.169	3.664	3.481	3.482	5.9
1,2,4-Trimethylbenzene	3.401	3.221	3.130	3.040	3.189	2.904	3.148	5.4
sec-Butylbenzene	4.011	3.810	3.765	3.571	4.462	3.599	3.869	8.6
4-Isopropyltoluene	3.274	3.042	2.941	2.846	3.381	2.977	3.077	6.7
1,3-Dichlorobenzene	2.120	1.981	1.930	1.901	1.881	1.932	1.957	4.4
1,4-Dichlorobenzene	2.229	2.073	2.037	1.986	1.915	2.043	2.047	5.1
1,2-Dichlorobenzene	1.913	1.872	1.832	1.803	1.673	1.892	1.831	4.8
1,2-Dibromo-3-chloropropane	0.172	0.146	0.129	0.151	0.131	0.161	0.148	11.4
1,2,4-Trichlorobenzene	0.943	0.889	0.850	0.935	0.777	1.000	0.899	8.7
Hexachlorobutadiene	0.469	0.406	0.369	0.399	0.394	0.546	0.430	15.2
1,2,3-Trichlorobenzene	0.778	0.676	0.627	0.708	0.562	0.703	0.676	11.0
Naphthalene	2.301	2.035	1.849	2.199	1.719	2.128	2.039	10.8
1,1,2-Trichloro-1,2,2-trifluoro	0.423	0.403	0.400	0.379	0.443	0.409	0.409	5.3
1,4-Dioxane	0.006	0.004	0.004	0.005	0.003		0.005	24.6
Cyclohexane	0.574	0.569	0.558	0.552	0.621	0.534	0.568	5.2
Methyl acetate	0.288	0.289	0.255	0.301	0.191	0.352	0.279	19.1
Methylcyclohexane	0.587	0.571	0.570	0.541	0.676	0.525	0.578	9.1

Start: 03-APR-12 08:44
End: 03-APR-12 15:11

BATCH: 120403.B

ANALYST: ASD

METHOD :-

Spectrum Analytical, Inc. RI Division VI Injection Log
Volatiles Laboratory

Comments:

Standards: BFB VW114044
15/35 VW120319A
STD VW120322A
100 VW120319B

Reviewed By: Handy Manual Integration: ASO 4/3/82 MI Review: Handy

FILE	TIME	LAB ID	CLIENT ID	PREP	BATCH	INTERNAL STDS					SURROGATES				DILN	FLG	COMMENTS	pH
						MT	BN	FBZ	CEZ	DCB	DFM	DCE	TOL	BFB				
VLM5780	10:44	BFBIG	BFBIG			SL												
VLM5783	10:38	VSTD0501G	VSTD0501G			AQ	100	100	100					1		OK		
VLM5784	11:04	VSTD0201G	VSTD0201G			AQ	96	99	95					1		OK		
VLM5785	11:32	VSTD0051G	VSTD0051G			AQ	93	97	90					1		OK		
VLM5786	11:59	VSTD0011G	VSTD0011G			AQ	96	97	90					1		OK		
VLM5787	12:27	VSTD0011G	VSTD0011G			AQ	94	93	89					1		OK		
VLM5788	12:55	VSTD2001G	VSTD2001G			AQ	136	123	116					1		OK		
VLM5789	14:20	VSTD1001G	VSTD1001G			AQ	100	102	108					1		OK		
VLM5790	15:11	VICV0501G	VICV0501G			AQ	100	100	101	100	97	99	103	1	E	OK		

- E - One or more target compounds are above the calibration range
- R - One or more spike compounds are outside of control limits
- T - Sample was injected outside of the 12 hour sequence
- * - Internal Standard or Surrogate outside of control limit
- Surrogates are diluted

[illegible]

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Klink Cosmo Meeker

Laboratory Workorder / SDG #: L0607

EPA 300.0, SM 2320B, SM 4500B5-E P, SM 4500B-C N Org, SM
4500D S-

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
EPA 300.0, SM 2320B, SM 4500B5-E P, SM 4500B-C N Org, SM
4500D S-

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: EPA 300.0, SM 2320B, SM 4500B5-E P, SM 4500B-C N Org, SM 4500D S-

V. INSTRUMENTATION

The following instrumentation was used to perform

Instrument Code: IC1

Instrument Type: IC

Description: DX-500

Manufacturer: Dionex

Model: DX-500

GC Column used: 0.25 m X 4 mm ID [μ m thickness] AS14A-7 capillary column.

Instrument Code: MANUAL

Instrument Type: WC

Instrument Code: SPEC2

Instrument Type: SP

Description: Spectronic 20 Genesys

Manufacturer: Spectronic Instruments

Model: 4004-000

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: DEC-029D (L0607-14DMS), DEC-029D (L0607-14DMSD) for Chloride and Sulfate.

Percent recoveries were within the QC limits with the following exceptions:

DEC-029DMS: recovery is below criteria for Chloride at 41% with criteria of (80-120) and Sulfate at 76% with criteria of (80-120).

DEC-029DMSD: recovery is below criteria for Chloride at 41% with criteria of (80-120).

Percent RPDs were within the QC limits.

Matrix spike was performed on samples: DEC-091D (L0607-01BMS) and DEC-029D (L0607-14BMS) for Sulfide, DEC-029D (L0607-14CMS) for Phosphorus and TKN and DEC-029D (L0607-14DMS) for Alkalinity.

Spike recovery was within the QC limits for all analyses.

D. Duplicate sample:

Duplicate analysis was performed on samples: DEC-091D (L0607-01BDUP) and DEC-029D (L0607-14BDUP) for Sulfide, DEC-029D (L0607-14CDUP) for Phosphorus and TKN and DEC-029D (L0607-14DDUP) for Alkalinity

Percent RPD was within the QC limits.

E. Dilutions:

The following samples were analyzed at dilution:

DEC-091D (L0607-01C), dilution factor: 2 for Phosphorus (As P)
DEC-091D (L0607-01D), dilution factor: 5 for Chloride
DEC-045 (L0607-02D), dilution factor: 5 for Chloride
DEC-045D (L0607-03D), dilution factor: 5 for Chloride and Sulfate
DEC-090 (L0607-04D), dilution factor: 5 for Chloride
DEC-090D (L0607-05D), dilution factor: 5 for Chloride
DEC-014R (L0607-06D), dilution factor: 10 for Chloride
DEC-014D (L0607-07D), dilution factor: 5 for Chloride
DEC-064 (L0607-08D), dilution factor: 10 for Chloride
DEC-064D (L0607-10D), dilution factor: 5 for Chloride
FD-03272012-2 (L0607-11C), dilution factor: 2 for Phosphorus (As P)
FD-03272012-2 (L0607-11D), dilution factor: 5 for Chloride
DEC-015 (L0607-13D), dilution factor: 10 for Chloride
DEC-029D (L0607-14CMS), dilution factor: 2 for Phosphorus (As P)
DEC-029D (L0607-14D), dilution factor: 5 for Chloride and Sulfate
DEC-029D (L0607-14DMS), dilution factor: 5 for Chloride and Sulfate

DEC-029D (L0607-14DMSD), dilution factor: 5 for Chloride and Sulfate

DEC-029 (L0607-15C), dilution factor: 2 for Phosphorus (As P)

DEC-029 (L0607-15D), dilution factor: 5 for Chloride

DEC-015R (L0607-16D), dilution factor: 10 for Chloride

DEC-015D (L0607-18D), dilution factor: 5 for Chloride

F. Samples:

The Nitrate/Nitrite analyses were performed by Spectrum Analytical, Inc., featuring Hanibal Technology of Agawam, MA. The Spectrum Analytical Agawam report has been submitted following the Spectrum RI data report.

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum RI, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed: 

Date: 04/18/12

ANALYTICAL QC SUMMARY REPORT

CLIENT: URS Corporation

Work Order: L0607

E300IC_W

Project: Klink Cosmo Meeker

EPA 300.0 - Ion Chromatography (LOW)

KIMMEL COASTAL SERVICES												
Project: 811												
Sample ID: MB-65523	SampType: MBLK		TestCode: E300IC_W		Prep Date: 04/10/12 1:15		Run ID: IC1_120410B					
Client ID: MB-65523	Batch ID: 65523		Units: mg/L		Analysis Date: 04/10/12 15:04		SeqNo: 1719122					
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	ND	0.25	2.0									
Sulfate	ND	0.32	5.0									

Sample ID: LCS-65523	SampleType: LCS	TestCode: E300IC_W	Prep Date: 04/10/12 1:15	Run ID: IC1_120410B								
Client ID: LCS-65523	Batch ID: 65523	Units: mg/L	Analysis Date: 04/10/12 15:16	SeqNo: 1719123								
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	16.09	0.25	2.0	16.00	0	101	90	110	0			
Sulfate	38.79	0.32	5.0	40.00	0	97.0	90	110	0			

Sample ID: L0607-14DMS	SampleType: MS	TestCode: E300IC_W	Prep Date: 04/10/12 1:15	Run ID: IC1_120411A								
Client ID: DEC-029D	Batch ID: 65523	Units: mg/L	Analysis Date: 04/11/12 14:45	SeqNo: 1719204								
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	253.3	1.3	10	16.00	246.8	41.1	80	120	0			S
Sulfate	202.0	1.6	25	40.00	171.6	76.2	80	120	0			S

Sample ID: L0607-14DMSD	Sample Type: MSD	TestCode: E300IC_W	Prep Date: 04/10/12 1:15	Run ID: IC1_120411A								
Client ID: DEC-029D	Batch ID: 65523	Units: mg/L	Analysis Date: 04/11/12 14:57	SeqNo: 1719205								
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	253.3	1.3	10	16.00	246.8	40.9	80	120	253.3	0.0115	20	S
Sulfate	203.7	1.6	25	40.00	171.6	80.2	80	120	202.0	0.797	20	

amt 74x spike conc. !! no certin

CP

Qualifiers:

ND - Not Detected at the MDL

J - Analyte detected below quantitation limits

S - Recovery outside accepted recovery limits

MDL - Method Detection Limit

RL - Reporting Limit

B - Analyte detected in the associated Method Blank

CASE NARRATIVE

Spectrum Analytical, Inc. Lab Reference No. SB46717

Client: Spectrum Analytical, Inc.-- RI Division

Project: See Chain of Custody / L0607

SDG #: 46717

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception or a communication form is included in the addendum with this package.

II. HOLDING TIMES

All samples were prepared and analyzed within the method-specific holding time.

III. METHODS

Analyses were performed according to EPA 353.2.

IV. PREPARATION

Aqueous samples were prepared according to General Preparation.

V. INSTRUMENTATION

The following equipment was used to analyze EPA 353.2:

Lachat2 details: Lachat Quikchem 8000

VI. ANALYSIS

A. Calibration:

All quality control samples were within the acceptance criteria.

B. Blanks:

All blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Samples (LCS):

All method criteria were met.

2. Matrix Spike / Matrix Spike Duplicate Samples (MS/MSD):

A matrix spike and a matrix spike duplicate were analyzed:

In batch 1207909 from source sample DEC-029D (SB46717-12).

All method criteria were met.

3. Reference:

All method criteria were met.

D. Duplicates:

A duplicate was analyzed.

In batch 1207909 from source sample DEC-029D (SB46717-12).

All method criteria were met.

E. Samples:

All method criteria were met with the following exceptions:

Nitrate/Nitrite as N in batch 1207909, samples DEC-014D (SB46717-07), DEC-014R (SB46717-06), DEC-015 (SB46717-11), DEC-015D (SB46717-15), DEC-015R (SB46717-14), DEC-029 (SB46717-13), DEC-029D (SB46717-12), DEC-045 (SB46717-02), DEC-045D (SB46717-03), DEC-064 (SB46717-08), DEC-064D (SB46717-09), DEC-090 (SB46717-04), DEC-090D (SB46717-05), DEC-091D (SB46717-01), FD-03272012-2 (SB46717-10): Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Klink Cosmo Meeker

Laboratory Workorder / SDG #: L0639

SW846 8260C, VOC by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8260C

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW5030

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: V10
Instrument Type: GCMS-VOA
Description: HP7890A
Manufacturer: Agilent
Model: 7890A / 5975C
GC Column used: 30 m X 0.25 mm ID [1.40 um thickness] DB-624 capillary column.

Instrument Code: V6
Instrument Type: GCMS-VOA
Description: HP6890 / HP5973
Manufacturer: Hewlett-Packard
Model: 6890 / 5973
GC Column used: 30 m X 0.25 mm ID [1.40 um thickness] DB-624 capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits with the following exceptions. Please note that most test procedures allow for several compounds outside of the QC limits for the LCS, although this may indicate a bias for this specific compound.

LCS-65759 in batch 65759, recovery is below criteria for iodomethane at 71% with criteria of (72-121).

LCS-65780 in batch 65780, recovery is above criteria for 1,4-Dioxane at 160% with criteria of (70-130).

LCSD-65759 in batch 65759, recovery is below criteria for Iodomethane at 71% with criteria of (72-121).

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

The following samples were analyzed at dilution:


DEC-008 (L0639-01A) : Dilution Factor: 20
DEC-065 (L0639-03A) : Dilution Factor: 2
DEC-065D (L0639-04A) : Dilution Factor: 5
DEC-044 (L0639-05A) : Dilution Factor: 10
DEC-044D (L0639-07ADL) : Dilution Factor: 4
20120401-FD-1 (L0639-09ADL) : Dilution Factor: 4
DEC-029TC (L0639-13ADL) : Dilution Factor: 100
20120331-FD-1 (L0639-14ADL) : Dilution Factor: 50
DEC-031 (L0639-16ADL) : Dilution Factor: 50

G. Samples:

Due to laboratory accident, both vials for sample DEC-031, collected on April 1, were lost. The sample was re-sampled and received by the laboratory on April 21.

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

A handwritten signature in black ink, appearing to be 'J. H. P.' or similar, written in a cursive style.

Signed: _____

Date: 4/26/2012



SPECTRUM ANALYTICAL, INC.
Featuring
HANTAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:

- TAT- Indicate Date Needed: _____
• All TATs subject to laboratory approval.
• Min. 24-hour notification needed for rushes.
• Samples disposed of after 30 days unless otherwise instructed.

Report To: URS CORP.
77 GOODSELL ST.
BUTEMO, NY 14203

Project Mgr.: SCOTT MCCABE
716-430-6405

Invoice To: URS CORP

Project No.: 11176390

Site Name: KLINK COSMO

Location: BROOKLYN, NY State: NY

Sampler(s): JOHN CRISP

P.O. No.: 11176390 RQN: _____

1= $\text{Na}_2\text{S}_2\text{O}_3$ 2= HCl 3= H_2SO_4 4= HNO_3 5= NaOH 6=Ascorbic Acid 7= CH_3OH
8= NaHSO_4 9= _____ 10= _____ 11= _____

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1= _____ X2= _____ X3= _____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:
16	DEC-031	12/20/12	13:25

Matrix

Type

Containers:

of VOA Vials

of Amber Glass

of Clear Glass

of Plastic

List preservative code below:

2

Analyses:

QA/QC Reporting Level

☐ Level I ☐ Level II

☐ Level III ☐ Level IV

☐ Other _____

State specific reporting standards:

Notes:

E-mail to SCOTT.MCCABE@URS.COM

EDD Format _____

Relinquished by:

Received by:

Date: _____ Time: _____

Condition upon receipt: ☒ Iced ☐ Ambient ☐ °C 4

Received By: <i>HA 1/2</i>						Page 01 of 00			
Reviewed By: <i>Venerma Bruegel</i>						Log-in Date 04/03/2012			
Work Order: L0639				Client Name: URS Corporation					
Project Name/Event: Klink Cosmo Meeker / 11176390.00002									
Remarks: (1/2) Please see associated sample/extract transfer logbook pages submitted with this data package.				Preservation (pH)					Soil HeadSpace or Air Bubble > or equal to 1/4"
				Lab Sample ID	HNO3	H2SO4	HCl	NaOH	
1. Custody Seal(s)	Present / Absent	L0639-01		<2		>12		H	
	Intact / Broken	L0639-02		<2		>12		H	
2. Custody Seal Nos.	N/A	L0639-03		<2		>12		H	
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists	Present / Absent	L0639-04		<2		>12		H	
		L0639-05		<2		>12		H	
		L0639-06		<2		>12		H	
		L0639-07		<2		>12		H	
4. Airbill	AirBill / Sticker	L0639-08		<2		>12		H	
	Present / Absent	L0639-09		<2		>12		H	
5. Airbill No.	Courier N/A	L0639-10						H	
		L0639-11		<2		>12		H	
6. Sample Tags Sample Tag Numbers	Present / Absent	L0639-12		<2		>12		H	
		L0639-13		<2		>12		H	
		L0639-14		<2		>12		H	
		L0639-15		<2		>12		H	
7. Sample Condition	Intact / Broken / Leaking								
8. Cooler Temperature Indicator Bottle	Present / Absent								
9. Cooler Temperature	2.0 °C								
10. Does information on TR/COCs and sample tags agree?	Yes / No								
11. Date Received at Laboratory	04/03/2012								
12. Time Received	13:54								
Sample Transfer									
Fraction (1) TVOA/VOA	Fraction (2) SVOA/PEST/ARO								
Area #	Area #								
By	By								
On	On								
IR Temp Gun ID: MT-1		VOA Matrix Key: US = Unpreserved Soil A = Air UA = Unpreserved Aqueous H = HCl M = MeOH E = Encore N = NaHSO4 F = Freeze							
Coolant Condition: ICE									
Preservative Name/Lot No:									
		See Sample Condition Notification/Corrective Action Form Yes / No							
		Rad OK Yes / No							

Spectrum Analytical, Inc. Featuring Hanibal Technology --- Rhode Island Division

Received By: <i>[Signature]</i>						Page 01 of 00		
Reviewed By: <i>[Signature]</i>						Log-in Date 04/21/2012		
Work Order: L0639				Client Name: URS Corporation				
Project Name/Event: Klink Cosmo Meeker / 11176390.00002								
Remarks: (1/2) Please see associated sample/extract transfer logbook pages submitted with this data package.				Preservation (pH)		VOA Matrix	Soil HeadSpace or Air Bubble > or equal to 1/4"	
				Lab Sample ID	HNO3			H2SO4
1. Custody Seal(s) Present / Absent Intact / Broken				L0639-16				H
2. Custody Seal Nos. N/A								
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists Present / Absent								
4. Airbill AirBill / Sticker Present / Absent								
5. Airbill No. FedEx 8767 0301 6276								
6. Sample Tags Present / Absent Sample Tag Numbers Listed / Not Listed on Chain-of-Custody								
7. Sample Condition Intact / Broken / Leaking								
8. Cooler Temperature Indicator Bottle Present / Absent								
9. Cooler Temperature 4 °C								
10. Does information on TR/COCs and sample tags agree? Yes / No								
11. Date Received at Laboratory 04/21/2012								
12. Time Received 08:45								
Sample Transfer								
Fraction (1) TVOA/VOA		Fraction (2) SVOA/PEST/ARO						
Area #		Area #						
By		By						
On		On						
IR Temp Gun ID: MT-1				VOA Matrix Key: US = Unpreserved Soil A = Air UA = Unpreserved Aqueous H = HCl M = MeOH E = Encore N = NaHSO4 F = Freeze				
Coolant Condition: ICE								
Preservative Name/Lot No:				See Sample Condition Notification/Corrective Action Form Yes / No /				
				Rad OK Yes / No /				

6C - FORM VI VOA-3
VOLATILE ORGANICS INITIAL CALIBRATION DATA
Contract:

Lab Name: Spectrum Analytical, Inc.

Lab Code: MITKEM Case No.: L0639 SAS No.: SDG No.: SL0639

Instrument ID: V6 Heated Purge: (Y/N) N Calibration Date(s): 04/23/2012 04/23/2012

Purge Volume: 5 Calibration Times: 11:34 13:36

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (mm)

LAB FILE ID: RRF005 = V6I6183.D RRF020 = V6I6184.D RRF050 = V6I6185.D RRF100 = V6I6186.D RRF200 = V6I6187.D
RRF001 = V6I6182.D

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF001	RRF	% RSD
Dichlorodifluoromethane	0.286	0.306	0.288	0.256	0.256	0.286	0.280	7.1
Chloromethane	0.478	0.429	0.400	0.489	0.495	0.513	0.467	9.2
Vinyl chloride	0.351	0.388	0.368	0.361	0.372	0.302	0.357	8.3
Bromomethane	0.212	0.203	0.195	0.193	0.198	0.235	0.206	7.5
Chloroethane	0.230	0.234	0.221	0.214	0.221	0.174	0.216	10.0
Trichlorofluoromethane	0.410	0.440	0.403	0.384	0.397	0.375	0.402	5.7
1,1-Dichloroethene	0.272	0.276	0.264	0.258	0.275	0.240	0.264	5.3
Acetone	0.037	0.036	0.036	0.032	0.033		0.035	5.5
Iodomethane	0.342	0.368	0.383	0.387	0.427	0.373	0.380	7.4
Carbon disulfide	0.821	0.849	0.782	0.805	0.803	0.920	0.830	5.9
Methylene chloride	0.324	0.312	0.291	0.281	0.293	0.452	0.326	19.6
trans-1,2-Dichloroethene	0.237	0.272	0.247	0.242	0.250	0.231	0.247	5.8
Methyl tert-butyl ether	0.753	0.773	0.712	0.704	0.714	0.718	0.729	3.8
1,1-Dichloroethane	0.487	0.495	0.446	0.436	0.465	0.488	0.470	5.2
Vinyl acetate	1.129	1.179	1.102	1.056	1.035	1.216	1.120	6.2
2-Butanone	0.036	0.036	0.035	0.035	0.035		0.036	1.4
cis-1,2-Dichloroethene	0.285	0.293	0.270	0.264	0.269	0.283	0.277	4.1
2,2-Dichloropropane	0.241	0.248	0.223	0.209	0.199	0.242	0.227	8.8
Bromochloromethane	0.140	0.149	0.148	0.144	0.151	0.156	0.148	3.7
Chloroform	0.471	0.473	0.434	0.428	0.432	0.475	0.452	5.1
1,1,1-Trichloroethane	0.394	0.406	0.376	0.357	0.360	0.356	0.375	5.6
1,1-Dichloropropene	0.134	0.135	0.126	0.123	0.127	0.126	0.129	3.7
Carbon tetrachloride	0.340	0.349	0.332	0.308	0.320	0.270	0.320	8.8
1,2-Dichloroethane	0.379	0.388	0.375	0.372	0.384	0.331	0.372	5.6
Benzene	1.009	1.014	0.925	0.876	0.844	1.064	0.955	9.1
Trichloroethene	0.303	0.308	0.284	0.275	0.271	0.343	0.297	9.0
1,2-Dichloropropane	0.277	0.286	0.257	0.254	0.256	0.279	0.268	5.2

6C - FORM VI VOA-3
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc.

Contract:

Lab Code: MITKEM Case No.: L0639 SAS No.: SDG No.: SL0639

Instrument ID: V6 Calibration Date(s): 04/23/2012 04/23/2012

Heated Purge: (Y/N) N Calibration Times: 11:34 13:36

Purge Volume: 5 (mL)

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (mm)

LAB FILE ID: RRF005 = V6I6183.D RRF020 = V6I6184.D RRF050 = V6I6185.D RRF100 = V6I6186.D RRF200 = V6I6187.D
RRF001 = V6I6182.D

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF001	RRF	% RSD
tert-Butylbenzene	1.980	1.986	1.859	1.811	1.790	2.048	1.913	5.6
1,2,4-Trimethylbenzene	1.730	1.800	1.645	1.599	1.532	1.866	1.695	7.4
sec-Butylbenzene	2.158	2.123	1.958	1.876	1.787	1.866	1.961	7.6
4-Isopropyltoluene	1.757	1.757	1.577	1.604	1.546	2.048	1.715	10.9
1,3-Dichlorobenzene	1.065	1.090	1.003	0.984	0.944	1.090	1.029	5.9
1,4-Dichlorobenzene	1.114	1.105	1.043	0.998	0.966	1.226	1.075	8.7
1,2-Dichlorobenzene	1.064	1.049	0.998	0.956	0.927	1.226	1.036	10.3
1,2-Dibromo-3-chloropropane	0.104	0.114	0.118	0.114	0.117	0.104	0.112	5.6
1,2,4-Trichlorobenzene	0.504	0.544	0.479	0.556	0.567	0.515	0.527	6.4
Hexachlorobutadiene	0.219	0.210	0.195	0.221	0.234	0.234	0.219	6.7
1,2,3-Trichlorobenzene	0.452	0.470	0.425	0.494	0.513	0.422	0.463	7.9
Naphthalene	1.181	1.386	1.304	1.402	1.372	1.201	1.308	7.4
1,1,2-Trichloro-1,2,2-trifluoro	0.285	0.304	0.278	0.266	0.273	0.207	0.269	12.2
1,4-Dioxane	0.001	0.002	0.002	0.002	0.002		0.002	14.2
Cyclohexane	0.449	0.472	0.431	0.414	0.429	0.439	0.439	4.5
Methyl acetate	0.240	0.241	0.231	0.225	0.231	0.258	0.238	4.9
Methylcyclohexane	0.388	0.415	0.356	0.365	0.374	0.301	0.366	10.4

Spectrum Analytical, Inc. RI Division
Volatiles Laboratory

METHOD: 8260 W

ANALYTICAL DATE: 4/23/12

ANALYST: AEV

BATCH: 120423.B

Start: 23-APR-12 10:44
End: 23-APR-12 14:24

Comments:

Standards: BFB VW120416A
15/55 VW12052CA
STD VW120418A
1CV VW120418B

Revised By: J4-23N Manual Integration: AEO 4/23/12 MI Review:

FILE	TIME	LAB ID	CLIENT ID	PREP MT	INTERNAL STDS				SURROGATES				DILN	FLG	COMMENTS	PH
					BATCH	FEZ	CBZ	DCB	DFM	DCE	TOL	RFB				
V616180	10:44	BFB6Q	BFB6Q	AQ									1		OK	
V616181	11:10	VSTD0016Q	VSTD0016Q	AQ	101	100	98						1		NOT USED	
V616182	11:34	VSTD0016Q	VSTD0016Q	AQ	100	99	99						1		OK MI 20_97	
V616183	11:59	VSTD0056Q	VSTD0056Q	AQ	99	99	101						1		OK MI_78	
V616184	12:23	VSTD0206Q	VSTD0206Q	AQ	99	99	104						1		OK	
V616185	12:47	VSTD0506Q	VSTD0506Q	AQ	100	100	100						1		OK	
V616186	13:12	VSTD1006Q	VSTD1006Q	AQ	103	103	109						1		OK	
V616187	13:36	VSTD2006Q	VSTD2006Q	AQ	103	105	111						1		OK	
V616188	14:24	VICV0506Q	VICV0506Q	AQ	107	106	105	100	100	105	100	100	1	1	OK	

- E - One or more target compounds are above the calibration range
- R - One or more spike compounds are outside of control limits
- I - Sample was injected outside of the 12 hour sequence
- T - Internal Standard or Surrogate outside of control limit
- D - Surrogates are diluted

Surrogates are diluted

800 4/23/12

The graph consists of a grid with 10 vertical lines and 10 horizontal lines. A curve starts at the origin (0,0) and increases, passing through approximately (2, 1), (4, 4), (6, 9), (8, 16), and (10, 25). The y-axis is labeled '800' and the x-axis is labeled '4/23/12'.

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
 Instrument ID: V6 Calibration Date: 04/24/2012 Time: 11:06
 Lab File ID: V6I6212.D Init. Calib. Date(s): 04/23/2012 04/23/2012
 EPA Sample No. (VSTD####) VSTD0506S Init. Calib. Time(s): 11:34 13:36
 Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)
 Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.280	0.286	0.100	2.4	20.0
Chloromethane	0.467	0.545	0.010	16.6	20.0
Vinyl chloride	0.357	0.403	0.010	12.9	20.0
Bromomethane	0.206	0.219	0.010	6.4	20.0
Chloroethane	0.216	0.240	0.010	11.1	20.0
Trichlorofluoromethane	0.402	0.431	0.010	7.4	20.0
1,1-Dichloroethene	0.264	0.297	0.100	12.4	20.0
Acetone	0.035	0.026	0.010	-26.2	20.0
Iodomethane	0.380	0.445	0.010	17.0	20.0
Carbon disulfide	0.830	0.876	0.010	5.6	20.0
Methylene chloride	0.326	0.332	0.010	2.0	20.0
trans-1,2-Dichloroethene	0.247	0.298	0.010	20.8	20.0
Methyl tert-butyl ether	0.729	0.835	0.010	14.6	20.0
1,1-Dichloroethane	0.470	0.518	0.010	10.3	20.0
Vinyl acetate	1.120	1.242	0.010	11.0	20.0
2-Butanone	0.036	0.034	0.010	-5.8	20.0
cis-1,2-Dichloroethene	0.277	0.321	0.010	15.6	20.0
2,2-Dichloropropane	0.227	0.269	0.010	18.4	20.0
Bromochloromethane	0.148	0.173	0.010	17.2	20.0
Chloroform	0.452	0.513	0.010	13.5	20.0
1,1,1-Trichloroethane	0.375	0.429	0.010	14.4	20.0
1,1-Dichloropropene	0.129	0.145	0.010	13.0	20.0
Carbon tetrachloride	0.320	0.381	0.010	19.1	20.0
1,2-Dichloroethane	0.372	0.445	0.010	19.9	20.0
Benzene	0.955	1.077	0.010	12.7	20.0
Trichloroethene	0.297	0.325	0.010	9.5	20.0
1,2-Dichloropropane	0.268	0.303	0.010	12.9	20.0
Dibromomethane	0.177	0.207	0.010	17.2	20.0
Bromodichloromethane	0.353	0.424	0.010	20.2	20.0
cis-1,3-Dichloropropene	0.410	0.484	0.010	18.2	20.0
4-Methyl-2-pentanone	0.290	0.312	0.010	7.5	20.0
Toluene	1.030	1.176	0.010	14.2	20.0
trans-1,3-Dichloropropene	0.382	0.468	0.010	22.4	20.0
1,1,2-Trichloroethane	0.239	0.272	0.010	13.5	20.0
1,3-Dichloropropane	0.398	0.413	0.010	3.7	20.0
Tetrachloroethene	0.253	0.238	0.010	-5.7	20.0
2-Hexanone	0.218	0.200	0.010	-8.4	20.0
Dibromochloromethane	0.308	0.334	0.010	8.5	20.0
1,2-Dibromoethane	0.279	0.290	0.010	3.9	20.0
Chlorobenzene	0.728	0.767	0.010	5.3	20.0

Start: 24-APR-12 10:07
End: 24-APR-12 21:31
BATCH: 120424.B
ANALYST: AED
METHOD: 82004180
ICAL DATE: 4/25/12

Spectrum Analytical, Inc. RI Division V6 Injection Log
Volatiles Laboratory

Comments:

Standards: 82004180 2 ul
82004180 2 ul
82004180 2 ul
82004180 2 ul

Reviewed By: [Signature] Manual Integration: N/A MI Review: N/A

FILE	TIME	LAB ID	CLIENT ID	PREP	INT	IBN	INTERNAL STDS	SURROGATES	DIAN	FLAG	COMMENTS	pH
V616210	10:07	BFB6S	BFB6S									
V616211	10:32	VSTD0506S	VSTD0506S									
V616212	11:06	VSTD0506S	VSTD0506S									
V616213	11:44	LCS-65780	LCS-65780									
V616214	12:09	LCS-65781	LCS-65781									
V616215	12:33	MB-65781	MB-65781									
V616216	12:58	MB-65781	MB-65781									
V616217	13:22	MB-65780	MB-65780									
V616218	13:46	L0639-16ADL	DEC-03IDL									
V616219	14:11	L0678-02ADL	BED04-GW-DUP01-									
V616220	14:35	L0757-01B	SB47308-01									
V616221	14:59	L0757-02B	SB47308-02									
V616222	15:24	L0757-03B	SB47308-03									
V616223	15:48	L0757-04B	SB47308-04									
V616224	16:12	L0757-05B	SB47308-05									
V616225	16:39	L0757-01B	SB47308-01									
V616226	17:03	L0757-02B	SB47308-02									
V616227	17:27	L0757-03B	SB47308-03									
V616228	17:52	L0757-04B	SB47308-04									
V616229	18:16	L0757-05B	SB47308-05									
V616230	18:41	L0751-01B	L0639-16ADL									
V616231	19:05	L0782-01A	S04-WR2									
V616232	19:29	L0767-04A	ESL-CE-041812									
V616233	19:53	L0767-05A	ESL-HF2E-041812									
V616234	20:18	L0767-06A	ESL-ED-041812									
V616235	20:42	L0795-02A	GP-1 (GW)									
V616236	21:06	L0795-03AMS	GP-4 (GW) MS									
V616237	21:31	L0795-03AMS	GP-4 (GW) MSD									

E - One or more target compounds are above the calibration range
R - One or more spike compounds are outside of control limits
T - Sample was injected outside of the 12 hour sequence
* - Internal Standard or Surrogate outside of control limit
SD - Surrogates are diluted

AED 4/25/12

6C - FORM VI VOA-3
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc.

Lab Code: MITKEM Case No.: L0639 SAS No.: SDG No.: SL0639

Instrument ID: V10 Calibration Date(s): 03/30/2012 03/30/2012

Heated Purge: (Y/N) N Calibration Times: 11:39 14:15

Purge Volume: 5 (mL)

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (mm)

LAB FILE ID: RRF005 = V8B0285.D RRF020 = V8B0284.D RRF050 = V8B0283.D RRF100 = V8B0289.D RRF200 = V8B0288.D
RRF001 = V8B0287.D

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF001	RRF	% RSD
Dichlorodifluoromethane	0.201	0.194	0.142	0.176	0.176	0.187	0.180	11.6
Chloromethane	0.322	0.311	0.230	0.283	0.295	0.344	0.297	13.2
Vinyl chloride	0.281	0.272	0.202	0.255	0.253	0.279	0.257	11.5
Bromomethane	0.215	0.185	0.130	0.159	0.152	0.277	0.186	28.6
Chloroethane	0.156	0.153	0.113	0.135	0.130	0.179	0.144	16.1
Trichlorofluoromethane	0.372	0.361	0.266	0.324	0.328	0.380	0.339	12.4
1,1-Dichloroethene	0.301	0.289	0.212	0.278	0.272	0.317	0.278	13.0
Acetone	0.035	0.039	0.025	0.037	0.038		0.035	17.2
Iodomethane	0.236	0.290	0.241	0.308	0.324	0.169	0.261	22.0
Carbon disulfide	1.008	0.922	0.712	0.876	0.849	1.163	0.922	16.6
Methylene chloride	0.354	0.338	0.258	0.317	0.313	0.395	0.329	14.0
trans-1,2-Dichloroethene	0.318	0.307	0.231	0.295	0.289	0.335	0.296	12.1
Methyl tert-butyl ether	0.806	0.830	0.670	0.808	0.799	0.832	0.791	7.7
1,1-Dichloroethane	0.584	0.568	0.426	0.531	0.524	0.610	0.541	12.0
Vinyl acetate	0.905	0.970	0.793	0.932	0.914	0.862	0.896	6.9
2-Butanone	0.028	0.037	0.029	0.038	0.039		0.034	16.2
cis-1,2-Dichloroethene	0.348	0.339	0.261	0.328	0.323	0.335	0.322	9.7
2,2-Dichloropropane	0.442	0.439	0.332	0.404	0.408	0.441	0.411	10.3
Bromochloromethane	0.165	0.162	0.127	0.149	0.151	0.152	0.151	8.8
Chloroform	0.567	0.552	0.420	0.523	0.519	0.617	0.533	12.3
1,1,1-Trichloroethane	0.470	0.456	0.340	0.438	0.438	0.471	0.436	11.3
1,1-Dichloropropene	0.152	0.151	0.115	0.149	0.147	0.139	0.142	10.0
Carbon tetrachloride	0.397	0.391	0.294	0.378	0.377	0.399	0.373	10.7
1,2-Dichloroethane	0.412	0.410	0.324	0.386	0.388	0.451	0.395	10.6
Benzene	1.296	1.251	0.948	1.182	1.150	1.377	1.201	12.3
Trichloroethene	0.320	0.313	0.239	0.310	0.308	0.354	0.307	12.2
1,2-Dichloropropane	0.335	0.325	0.254	0.308	0.300	0.358	0.313	11.4

sem111027A

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

SW846

6C - FORM VI VOA-3
VOLATILE ORGANICS INITIAL CALIBRATION DATA
Contract:

Lab Name: Spectrum Analytical, Inc.

Lab Code: MITKEM Case No.: I0639 SAS No.: SDG No.: SL0639

Instrument ID: V10 Heated Purge: (Y/N) N Calibration Date(s): 03/30/2012 03/30/2012

Purge Volume: 5 mL Calibration Times: 11:39 14:15

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (mm)

LAB FILE ID: RRF005 = V8B0285.D RRF020 = V8B0284.D RRF050 = V8B0283.D RRF100 = V8B0289.D RRF200 = V8B0288.D

RRF001 = V8B0287.D

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF001	RRF	% RSD
Dibromomethane	0.199	0.201	0.164	0.195	0.197	0.210	0.194	8.2
Bromodichloromethane	0.399	0.405	0.325	0.398	0.404	0.458	0.398	10.7
cis-1,3-Dichloropropene	0.437	0.474	0.389	0.483	0.487	0.476	0.458	8.4
4-Methyl-2-pentanone	0.207	0.235	0.197	0.242	0.250		0.226	10.1
Toluene	1.287	1.264	0.966	1.219	1.194	1.425	1.226	12.3
trans-1,3-Dichloropropene	0.371	0.414	0.348	0.431	0.442	0.415	0.404	9.0
1,1,2-Trichloroethane	0.282	0.284	0.227	0.274	0.276	0.385	0.288	18.0
1,3-Dichloropropane	0.610	0.608	0.488	0.579	0.562	0.788	0.606	16.4
Tetrachloroethene	0.376	0.330	0.253	0.320	0.309	0.500	0.348	24.2
2-Hexanone	0.167	0.208	0.169	0.227	0.228		0.200	15.0
Dibromochloromethane	0.371	0.393	0.331	0.399	0.404	0.479	0.396	12.3
1,2-Dibromoethane	0.356	0.367	0.299	0.362	0.361	0.454	0.367	13.5
Chlorobenzene	1.106	1.044	0.817	0.996	0.964	1.407	1.056	18.7
1,1,1,2-Tetrachloroethane	0.373	0.365	0.293	0.354	0.353	0.478	0.369	16.3
Ethylbenzene	0.524	0.534	0.424	0.521	0.511	0.597	0.518	10.7
m,p-Xylene	0.665	0.661	0.527	0.632	0.603	0.719	0.634	10.3
o-Xylene	0.617	0.633	0.512	0.618	0.596	0.689	0.611	9.5
Xylene (Total)	0.649	0.652	0.522	0.627	0.600	0.709	0.627	10.0
Styrene	0.953	1.029	0.850	1.046	1.015	1.015	0.985	7.4
Bromoform	0.225	0.239	0.205	0.257	0.264	0.317	0.251	15.5
Isopropylbenzene	1.471	1.536	1.266	1.510	1.467	1.539	1.465	7.0
1,1,2,2-Tetrachloroethane	1.026	0.946	0.742	0.863	0.822	1.663	1.010	33.1
Bromobenzene	0.890	0.842	0.670	0.787	0.766	1.186	0.857	20.2
1,2,3-Trichloropropane	1.118	1.112	0.899	1.061	1.033	1.849	1.179	28.7
2-Chlorotoluene	0.801	0.772	0.615	0.714	0.688	0.942	0.755	14.9
1,3,5-Trimethylbenzene	2.465	2.509	2.065	2.330	2.219	2.674	2.377	9.2
4-Chlorotoluene	0.829	0.798	0.635	0.735	0.707	0.964	0.778	14.6

sem111027A

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

SW846

6C - FORM VI VOA-3
VOLATILE ORGANICS INITIAL CALIBRATION DATA
Contract:

Lab Name: Spectrum Analytical, Inc.

Lab Code: MITKEM Case No.: L0639 SAS No.: SDG No.: SL0639

Instrument ID: V10 Heated Purge: (Y/N) N Calibration Date(s): 03/30/2012 03/30/2012

Purge Volume: 5 mL Calibration Times: 11:39 14:15

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (mm)

LAB FILE ID: RRF005 = V8B0285.D RRF020 = V8B0284.D RRF050 = V8B0283.D RRF100 = V8B0289.D RRF200 = V8B0288.D

RRF001 = V8B0287.D

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF001	RRF	% RSD
tert-Butylbenzene	2.446	2.525	2.115	2.318	2.212	2.884	2.417	11.3
1,2,4-Trimethylbenzene	2.497	2.558	2.104	2.356	2.251	2.605	2.395	8.1
sec-Butylbenzene	2.979	3.048	2.598	2.799	2.660	3.130	2.869	7.5
4-Isopropyltoluene	2.424	2.464	2.104	2.280	2.173	2.588	2.339	7.9
1,3-Dichlorobenzene	1.570	1.449	1.170	1.343	1.285	1.999	1.469	20.0
1,4-Dichlorobenzene	1.628	1.497	1.203	1.380	1.316	2.283	1.551	25.0
1,2-Dichlorobenzene	1.543	1.425	1.134	1.299	1.227	2.037	1.444	22.5
1,2-Dibromo-3-chloropropane	0.139	0.131	0.100	0.133	0.121	0.170	0.132	17.3
1,2,4-Trichlorobenzene	0.671	0.663	0.541	0.712	0.645	0.424	0.609	17.6
Hexachlorobutadiene	0.425	0.350	0.294	0.303	0.276	0.453	0.350	21.0
1,2,3-Trichlorobenzene	0.649	0.595	0.449	0.642	0.537	0.375	0.541	20.4
Naphthalene	1.261	1.396	1.087	1.791	1.464	1.125	1.354	19.2
1,1,2-Trichloro-1,2,2-trifluoro	0.308	0.292	0.220	0.262	0.260	0.301	0.274	12.0
1,4-Dioxane	0.003	0.003	0.003	0.004	0.004	0.004	0.003	13.4
Cyclohexane	0.478	0.478	0.375	0.439	0.432	0.436	0.440	8.6
Methyl acetate	0.188	0.201	0.165	0.193	0.190	0.195	0.189	6.6
Methylcyclohexane	0.436	0.444	0.378	0.410	0.402	0.393	0.410	6.2

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
 Instrument ID: V10 Calibration Date: 04/09/2012 Time: 9:30
 Lab File ID: V8B0511.D Init. Calib. Date(s): 03/30/2012 03/30/2012
 EPA Sample No. (VSTD####) VSTD05010T Init. Calib. Time(s): 11:39 14:15
 Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)
 Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.180	0.141	0.100	-21.5	20.0
Chloromethane	0.297	0.293	0.010	-1.4	20.0
Vinyl chloride	0.257	0.265	0.010	3.3	20.0
Bromomethane	0.186	0.166	0.010	-10.8	20.0
Chloroethane	0.144	0.162	0.010	12.1	20.0
Trichlorofluoromethane	0.339	0.361	0.010	6.6	20.0
1,1-Dichloroethene	0.278	0.264	0.100	-5.1	20.0
Acetone	0.035	0.032	0.010	-7.5	20.0
Iodomethane	0.261	0.217	0.010	-16.9	20.0
Carbon disulfide	0.922	0.959	0.010	4.0	20.0
Methylene chloride	0.329	0.327	0.010	-0.6	20.0
trans-1,2-Dichloroethene	0.296	0.301	0.010	1.7	20.0
Methyl tert-butyl ether	0.791	0.761	0.010	-3.8	20.0
1,1-Dichloroethane	0.541	0.548	0.010	1.3	20.0
Vinyl acetate	0.896	0.962	0.010	7.3	20.0
2-Butanone	0.034	0.033	0.010	-4.7	20.0
cis-1,2-Dichloroethene	0.322	0.328	0.010	1.9	20.0
2,2-Dichloropropane	0.411	0.438	0.010	6.6	20.0
Bromochloromethane	0.151	0.152	0.010	0.4	20.0
Chloroform	0.533	0.556	0.010	4.4	20.0
1,1,1-Trichloroethane	0.436	0.448	0.010	2.8	20.0
1,1-Dichloropropene	0.142	0.141	0.010	-0.5	20.0
Carbon tetrachloride	0.373	0.392	0.010	5.1	20.0
1,2-Dichloroethane	0.395	0.421	0.010	6.6	20.0
Benzene	1.201	1.238	0.010	3.1	20.0
Trichloroethene	0.307	0.304	0.010	-1.2	20.0
1,2-Dichloropropane	0.313	0.325	0.010	3.7	20.0
Dibromomethane	0.194	0.202	0.010	4.0	20.0
Bromodichloromethane	0.398	0.419	0.010	5.3	20.0
cis-1,3-Dichloropropene	0.458	0.465	0.010	1.7	20.0
4-Methyl-2-pentanone	0.226	0.226	0.010	-0.1	20.0
Toluene	1.226	1.238	0.010	1.0	20.0
trans-1,3-Dichloropropene	0.404	0.425	0.010	5.4	20.0
1,1,2-Trichloroethane	0.288	0.280	0.010	-2.6	20.0
1,3-Dichloropropane	0.606	0.612	0.010	1.0	20.0
Tetrachloroethene	0.348	0.325	0.010	-6.7	20.0
2-Hexanone	0.200	0.196	0.010	-1.7	20.0
Dibromochloromethane	0.396	0.417	0.010	5.3	20.0
1,2-Dibromoethane	0.367	0.356	0.010	-2.9	20.0
Chlorobenzene	1.056	1.052	0.010	-0.4	20.0

Spectrum Analytical, Inc. RI Division V10 Injection Log METHOD: 8260W ANALYST: AED BATCH: 120409.B Start: 09-APR-12 09:18
Volatiles Laboratory ICAI DATE: 3/30/12 End: 09-APR-12 22:05

Comments:

Standards: BFB VW120404A 2 ul
SIS VW120326A AED 20 ul
STD VW120329A 20 ul

Reviewed By: *Jan 4/10/12* Manual Integration: N/A MI Review: N/A

FILE	TIME	LAB ID	CLIENT ID	PREP	MT	EN	BATCH	FBZ	CBZ	DCB	DFM	DCE	TOL	BFB	DILN	FLG	COMMENTS	pH
V8B0510	09:18	BFB10T	BFB10T				AQ								1	OK		
V8B0511	09:30	VSTD05010T	VSTD05010T				AQ	100	100	100					1	OK		
V8B0512	10:12	LCS-65497	LCS-65497				65497	AQ	99	95	101	102	100	97	1	OK		
V8B0513	10:38	LCS-65497	LCS-65497				65497	AQ	100	98	95	100	102	102	98	1	OK	
V8B0514	11:04	MB-65497	MB-65497				65497	AQ	94	87	72	102	102	106	91	1	NOT USED	
V8B0515	11:30	MB-65497	MB-65497				65497	AQ	90	84	66	104	104	105	89	1	NOT USED	
V8B0516	11:56	MB-65497	MB-65497				65497	AQ	86	80	62	105	103	105	88	1	OK	
V8B0517	12:22	L0621-18A	TRIP BLANK				65497	AQ	84	79	60	106	103	106	88	1	OK	
V8B0518	12:48	L0614-20A	NW09-20D-033012				65497	AQ	84	78	60	106	106	106	88	1	OK	
V8B0519	14:11	L0614-22A	NW09-20I-033012				65497	AQ	84	77	59	106	104	106	87	100	RR @ 40x	
V8B0520	14:37	L0615-06A	BED3-GW-MW72I-0				65497	AQ	91	84	65	106	104	107	88	10	RR @ 1x	
V8B0521	15:03	L0615-07A	BED3-GW-MW73I-0				65497	AQ	85	79	60	107	106	107	87	10	RR @ 1x	
V8B0522	15:30	L0621-08A	DEC-031TC				65497	AQ	90	83	66	106	104	106	87	1	OK	
V8B0523	15:56	L0621-09A	DEC-013				65497	AQ	89	84	65	108	105	105	87	20	OK, PCE = 125	
V8B0524	16:22	L0621-11A	DEC-028				65497	AQ	90	84	64	107	105	106	88	20	RR @ 5x	
V8B0525	16:49	L0621-12A	DEC-028D				65497	AQ	90	84	63	108	106	106	86	20	RR @ 1x	
V8B0526	17:15	L0621-13A	DEC-011				65497	AQ	89	82	62	109	106	107	87	1	OK	
V8B0527	17:42	L0621-14A	DEC-011D				65497	AQ	90	85	71	108	106	107	90	1	OK	
V8B0528	18:08	L0621-15A	20120330-FD-1				65497	AQ	89	83	66	108	107	107	88	1	OK	
V8B0529	18:35	L0639-01A	DEC-008				65497	AQ	89	83	64	109	106	106	86	20	OK, PCE = 0.4	
V8B0530	19:01	L0639-02A	DEC-042				65497	AQ	90	84	64	109	107	106	87	1	OK	
V8B0531	19:27	L0639-03A	DEC-065				65497	AQ	89	83	63	110	106	107	86	5	RR @ 2x	
V8B0532	19:54	L0639-04A	DEC-065D				65497	AQ	90	82	62	108	105	109	86	5	OK, TCE = 95	
V8B0533	20:20	L0639-05A	DEC-044				65497	AQ	89	82	62	108	106	107	86	20	RR @ 10x	
V8B0534	20:46	L0639-11A	DEC-010				65497	AQ	90	82	62	110	106	108	86	1	OK	
V8B0535	21:12	L0639-12A	DEC-004				65497	AQ	89	82	62	109	106	108	87	1	OK	
V8B0536	21:39	L0639-13A	DEC-029TC				65497	AQ	94	87	67	104	103	103	88	1	1E TOUT OF TUNE, RR @ 1x	
V8B0537	22:05	L0621-09AMS	DEC-031TCMS				65497	AQ	98	100	101	103	105	99	99	1	1E TOUT OF TUNE, RR @ 1x	

E - One or more target compounds are above the calibration range
R - One or more spike compounds are outside of control limits
T - Sample was injected outside of the 12 hour sequence
* - Internal Standard or Surrogate outside of control limit
- Surrogates are diluted

AED 4/10/12

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
 Instrument ID: V10 Calibration Date: 04/10/2012 Time: 9:10
 Lab File ID: V8B0553.D Init. Calib. Date(s): 03/30/2012 03/30/2012
 EPA Sample No. (VSTD####) VSTD05010U Init. Calib. Time(s): 11:39 14:15
 Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)
 Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.180	0.102	0.100	-43.3	20.0
Chloromethane	0.297	0.239	0.010	-19.6	20.0
Vinyl chloride	0.257	0.223	0.010	-13.2	20.0
Bromomethane	0.186	0.155	0.010	-16.9	20.0
Chloroethane	0.144	0.139	0.010	-3.4	20.0
Trichlorofluoromethane	0.339	0.290	0.010	-14.4	20.0
1,1-Dichloroethene	0.278	0.243	0.100	-12.4	20.0
Acetone	0.035	0.034	0.010	-3.3	20.0
Iodomethane	0.261	0.256	0.010	-1.9	20.0
Carbon disulfide	0.922	0.826	0.010	-10.4	20.0
Methylene chloride	0.329	0.313	0.010	-5.0	20.0
trans-1,2-Dichloroethene	0.296	0.280	0.010	-5.5	20.0
Methyl tert-butyl ether	0.791	0.741	0.010	-6.3	20.0
1,1-Dichloroethane	0.541	0.517	0.010	-4.4	20.0
Vinyl acetate	0.896	0.901	0.010	0.6	20.0
2-Butanone	0.034	0.033	0.010	-4.3	20.0
cis-1,2-Dichloroethene	0.322	0.309	0.010	-4.0	20.0
2,2-Dichloropropane	0.411	0.395	0.010	-3.9	20.0
Bromochloromethane	0.151	0.143	0.010	-5.6	20.0
Chloroform	0.533	0.510	0.010	-4.3	20.0
1,1,1-Trichloroethane	0.436	0.398	0.010	-8.5	20.0
1,1-Dichloropropene	0.142	0.132	0.010	-7.2	20.0
Carbon tetrachloride	0.373	0.338	0.010	-9.4	20.0
1,2-Dichloroethane	0.395	0.379	0.010	-4.1	20.0
Benzene	1.201	1.151	0.010	-4.1	20.0
Trichloroethene	0.307	0.279	0.010	-9.3	20.0
1,2-Dichloropropane	0.313	0.304	0.010	-2.9	20.0
Dibromomethane	0.194	0.186	0.010	-4.3	20.0
Bromodichloromethane	0.398	0.383	0.010	-3.8	20.0
cis-1,3-Dichloropropene	0.458	0.446	0.010	-2.6	20.0
4-Methyl-2-pentanone	0.226	0.211	0.010	-6.7	20.0
Toluene	1.226	1.164	0.010	-5.1	20.0
trans-1,3-Dichloropropene	0.404	0.395	0.010	-2.0	20.0
1,1,2-Trichloroethane	0.288	0.261	0.010	-9.3	20.0
1,3-Dichloropropane	0.606	0.584	0.010	-3.5	20.0
Tetrachloroethene	0.348	0.305	0.010	-12.3	20.0
2-Hexanone	0.200	0.195	0.010	-2.2	20.0
Dibromochloromethane	0.396	0.386	0.010	-2.5	20.0
1,2-Dibromoethane	0.367	0.343	0.010	-6.4	20.0
Chlorobenzene	1.056	1.015	0.010	-3.9	20.0

INJECTION LOG

Spectrum Analytical, Inc. RI Division V10 Injection Log METHOD: 826014805 ANALYST: AGD
Volatiles Laboratory ICAI DATE: 3/31/12

Start: 10-APR-12 08:23
End: 10-APR-12 19:31

Comments:

Standards: BFB V1012-10-1A 2 uL
V135 V1012-03-1A 20 uL
STD V1012-03-1A 20 uL

Reviewed By: JH4412 Manual Integration: N/A MI Review: N/A

FILE	TIME	LAB ID	CLIENT ID	PREP	MT	IN	INTERVAL	STDS	SURROGATES	DILN	FLG	COMMENTS	pH
V8B0552	08:23	BFB10U	BFB10U		AC								
V8B0553	09:10	VSTD05010U	VSTD05010U		AC								
V8B0554	09:51	LCS-65517	LCS-65517		65517	AC	100	100	100	103	98	1 ER	
V8B0555	10:17	LCS-65518	LCS-65518		65518	SL	103	103	102	99	100	102	98
V8B0556	10:43	MB-65518	MB-65518		65518	SL	96	93	82	101	101	105	92
V8B0557	11:09	MB-65518	MB-65518		65518	SL	95	91	78	101	100	104	91
V8B0558	11:35	MB-65517	MB-65517		65517	AC	92	88	74	102	102	105	90
V8B0559	12:01	L0610-01ADL	SB-5(12'-13')DL	65518	SL	2	90	89	74	102	101	102	91
V8B0560	12:27	L0610-03ADL	SB-6(10'-14')DL	65518	SL	2	89	88	71	102	102	103	88
V8B0561	12:53	L0610-05ADL	SB-7(11'-12')DL	65518	SL	2	87	85	68	104	105	103	88
V8B0562	13:19	L0610-06ADL	SB-7(15.5'-17')DL	65518	SL	2	85	84	67	105	106	104	88
V8B0563	13:45	L0610-07ADL	SB-8(11'-12')DL	65518	SL	2	84	82	65	105	106	105	88
V8B0564	14:12	L0610-09A	DUP-SL	65518	SL	2	78	80	71	104	106	100	94
V8B0565	14:38	L0615-06A	BED3-GW-MW72I-0	65517	AC	2	82	80	66	106	106	106	89
V8B0566	15:04	L0615-07A	BED3-GW-MW73I-0	65517	AC	2	83	79	65	106	104	106	88
V8B0567	15:31	L0614-22A	MW09-20I-033012	65517	AC	2	85	83	71	105	103	106	90
V8B0568	15:59	L0621-11A	DEC-028	65517	AC	2	81	78	54	107	104	105	90
V8B0569	16:25	L0621-12A	DEC-028D	65517	AC	2	81	77	64	107	105	107	89
V8B0570	16:52	L0639-03A	DEC-065	65517	AC	2	80	78	63	108	107	105	88
V8B0571	17:18	L0639-05A	DEC-044	65517	AC	2	80	78	63	109	107	104	87
V8B0572	17:45	L0639-13A	DEC-029TC	65517	AC	2	84	80	67	103	103	103	90
V8B0573	18:12	L0610-09ADL	DUP-SIDL	65518	SL	2	75	77	64	107	108	101	92
V8B0574	18:38	L0614-22A	MW09-20I-033012	65517	AC	2	84	82	71	106	106	106	90
V8B0575	19:05	L0603-12AMS	SED03-12A-03271	65518	SL	2	81	91	103	103	106	95	105
V8B0576	19:31	L0603-12AMS	SED03-12A-03271	65518	SL	2	87	96	104	101	105	94	103

X - One or more target compounds are above the calibration range
R - One or more spike compounds are outside of control limits
I - Sample was injected outside of the 12 hour sequence
* - Internal Standard or Surrogate outside of control limit
D - Surrogates are diluted

AGD 4/11/12

Spectrum Analytical, Inc. RI Division V10 Injection Log

METHOD: Standard ANALYST: GA

BATCH: 120330.B

Start: 30-MAR-12 09:45

End: 30-MAR-12 16:30

Comments:

Standards: BFB V1011010L 2 UL

3555 V10120320L 1 UL

STD V10120320L 20 UL

ICV V10120320L 20 UL

Reviewed By: GA Manual Integration: GA MI Review: GA

NOT GOOD FOR 2-CVE

FILE	TIME	LAB ID	CLIENT ID	PREP	BATCH	INTERNAL STDS				SURROGATES				DIAN	FLG	COMMENTS	PH
						FBZ	CBZ	DCB	DFM	DCE	TOL	BFB					
V8B0280	09:45	BFB10L	BFB10L	AQ										1		OK	
V8B0283	11:39	VSTD05010L	VSTD05010L	AQ		100	100	100						1		OK	
V8B0284	12:05	VSTD02010L	VSTD02010L	AQ		100	101	98						1		OK	
V8B0285	12:31	VSTD00510L	VSTD00510L	AQ		99	98	93						1		OK	
V8B0287	13:23	VSTD00110L	VSTD00110L	AQ		96	94	87						1		OK	
V8B0288	13:49	VSTD20010L	VSTD20010L	AQ		100	103	109						1		OK	
V8B0289	14:15	VSTD10010L	VSTD10010L	AQ		102	103	107						1		OK	
V8B0290	16:30	VICV05010L	VICV05010L	AQ		103	105	107	100	101	100	100		1	ER	OK	

E - One or more target compounds are above the calibration range

R - One or more spike compounds are outside of control limits

T - Sample was injected outside of the 12 hour sequence

* - Internal Standard or Surrogate outside of control limit

D - Surrogates are diluted

GA 4/12

6C - FORM VI VOA-3
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc.

Contract:

Lab Code: MITKEM Case No.: L0639 SAS No.: SDG No.: SL0639

Instrument ID: V10 Calibration Date(s): 04/11/2012 04/11/2012

Heated Purge: (Y/N) N Calibration Times: 8:55 11:53

Purge Volume: 5 (mL)

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (mm)

LAB FILE ID: RRF005 = V8B0594.D RRF020 = V8B0593.D RRF050 = V8B0592.D RRF100 = V8B0598.D RRF200 = V8B0597.D												
RRF001 = V8B0596.D												
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF001				RRF	% RSD	
Dichlorodifluoromethane	0.393	0.367	0.324	0.328	0.343	0.404				0.360	9.4	
Chloromethane	0.452	0.413	0.386	0.380	0.420	0.496				0.424	10.3	
Vinyl chloride	0.386	0.367	0.339	0.331	0.352	0.396				0.362	7.1	
Bromomethane	0.254	0.217	0.197	0.194	0.158	0.404				0.237	36.9	
Chloroethane	0.202	0.189	0.174	0.164	0.167	0.206				0.184	9.8	
Trichlorofluoromethane	0.442	0.417	0.369	0.365	0.390	0.473				0.409	10.4	
1,1-Dichloroethene	0.287	0.272	0.248	0.267	0.273	0.297				0.274	6.1	
Acetone	0.052	0.047	0.042	0.042	0.041					0.045	10.6	
Iodomethane	0.204	0.239	0.258	0.292	0.292	0.129				0.236	26.3	
Carbon disulfide	1.018	0.942	0.853	0.854	0.872	1.227				0.961	15.1	
Methylene chloride	0.374	0.323	0.301	0.311	0.320	0.516				0.358	22.8	
trans-1,2-Dichloroethene	0.304	0.291	0.277	0.288	0.293	0.304				0.293	3.6	
Methyl tert-butyl ether	0.706	0.730	0.691	0.782	0.798	0.640				0.725	8.1	
1,1-Dichloroethane	0.586	0.540	0.503	0.516	0.533	0.576				0.542	6.0	
Vinyl acetate	0.828	0.880	0.850	0.917	0.935	0.719				0.855	9.1	
2-Butanone	0.029	0.039	0.036	0.041	0.041					0.037	13.9	
cis-1,2-Dichloroethene	0.320	0.315	0.302	0.319	0.325	0.310				0.315	2.6	
2,2-Dichloropropane	0.418	0.422	0.393	0.394	0.412	0.408				0.408	3.0	
Bromochloromethane	0.152	0.147	0.139	0.145	0.150	0.136				0.145	4.4	
Chloroform	0.550	0.524	0.495	0.506	0.529	0.549				0.525	4.3	
1,1,1-Trichloroethane	0.450	0.432	0.397	0.416	0.433	0.460				0.431	5.2	
1,1-Dichloropropene	0.132	0.138	0.129	0.140	0.146	0.105				0.132	11.0	
Carbon tetrachloride	0.380	0.368	0.337	0.356	0.373	0.365				0.363	4.2	
1,2-Dichloroethane	0.410	0.384	0.367	0.379	0.395	0.426				0.394	5.6	
Benzene	1.253	1.186	1.112	1.154	1.171	1.232				1.185	4.3	
Trichloroethene	0.338	0.294	0.274	0.296	0.305	0.445				0.325	19.2	
1,2-Dichloropropane	0.322	0.309	0.291	0.301	0.311	0.289				0.304	4.2	

sem1111027A

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

SW846

6C - FORM VI VOA-3
VOLATILE ORGANICS INITIAL CALIBRATION DATA
Contract:

Lab Name: Spectrum Analytical, Inc.

Lab Code: MITKEM Case No.: L0639 SAS No.: SDG No.: SL0639

Instrument ID: V10 Calibration Date(s): 04/11/2012 04/11/2012

Heated Purge: (Y/N) N Calibration Times: 8:55 11:53

Purge Volume: 5 (mL)

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (mm)

LAB FILE ID: RRF005 = V8B0594.D RRF020 = V8B0593.D RRF050 = V8B0592.D RRF100 = V8B0598.D RRF200 = V8B0597.D

RRF001 = V8B0596.D

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF001	RRF	% RSD
Dibromomethane	0.191	0.185	0.178	0.190	0.198	0.168	0.185	5.7
Bromodichloromethane	0.385	0.380	0.369	0.387	0.410	0.365	0.383	4.2
cis-1,3-Dichloropropene	0.387	0.426	0.430	0.462	0.492	0.318	0.419	14.6
4-Methyl-2-pentanone	0.169	0.198	0.196	0.238	0.247		0.210	15.4
Toluene	1.202	1.174	1.120	1.172	1.217	1.187	1.179	2.8
trans-1,3-Dichloropropene	0.339	0.372	0.375	0.417	0.447	0.268	0.370	16.9
1,1,2-Trichloroethane	0.267	0.257	0.246	0.267	0.278	0.257	0.262	4.2
1,3-Dichloropropane	0.593	0.571	0.534	0.573	0.578	0.534	0.564	4.3
Tetrachloroethene	0.467	0.332	0.294	0.308	0.306	0.811	0.420	48.2
2-Hexanone	0.145	0.197	0.200	0.231	0.236		0.202	18.1
Dibromochloromethane	0.362	0.365	0.355	0.389	0.401	0.319	0.365	7.8
1,2-Dibromoethane	0.337	0.325	0.314	0.351	0.359	0.292	0.330	7.5
Chlorobenzene	1.087	1.006	0.944	0.979	0.986	1.112	1.019	6.5
1,1,1,2-Tetrachloroethane	0.363	0.347	0.330	0.350	0.358	0.348	0.349	3.3
Ethylbenzene	0.483	0.482	0.480	0.510	0.518	0.395	0.478	9.2
m,p-Xylene	0.608	0.612	0.599	0.628	0.624	0.466	0.589	10.4
o-Xylene	0.512	0.570	0.571	0.610	0.613	0.396	0.546	15.0
Xylene (Total)	0.576	0.598	0.590	0.622	0.621	0.443	0.575	11.7
Styrene	0.810	0.929	0.952	1.027	1.045	0.545	0.884	21.1
Bromoform	0.210	0.213	0.210	0.249	0.260	0.171	0.219	14.5
Isopropylbenzene	1.203	1.332	1.365	1.465	1.504	0.877	1.291	17.7
1,1,2,2-Tetrachloroethane	1.024	0.882	0.804	0.869	0.833	1.048	0.910	11.2
Bromobenzene	0.847	0.791	0.754	0.780	0.771	0.829	0.795	4.5
1,2,3-Trichloropropene	1.119	1.038	0.955	1.066	1.045	1.096	1.053	5.4
2-Chlorotoluene	0.740	0.725	0.695	0.709	0.693	0.621	0.697	5.9
1,3,5-Trimethylbenzene	2.175	2.302	2.306	2.327	2.273	1.602	2.164	13.0
4-Chlorotoluene	0.788	0.763	0.726	0.736	0.721	0.594	0.722	9.3

6C - FORM VI VOA-3
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc.

Contract:

Lab Code: MITKEM Case No.: L0639 SAS No.: SDG No.: SL0639

Instrument ID: V10 Calibration Date(s): 04/11/2012 04/11/2012

Heated Purge: (Y/N) N Calibration Times: 8:55 11:53

Purge Volume: 5 (mL)

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (mm)

LAB FILE ID: RRF005 = V8B0594.D RRF020 = V8B0593.D RRF050 = V8B0592.D RRF100 = V8B0598.D RRF200 = V8B0597.D
RRF001 = V8B0596.D

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF001	RRF	% RSD
tert-Butylbenzene	2.140	2.239	2.282	2.322	2.295	1.835	2.185	8.4
1,2,4-Trimethylbenzene	2.198	2.347	2.338	2.356	2.315	1.525	2.180	14.9
sec-Butylbenzene	2.503	2.685	2.771	2.766	2.732	1.850	2.551	14.0
4-Isopropyltoluene	1.962	2.161	2.239	2.274	2.221	1.351	2.035	17.3
1,3-Dichlorobenzene	1.487	1.348	1.306	1.336	1.308	1.429	1.369	5.3
1,4-Dichlorobenzene	1.616	1.400	1.346	1.380	1.348	1.819	1.485	12.9
1,2-Dichlorobenzene	1.491	1.347	1.270	1.302	1.259	1.368	1.340	6.4
1,2-Dibromo-3-chloropropane	0.129	0.110	0.103	0.135	0.123		0.120	11.1
1,2,4-Trichlorobenzene	0.527	0.512	0.537	0.701	0.660		0.587	14.8
Hexachlorobutadiene	0.393	0.333	0.306	0.299	0.292	0.339	0.327	11.4
1,2,3-Trichlorobenzene	0.518	0.471	0.454	0.637	0.552	0.227	0.476	29.0
Naphthalene	0.808	0.919	1.025	1.758	1.454	0.684	1.108	37.3
1,1,2-Trichloro-1,2,2-trifluoro	0.303	0.282	0.240	0.252	0.258	0.313	0.275	10.7
1,4-Dioxane	0.002	0.003	0.003	0.003	0.003		0.003	14.1
Cyclohexane	0.418	0.433	0.395	0.413	0.430	0.346	0.406	7.9
Methyl acetate	0.191	0.187	0.172	0.193	0.197	0.154	0.182	9.1
Methylcyclohexane	0.358	0.380	0.369	0.386	0.401	0.283	0.363	11.5

Start: 11-APR-12 08:00
End: 11-APR-12 12:53

BATCH: 120411.B

ANALYST: AEO

METHOD: 8260W
ICAL DATE: 4/11/12

Spectrum Analytical, Inc. RI Division V10 Injection Log
Volatiles Laboratory

Comments:

Standards: 8FB VW1204104A 2 UL
15FS VW120326A 100 UL
STD VW120329A 20 UL
ICV UN120329S 20 UL

Reviewed By: [Signature] Manual Integration: AEO 4/11/12 MI Review: [Signature]

FILE	TIME	LAB ID	CLIENT ID	PREP	MT	BN	BATCH	FEZ	CBZ	DCB	DFM	DCE	TOL	BFB	DILN	FLG	COMMENTS	PH
V8B0590	08:00	RFB10V	BFB10V															
V8B0592	08:55	VSTD05010V	VSTD05010V															
V8B0593	09:43	VSTD02010V	VSTD02010V															
V8B0594	10:09	VSTD00510V	VSTD00510V															
V8B0595	10:35	VSTD00110V	VSTD00110V															
V8B0596	11:01	VSTD00110V	VSTD00110V															
V8B0597	11:27	VSTD20010V	VSTD20010V															
V8B0598	11:53	VSTD10010V	VSTD10010V															
V8B0599	12:53	VICV05010V	VICV05010V															

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E - One or more target compounds are above the calibration range
R - One or more spike compounds are outside of control limits
T - Sample was injected outside of the 12 hour sequence
* - Internal Standard or Surrogate outside of control limit
D - Surrogates are diluted

AEO 4/11/12

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Instrument ID: V10 Calibration Date: 04/12/2012 Time: 9:59
Lab File ID: V8B0611.D Init. Calib. Date(s): 04/11/2012 04/11/2012
EPA Sample No. (VSTD####) VSTD05010X Init. Calib. Time(s): 8:55 11:53
Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)
Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.360	0.341	0.100	-5.3	20.0
Chloromethane	0.424	0.385	0.010	-9.3	20.0
Vinyl chloride	0.362	0.345	0.010	-4.7	20.0
Bromomethane	0.237	0.190	0.010	-20.1	20.0
Chloroethane	0.184	0.171	0.010	-6.9	20.0
Trichlorofluoromethane	0.409	0.385	0.010	-6.0	20.0
1,1-Dichloroethene	0.274	0.260	0.100	-5.0	20.0
Acetone	0.045	0.049	0.010	9.8	20.0
Iodomethane	0.236	0.234	0.010	-0.6	20.0
Carbon disulfide	0.961	0.886	0.010	-7.8	20.0
Methylene chloride	0.358	0.304	0.010	-15.1	20.0
trans-1,2-Dichloroethene	0.293	0.280	0.010	-4.3	20.0
Methyl tert-butyl ether	0.725	0.741	0.010	2.3	20.0
1,1-Dichloroethane	0.542	0.505	0.010	-6.8	20.0
Vinyl acetate	0.855	0.876	0.010	2.4	20.0
2-Butanone	0.037	0.041	0.010	10.2	20.0
cis-1,2-Dichloroethene	0.315	0.307	0.010	-2.6	20.0
2,2-Dichloropropane	0.408	0.401	0.010	-1.6	20.0
Bromochloromethane	0.145	0.144	0.010	-0.6	20.0
Chloroform	0.525	0.497	0.010	-5.4	20.0
1,1,1-Trichloroethane	0.431	0.408	0.010	-5.3	20.0
1,1-Dichloropropene	0.132	0.136	0.010	3.5	20.0
Carbon tetrachloride	0.363	0.354	0.010	-2.4	20.0
1,2-Dichloroethane	0.394	0.372	0.010	-5.6	20.0
Benzene	1.185	1.129	0.010	-4.7	20.0
Trichloroethene	0.325	0.288	0.010	-11.3	20.0
1,2-Dichloropropane	0.304	0.293	0.010	-3.5	20.0
Dibromomethane	0.185	0.185	0.010	-0.1	20.0
Bromodichloromethane	0.383	0.377	0.010	-1.5	20.0
cis-1,3-Dichloropropene	0.419	0.438	0.010	4.5	20.0
4-Methyl-2-pentanone	0.210	0.214	0.010	2.2	20.0
Toluene	1.179	1.134	0.010	-3.8	20.0
trans-1,3-Dichloropropene	0.370	0.390	0.010	5.6	20.0
1,1,2-Trichloroethane	0.262	0.256	0.010	-2.3	20.0
1,3-Dichloropropane	0.564	0.546	0.010	-3.1	20.0
Tetrachloroethene	0.420	0.296	0.010	-29.5	20.0
2-Hexanone	0.202	0.219	0.010	8.6	20.0
Dibromochloromethane	0.365	0.366	0.010	0.2	20.0
1,2-Dibromoethane	0.330	0.326	0.010	-1.2	20.0
Chlorobenzene	1.019	0.946	0.010	-7.2	20.0

Spectrum Analytical, Inc. RI Division
Volatiles Laboratory

V10 Injection Log

METHOD:
ICAL DATE:

ANALYST: YLOW
4-11-12

BATCH: 120412.B

Start: 12-APR-12 09:28
End: 12-APR-12 21:32

Comments:

Standards: 12-000-315 12-000-315 12-000-315
12-000-315 12-000-315 12-000-315

Reviewed By: ML Manual Integration: 4/11/12 MI Review:

FILE	TIME	IAB ID	CLIENT ID	PREP BATCH	MC EN	INTERNAL STDS	SURROGATES	DILUT	FIG	COMMENTS	pH
V8B0610	09:28	BFB10X	BFB10X								
V8B0611	09:59	VSTD05010X	VSTD05010X								
V8B0612	10:40	LCSD-65563	LCSD-65563								
V8B0613	11:06	LCSD-65563	LCSD-65563								
V8B0614	11:32	MB-65563	MB-65563								
V8B0615	11:58	MB-65563	MB-65563								
V8B0616	12:24	MB-65563	MB-65563								
V8B0617	12:50	MB-65563	MB-65563								
V8B0618	13:16	L0639-13ADL	DEC-031D								
V8B0619	13:42	MB-65526	DEC-029TCDL								
V8B0620	14:08	L0639-01B	DEC-031D								
V8B0621	14:35	L0663-01BWS	DEC-031D								
V8B0622	15:01	VBK	DEC-028								
V8B0623	15:27	L0621-11A	DEC-028								
V8B0624	15:53	L0621-12A	DEC-028								
V8B0625	16:19	L0639-10A	TRIP BLANK								
V8B0626	16:46	L0639-03A	DEC-065								
V8B0627	17:12	L0639-06A	DEC-027								
V8B0628	17:38	L0639-07A	DEC-044D								
V8B0629	18:04	L0639-09A	20120331-FD-1								
V8B0630	18:30	L0639-14A	20120331-FD-1								
V8B0631	18:56	L0639-15A	DEC-031D								
V8B0632	19:22	L0621-08AMS	DEC-031TCDMS								
V8B0633	19:48	L0621-08MSD	DEC-031TCDMSD								
V8B0634	20:14	VBK	VBK								
V8B0635	20:40	VBK	VBK								
V8B0636	21:06	VBK	VBK								
V8B0637	21:32	VBK	VBK								

E - One or more target compounds are above the calibration range
R - One or more spike compounds are outside of control limits
T - Sample was injected outside of the 12 hour sequence
* - Internal Standard or Surrogate outside of control limit
D - Surrogates are diluted

41312

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
Instrument ID: V10 Calibration Date: 04/13/2012 Time: 9:30
Lab File ID: V8B0641.D Init. Calib. Date(s): 04/11/2012 04/11/2012
EPA Sample No. (VSTD####) VSTD05010Y Init. Calib. Time(s): 8:55 11:53
Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)
Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.360	0.379	0.100	5.2	20.0
Chloromethane	0.424	0.454	0.010	7.0	20.0
Vinyl chloride	0.362	0.410	0.010	13.4	20.0
Bromomethane	0.237	0.237	0.010	-0.3	20.0
Chloroethane	0.184	0.208	0.010	13.1	20.0
Trichlorofluoromethane	0.409	0.455	0.010	11.2	20.0
1,1-Dichloroethene	0.274	0.279	0.100	2.0	20.0
Acetone	0.045	0.042	0.010	-6.3	20.0
Iodomethane	0.236	0.257	0.010	9.0	20.0
Carbon disulfide	0.961	0.998	0.010	3.8	20.0
Methylene chloride	0.358	0.335	0.010	-6.3	20.0
trans-1,2-Dichloroethene	0.293	0.312	0.010	6.6	20.0
Methyl tert-butyl ether	0.725	0.772	0.010	6.6	20.0
1,1-Dichloroethane	0.542	0.576	0.010	6.2	20.0
Vinyl acetate	0.855	0.989	0.010	15.7	20.0
2-Butanone	0.037	0.038	0.010	2.6	20.0
cis-1,2-Dichloroethene	0.315	0.335	0.010	6.4	20.0
2,2-Dichloropropane	0.408	0.454	0.010	11.4	20.0
Bromochloromethane	0.145	0.154	0.010	6.4	20.0
Chloroform	0.525	0.562	0.010	7.0	20.0
1,1,1-Trichloroethane	0.431	0.456	0.010	5.8	20.0
1,1-Dichloropropene	0.132	0.146	0.010	11.0	20.0
Carbon tetrachloride	0.363	0.397	0.010	9.5	20.0
1,2-Dichloroethane	0.394	0.422	0.010	7.2	20.0
Benzene	1.185	1.263	0.010	6.6	20.0
Trichloroethene	0.325	0.300	0.010	-7.6	20.0
1,2-Dichloropropane	0.304	0.336	0.010	10.5	20.0
Dibromomethane	0.185	0.203	0.010	9.8	20.0
Bromodichloromethane	0.383	0.419	0.010	9.6	20.0
cis-1,3-Dichloropropene	0.419	0.470	0.010	12.1	20.0
4-Methyl-2-pentanone	0.210	0.220	0.010	4.9	20.0
Toluene	1.179	1.266	0.010	7.4	20.0
trans-1,3-Dichloropropene	0.370	0.423	0.010	14.3	20.0
1,1,2-Trichloroethane	0.262	0.277	0.010	5.7	20.0
1,3-Dichloropropane	0.564	0.569	0.010	1.0	20.0
Tetrachloroethene	0.420	0.302	0.010	-28.1	20.0
2-Hexanone	0.202	0.194	0.010	-3.6	20.0
Dibromochloromethane	0.365	0.367	0.010	0.5	20.0
1,2-Dibromoethane	0.330	0.324	0.010	-1.7	20.0
Chlorobenzene	1.019	0.987	0.010	-3.1	20.0

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
 Instrument ID: V10 Calibration Date: 04/13/2012 Time: 9:30
 Lab File ID: V8B0641.D Init. Calib. Date(s): 04/11/2012 04/11/2012
 EPA Sample No. (VSTD####) VSTD05010Y Init. Calib. Time(s): 8:55 11:53
 Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)
 Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
1,1,1,2-Tetrachloroethane	0.349	0.347	0.010	-0.6	20.0
Ethylbenzene	0.478	0.508	0.010	6.2	20.0
m,p-Xylene	0.589	0.637	0.010	8.0	20.0
o-Xylene	0.546	0.601	0.010	10.2	20.0
Xylene (Total)	0.575	0.625	0.010	8.7	20.0
Styrene	0.884	1.001	0.010	13.2	20.0
Bromoform	0.219	0.221	0.010	0.7	20.0
Isopropylbenzene	1.291	1.470	0.300	13.9	20.0
1,1,2,2-Tetrachloroethane	0.910	0.822	0.300	-9.6	20.0
Bromobenzene	0.795	0.751	0.010	-5.6	20.0
1,2,3-Trichloropropane	1.053	0.993	0.010	-5.7	20.0
2-Chlorotoluene	0.697	0.713	0.010	2.3	20.0
1,3,5-Trimethylbenzene	2.164	2.389	0.010	10.4	20.0
4-Chlorotoluene	0.722	0.739	0.010	2.4	20.0
tert-Butylbenzene	2.185	2.348	0.010	7.4	20.0
1,2,4-Trimethylbenzene	2.180	2.409	0.010	10.5	20.0
sec-Butylbenzene	2.551	2.913	0.010	14.2	20.0
4-Isopropyltoluene	2.035	2.363	0.010	16.1	20.0
1,3-Dichlorobenzene	1.369	1.326	0.010	-3.1	20.0
1,4-Dichlorobenzene	1.485	1.361	0.010	-8.3	20.0
1,2-Dichlorobenzene	1.340	1.289	0.010	-3.8	20.0
1,2-Dibromo-3-chloropropane	0.120	0.103	0.010	-14.0	20.0
1,2,4-Trichlorobenzene	0.587	0.501	0.010	-14.8	20.0
Hexachlorobutadiene	0.327	0.303	0.010	-7.3	20.0
1,2,3-Trichlorobenzene	0.476	0.409	0.010	-14.2	20.0
Naphthalene	1.108	0.877	0.010	-20.8	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.275	0.295	0.010	7.4	20.0
1,4-Dioxane	0.003	0.003	0.010	9.9	20.0
Cyclohexane	0.406	0.491	0.010	21.0	20.0
Methyl acetate	0.182	0.206	0.010	13.2	20.0
Methylcyclohexane	0.363	0.457	0.010	25.9	20.0

Start: 13-APR-12 09:06
End: 13-APR-12 21:15

BATCH: 120413.B

ANALYST: AED

METHOD: 8260W

V10 Injection Log

Spectrum Analytical, Inc. RI Division

Start: 13-APR-12 09:06
End: 13-APR-12 21:15

BATCH: 120413.B

ANALYST: AED

METHOD: 8260W

V10 Injection Log

Spectrum Analytical, Inc. RI Division

Comments:

Standards: 8260W 120413.B
1545 120413.B
8260W 120413.B

Reviewed By: JWH/12/12 Manual Integration: N/A MI Review: N/A

FILE	TIME	LAB ID	CLIENT ID	PREP	MT	BN	INTERNAL STDS	SURROGATES	DILN	FLG	COMMENTS	pH
V8B0640	09:06	V8B0640	V8B0640	AQ								
V8B0641	09:30	V8B0641	V8B0641	AQ								
V8B0642	10:17	V8B0642	V8B0642	AQ								
V8B0643	10:43	V8B0643	V8B0643	AQ								
V8B0644	11:09	V8B0644	V8B0644	AQ								
V8B0645	11:35	V8B0645	V8B0645	AQ								
V8B0646	12:01	V8B0646	V8B0646	AQ								
V8B0647	12:27	V8B0647	V8B0647	AQ								
V8B0648	12:53	V8B0648	V8B0648	AQ								
V8B0649	13:19	V8B0649	V8B0649	AQ								
V8B0650	13:45	V8B0650	V8B0650	AQ								
V8B0651	14:11	V8B0651	V8B0651	AQ								
V8B0652	14:37	V8B0652	V8B0652	AQ								
V8B0653	15:04	V8B0653	V8B0653	AQ								
V8B0654	15:30	V8B0654	V8B0654	AQ								
V8B0655	15:56	V8B0655	V8B0655	AQ								
V8B0656	16:23	V8B0656	V8B0656	AQ								
V8B0657	16:49	V8B0657	V8B0657	AQ								
V8B0658	17:16	V8B0658	V8B0658	AQ								
V8B0659	17:42	V8B0659	V8B0659	AQ								
V8B0660	18:09	V8B0660	V8B0660	AQ								
V8B0661	18:36	V8B0661	V8B0661	AQ								
V8B0662	19:02	V8B0662	V8B0662	AQ								
V8B0663	19:29	V8B0663	V8B0663	AQ								
V8B0664	19:55	V8B0664	V8B0664	AQ								
V8B0665	20:22	V8B0665	V8B0665	AQ								
V8B0666	20:48	V8B0666	V8B0666	AQ								
V8B0667	21:15	V8B0667	V8B0667	AQ								

E - One or more target compounds are above the calibration range
R - One or more spike compounds are outside of control limits
T - Sample was injected outside of the 12 hour sequence
I - Internal Standard or Surrogate outside of control limit
S - Surrogates are diluted

AED 4/16/12

6A - FORM VI VOA-1
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
 Instrument ID: V10 Calibration Date(s): 04/18/2012 04/18/2012
 Heated Purge: (Y/N) N Calibration Time(s): 9:02 13:19
 Purge Volume: 5.0 (mL)
 GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

LAB FILE ID: _____		RRF005 = <u>V8B0784.D</u>		RRF020 = <u>V8B0783.D</u>			
RRF050 = <u>V8B0782.D</u>		RRF100 = <u>V8B0790.D</u>		RRF200 = <u>V8B0789.D</u>			
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF	%RSD
Dichlorodifluoromethane	0.308	0.288	0.275	0.279	0.304	0.291	5.1
Chloromethane	0.424	0.438	0.353	0.366	0.419	0.400	9.5
Vinyl chloride	0.368	0.372	0.315	0.322	0.345	0.345	7.6
Bromomethane	0.237	0.225	0.175	0.185	0.133	0.191	21.8
Chloroethane	0.195	0.201	0.163	0.159	0.160	0.176	11.7
Trichlorofluoromethane	0.386	0.372	0.338	0.334	0.373	0.361	6.4
1,1-Dichloroethene	0.264	0.267	0.226	0.245	0.256	0.252	6.6
Acetone	0.036	0.032	0.027	0.049	0.058	0.040	31.3
Iodomethane	0.148	0.203	0.179	0.256	0.219	0.201	20.3
Carbon disulfide	1.042	0.893	0.665	0.829	0.898	0.865	15.8
Methylene chloride	0.353	0.348	0.286	0.299	0.309	0.319	9.4
trans-1,2-Dichloroethene	0.278	0.300	0.248	0.273	0.285	0.277	7.0
Methyl tert-butyl ether	0.671	0.751	0.613	0.789	0.804	0.726	11.2
1,1-Dichloroethane	0.540	0.582	0.476	0.506	0.529	0.527	7.5
Vinyl acetate	0.856	0.966	0.786	0.964	1.009	0.916	10.0
2-Butanone	0.027	0.035	0.031	0.045	0.052	0.038	26.5
cis-1,2-Dichloroethene	0.338	0.343	0.284	0.303	0.315	0.317	7.8
2,2-Dichloropropane	0.388	0.427	0.359	0.387	0.419	0.396	6.9
Bromochloromethane	0.135	0.155	0.129	0.135	0.142	0.139	7.0
Chloroform	0.518	0.562	0.463	0.491	0.517	0.510	7.2
1,1,1-Trichloroethane	0.413	0.433	0.363	0.390	0.418	0.404	6.8
1,1-Dichloropropene	0.114	0.131	0.115	0.131	0.141	0.127	9.2
Carbon tetrachloride	0.347	0.356	0.309	0.332	0.363	0.342	6.3
1,2-Dichloroethane	0.388	0.427	0.363	0.374	0.395	0.389	6.3
Benzene	1.151	1.261	1.044	1.120	1.163	1.147	6.8
Trichloroethene	0.349	0.311	0.249	0.274	0.291	0.295	12.8
1,2-Dichloropropane	0.300	0.337	0.283	0.299	0.313	0.307	6.6
Dibromomethane	0.182	0.207	0.176	0.186	0.191	0.189	6.3
Bromodichloromethane	0.361	0.411	0.352	0.372	0.400	0.379	6.7
cis-1,3-Dichloropropene	0.332	0.442	0.399	0.452	0.488	0.423	14.2
4-Methyl-2-pentanone	0.167	0.229	0.210	0.263	0.292	0.232	20.8
Toluene	1.080	1.227	1.017	1.125	1.199	1.129	7.6
trans-1,3-Dichloropropene	0.304	0.402	0.361	0.408	0.450	0.385	14.3
1,1,2-Trichloroethane	0.247	0.282	0.243	0.258	0.273	0.260	6.4
1,3-Dichloropropane	0.581	0.664	0.564	0.591	0.610	0.602	6.4
Tetrachloroethene	0.348	0.322	0.262	0.285	0.304	0.304	10.8
2-Hexanone	0.142	0.209	0.190	0.274	0.314	0.226	30.3
Dibromochloromethane	0.356	0.412	0.352	0.383	0.403	0.381	7.1
1,2-Dibromoethane	0.329	0.380	0.321	0.352	0.367	0.350	7.1

6B - FORM VI VOA-2
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639
 Instrument ID: V10 Calibration Date(s): 04/18/2012 04/18/2012
 Heated Purge: (Y/N) N Calibration Time(s): 9:02 13:19
 Purge Volume: 5.0 (mL)
 GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

LAB FILE ID: _____	RRF005 =	V8B0784.D	RRF020 =	V8B0783.D			
RRF050 =	V8B0782.D	RRF100 =	V8B0790.D	RRF200 =	V8B0789.D		
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF	%RSD
Chlorobenzene	1.063	1.106	0.889	0.964	1.012	1.007	8.4
1,1,1,2-Tetrachloroethane	0.353	0.384	0.314	0.342	0.361	0.351	7.3
Ethylbenzene	0.427	0.531	0.447	0.502	0.539	0.489	10.3
m,p-Xylene	0.541	0.678	0.563	0.622	0.655	0.612	9.6
o-Xylene	0.447	0.622	0.536	0.602	0.640	0.570	13.9
Xylene (Total)	0.510	0.659	0.554	0.615	0.650	0.598	10.7
Styrene	0.718	1.042	0.903	1.020	1.087	0.954	15.6
Bromoform	0.213	0.246	0.217	0.246	0.263	0.237	8.9
Isopropylbenzene	1.015	1.456	1.268	1.439	1.581	1.352	16.2
1,1,2,2-Tetrachloroethane	1.137	1.116	0.888	0.963	0.959	1.013	10.7
Bromobenzene	0.807	0.863	0.698	0.789	0.817	0.795	7.6
1,2,3-Trichloropropane	1.219	1.282	1.042	1.204	1.237	1.197	7.6
2-Chlorotoluene	0.687	0.802	0.648	0.730	0.763	0.726	8.4
1,3,5-Trimethylbenzene	1.958	2.631	2.161	2.416	2.564	2.346	12.0
4-Chlorotoluene	0.750	0.864	0.682	0.764	0.799	0.772	8.6
tert-Butylbenzene	1.963	2.484	2.049	2.413	2.542	2.290	11.6
1,2,4-Trimethylbenzene	2.028	2.694	2.196	2.457	2.589	2.393	11.5
sec-Butylbenzene	2.257	2.975	2.556	2.866	3.133	2.757	12.7
4-Isopropyltoluene	1.776	2.440	2.067	2.335	2.539	2.231	13.9
1,3-Dichlorobenzene	1.441	1.515	1.209	1.370	1.427	1.392	8.2
1,4-Dichlorobenzene	1.639	1.614	1.261	1.407	1.465	1.477	10.5
1,2-Dichlorobenzene	1.469	1.546	1.214	1.341	1.381	1.390	9.1
1,2-Dibromo-3-chloropropane	0.161	0.153	0.122	0.153	0.150	0.148	10.2
1,2,4-Trichlorobenzene	0.657	0.666	0.523	0.718	0.738	0.660	12.7
Hexachlorobutadiene	0.403	0.346	0.262	0.309	0.335	0.331	15.7
1,2,3-Trichlorobenzene	0.700	0.665	0.483	0.672	0.626	0.629	13.6
Naphthalene	1.173	1.475	1.201	1.903	1.696	1.489	21.2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.269	0.229	0.204	0.239	0.265	0.241	11.1
1,4-Dioxane	0.002	0.003	0.003	0.004	0.004	0.003	20.7
Cyclohexane	0.375	0.371	0.339	0.412	0.469	0.393	12.7
Methyl acetate	0.210	0.216	0.175	0.209	0.223	0.207	9.0
Methylcyclohexane	0.304	0.326	0.306	0.381	0.443	0.352	17.0

INJECTION LOG

Start: 18-APR-12 08:19
End: 18-APR-12 14:18

BATCH: 120418.B

ANALYST: AED

826212

W10 Injection Log

BT Division

Document: 2021-10-12

End: 18-APR-12 14:18

2-1-2

Zolstiles Laboratory

Comments:

Standards:	BFS	VW 120419A	2	uL
	15/55	VW 120419A	4000	uL
	550	VW 120419A	20	uL
	100	VW 150415B	20	uL

Reviewed By: 9-449 Manual Integration: N/A MT Review: N/A

Manual Integration: N/A

2492

FILE	TIME	LAB ID	CLIENT ID	PREP	MT	BN	INTERNAL STDS				SURROGATES				DILN	PLG	COMMENTS	pH
				BATCH			FBZ	CBZ	DCB	DFM	DCE	TOL	BBB					
V8B0780	08:19	BFB10C	BFB10C	AQ											1		OK	
V8B0781	08:36	VSTD05010C	VSTD05010C	AQ		100	100	100	100						1		NOT USED	
V8B0782	09:02	VSTD05010C	VSTD05010C	AQ		102	101	99							1		OK	
V8B0783	09:28	VSTD02010C	VSTD02010C	AQ		103	100	95							1		OK	
V8B0784	09:55	VSTD00510C	VSTD00510C	AQ		100	93	84							1		OK	
V8B0789	12:53	VSTD20010C	VSTD20010C	AQ		101	105	106							1		OK	
V8B0790	13:19	VSTD10010C	VSTD10010C	AQ		106	107	104							1		OK	
V8B0791	14:18	VICW05010C	VICW05010C	AQ		107	106	104		99	100	99	100		1	E	OK	

E - One or more target compounds are above the calibration range
R - One or more spike compounds are outside of control limits
T - Sample was injected outside of the 12 hour sequence
+ - Internal standard or Surrogate outside of control limit
D - Surrogates are diluted

4/19/12

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L0639 Mod. Ref No.: _____ SDG No.: SL0639

Instrument ID: V10 Calibration Date: 04/23/2012 Time: 11:05

Lab File ID: V8B0872.D Init. Calib. Date(s): 04/18/2012 04/18/2012

EPA Sample No. (VSTD####) VSTD05010G Init. Calib. Time(s): 9:02 13:19

Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.291	0.273	0.100	-6.2	20.0
Chloromethane	0.400	0.312	0.010	-22.1	20.0
Vinyl chloride	0.345	0.331	0.010	-4.1	20.0
Bromomethane	0.191	0.132	0.010	-31.0	20.0
Chloroethane	0.176	0.166	0.010	-5.6	20.0
Trichlorofluoromethane	0.361	0.353	0.010	-2.0	20.0
1,1-Dichloroethene	0.252	0.234	0.100	-7.1	20.0
Acetone	0.040	0.050	0.010	23.8	20.0
Iodomethane	0.201	0.132	0.010	-34.0	20.0
Carbon disulfide	0.865	0.845	0.010	-2.3	20.0
Methylene chloride	0.319	0.289	0.010	-9.5	20.0
trans-1,2-Dichloroethene	0.277	0.259	0.010	-6.2	20.0
Methyl tert-butyl ether	0.726	0.720	0.010	-0.8	20.0
1,1-Dichloroethane	0.527	0.488	0.010	-7.3	20.0
Vinyl acetate	0.916	0.902	0.010	-1.5	20.0
2-Butanone	0.038	0.042	0.010	10.9	20.0
cis-1,2-Dichloroethene	0.317	0.282	0.010	-11.0	20.0
2,2-Dichloropropane	0.396	0.378	0.010	-4.5	20.0
Bromochloromethane	0.139	0.130	0.010	-6.6	20.0
Chloroform	0.510	0.469	0.010	-8.1	20.0
1,1,1-Trichloroethane	0.404	0.378	0.010	-6.4	20.0
1,1-Dichloropropene	0.127	0.121	0.010	-4.1	20.0
Carbon tetrachloride	0.342	0.328	0.010	-4.1	20.0
1,2-Dichloroethane	0.389	0.361	0.010	-7.4	20.0
Benzene	1.147	1.065	0.010	-7.2	20.0
Trichloroethene	0.295	0.251	0.010	-14.9	20.0
1,2-Dichloropropane	0.307	0.287	0.010	-6.3	20.0
Dibromomethane	0.189	0.177	0.010	-6.1	20.0
Bromodichloromethane	0.379	0.358	0.010	-5.6	20.0
cis-1,3-Dichloropropene	0.423	0.410	0.010	-2.9	20.0
4-Methyl-2-pentanone	0.232	0.236	0.010	1.6	20.0
Toluene	1.129	1.043	0.010	-7.7	20.0
trans-1,3-Dichloropropene	0.385	0.371	0.010	-3.6	20.0
1,1,2-Trichloroethane	0.260	0.243	0.010	-6.6	20.0
1,3-Dichloropropene	0.602	0.546	0.010	-9.3	20.0
Tetrachloroethene	0.304	0.263	0.010	-13.5	20.0
2-Hexanone	0.226	0.245	0.010	8.6	20.0
Dibromochloromethane	0.381	0.355	0.010	-6.7	20.0
1,2-Dibromoethane	0.350	0.321	0.010	-8.2	20.0
Chlorobenzene	1.007	0.897	0.010	-10.9	20.0

INJECTION LOG

METHOD: 8260W ANALYST: LEO
 ANALYTICAL DATE: 4/18/12

BATCH: 120423.B

Start: 23-APR-12 09:49
End: 23-APR-12 22:15

Comments:

Standards: 258 VW120404A 2 W
158 VW120417A 258 W
57D VW120418A 258 W

Reviewed By: 944-2442 Manual Integration: N/A MI Review: N/A

$\frac{4}{2}$

MI Review: **WIA**

FILE	TIME	LAB ID	CLIENT ID	PREP	WT	INTERNAL STDS	SURROGATES					DILN	FLG	COMMENTS	pH
				BATCH		FBZ	CBZ	DCB	DFM	DCE	TOL	EPB			
V8B0870	10:49	BFB10G	BFB10G	AO										OK	
V8B0871	10:15	VSTD05010G	VSTD05010G	AO		100	100	100					1	Net VSEB	
V8B0872	11:05	VSTD05010G	VSTD05010G	AO		100	100	100					1	OK	
V8B0873	11:47	LCS-65759	LCS-65759	65759	AO	101	100	100	101	102	97	100	1	OK	
V8B0874	12:13	LCS-65759	LCS-65759	65759	AO	102	101	102	100	101	98	100	1	OK	
V8B0875	12:39	MB-65759	MB-65759	65759	AO	100	93	82	101	99	101	95	1	OK	
V8B0876	13:06	MB-65759	MB-65759	65759	AO	96	90	76	103	100	102	94	1	Net VSEB	
V8B0877	13:32	MB-65759	MB-65759	65759	AO	94	87	73	104	101	102	93	1	OK	
V8B0878	13:58	L0669-02ADL	BED03-GW-EW15-0	65759	AO	92	86	71	105	103	102	92	2	OK, TCE = 94	
V8B0879	14:24	L0669-08ADL	BED03-GW-EW21-0	65759	AO	90	84	69	106	104	102	92	2	OK, TCE = 100	
V8B0880	14:51	L0669-09ADL	BED03-GW-DUP02-	65759	AO	90	84	68	106	102	103	91	2	OK, TCE = 96	
V8B0881	15:17	L0669-10A	BED03-GW-EW01-0	65759	AO	89	82	65	106	104	103	91	1	OK	
V8B0882	15:43	L0678-03ADL	BED04-GW-MW46-0	65759	AO	91	84	90	104	102	103	104	20	OK, Ethylbenzene = 83	
V8B0883	16:10	L0714-02ADL	MW-227B-041212D	65759	AO	92	85	70	105	101	102	92	10	OK, TCE = 76	
V8B0884	16:36	L0725-02ADL	PS-5-2Q12DL	65759	AO	89	81	65	106	103	104	91	10	OK, TCE = 137	
V8B0885	17:02	L0725-03ADL	PS-13-2Q12DL	65759	AO	88	80	61	107	103	104	90	50	OK, TCE = 135	
V8B0886	17:28	L0725-04A	PS-12-2Q12DL	65759	AO	87	79	62	108	105	104	90	10	OK, TCE = 180	
V8B0887	17:54	L0725-05ADL	PS-15-2Q12DL	65759	AO	86	78	61	108	105	104	89	10	OK, TCE = 134	
V8B0888	18:20	L0725-08ADL	S-10-2Q12DL	65759	AO	85	77	59	110	105	104	88	20	OK, TCE = 86	
V8B0889	18:45	L0725-09ADL	S-3-2Q12DL	65759	AO	85	77	59	110	106	105	89	100	OK, TCE = 127	
V8B0890	19:12	L0725-10A	S-2-2Q12DL	65759	AO	83	76	57	111	107	106	88	10	OK, TCE = 148	
V8B0891	19:38	L0725-11ADL	DUPDL	65759	AO	82	75	56	111	106	106	88	10	OK, TCE = 134	
V8B0892	20:04	L0639-16A	DEC-031	65759	AO	82	80	64	110	106	98	89	1	OK, TCE = 1900, PD = 2000	
V8B0893	20:31	L0678-02A	BED04-GW-DUP01-	65759	AO	98	94	104	100	97	105	107	1	OK, TCE = 1900, PD = 2000	
V8B0894	20:57	L0678-04A	BED04-GW-MW46-0	65759	AO	104	95	84	102	101	103	94	1	OK, TCE = 1900, PD = 2000	
V8B0895	21:23	L0678-04AMS	BED04-GW-MW46-0	65759	AO	105	106	105	102	103	97	100	1	OK	
V8B0896	21:49	L0678-04AMS	BED04-GW-MW46-0	65759	AO	106	107	105	102	101	98	100	1	OK	
V8B0897	22:15	VELK	VELK	AO		101	94	81	102	100	102	94	1	Net VSEB	

- E - One or more target compounds are above the calibration range
- R - One or more spike compounds are outside of control limits
- T - Sample was injected outside of the 12 hour sequence
- * - Internal Standard or Surrogate outside of control limit
- D - Surrogates are diluted

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Klink Cosmo Meeker

Laboratory Workorder / SDG #: L0639

**EPA 300.0, SM 2320B, SM 4500B5-E P, SM 4500B-C N Org, SM
4500D S-**

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
EPA 300.0, SM 2320B, SM 4500B5-E P, SM 4500B-C N Org, SM
4500D S-

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: EPA 300.0, SM 2320B, SM 4500B5-E P, SM 4500B-C N Org, SM 4500D S-

V. INSTRUMENTATION

The following instrumentation was used to perform

Instrument Code: IC1

Instrument Type: IC

Description: DX-500

Manufacturer: Dionex

Model: DX-500

GC Column used: 0.25 m X 4 mm ID [um thickness] AS14A-7 capillary column.

Instrument Code: MANUAL

Instrument Type: WC

Instrument Code: SPEC2

Instrument Type: SP

Description: Spectronic 20 Genesys

Manufacturer: Spectronic Instruments

Model: 4004-000

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

D. Duplicate sample:

No client-requested laboratory duplicate analyses were included in this SDG.

E. Dilutions:

The following samples were analyzed at dilution:

DEC-008 (L0639-01D), dilution factor: 10 for Chloride
DEC-042 (L0639-02D), dilution factor: 10 for Chloride
DEC-065 (L0639-03D), dilution factor: 10 for Chloride
DEC-065D (L0639-04D), dilution factor: 10 for Chloride
DEC-027 (L0639-06D), dilution factor: 10 for Chloride
DEC-044D (L0639-07D), dilution factor: 5 for Chloride and Sulfate
DEC-031 (L0639-08D), dilution factor: 10 for Chloride
20120401-FD-1 (L0639-09D), dilution factor: 5 for Chloride and Sulfate
DEC-010 (L0639-11D), dilution factor: 5 for Chloride and Sulfate
DEC-004 (L0639-12D), dilution factor: 5 for Chloride and Sulfate
DEC-029TC (L0639-13D), dilution factor: 20 for Sulfate
DEC-029TC (L0639-13D), dilution factor: 60 for Chloride
20120331-FD-1 (L0639-14D), dilution factor: 20 for Sulfate
20120331-FD-1 (L0639-14D), dilution factor: 60 for Chloride
DEC-031D (L0639-15D), dilution factor: 5 for Chloride and Sulfate

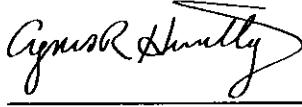
F. Samples:

The Nitrate/Nitrite analyses were performed by Spectrum Analytical, Inc., featuring Hanibal Technology of Agawam, MA. The Spectrum Analytical Agawam report has been submitted following the Spectrum RI data report.

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum RI, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as

verified by the following signature.

Signed: 

Date: 04/26/12

CASE NARRATIVE

Spectrum Analytical, Inc. Lab Reference No. SB46684

Client: Spectrum Analytical, Inc.-- RI Division

Project: See Chain of Custody / L0639

SDG #: 46684

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception or a communication form is included in the addendum with this package.

II. HOLDING TIMES

All samples were prepared and analyzed within the method-specific holding time.

III. METHODS

Analyses were performed according to EPA 353.2.

IV. PREPARATION

Aqueous samples were prepared according to General Preparation.

V. INSTRUMENTATION

The following equipment was used to analyze EPA 353.2:

Lachat2 details: Lachat Quikchem 8000

VI. ANALYSIS

A. Calibration:

All quality control samples were within the acceptance criteria.

B. Blanks:

All blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Samples (LCS):

All method criteria were met.

2. Matrix Spike / Matrix Spike Duplicate Samples (MS/MSD):

A matrix spike and a matrix spike duplicate were analyzed:

In batch 1207793 from source sample DEC-008 (SB46684-01).

In batch 1207901 from source sample DEC-029TC (SB46684-12).

All method criteria were met.

3. Reference:

All method criteria were met.

D. Duplicates:

A duplicate was analyzed.

In batch 1207793 from source sample DEC-008 (SB46684-01).

In batch 1207901 from source sample DEC-029TC (SB46684-12).

All method criteria were met.

E. Samples:

All method criteria were met with the following exceptions:

Nitrate/Nitrite as N in batch 1207793, samples 20120401-FD-1 (SB46684-09), DEC-004 (SB46684-11), DEC-008 (SB46684-01), DEC-010 (SB46684-10), DEC-027 (SB46684-06), DEC-031 (SB46684-08), DEC-042 (SB46684-02), DEC-044D (SB46684-07), DEC-065 (SB46684-03), DEC-065D (SB46684-04): Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Nitrate/Nitrite as N in batch 1207793, sample DEC-044 (SB46684-05): The Reporting Limit has been raised to account for matrix interference.

Nitrate/Nitrite as N in batch 1207901, sample DEC-031D (SB46684-14): Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Nitrate/Nitrite as N in batch 1207901, samples 20120331-FD-1 (SB46684-13), DEC-029TC (SB46684-12): The Reporting Limit has been raised to account for matrix interference.

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Klink Cosmo Meeker

Laboratory Workorder / SDG #: L0621

SW846 8260C, VOC by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8260C

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW5030

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: V10

Instrument Type: GCMS-VOA

Description: HP7890A

Manufacturer: Agilent

Model: 7890A / 5975C

GC Column used: 30 m X 0.25 mm ID [1.40 um thickness] DB-624 capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: DEC-031TC (L0621-08AMS) and DEC-031TC (L0621-08AMSD).

Percent recoveries were within the QC limits with the following exceptions:

DEC-031TC (L0621-08AMS) Percent Recovery is outside QC Limits, recovery is below criteria for 1,3,5-Trimethylbenzene at 72% with criteria of (75-130), 1,3-Dichlorobenzene at 71% with criteria of (75-125), 1,4-Dichlorobenzene at 69% with criteria of (75-125), 2-Chlorotoluene at 74% with criteria of (75-125), 4-Chlorotoluene at 75% with criteria of (75-130), Bromobenzene at 73% with criteria of

(75-125), Chlorobenzene at 76% with criteria of (80-120), Iodomethane at 69% with criteria of (72-121) and Xylene (Total) at 80% with criteria of (81-121).

DEC-031TC (L0621-08AMSD) Percent Recovery is outside QC Limits, recovery is below criteria for 1,4-Dichlorobenzene at 72% with criteria of (75-125), 2,2-Dichloropropane at 70% with criteria of (70-135) and Chlorobenzene at 78% with criteria of (80-120).

Replicate RPDs were within the advisory QC limits.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

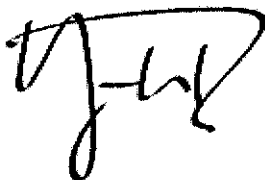
The following samples were analyzed at dilution:

DEC-007 (L0621-01ADL) : Dilution Factor: 10
DEC-007D (L0621-02ADL) : Dilution Factor: 2
DEC-012 (L0621-06ADL) : Dilution Factor: 2
DEC-013 (L0621-09A) : Dilution Factor: 20
DEC-028 (L0621-11A) : Dilution Factor: 5

G. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.



Signed: _____

Date: ____4/19/2012_____

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2019-2020

Received By: <u>HA</u>		Page 01 of 00	
Reviewed By: <u>HA</u>		Log-in Date 03/30/2012	
Work Order: L0621		Client Name: URS Corporation	
Project Name/Event: Klink Cosmo Meeker / 11176390.00002			
Remarks: (1/2) Please see associated sample/extract transfer logbook pages submitted with this data package.			
		Preservation (pH)	
		Zinc	
		HNO3 H2SO4 HCl NaOH H3PO4	
		VOA Matrix	
		Soil HeadSpace or Air Bubble > or equal to 1/4"	
1. Custody Seal(s)		Present / Absent	
2. Custody Seal Nos.		N/A	
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists		Present / Absent	
4. Airbill		AirBill / Sticker	
5. Airbill No.		Courier N/A	
6. Sample Tags		Present / Absent	
Sample Tag Numbers		Listed /	
7. Sample Condition		Intact / Broken / Leaking	
8. Cooler Temperature Indicator Bottle		Present / Absent	
9. Cooler Temperature		4.0 °C	
10. Does information on TR/COCs and sample tags agree?		Yes / No	
11. Date Received at Laboratory		03/30/2012	
12. Time Received		12:31	
Sample Transfer			
Fraction (1) TVOA/VOA		Fraction (2) SVOA/PEST/ARO	
Area #		Area #	
By		By	
On		On	
IR Temp Gun ID: MT-1			
Coolant Condition: ICE			
Preservative Name/Lot No:			
		VOA Matrix Key:	
		US = Unpreserved Soil A = Air	
		UA = Unpreserved Aqueous H = HCl	
		M = MeOH E = Encore	
		N = NaHSO4 F = Freeze	
		See Sample Condition Notification/Corrective Action Form Yes / No	
		Rad OK Yes / No	

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

Received By: <u>Vernier Brinjal</u>						Page 01 of 00					
Reviewed By: <u>ja</u>						Log-in Date 04/02/2012					
Work Order: L0621		Client Name: URS Corporation									
Project Name/Event: Klink Cosmo Meeker / 11176390.00002											
Remarks: (1/2) Please see associated sample/extract transfer logbook pages submitted with this data package.				Preservation (pH)		VOA Matrix	Soil HeadSpace or Air Bubble > or equal to 1/4"				
				Lab Sample ID	HNO3			H2SO4	HCl	NaOH	H3PO4
1. Custody Seal(s)		Present / Absent		L0621-06		<2		>12		H	
		Intact / Broken		L0621-07		<2		>12		H	
2. Custody Seal Nos.		N/A		L0621-08		<2		>12		H	
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists		Present / Absent		L0621-09		<2		>12		H	
				L0621-10		<2		>12		H	
				L0621-11		<2		>12		H	
				L0621-12		<2		>12		H	
4. Airbill		AirBill / Sticker		L0621-13		<2		>12		H	
		Present / Absent		L0621-14		<2		>12		H	
5. Airbill No.		Courier N/A		L0621-15		<2		>12		H	
				L0621-16		<2		>12		H	
6. Sample Tags Sample Tag Numbers		Present / Absent		L0621-17		<2		>12		H	
				L0621-18						H	
7. Sample Condition		Intact / Broken / Leaking									
8. Cooler Temperature Indicator Bottle		Present / Absent									
9. Cooler Temperature		2,2 °C									
10. Does information on TR/COCs and sample tags agree?		Yes / No									
11. Date Received at Laboratory		04/02/2012									
12. Time Received		10:40									
Sample Transfer											
Fraction (1) TVOA/VOA		Fraction (2) SVOA/PEST/ARO									
Area #		Area #									
By		By									
On		On									
IR Temp Gun ID: MT-1				VOA Matrix Key: US = Unpreserved Soil A = Air UA = Unpreserved Aqueous H = HCl M = MeOH E = Encore N = NaHSO4 F = Freeze							
Coolant Condition: ICE											
Preservative Name/Lot No:				See Sample Condition Notification/Corrective Action Form Yes / No							
				Rad OK Yes / No							

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MB-65383

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-65383
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0364.D
Level: (TRACE/LOW/MED) LOW Date Received: _____
% Moisture: not dec. Date Analyzed: 04/03/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	2.3	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

MB-65383

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Lab File ID: V8B0364.D Lab Sample ID: MB-65383
Instrument ID: V10
Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 04/03/2012
Level: (TRACE or LOW/MED) LOW Time Analyzed: 23:46
GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS-65383	LCS-65383	V8B0360.D	22:01
02	LCSD-65383	LCSD-65383	V8B0361.D	22:27
03	DEC-007	L0621-01A	V8B0377.D	5:23
04	DEC-007D	L0621-02A	V8B0378.D	5:49

COMMENTS: _____

6A - FORM VI VOA-1
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc.

Lab Code: MITKEM Case No.: 10621 SAS No.: SDG No.: SL0621

Instrument ID: V10 Heated Purge: (Y/N) N Calibration Date(s): 03/30/2012 03/30/2012

Purge Volume: 5 mL Calibration Times: 11:39 14:15

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (mm)

LAB FILE ID: RRF005 = V8B0285.D RRF020 = V8B0284.D RRF050 = V8B0283.D RRF100 = V8B0289.D RRF200 = V8B0288.D

RRF001 = V8B0287.D

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF001	RRF	% RSD
Dichlorodifluoromethane	0.201	0.194	0.142	0.176	0.176	0.187	0.180	11.6
Chloromethane	0.322	0.311	0.230	0.283	0.295	0.344	0.297	13.2
Vinyl chloride	0.281	0.272	0.202	0.255	0.253	0.279	0.257	11.5
Bromomethane	0.215	0.185	0.130	0.159	0.152	0.277	0.186	28.6
Chloroethane	0.156	0.153	0.113	0.135	0.130	0.179	0.144	16.1
Trichlorofluoromethane	0.372	0.361	0.266	0.324	0.328	0.380	0.339	12.4
1,1-Dichloroethene	0.301	0.289	0.212	0.278	0.272	0.317	0.278	13.0
Acetone	0.035	0.039	0.025	0.037	0.038		0.035	17.2
Iodomethane	0.236	0.230	0.241	0.308	0.324	0.169	0.261	22.0
Carbon disulfide	1.008	0.922	0.712	0.876	0.849	1.163	0.922	16.6
Methylene chloride	0.354	0.338	0.258	0.317	0.313	0.395	0.329	14.0
trans-1,2-Dichloroethene	0.318	0.307	0.231	0.295	0.289	0.335	0.296	12.1
Methyl tert-butyl ether	0.806	0.830	0.670	0.808	0.799	0.832	0.791	7.7
1,1-Dichloroethane	0.584	0.568	0.426	0.531	0.524	0.610	0.541	12.0
Vinyl acetate	0.905	0.970	0.793	0.932	0.914	0.862	0.896	6.9
2-Butanone	0.028	0.037	0.029	0.038	0.039		0.034	16.2
cis-1,2-Dichloroethene	0.348	0.339	0.261	0.328	0.323	0.335	0.322	9.7
2,2-Dichloropropane	0.442	0.439	0.332	0.404	0.408	0.441	0.411	10.3
Bromochloromethane	0.165	0.162	0.127	0.149	0.151	0.152	0.151	8.8
Chloroform	0.567	0.552	0.420	0.523	0.519	0.617	0.533	12.3
1,1,1-Trichloroethane	0.470	0.456	0.340	0.438	0.438	0.471	0.436	11.3
1,1-Dichloropropene	0.152	0.151	0.115	0.149	0.147	0.139	0.142	10.0
Carbon tetrachloride	0.397	0.391	0.294	0.378	0.377	0.399	0.373	10.7
1,2-Dichloroethane	0.412	0.410	0.324	0.386	0.388	0.451	0.395	10.6
Benzene	1.296	1.251	0.948	1.182	1.150	1.377	1.201	12.3
Trichloroethene	0.320	0.313	0.239	0.310	0.308	0.354	0.307	12.2
1,2-Dichloropropane	0.335	0.325	0.254	0.308	0.300	0.358	0.313	11.4

sem111027A

Report 1,4-Dioxane for Low-Medium VOA analysis only

SW846

6B - FORM VI VOA-2
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc.

Contract:

SL0621

SDG No.:

SAS No.:

Case No.: L0621

03/30/2012

03/30/2012

Calibration Date(s):

14:15

11:39

Calibration Times:

(mL)

(mm)

(mm)

Length: 30

(mm)

(mm)

LAB FILE ID: RRF005 = V8B0285.D RRF020 = V8B0284.D RRF050 = V8B0283.D RRF100 = V8B0289.D RRF200 = V8B0288.D

RRF001 = V8B0287.D

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF001	RRF	% RSD
Dibromomethane	0.199	0.201	0.164	0.195	0.197	0.210	0.194	8.2
Bromodichloromethane	0.399	0.405	0.325	0.398	0.404	0.458	0.398	10.7
cis-1,3-Dichloropropene	0.437	0.474	0.389	0.483	0.487	0.476	0.458	8.4
4-Methyl-2-pentanone	0.207	0.235	0.197	0.242	0.250		0.226	10.1
Toluene	1.287	1.264	0.966	1.219	1.194	1.425	1.226	12.3
trans-1,3-Dichloropropene	0.371	0.414	0.348	0.431	0.442	0.415	0.404	9.0
1,1,2-Trichloroethane	0.282	0.284	0.227	0.274	0.276	0.385	0.288	18.0
1,3-Dichloropropane	0.610	0.608	0.488	0.579	0.562	0.788	0.606	16.4
Tetrachloroethene	0.376	0.330	0.253	0.320	0.309	0.500	0.348	24.2
2-Hexanone	0.167	0.208	0.169	0.227	0.228		0.200	15.0
Dibromochloromethane	0.371	0.393	0.331	0.399	0.404	0.479	0.396	12.3
1,2-Dibromoethane	0.356	0.367	0.299	0.362	0.361	0.454	0.367	13.5
Chlorobenzene	1.106	1.044	0.817	0.996	0.964	1.407	1.056	18.7
1,1,1,2-Tetrachloroethane	0.373	0.365	0.293	0.354	0.353	0.478	0.369	16.3
Ethylbenzene	0.524	0.534	0.424	0.521	0.511	0.597	0.518	10.7
m,p-Xylene	0.665	0.661	0.527	0.632	0.603	0.719	0.634	10.3
o-Xylene	0.617	0.633	0.512	0.618	0.596	0.689	0.611	9.5
Xylene (Total)	0.649	0.652	0.522	0.627	0.600	0.709	0.627	10.0
Styrene	0.953	1.029	0.850	1.046	1.015	1.015	0.985	7.4
Bromoforn	0.225	0.239	0.205	0.257	0.264	0.317	0.251	15.5
Isopropylbenzene	1.471	1.536	1.266	1.510	1.467	1.539	1.465	7.0
1,1,2,2-Tetrachloroethane	1.026	0.946	0.742	0.863	0.822	1.663	1.010	33.1
Bromobenzene	0.890	0.842	0.670	0.787	0.766	1.186	0.857	20.7
1,2,3-Trichloropropane	1.118	1.112	0.899	1.061	1.033	1.849	1.179	28.7
2-Chlorotoluene	0.801	0.772	0.615	0.714	0.688	0.942	0.755	14.9
1,3,5-Trimethylbenzene	2.465	2.509	2.065	2.330	2.219	2.674	2.377	9.2
4-Chlorotoluene	0.829	0.798	0.635	0.735	0.707	0.964	0.778	14.6

sm1111027A

SW846

6C - FORM VI VOA-3
VOLATILE ORGANICS INITIAL CALIBRATION DATA
Contract:

Lab Name: Spectrum Analytical, Inc.

Lab Code: MITKEM Case No.: L0621 SAS No.: SDG No.: SL0621
Instrument ID: V10 Calibration Date(s): 03/30/2012 03/30/2012
Heated Purge: (Y/N) N Calibration Times: 11:39 14:15
Purge Volume: 5 (mL)
GC Column: DB-624 ID: 0.25 (mm) Length: 30 (mm)

LAB FILE ID: RRF005 = V8B0285.D RRF020 = V8B0284.D RRF050 = V8B0283.D RRF100 = V8B0289.D RRF200 = V8B0288.D										
RRF001 = V8B0287.D										
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF001			RRF	% RSD
tert-Butylbenzene	2.446	2.525	2.115	2.318	2.212	2.884			2.417	11.3
1,2,4-Trimethylbenzene	2.497	2.558	2.104	2.356	2.251	2.605			2.395	8.1
sec-Butylbenzene	2.979	3.048	2.598	2.799	2.660	3.130			2.869	7.5
4-Isopropyltoluene	2.424	2.464	2.104	2.280	2.173	2.588			2.339	7.9
1,3-Dichlorobenzene	1.570	1.449	1.170	1.343	1.285	1.999			1.469	20.0
1,4-Dichlorobenzene	1.628	1.497	1.203	1.380	1.316	2.283			1.551	25.0
1,2-Dichlorobenzene	1.543	1.425	1.134	1.299	1.227	2.037			1.444	22.5
1,2-Dibromo-3-chloropropane	0.139	0.131	0.100	0.133	0.121	0.170			0.132	17.3
1,2,4-Trichlorobenzene	0.671	0.663	0.541	0.712	0.645	0.424			0.609	17.6
Hexachlorobutadiene	0.425	0.350	0.294	0.303	0.276	0.453			0.350	21.0
1,2,3-Trichlorobenzene	0.649	0.595	0.449	0.642	0.537	0.375			0.541	20.4
Naphthalene	1.261	1.396	1.087	1.791	1.464	1.125			1.354	19.2
1,1,2-Trichloro-1,2,2-trifluoro	0.308	0.292	0.220	0.262	0.260	0.301			0.274	12.0
1,4-Dioxane	0.003	0.003	0.003	0.004	0.004	0.004			0.003	13.4
Cyclohexane	0.478	0.478	0.375	0.439	0.432	0.436			0.440	8.6
Methyl acetate	0.188	0.201	0.165	0.193	0.190	0.195			0.189	6.6
Methylcyclohexane	0.436	0.444	0.378	0.410	0.402	0.393			0.410	6.2

Spectrum Analytical, Inc. RI Division
 Volatiles Laboratory

METHOD: GC/MS ANALYST: GA

BATCH: 120330.B

Start: 30-MAR-12 09:45
 End: 30-MAR-12 16:30

Comments:

Standards: PEB V20111004A 2 UL
JSIS V20120326A AUTO UL
STD V20120326A 20 UL
ICV V20120326A 20 UL

Reviewed By: GA Manual Integration: GA MI Review: GA

NOT GOOD FOR 2-CVE

FILE	TIME	LAB ID	CLIENT ID	PREP	MT	EN	BATCH	INTERNAL STDS	SURROGATES	DILN	FLG	COMMENTS	PH
V8B0280	09:45	BFB10L	VSTD05010L	AC									
V8B0283	11:39	VSTD05010L	VSTD05010L	AC									
V8B0284	12:05	VSTD02010L	VSTD02010L	AC									
V8B0285	12:31	VSTD00510L	VSTD00510L	AC									
V8B0287	13:23	VSTD00110L	VSTD00110L	AC									
V8B0288	13:49	VSTD20010L	VSTD20010L	AC									
V8B0289	14:15	VSTD10010L	VSTD10010L	AC									
V8B0290	16:30	VICV05010L	VICV05010L	AC									

E - One or more target compounds are above the calibration range
 R - One or more spike compounds are outside of control limits
 T - Sample was injected outside of the 12 hour sequence
 * - Internal Standard or Surrogate outside of control limit
 D - Surrogates are diluted

GA 4/12

Spectrum Analytical, Inc. RI Division Volatiles Laboratory
METHOD: 3260W ANALYST: JH
BATCH: 120404A.B START: 04-APR-12 14:26
ICAL DATE: 3-30-12 END: 05-APR-12 02:10

Comments: Standards: 3260W 3-30-12
1377 NMTA326A 2 uL
3260 NMTA326A 2 uL
3260 NMTA326A 2 uL

Reviewed By: [Signature] Manual Integration: MI Review:

FILE	TIME	LAB ID	CLIENT ID	PREP	MT/EN	INTERNAL STDS	SURROGATES	DIIN/FLG	COMMENTS	PH
V8B0404	14:26	V8B0404								
V8B0405	15:07	V8B0405								
V8B0406	15:51	V8B0406								
V8B0407	16:32	V8B0407								
V8B0408	16:58	V8B0408								
V8B0409	17:25	V8B0409								
V8B0410	17:51	V8B0410								
V8B0411	18:17	V8B0411								
V8B0412	18:44	V8B0412								
V8B0413	19:10	V8B0413								
V8B0414	19:37	V8B0414								
V8B0415	20:03	V8B0415								
V8B0416	20:30	V8B0416								
V8B0417	20:56	V8B0417								
V8B0418	21:23	V8B0418								
V8B0419	21:49	V8B0419								
V8B0420	22:15	V8B0420								
V8B0421	22:41	V8B0421								
V8B0422	23:07	V8B0422								
V8B0423	23:34	V8B0423								
V8B0424	00:00	V8B0424								
V8B0425	00:26	V8B0425								
V8B0426	00:52	V8B0426								
V8B0427	01:18	V8B0427								
V8B0428	01:44	V8B0428								
V8B0429	02:10	V8B0429								

E - One or more target compounds are above the calibration range
R - One or more spike compounds are outside of control limits
T - Sample was injected outside of the 12 hour sequence
* - Internal Standard or Surrogate outside of control limit
D - Surrogates are diluted

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
 Instrument ID: V10 Calibration Date: 04/03/2012 Time: 21:09
 Lab File ID: V8B0358.D Init. Calib. Date(s): 03/30/2012 03/30/2012
 EPA Sample No. (VSTD####) VSTD050100 Init. Calib. Time(s): 11:39 14:15
 Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)
 Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
1,1,1,2-Tetrachloroethane	0.369	0.312	0.010	-15.5	20.0
Ethylbenzene	0.518	0.444	0.010	-14.4	20.0
m,p-Xylene	0.634	0.553	0.010	-12.8	20.0
o-Xylene	0.611	0.540	0.010	-11.6	20.0
Xylene (Total)	0.627	0.549	0.010	-12.4	20.0
Styrene	0.985	0.894	0.010	-9.2	20.0
Bromoform	0.251	0.224	0.010	-10.8	20.0
Isopropylbenzene	1.465	1.301	0.300	-11.2	20.0
1,1,2,2-Tetrachloroethane	1.010	0.802	0.300	-20.6	20.0
Bromobenzene	0.857	0.663	0.010	-22.6	20.0
1,2,3-Trichloropropane	1.179	0.953	0.010	-19.1	20.0
2-Chlorotoluene	0.755	0.609	0.010	-19.4	20.0
1,3,5-Trimethylbenzene	2.377	1.974	0.010	-16.9	20.0
4-Chlorotoluene	0.778	0.629	0.010	-19.2	20.0
tert-Butylbenzene	2.417	1.948	0.010	-19.4	20.0
1,2,4-Trimethylbenzene	2.395	2.008	0.010	-16.2	20.0
sec-Butylbenzene	2.869	2.390	0.010	-16.7	20.0
4-Isopropyltoluene	2.339	1.943	0.010	-16.9	20.0
1,3-Dichlorobenzene	1.469	1.134	0.010	-22.8	20.0
1,4-Dichlorobenzene	1.551	1.177	0.010	-24.2	20.0
1,2-Dichlorobenzene	1.444	1.121	0.010	-22.4	20.0
1,2-Dibromo-3-chloropropane	0.132	0.116	0.010	-12.7	20.0
1,2,4-Trichlorobenzene	0.609	0.528	0.010	-13.3	20.0
Hexachlorobutadiene	0.350	0.257	0.010	-26.7	20.0
1,2,3-Trichlorobenzene	0.541	0.490	0.010	-9.6	20.0
Naphthalene	1.354	1.273	0.010	-6.0	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.274	0.268	0.010	-2.0	20.0
1,4-Dioxane	0.003	0.004	0.010	22.1	20.0
Cyclohexane	0.440	0.434	0.010	-1.4	20.0
Methyl acetate	0.189	0.217	0.010	14.8	20.0
Methylcyclohexane	0.410	0.394	0.010	-4.0	20.0

Start: 03-APR-12 20:17
End: 04-APR-12 08:05

BATCH: 120403A.B

ANALYST: CJA

METHOD: 8261210
ICAL DATE: 3/30/12

Spectrum Analytical, Inc. RI Division
Volatiles Laboratory

Comments:

Standards: 200 W111104 2 ul
200 W120334 2 ul
200 W120334 20 ul
200 W120334 20 ul

Reviewed By: *[Signature]* Manual Integration: MI Review:

FILE	TIME	LAB ID	CLIENT ID	PREP	MT	BN	INTERNAL	STDS	SURROGATES	DILN	PLG	PH
V8B0356	20:17	BFB100										
V8B0357	20:43	VSTD050100										
V8B0358	21:09	VSTD050100										
V8B0359	21:35	LCS-65383										
V8B0360	22:01	LCS-65383										
V8B0361	22:27	LCS-65383										
V8B0362	22:53	MB-65383										
V8B0363	23:20	MB-65383										
V8B0364	23:46	MB-65383										
V8B0365	00:12	L0614-01A										
V8B0366	00:38	L0614-01A										
V8B0367	01:04	L0607-18A										
V8B0368	01:30	L0614-02A										
V8B0369	01:56	L0614-04A										
V8B0370	02:22	L0614-06A										
V8B0371	02:48	L0614-08A										
V8B0372	03:14	L0614-10A										
V8B0373	03:39	L0614-12A										
V8B0374	04:05	L0614-14A										
V8B0375	04:31	L0615-04A										
V8B0376	04:57	L0615-05A										
V8B0377	05:23	L0621-01A										
V8B0378	05:49	L0621-02A										
V8B0379	06:15	L0614-12AMS										
V8B0380	06:41	L0614-12MSD										
V8B0381	07:07	VBLK										
V8B0382	08:05	VBLK										
V8B0383												

5 or more target compounds are above the calibration range
2 or more spike compounds are outside of control limits
T - Sample was injected outside of the 12 hour sequence
* - Internal Standard or Surrogate outside of control limit

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
 Instrument ID: V10 Calibration Date: 04/05/2012 Time: 11:46
 Lab File ID: V8B0434.D Init. Calib. Date(s): 03/30/2012 03/30/2012
 EPA Sample No. (VSTD####) VSTD05010R Init. Calib. Time(s): 11:39 14:15
 Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)
 Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
Dichlorodifluoromethane -	0.180	0.132	0.100	-26.7	20.0
Chloromethane -	0.297	0.232	0.010	-21.9	20.0
Vinyl chloride	0.257	0.207	0.010	-19.4	20.0
Bromomethane -	0.186	0.140	0.010	-25.1	20.0
Chloroethane	0.144	0.120	0.010	-17.2	20.0
Trichlorofluoromethane	0.339	0.292	0.010	-13.8	20.0
1,1-Dichloroethene	0.278	0.232	0.100	-16.6	20.0
Acetone	0.035	0.036	0.010	2.5	20.0
Iodomethane	0.261	0.225	0.010	-14.0	20.0
Carbon disulfide	0.922	0.762	0.010	-17.3	20.0
Methylene chloride	0.329	0.282	0.010	-14.2	20.0
trans-1,2-Dichloroethene	0.296	0.255	0.010	-13.9	20.0
Methyl tert-butyl ether	0.791	0.720	0.010	-9.0	20.0
1,1-Dichloroethane	0.541	0.461	0.010	-14.8	20.0
Vinyl acetate	0.896	0.838	0.010	-6.5	20.0
2-Butanone	0.034	0.036	0.010	3.6	20.0
cis-1,2-Dichloroethene	0.322	0.282	0.010	-12.6	20.0
2,2-Dichloropropane	0.411	0.367	0.010	-10.6	20.0
Bromochloromethane	0.151	0.134	0.010	-11.6	20.0
Chloroform	0.533	0.459	0.010	-14.0	20.0
1,1,1-Trichloroethane	0.436	0.375	0.010	-13.9	20.0
1,1-Dichloropropene	0.142	0.123	0.010	-13.5	20.0
Carbon tetrachloride	0.373	0.324	0.010	-13.0	20.0
1,2-Dichloroethane	0.395	0.351	0.010	-11.2	20.0
Benzene	1.201	1.024	0.010	-14.7	20.0
Trichloroethene	0.307	0.260	0.010	-15.4	20.0
1,2-Dichloropropane	0.313	0.271	0.010	-13.4	20.0
Dibromomethane	0.194	0.177	0.010	-8.9	20.0
Bromodichloromethane	0.398	0.351	0.010	-11.9	20.0
cis-1,3-Dichloropropene	0.458	0.416	0.010	-9.2	20.0
4-Methyl-2-pentanone	0.226	0.215	0.010	-4.9	20.0
Toluene	1.226	1.060	0.010	-13.5	20.0
trans-1,3-Dichloropropene	0.404	0.377	0.010	-6.7	20.0
1,1,2-Trichloroethane	0.288	0.247	0.010	-14.2	20.0
1,3-Dichloropropane	0.606	0.563	0.010	-7.1	20.0
Tetrachloroethene	0.348	0.295	0.010	-15.2	20.0
2-Hexanone	0.200	0.212	0.010	6.2	20.0
Dibromochloromethane	0.396	0.378	0.010	-4.6	20.0
1,2-Dibromoethane	0.367	0.345	0.010	-5.9	20.0
Chlorobenzene	1.056	0.952	0.010	-9.8	20.0

Start: 05-APR-12 11:00
End: 05-APR-12 23:58

BATCH: 120405.B

ANALYST:

METHOD:
ICAL DATA

Spectrum Analytical, Inc. RI Division V10 Injection Log
Volatiles Laboratory

Comments:

[illegible]

Reviewed By: W Manual Integration: W MI Review: W

FILE	TIME	LAB ID	CLIENT ID	PREP	MT	BN	INTERNAL STDS				SURROGATES				DIIN	FLG	COMMENTS	PH
				BATCH			PBZ	CBZ	DCB	DFM	DCE	TOL	IBFB					
V8B0433	11:00	BFB10R	BFB10R		AQ										1			
V8B0434	11:46	VSTD05010R	VSTD05010R		AQ		100	100	100						1			
V8B0435	12:12	LCB-65451	LCB-65451		65451	AQ	101	101	103	99	100	103	97		1			
V8B0436	12:38	MB-65451	MB-65451		65451	AQ	99	95	86	99	99	105	92		1			
V8B0437	13:04	MB-65451	MB-65451		65451	AQ	96	91	79	100	98	106	91		1			
V8B0438	13:30	MB-65451	MB-65451		65451	AQ	93	89	77	101	100	106	91		1			
V8B0439	13:56	L0607-09A	TRIP BLANK		65451	AQ	90	86	74	101	100	106	90		1			
V8B0440	14:22	L0607-17A	TRIP BLANK 3		65451	AQ	89	84	72	102	101	107	89		1			
V8B0441	14:48	L0607-01A	DEC-091D		65451	AQ	87	83	72	102	100	106	89		1			
V8B0442	15:14	L0607-04A	DEC-090		65451	AQ	88	86	76	102	100	103	90		1			
V8B0443	15:41	L0607-05A	DEC-090D		65451	AQ	86	82	69	103	102	106	89		1			
V8B0444	16:07	L0607-06A	DEC-014R		65451	AQ	85	86	77	103	100	101	90		1			
V8B0445	16:33	L0607-07A	DEC-014D		65451	AQ	84	81	68	104	103	106	88		1			
V8B0446	16:59	L0607-08A	DEC-064		65451	AQ	84	81	68	104	101	105	88		1			
V8B0447	17:26	L0607-10A	DEC-064D		65451	AQ	84	81	67	103	103	106	88		1			
V8B0448	17:52	L0614-16A	MW09-DUP01-0329		65451	AQ	82	79	66	105	103	106	88		1			
V8B0449	18:18	L0614-18A	MW09-DUP02-0329		65451	AQ	82	79	66	104	104	106	88		1			
V8B0450	18:44	L0615-01A	BED3-GW-MWBGIS-		65451	AQ	81	77	64	104	101	107	88		1			
V8B0451	19:11	L0615-02A	BED3-GW-MW13S-01		65451	AQ	88	87	74	104	102	106	92		1			
V8B0452	19:37	L0615-03A	BED3-GW-MW12R-01		65451	AQ	83	80	66	105	102	106	88		1			
V8B0453	20:03	L0621-03A	DEC-048		65451	AQ	82	79	67	105	102	107	89		1			
V8B0454	20:29	L0621-04A	DEC-047		65451	AQ	83	79	67	105	101	107	88		1			
V8B0455	20:55	L0621-05A	20120329-FD-1		65451	AQ	82	79	75	104	102	106	92		1			
V8B0456	21:21	L0621-06A	DEC-012		65451	AQ	86	82	71	103	102	106	90		1			
V8B0457	21:47	L0621-16A	DEC-043		65451	AQ	83	80	68	105	102	106	88		1			
V8B0458	22:14	L0621-17A	DEC-043D		65451	AQ	82	78	66	105	104	107	88		1			
V8B0459	22:40	VBK	VBK		65451	AQ	81	77	64	105	102	108	89		1			
V8B0460	23:06	VBK	VBK		AQ		80	76	62	106	102	107	88		1			

- E - One or more target compounds are above the calibration range
- R - One or more spike compounds are outside of control limits
- T - Sample was injected outside of the 12 hour sequence
- F - Internal Standard or Surrogate outside of control limit
- D - Surrogates are diluted

2194

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
 Instrument ID: V10 Calibration Date: 04/06/2012 Time: 8:58
 Lab File ID: V8B0472.D Init. Calib. Date(s): 03/30/2012 03/30/2012
 EPA Sample No. (VSTD####) VSTD05010S Init. Calib. Time(s): 11:39 14:15
 Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)
 Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.180	0.141	0.100	-21.5	20.0
Chloromethane	0.297	0.254	0.010	-14.5	20.0
Vinyl chloride	0.257	0.238	0.010	-7.3	20.0
Bromomethane	0.186	0.165	0.010	-11.4	20.0
Chloroethane	0.144	0.140	0.010	-2.8	20.0
Trichlorofluoromethane	0.339	0.328	0.010	-3.2	20.0
1,1-Dichloroethene	0.278	0.246	0.100	-11.6	20.0
Acetone	0.035	0.034	0.010	-1.7	20.0
Iodomethane	0.261	0.238	0.010	-9.0	20.0
Carbon disulfide	0.922	0.831	0.010	-9.9	20.0
Methylene chloride	0.329	0.297	0.010	-9.7	20.0
trans-1,2-Dichloroethene	0.296	0.271	0.010	-8.4	20.0
Methyl tert-butyl ether	0.791	0.713	0.010	-9.8	20.0
1,1-Dichloroethane	0.541	0.496	0.010	-8.2	20.0
Vinyl acetate	0.896	0.867	0.010	-3.3	20.0
2-Butanone	0.034	0.032	0.010	-6.8	20.0
cis-1,2-Dichloroethene	0.322	0.300	0.010	-6.9	20.0
2,2-Dichloropropane	0.411	0.392	0.010	-4.5	20.0
Bromochloromethane	0.151	0.142	0.010	-6.0	20.0
Chloroform	0.533	0.497	0.010	-6.8	20.0
1,1,1-Trichloroethane	0.436	0.399	0.010	-8.5	20.0
1,1-Dichloropropene	0.142	0.128	0.010	-9.7	20.0
Carbon tetrachloride	0.373	0.345	0.010	-7.6	20.0
1,2-Dichloroethane	0.395	0.379	0.010	-4.3	20.0
Benzene	1.201	1.104	0.010	-8.0	20.0
Trichloroethene	0.307	0.273	0.010	-11.1	20.0
1,2-Dichloropropane	0.313	0.292	0.010	-6.9	20.0
Dibromomethane	0.194	0.186	0.010	-4.4	20.0
Bromodichloromethane	0.398	0.375	0.010	-5.7	20.0
cis-1,3-Dichloropropene	0.458	0.427	0.010	-6.8	20.0
4-Methyl-2-pentanone	0.226	0.195	0.010	-13.9	20.0
Toluene	1.226	1.114	0.010	-9.2	20.0
trans-1,3-Dichloropropene	0.404	0.386	0.010	-4.4	20.0
1,1,2-Trichloroethane	0.288	0.255	0.010	-11.4	20.0
1,3-Dichloropropane	0.606	0.576	0.010	-4.9	20.0
Tetrachloroethene	0.348	0.294	0.010	-15.4	20.0
2-Hexanone	0.200	0.186	0.010	-6.6	20.0
Dibromochloromethane	0.396	0.385	0.010	-2.8	20.0
1,2-Dibromoethane	0.367	0.340	0.010	-7.3	20.0
Chlorobenzene	1.056	0.984	0.010	-6.8	20.0

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
 Instrument ID: V10 Calibration Date: 04/06/2012 Time: 8:58
 Lab File ID: V8B0472.D Init. Calib. Date(s): 03/30/2012 03/30/2012
 EPA Sample No. (VSTD####) VSTD05010S Init. Calib. Time(s): 11:39 14:15
 Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)
 Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
1,1,1,2-Tetrachloroethane	0.369	0.355	0.010	-4.0	20.0
Ethylbenzene	0.518	0.498	0.010	-4.0	20.0
m,p-Xylene	0.634	0.618	0.010	-2.5	20.0
o-Xylene	0.611	0.594	0.010	-2.8	20.0
Xylene (Total)	0.627	0.610	0.010	-2.6	20.0
Styrene	0.985	1.000	0.010	1.5	20.0
Bromoform	0.251	0.235	0.010	-6.5	20.0
Isopropylbenzene	1.465	1.421	0.300	-3.0	20.0
1,1,2,2-Tetrachloroethane	1.010	0.859	0.300	-15.0	20.0
Bromobenzene	0.857	0.800	0.010	-6.6	20.0
1,2,3-Trichloropropane	1.179	1.032	0.010	-12.5	20.0
2-Chlorotoluene	0.755	0.723	0.010	-4.2	20.0
1,3,5-Trimethylbenzene	2.377	2.365	0.010	-0.5	20.0
4-Chlorotoluene	0.778	0.756	0.010	-2.8	20.0
tert-Butylbenzene	2.417	2.317	0.010	-4.1	20.0
1,2,4-Trimethylbenzene	2.395	2.414	0.010	0.8	20.0
sec-Butylbenzene	2.869	2.829	0.010	-1.4	20.0
4-Isopropyltoluene	2.339	2.319	0.010	-0.8	20.0
1,3-Dichlorobenzene	1.469	1.373	0.010	-6.6	20.0
1,4-Dichlorobenzene	1.551	1.421	0.010	-8.4	20.0
1,2-Dichlorobenzene	1.444	1.340	0.010	-7.2	20.0
1,2-Dibromo-3-chloropropane	0.132	0.110	0.010	-16.9	20.0
1,2,4-Trichlorobenzene	0.609	0.570	0.010	-6.5	20.0
Hexachlorobutadiene	0.350	0.327	0.010	-6.8	20.0
1,2,3-Trichlorobenzene	0.541	0.483	0.010	-10.8	20.0
Naphthalene	1.354	1.062	0.010	-21.5	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.274	0.251	0.010	-8.3	20.0
1,4-Dioxane	0.003	0.003	0.010	-14.3	20.0
Cyclohexane	0.440	0.399	0.010	-9.3	20.0
Methyl acetate	0.189	0.180	0.010	-4.4	20.0
Methylcyclohexane	0.410	0.378	0.010	-7.8	20.0

Spectrum Analytical, Inc. RI Division Volatiles Laboratory
 METHOD: V10 Injection Log
 ANALYST: *AK*
 BATCH: 120406.B
 Start: 06-APR-12 07:53
 End: 06-APR-12 21:26

Comments:
 Standards: *150 VMT00000A 2 ul*
150 VMT00000A 100 ul
150 VMT00000A 200 ul
150 VMT00000A 200 ul

FILE	TIME	LAB ID	CLIENT ID	PREP	MT	BN	INTERNAL	STDS	SURROGATES	DIIN	PLG	PH
V8B0470	07:53	BFB10S		100	100	100	100	100	100	100	100	100
V8B0471	08:11	VSTD05010S		100	100	100	100	100	100	100	100	100
V8B0472	08:58	VSTD05010S		100	100	100	100	100	100	100	100	100
V8B0473	09:34	LCS-65472		103	103	103	103	103	103	103	103	103
V8B0474	10:00	LCS-65472		106	106	106	106	106	106	106	106	106
V8B0475	10:30	MB-65472		100	100	100	100	100	100	100	100	100
V8B0476	10:56	MB-65472		98	98	98	98	98	98	98	98	98
V8B0477	11:22	MB-65472		96	96	96	96	96	96	96	96	96
V8B0478	11:48	L0615-01A		93	93	93	93	93	93	93	93	93
V8B0479	12:14	L0607-10A		91	91	91	91	91	91	91	91	91
V8B0480	12:40	L0607-07A		83	83	83	83	83	83	83	83	83
V8B0481	13:06	L0614-16A		87	87	87	87	87	87	87	87	87
V8B0482	13:32	L0614-16A		88	88	88	88	88	88	88	88	88
V8B0483	13:58	L0621-03A		87	87	87	87	87	87	87	87	87
V8B0484	14:25	L0621-04A		89	89	89	89	89	89	89	89	89
V8B0485	14:51	L0621-05A		87	87	87	87	87	87	87	87	87
V8B0486	15:17	L0621-16A		89	89	89	89	89	89	89	89	89
V8B0487	15:44	L0621-17A		88	88	88	88	88	88	88	88	88
V8B0488	16:10	L0607-05A		87	87	87	87	87	87	87	87	87
V8B0489	16:36	L0615-02A		86	86	86	86	86	86	86	86	86
V8B0490	17:03	L0615-03A		85	85	85	85	85	85	85	85	85
V8B0491	17:29	L0607-06A		86	86	86	86	86	86	86	86	86
V8B0492	17:56	L0607-08A		82	82	82	82	82	82	82	82	82
V8B0493	18:22	L0607-04A		85	85	85	85	85	85	85	85	85
V8B0494	18:48	L0621-06A		70	70	70	70	70	70	70	70	70
V8B0495	19:15	L0621-10A		83	83	83	83	83	83	83	83	83
V8B0496	19:41	L0621-07A		83	83	83	83	83	83	83	83	83
V8B0497	20:07	VBLK		83	83	83	83	83	83	83	83	83

E - One or more target compounds are above the calibration range
 R - One or more spike compounds are outside of control limits
 T - Sample was injected outside of the 12 hour sequence
 * - Internal Standard or Surrogate outside of control limit
 - Surrogates are diluted

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
 Instrument ID: V10 Calibration Date: 04/09/2012 Time: 9:30
 Lab File ID: V8B0511.D Init. Calib. Date(s): 03/30/2012 03/30/2012
 EPA Sample No. (VSTD####) VSTD05010T Init. Calib. Time(s): 11:39 14:15
 Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)
 Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.180	0.141	0.100	-21.5	20.0
Chloromethane	0.297	0.293	0.010	-1.4	20.0
Vinyl chloride	0.257	0.265	0.010	3.3	20.0
Bromomethane	0.186	0.166	0.010	-10.8	20.0
Chloroethane	0.144	0.162	0.010	12.1	20.0
Trichlorofluoromethane	0.339	0.361	0.010	6.6	20.0
1,1-Dichloroethene	0.278	0.264	0.100	-5.1	20.0
Acetone	0.035	0.032	0.010	-7.5	20.0
Iodomethane	0.261	0.217	0.010	-16.9	20.0
Carbon disulfide	0.922	0.959	0.010	4.0	20.0
Methylene chloride	0.329	0.327	0.010	-0.6	20.0
trans-1,2-Dichloroethene	0.296	0.301	0.010	1.7	20.0
Methyl tert-butyl ether	0.791	0.761	0.010	-3.8	20.0
1,1-Dichloroethane	0.541	0.548	0.010	1.3	20.0
Vinyl acetate	0.896	0.962	0.010	7.3	20.0
2-Butanone	0.034	0.033	0.010	-4.7	20.0
cis-1,2-Dichloroethene	0.322	0.328	0.010	1.9	20.0
2,2-Dichloropropane	0.411	0.438	0.010	6.6	20.0
Bromochloromethane	0.151	0.152	0.010	0.4	20.0
Chloroform	0.533	0.556	0.010	4.4	20.0
1,1,1-Trichloroethane	0.436	0.448	0.010	2.8	20.0
1,1-Dichloropropene	0.142	0.141	0.010	-0.5	20.0
Carbon tetrachloride	0.373	0.392	0.010	5.1	20.0
1,2-Dichloroethane	0.395	0.421	0.010	6.6	20.0
Benzene	1.201	1.238	0.010	3.1	20.0
Trichloroethene	0.307	0.304	0.010	-1.2	20.0
1,2-Dichloropropane	0.313	0.325	0.010	3.7	20.0
Dibromomethane	0.194	0.202	0.010	4.0	20.0
Bromodichloromethane	0.398	0.419	0.010	5.3	20.0
cis-1,3-Dichloropropene	0.458	0.465	0.010	1.7	20.0
4-Methyl-2-pentanone	0.226	0.226	0.010	-0.1	20.0
Toluene	1.226	1.238	0.010	1.0	20.0
trans-1,3-Dichloropropene	0.404	0.425	0.010	5.4	20.0
1,1,2-Trichloroethane	0.288	0.280	0.010	-2.6	20.0
1,3-Dichloropropane	0.606	0.612	0.010	1.0	20.0
Tetrachloroethene	0.348	0.325	0.010	-6.7	20.0
2-Hexanone	0.200	0.196	0.010	-1.7	20.0
Dibromochloromethane	0.396	0.417	0.010	5.3	20.0
1,2-Dibromoethane	0.367	0.356	0.010	-2.9	20.0
Chlorobenzene	1.056	1.052	0.010	-0.4	20.0

Comments:

Standards: 6-FB VW120404A 2 uL
15/55 VW120326A AED uL
20 VW120329A uL

Reviewed By: *Jan 4/10/12* Manual Integration: N/A MI Review: N/A

FILE	TIME	LAB ID	CLIENT ID	PREP	MT	BN	INTERNAL	STD	SURROGATES	DILN	FLG	COMMENTS	pH
V8B0510	09:18	V8B10T	V8B10T	AQ						1	OK		
V8B0511	09:30	V8D05010T	V8D05010T	AQ						1	OK		
V8B0512	10:12	LCS-65497	LCS-65497	65497	AQ		99	95	101	102	100	97	1
V8B0513	10:38	LCS-65497	LCS-65497	65497	AQ		100	98	100	102	102	98	1
V8B0514	11:04	MB-65497	MB-65497	65497	AQ		94	87	72	102	102	106	91
V8B0515	11:30	MB-65497	MB-65497	65497	AQ		90	84	66	104	104	105	89
V8B0516	11:56	MB-65497	MB-65497	65497	AQ		86	80	62	105	103	105	88
V8B0517	12:22	L0621-18A	TRIP BLANK	65497	AQ		84	79	60	106	103	106	88
V8B0518	12:48	L0614-20A	NW09-20D-033012	65497	AQ		84	78	60	106	106	106	88
V8B0519	14:11	L0614-22A	NW09-20T-033012	65497	AQ		84	77	59	106	104	106	87
V8B0520	14:37	L0615-06A	BED3-GW-MW72I-0	65497	AQ		91	84	65	106	104	107	88
V8B0521	15:03	L0615-07A	BED3-GW-MW73I-0	65497	AQ		85	79	60	107	106	107	87
V8B0522	15:30	L0621-08A	DEC-031TC	65497	AQ		90	83	66	106	104	106	87
V8B0523	15:56	L0621-09A	DEC-013	65497	AQ		89	84	65	108	105	105	87
V8B0524	16:22	L0621-11A	DEC-028	65497	AQ		90	84	64	107	105	106	88
V8B0525	16:49	L0621-12A	DEC-028D	65497	AQ		90	84	63	108	106	106	86
V8B0526	17:15	L0621-13A	DEC-011	65497	AQ		89	82	62	109	106	107	87
V8B0527	17:42	L0621-14A	DEC-011D	65497	AQ		90	85	71	108	106	107	90
V8B0528	18:08	L0621-15A	20120330-FD-1	65497	AQ		89	83	66	108	107	107	88
V8B0529	18:35	L0639-01A	DEC-008	65497	AQ		89	83	64	109	106	106	86
V8B0530	19:01	L0639-02A	DEC-042	65497	AQ		90	84	64	109	107	106	87
V8B0531	19:27	L0639-03A	DEC-065	65497	AQ		89	83	63	110	106	107	86
V8B0532	19:54	L0639-04A	DEC-065D	65497	AQ		90	82	62	108	105	109	86
V8B0533	20:20	L0639-05A	DEC-044	65497	AQ		89	82	62	108	106	107	86
V8B0534	20:46	L0639-11A	DEC-010	65497	AQ		90	82	62	110	106	108	86
V8B0535	21:12	L0639-12A	DEC-004	65497	AQ		89	82	62	109	106	108	87
V8B0536	21:39	L0639-13A	DEC-029TC	65497	AQ		94	87	67	104	103	103	88
V8B0537	22:05	L0621-08AMS	DEC-031TMS	65497	AQ		98	100	101	103	105	99	99

E - One or more target compounds are above the calibration range
R - One or more spike compounds are outside of control limits
T - Sample was injected outside of the 12 hour sequence
* - Internal Standard or Surrogate outside of control limit
- Surrogates are diluted

AED 4/10/12

6C - FORM VI VOA-3
VOLATILE ORGANICS INITIAL CALIBRATION DATA
Contract:

Lab Name: Spectrum Analytical, Inc.

Lab Code: MITKEM Case No.: L0621 SAS No.: SDG No.: SL0621

Instrument ID: V10 Heated Purge: (Y/N) N Calibration Date(s): 04/11/2012 04/11/2012

Purge Volume: 5 Purge Volume: 5 Calibration Times: 8:55 11:53

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (mm)

LAB FILE ID: RRF005 = V8B0594.D RRF020 = V8B0593.D RRF050 = V8B0592.D RRF100 = V8B0598.D RRF200 = V8B0597.D										
RRF001 = V8B0596.D										
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF001			RRF	% RSD
Dichlorodifluoromethane	0.393	0.367	0.324	0.328	0.343	0.404			0.360	9.4
Chloromethane	0.452	0.413	0.386	0.380	0.420	0.496			0.424	10.3
Vinyl chloride	0.386	0.367	0.339	0.331	0.352	0.396			0.362	7.1
Bromomethane	0.254	0.217	0.197	0.194	0.158	0.404			0.237	36.9
Chloroethane	0.202	0.189	0.174	0.164	0.167	0.206			0.184	9.8
Trichlorofluoromethane	0.442	0.417	0.369	0.365	0.390	0.473			0.409	10.4
1,1-Dichloroethene	0.287	0.272	0.248	0.267	0.273	0.297			0.274	6.1
Acetone	0.052	0.047	0.042	0.042	0.041				0.045	10.6
Iodomethane	0.204	0.239	0.258	0.292	0.292	0.129			0.236	26.3
Carbon disulfide	1.018	0.942	0.853	0.854	0.872	1.227			0.961	15.1
Methylene chloride	0.374	0.323	0.301	0.311	0.320	0.516			0.358	22.8
trans-1,2-Dichloroethene	0.304	0.291	0.277	0.288	0.293	0.304			0.293	3.6
Methyl tert-butyl ether	0.706	0.730	0.691	0.782	0.798	0.640			0.725	8.1
1,1-Dichloroethane	0.586	0.540	0.503	0.516	0.533	0.576			0.542	6.0
Vinyl acetate	0.828	0.880	0.850	0.917	0.935	0.719			0.855	9.1
2-Butanone	0.029	0.039	0.036	0.041	0.041				0.037	13.9
cis-1,2-Dichloroethene	0.320	0.315	0.302	0.319	0.325	0.310			0.315	2.6
2,2-Dichloropropane	0.418	0.422	0.393	0.394	0.412	0.408			0.408	3.0
Bromochloromethane	0.152	0.147	0.139	0.145	0.150	0.136			0.145	4.4
Chloroform	0.550	0.524	0.495	0.506	0.529	0.549			0.525	4.3
1,1,1-Trichloroethane	0.450	0.432	0.397	0.416	0.433	0.460			0.431	5.2
1,1-Dichloropropene	0.132	0.138	0.129	0.140	0.146	0.105			0.132	11.0
Carbon tetrachloride	0.380	0.368	0.337	0.356	0.373	0.365			0.363	4.2
1,2-Dichloroethane	0.410	0.384	0.367	0.379	0.395	0.426			0.394	5.6
Benzene	1.253	1.186	1.112	1.154	1.171	1.232			1.185	4.3
Trichloroethene	0.338	0.294	0.274	0.296	0.305	0.445			0.325	19.2
1,2-Dichloropropane	0.322	0.309	0.291	0.301	0.311	0.289			0.304	4.2

sum1111027A

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

SW846

6C - FORM VI VOA-3
VOLATILE ORGANICS INITIAL CALIBRATION DATA
Lab Name: Spectrum Analytical, Inc. Contract:

Lab Code: MITKEM Case No.: L0621 SAS No.: SDG No.: SL0621
Instrument ID: V10 Calibration Date(s): 04/11/2012 04/11/2012
Heated Purge: (Y/N) N Calibration Times: 8:55 11:53
Purge Volume: 5 (mL)
GC Column: DB-624 ID: 0.25 (mm) Length: 30 (mm)

LAB FILE ID: RRF005 = V8B0594.D RRF020 = V8B0593.D RRF050 = V8B0592.D RRF100 = V8B0598.D RRF200 = V8B0597.D
RRF001 = V8B0596.D

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF001	RRF	% RSD
Dibromomethane	0.191	0.185	0.178	0.190	0.198	0.168	0.185	5.7
Bromodichloromethane	0.385	0.380	0.369	0.387	0.410	0.365	0.383	4.2
cis-1,3-Dichloropropene	0.387	0.426	0.430	0.462	0.492	0.318	0.419	14.6
4-Methyl-2-pentanone	0.169	0.198	0.196	0.238	0.247		0.210	15.4
Toluene	1.202	1.174	1.120	1.172	1.217	1.187	1.179	2.8
trans-1,3-Dichloropropene	0.339	0.372	0.375	0.417	0.447	0.268	0.370	16.9
1,1,2-Trichloroethane	0.267	0.257	0.246	0.267	0.278	0.257	0.262	4.2
1,3-Dichloropropane	0.593	0.571	0.534	0.573	0.578	0.534	0.564	4.3
Tetrachloroethene	0.467	0.332	0.294	0.308	0.306	0.811	0.420	48.2
2-Hexanone	0.145	0.197	0.200	0.231	0.236		0.202	18.1
Dibromochloromethane	0.362	0.365	0.355	0.389	0.401	0.319	0.365	7.8
1,2-Dibromoethane	0.337	0.325	0.314	0.351	0.359	0.292	0.330	7.5
Chlorobenzene	1.087	1.006	0.944	0.979	0.986	1.112	1.019	6.5
1,1,1,2-Tetrachloroethane	0.363	0.347	0.330	0.350	0.358	0.348	0.349	3.3
Ethylbenzene	0.483	0.482	0.480	0.510	0.518	0.395	0.478	9.2
m,p-Xylene	0.608	0.612	0.599	0.628	0.624	0.466	0.589	10.4
o-Xylene	0.512	0.570	0.571	0.610	0.613	0.396	0.546	15.0
Xylene (Total)	0.576	0.598	0.590	0.622	0.621	0.443	0.575	11.7
Styrene	0.810	0.929	0.952	1.027	1.045	0.545	0.884	21.1
Bromoform	0.210	0.213	0.210	0.249	0.260	0.171	0.219	14.5
Isopropylbenzene	1.203	1.332	1.365	1.465	1.504	0.877	1.291	17.7
1,1,2,2-Tetrachloroethane	1.024	0.882	0.804	0.869	0.833	1.048	0.910	11.2
Bromobenzene	0.847	0.791	0.754	0.780	0.771	0.829	0.795	4.5
1,2,3-Trichloropropane	1.119	1.038	0.955	1.066	1.045	1.096	1.053	5.4
2-Chlorotoluene	0.740	0.725	0.695	0.709	0.693	0.621	0.697	5.9
1,3,5-Trimethylbenzene	2.175	2.302	2.306	2.327	2.273	1.602	2.164	13.0
4-Chlorotoluene	0.788	0.763	0.726	0.736	0.721	0.594	0.722	9.3

6C - FORM VI VOA-3
VOLATILE ORGANICS INITIAL CALIBRATION DATA
Lab Name: Spectrum Analytical, Inc. Contract:

Lab Code: MITKEM Case No.: L0621 SAS No.: SDG No.: SL0621
Instrument ID: V10 Calibration Date(s): 04/11/2012 04/11/2012
Heated Purge: (Y/N) N Calibration Times: 8:55 11:53
Purge Volume: 5 (mL)
GC Column: DB-624 ID: 0.25 (mm) Length: 30 (mm)

LAB FILE ID: RRF005 = V8B0594.D RRF020 = V8B0593.D RRF050 = V8B0592.D RRF100 = V8B0598.D RRF200 = V8B0597.D												
RRF001 = V8B0596.D												
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF001					RRF	% RSD
tert-Butylbenzene	2.140	2.239	2.282	2.322	2.295	1.835					2.185	8.4
1,2,4-Trimethylbenzene	2.198	2.347	2.338	2.356	2.315	1.525					2.180	14.9
sec-Butylbenzene	2.503	2.685	2.771	2.766	2.732	1.850					2.551	14.0
4-Isopropyltoluene	1.962	2.161	2.239	2.274	2.221	1.351					2.035	17.3
1,3-Dichlorobenzene	1.487	1.348	1.306	1.336	1.308	1.429					1.369	5.3
1,4-Dichlorobenzene	1.616	1.400	1.346	1.380	1.348	1.819					1.485	12.9
1,2-Dichlorobenzene	1.491	1.347	1.270	1.302	1.259	1.368					1.340	6.4
1,2-Dibromo-3-chloropropane	0.129	0.110	0.103	0.135	0.123						0.120	11.1
1,2,4-Trichlorobenzene	0.527	0.512	0.537	0.701	0.660						0.587	14.8
Hexachlorobutadiene	0.393	0.333	0.306	0.299	0.292	0.339					0.327	11.4
1,2,3-Trichlorobenzene	0.518	0.471	0.454	0.637	0.552	0.227					0.476	29.0
Naphthalene	0.808	0.919	1.025	1.758	1.454	0.684					1.108	37.3
1,1,2-Trichloro-1,2,2-trifluoro	0.303	0.282	0.240	0.252	0.258	0.313					0.275	10.7
1,4-Dioxane	0.002	0.003	0.003	0.003	0.003						0.003	14.1
Cyclohexane	0.418	0.433	0.395	0.413	0.430	0.346					0.406	7.9
Methyl acetate	0.191	0.187	0.172	0.193	0.197	0.154					0.182	9.1
Methylcyclohexane	0.358	0.380	0.369	0.386	0.401	0.283					0.363	11.5

INJECTION LOG

Spectrum Analytical, Inc. RI Division V10 Injection Log
Volatiles Laboratory

METHOD: 2260W
ICAL DATE: 4/10/12

ANALYST: AED

BATCH: 120411.B

Start: 11-APR-12 08:00
End: 11-APR-12 12:53

End: 11-APR-12 12:53

Comments:

Standards:	BFB VW160404	2	ul
	15FS VW120326A	AND	ul
	STD VW120329A	20	ul
	1CV VW120329B	20	ul

ISSN 0013-788X

STD 1W120379A

CV 10010298

Reviewed By: 4-721 Manual Integration: AED 4/1/12 MI Review:

FILE	TIME	LAB ID	CLIENT ID	PREP	MT	BN	INTERNAL STDS				SURROGATES				DILN	FLG	PH	COMMENTS
				BATCH			FBZ	CBZ	DCB	DFM	DCE	TOL	BFB					
V8B0590	108:00	BFB10V	BFB10V		AQ													
V8B0592	108:55	VSTD05010V	VSTD05010V		AQ	100	100	100							1			OK
V8B0593	109:43	VSTD02010V	VSTD02010V		AQ	101	99	97							1			OK
V8B0594	10:09	VSTD00510V	VSTD00510V		AQ	99	95	91							1			OK
V8B0595	10:35	VSTD00110V	VSTD00110V		AQ	96	91	81							1			NOT USED
V8B0596	11:01	VSTD00110V	VSTD00110V		AQ	94	88	80							1			OK MT 20
V8B0597	11:27	VSTD20010V	VSTD20010V		AQ	101	105	114							1			OK
V8B0598	11:53	VSTD10010V	VSTD10010V		AQ	103	104	109							1			OK
V8B0599	12:53	VICV05010V	VICV05010V		AQ	104	103	105		100	101	99	101		1	ER		OK

- E - One or more target compounds are above the calibration range
- R - One or more spike compounds are outside of control limits
- T - Sample was injected outside of the 12 hour sequence
- I - Internal Standard or Surrogate outside of control limit
- D - Surrogates are diluted

450 4/11/12

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
 Instrument ID: V10 Calibration Date: 04/12/2012 Time: 9:59
 Lab File ID: V8B0611.D Init. Calib. Date(s): 04/11/2012 04/11/2012
 EPA Sample No. (VSTD####) VSTD05010X Init. Calib. Time(s): 8:55 11:53
 Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)
 Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.360	0.341	0.100	-5.3	20.0
Chloromethane	0.424	0.385	0.010	-9.3	20.0
Vinyl chloride	0.362	0.345	0.010	-4.7	20.0
Bromomethane	0.237	0.190	0.010	-20.1	20.0
Chloroethane	0.184	0.171	0.010	-6.9	20.0
Trichlorofluoromethane	0.409	0.385	0.010	-6.0	20.0
1,1-Dichloroethene	0.274	0.260	0.100	-5.0	20.0
Acetone	0.045	0.049	0.010	9.8	20.0
Iodomethane	0.236	0.234	0.010	-0.6	20.0
Carbon disulfide	0.961	0.886	0.010	-7.8	20.0
Methylene chloride	0.358	0.304	0.010	-15.1	20.0
trans-1,2-Dichloroethene	0.293	0.280	0.010	-4.3	20.0
Methyl tert-butyl ether	0.725	0.741	0.010	2.3	20.0
1,1-Dichloroethane	0.542	0.505	0.010	-6.8	20.0
Vinyl acetate	0.855	0.876	0.010	2.4	20.0
2-Butanone	0.037	0.041	0.010	10.2	20.0
cis-1,2-Dichloroethene	0.315	0.307	0.010	-2.6	20.0
2,2-Dichloropropane	0.408	0.401	0.010	-1.6	20.0
Bromochloromethane	0.145	0.144	0.010	-0.6	20.0
Chloroform	0.525	0.497	0.010	-5.4	20.0
1,1,1-Trichloroethane	0.431	0.408	0.010	-5.3	20.0
1,1-Dichloropropene	0.132	0.136	0.010	3.5	20.0
Carbon tetrachloride	0.363	0.354	0.010	-2.4	20.0
1,2-Dichloroethane	0.394	0.372	0.010	-5.6	20.0
Benzene	1.185	1.129	0.010	-4.7	20.0
Trichloroethene	0.325	0.288	0.010	-11.3	20.0
1,2-Dichloropropane	0.304	0.293	0.010	-3.5	20.0
Dibromomethane	0.185	0.185	0.010	-0.1	20.0
Bromodichloromethane	0.383	0.377	0.010	-1.5	20.0
cis-1,3-Dichloropropene	0.419	0.438	0.010	4.5	20.0
4-Methyl-2-pentanone	0.210	0.214	0.010	2.2	20.0
Toluene	1.179	1.134	0.010	-3.8	20.0
trans-1,3-Dichloropropene	0.370	0.390	0.010	5.6	20.0
1,1,2-Trichloroethane	0.262	0.256	0.010	-2.3	20.0
1,3-Dichloropropane	0.564	0.546	0.010	-3.1	20.0
Tetrachloroethene	0.420	0.296	0.010	-29.5	20.0
2-Hexanone	0.202	0.219	0.010	8.6	20.0
Dibromochloromethane	0.365	0.366	0.010	0.2	20.0
1,2-Dibromoethane	0.330	0.326	0.010	-1.2	20.0
Chlorobenzene	1.019	0.946	0.010	-7.2	20.0

Start: 12-APR-12 09:28
End: 12-APR-12 21:32

BATCH: 120412.B

ANALYST: ju

METHOD: 87L0W
ICAL DATE: 4-11-72

v10 Injection Log

Spectrum Analytical, Inc. RI Division

Volatiles Laboratory

Comments:

Standards:	<u>6870210M</u>	<u>70</u>	<u>W</u>
	<u>9925210A</u>	<u>AND</u>	<u>W</u>
	<u>100 VIM210A</u>	<u>Z</u>	<u>W</u>

Reviewed By: W 4/11 Manual Integration: _____ MI Review: _____

FILE	TIME	LAB ID	CLIENT ID	PREP	INT	EN	INTERNAL STDS				SURROGATES				DILN	FLG	COMMENTS	pH
				BATCH			FBZ	CSZ	DCB	DFM	DCE	TOL	BFB					
V8B0610	09:28	BFB10X	BFB10X		AQ										1		OK	
V8B0611	09:59	VSTD05010X	VSTD05010X		AQ		100	100	100						1		OK	
V8B0612	10:40	LCS-65563	LCS-65563	65563	AQ		99	99	100	101	101	98	100		1		OK	
V8B0613	11:06	LCS-65563	LCS-65563	65563	AQ		100	100	103	100	100	98	100		1		OK	
V8B0614	11:32	MB-65563	MB-65563	65563	AQ		98	94	85	102	100	102	96		1		OK	
V8B0615	11:58	MB-65563	MB-65563	65563	AQ		94	90	79	103	102	101	94		1		OK	
V8B0616	12:24	MB-65563	MB-65563	65563	AQ		93	89	77	102	102	102	94		1		OK	
V8B0617	12:50	L0639-15A	DEC-031D	65563	AQ	1	90	86	73	104	102	102	93	20			OK	
V8B0618	13:16	L0639-13ADL	DEC-029TCDL	65563	AQ	1	91	87	72	103	102	101	92	100			OK	
V8B0619	13:42	MB-65526	VBULK	65563	AQ	1	93	86	74	100	99	102	92	1			OK	
V8B0620	14:08	L0663-01B	JU07-WCL-040512	65563	AQ	1	92	85	73	99	98	102	93	1			OK	
V8B0621	14:35	L0663-01BMS	JU07-WCL-040512	65563	AQ	1	95	96	100	101	102	98	102	1			OK	
V8B0622	15:01	VBULK	VBULK		AQ		94	87	77	100	99	102	95	1			OK	
V8B0623	15:27	L0621-11A	DEC-028	65563	AQ	1	90	85	74	102	101	101	95	5			OK	
V8B0624	15:53	L0621-12A	DEC-028D	65563	AQ	1	86	82	70	104	103	102	93	1			OK	
V8B0625	16:19	L0639-10A	TRIP BLANK	65563	AQ	1	87	82	68	104	102	103	92	1			OK	
V8B0626	16:46	L0639-03A	DEC-065	65563	AQ	1	83	81	67	106	102	101	92	2			OK	
V8B0627	17:12	L0639-06A	DEC-027	65563	AQ	1	84	80	66	106	105	102	91	1			OK	
V8B0628	17:38	L0639-07A	DEC-044D	65563	AQ	1	84	79	65	104	102	102	91	1			OK	
V8B0629	18:04	L0639-09A	20120401-FD-1	65563	AQ	1	83	77	63	106	104	102	90	1			OK	
V8B0630	18:30	L0639-14A	20120331-FD-1	65563	AQ	1	85	82	69	104	103	100	92	1			OK	
V8B0631	18:56	L0639-15A	DEC-031D	65563	AQ	1	81	76	61	106	106	103	90	1			OK	
V8B0632	19:22	L0621-08AMS	DEC-031TMS	65563	AQ	1	89	94	98	105	105	97	101	1			OK	
V8B0633	19:48	L0621-08AMS	DEC-031TMSD	65563	AQ	1	93	95	98	102	103	98	101	1			OK	
V8B0634	20:14	VBULK	VBULK		AQ		88	85	74	104	102	102	93	1			OK	
V8B0635	20:40	VBULK	VBULK		AQ		85	81	68	106	103	102	92	1			OK	
V8B0636	21:06	VBULK	VBULK		AQ		83	80	65	106	102	102	91	1			OK	
V8B0637	21:32	VBULK	VBULK		AQ		81	78	63	108	104	103	91	1	T		OK	

- E - One or more target compounds are above the calibration range
- R - One or more spike compounds are outside of control limits
- T - Sample was injected outside of the 12 hour sequence
- 51 - Internal Standard or Surrogate outside of control limit
- 29 - Surrogates are diluted

443-2

3A - FORM III VOA-1
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
 Matrix Spike - EPA Sample No.: DEC-031TC Level: (TRACE or LOW) LOW

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS %REC	#	QC. LIMITS REC.
Dichlorodifluoromethane	50.0000	0.0000	41.2309	82		30-155
Chloromethane	50.0000	0.0000	44.0211	88		40-125
Vinyl chloride	50.0000	0.0000	43.3130	87		50-145
Bromomethane	50.0000	0.0000	34.9101	70		30-145
Chloroethane	50.0000	0.0000	43.0377	86		60-135
Trichlorofluoromethane	50.0000	0.0000	43.4306	87		60-145
1,1-Dichloroethene	50.0000	0.0000	39.2709	79		70-130
Acetone	50.0000	0.0000	31.4328	63		40-140
Iodomethane	50.0000	0.0000	34.5083	69	*	72-121
Carbon disulfide	50.0000	0.0000	38.3364	77		35-160
Methylene chloride	50.0000	0.0000	44.6007	89		55-140
trans-1,2-Dichloroethene	50.0000	0.0000	41.5537	83		60-140
Methyl tert-butyl ether	50.0000	0.0000	48.9182	98		65-125
1,1-Dichloroethane	50.0000	0.0000	42.9255	86		70-135
Vinyl acetate	50.0000	0.0000	47.8299	96		38-163
2-Butanone	50.0000	0.0000	43.2672	87		30-150
cis-1,2-Dichloroethene	50.0000	0.0000	42.3076	85		70-125
2,2-Dichloropropane	50.0000	0.0000	35.2567	71		70-135
Bromochloromethane	50.0000	0.0000	45.6278	91		65-130
Chloroform	50.0000	1.3077	45.7948	89		65-135
1,1,1-Trichloroethane	50.0000	0.0000	41.0588	82		65-130
1,1-Dichloropropene	50.0000	0.0000	41.0619	82		75-130
Carbon tetrachloride	50.0000	0.0000	41.5139	83		65-140
1,2-Dichloroethane	50.0000	0.0000	51.7928	104		70-130
Benzene	50.0000	0.0000	43.0831	86		80-120
Trichloroethene	50.0000	0.0000	35.1277	70		70-125
1,2-Dichloropropane	50.0000	0.0000	46.1076	92		75-125
Dibromomethane	50.0000	0.0000	49.9500	100		75-125
Bromodichloromethane	50.0000	0.0000	46.5084	93		75-120
cis-1,3-Dichloropropene	50.0000	0.0000	44.3927	89		70-130
4-Methyl-2-pentanone	50.0000	0.0000	55.6867	111		60-135
Toluene	50.0000	0.0000	41.5346	83		75-120
trans-1,3-Dichloropropene	50.0000	0.0000	47.9340	96		55-140
1,1,2-Trichloroethane	50.0000	0.0000	48.5783	97		75-125
1,3-Dichloropropane	50.0000	0.0000	45.7366	91		75-125
Tetrachloroethene	50.0000	1.9447	43.3401	83		45-150
2-Hexanone	50.0000	0.0000	46.4266	93		55-130
Dibromochloromethane	50.0000	0.0000	44.2491	88		60-135
1,2-Dibromoethane	50.0000	0.0000	45.2374	90		80-120
Chlorobenzene	50.0000	0.0000	38.1846	76	*	80-120
1,1,1,2-Tetrachloroethane	50.0000	0.0000	40.3047	81		80-130
Ethylbenzene	50.0000	0.0000	38.0826	76		75-125
m,p-Xylene	100.0000	0.0000	79.1534	79		75-130
o-Xylene	50.0000	0.0000	40.5698	81		80-120

3A - FORM III VOA-1
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
Matrix Spike - EPA Sample No.: DEC-031TC Level: (TRACE or LOW) LOW

Xylene (Total) -	150.0000	0.0000	119.7232	80	*	81-121
Styrene	50.0000	0.0000	40.4281	81		65-135
Bromoform	50.0000	0.0000	46.2013	92		70-130
Isopropylbenzene	50.0000	0.0000	38.7719	78		75-125
1,1,2,2-Tetrachloroethane	50.0000	0.0000	44.6677	89		65-130
Bromobenzene -	50.0000	0.0000	36.4970	73	*	75-125
1,2,3-Trichloropropane	50.0000	0.0000	45.8649	92		75-125
2-Chlorotoluene -	50.0000	0.0000	36.8622	74	*	75-125
1,3,5-Trimethylbenzene -	50.0000	0.0000	35.9848	72	*	75-130
4-Chlorotoluene -	50.0000	0.0000	37.3698	75	*	75-130
tert-Butylbenzene	50.0000	0.0000	36.0077	72		70-130
1,2,4-Trimethylbenzene	50.0000	0.0000	39.2194	78		75-130
sec-Butylbenzene	50.0000	0.0000	37.0458	74		70-125
4-Isopropyltoluene	50.0000	0.0000	38.1115	76		75-130
1,3-Dichlorobenzene -	50.0000	0.0000	35.4690	71	*	75-125
1,4-Dichlorobenzene -	50.0000	0.0000	34.7258	69	*	75-125
1,2-Dichlorobenzene	50.0000	0.0000	37.8351	76		70-120
1,2-Dibromo-3-chloropropan	50.0000	0.0000	46.9666	94		50-130
1,2,4-Trichlorobenzene	50.0000	0.0000	35.3271	71		65-135
Hexachlorobutadiene	50.0000	0.0000	31.4008	63		50-140
1,2,3-Trichlorobenzene	50.0000	0.0000	41.5308	83		55-140
Naphthalene	50.0000	0.0000	42.9712	86		55-140
1,1,2-Trichloro-1,2,2-trif	50.0000	0.0000	39.3380	79		70-130
1,4-Dioxane	1000.0000	0.0000	1093.6855	109		70-130
Cyclohexane	50.0000	0.0000	42.2821	85		70-130
Methyl acetate	50.0000	0.0000	52.5414	105		70-130
Methylcyclohexane	50.0000	0.0000	39.1860	78		70-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD %REC #		%RPD #		QC LIMITS	
							RPD	REC.
Dichlorodifluoromethane	50.0000	41.5605	83		1		0-40	30-155
Chloromethane	50.0000	43.4176	87		1		0-40	40-125
Vinyl chloride	50.0000	43.9866	88		2		0-40	50-145
Bromomethane	50.0000	35.3942	71		1		0-40	30-145
Chloroethane	50.0000	43.3989	87		1		0-40	60-135
Trichlorofluoromethane	50.0000	41.9442	84		3		0-40	60-145
1,1-Dichloroethene	50.0000	40.6524	81		3		0-40	70-130
Acetone	50.0000	31.7699	64		1		0-40	40-140
Iodomethane	50.0000	42.7044	85		21		0-40	72-121
Carbon disulfide	50.0000	38.8845	78		1		0-40	35-160
Methylene chloride	50.0000	44.9868	90		1		0-40	55-140
trans-1,2-Dichloroethene	50.0000	41.7508	84		0		0-40	60-140
Methyl tert-butyl ether	50.0000	49.3102	99		1		0-40	65-125
1,1-Dichloroethane	50.0000	43.2278	86		1		0-40	70-135
Vinyl acetate	50.0000	47.0504	94		2		0-40	38-163
2-Butanone	50.0000	43.7030	87		1		0-40	30-150

3A - FORM III VOA-1
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L0621 Mod. Ref No.: _____ SDG No.: SL0621
 Matrix Spike - EPA Sample No.: DEC-031TC Level: (TRACE or LOW) LOW

cis-1,2-Dichloroethene	50.0000	43.1676	86	2	0-40	70-125
2,2-Dichloropropane	50.0000	34.8171	70	1	0-40	70-135
Bromochloromethane	50.0000	45.7852	92	0	0-40	65-130
Chloroform	50.0000	46.2103	90	1	0-40	65-135
1,1,1-Trichloroethane	50.0000	41.0773	82	0	0-40	65-130
1,1-Dichloropropene	50.0000	42.5229	85	3	0-40	75-130
Carbon tetrachloride	50.0000	41.3153	83	0	0-40	65-140
1,2-Dichloroethane	50.0000	51.6287	103	0	0-40	70-130
Benzene	50.0000	42.8682	86	1	0-40	80-120
Trichloroethene	50.0000	35.6828	71	2	0-40	70-125
1,2-Dichloropropane	50.0000	45.6151	91	1	0-40	75-125
Dibromomethane	50.0000	49.1674	98	2	0-40	75-125
Bromodichloromethane	50.0000	45.7900	92	2	0-40	75-120
cis-1,3-Dichloropropene	50.0000	45.2845	91	2	0-40	70-130
4-Methyl-2-pentanone	50.0000	55.7538	112	0	0-40	60-135
Toluene	50.0000	41.8719	84	1	0-40	75-120
trans-1,3-Dichloropropene	50.0000	47.9878	96	0	0-40	55-140
1,1,2-Trichloroethane	50.0000	47.6459	95	2	0-40	75-125
1,3-Dichloropropane	50.0000	46.5543	93	2	0-40	75-125
Tetrachloroethene	50.0000	41.9364	80	3	0-40	45-150
2-Hexanone	50.0000	47.6309	95	3	0-40	55-130
Dibromochloromethane	50.0000	44.7812	90	1	0-40	60-135
1,2-Dibromoethane	50.0000	46.5590	93	3	0-40	80-120
Chlorobenzene	50.0000	39.0747	76	* 2	0-40	80-120
1,1,1,2-Tetrachloroethane	50.0000	41.0477	82	2	0-40	80-130
Ethylbenzene	50.0000	40.1999	80	5	0-40	75-125
m,p-Xylene	100.0000	82.2237	82	4	0-40	75-130
o-Xylene	50.0000	42.6003	85	5	0-40	80-120
Xylene (Total)	150.0000	124.8240	83	4	0-40	81-121
Styrene	50.0000	41.4895	83	3	0-40	65-135
Bromoform	50.0000	47.3741	95	3	0-40	70-130
Isopropylbenzene	50.0000	41.0607	82	6	0-40	75-125
1,1,2,2-Tetrachloroethane	50.0000	45.2214	90	1	0-40	65-130
Bromobenzene	50.0000	38.5109	77	5	0-40	75-125
1,2,3-Trichloropropane	50.0000	46.2552	93	1	0-40	75-125
2-Chlorotoluene	50.0000	38.5525	77	4	0-40	75-125
1,3,5-Trimethylbenzene	50.0000	38.0242	76	6	0-40	75-130
4-Chlorotoluene	50.0000	39.4424	79	5	0-40	75-130
tert-Butylbenzene	50.0000	38.5884	77	7	0-40	70-130
1,2,4-Trimethylbenzene	50.0000	40.9742	82	4	0-40	75-130
sec-Butylbenzene	50.0000	39.3668	79	6	0-40	70-125
4-Isopropyltoluene	50.0000	40.4329	81	6	0-40	75-130
1,3-Dichlorobenzene	50.0000	37.5169	75	6	0-40	75-125
1,4-Dichlorobenzene	50.0000	36.0559	72	* 4	0-40	75-125
1,2-Dichlorobenzene	50.0000	39.3924	79	4	0-40	70-120
1,2-Dibromo-3-chloropropan	50.0000	48.8794	98	4	0-40	50-130
1,2,4-Trichlorobenzene	50.0000	41.1066	82	15	0-40	65-135

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Klink Cosmo Meeker

Laboratory Workorder / SDG #: L0621

**EPA 300.0, SM 2320B, SM 4500B5-E P, SM 4500B-C N Org, SM
4500D S-**

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
EPA 300.0, SM 2320B, SM 4500B5-E P, SM 4500B-C N Org, SM
4500D S-

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: EPA 300.0, SM 2320B, SM 4500B5-E P, SM 4500B-C N Org, SM 4500D S-

V. INSTRUMENTATION

The following instrumentation was used to perform

Instrument Code: IC1

Instrument Type: IC

Description: DX-500

Manufacturer: Dionex

Model: DX-500

GC Column used: 0.25 m X 4 mm ID [μ m thickness] AS14A-7 capillary column.

Instrument Code: MANUAL

Instrument Type: WC

Instrument Code: SPEC2

Instrument Type: SP

Description: Spectronic 20 Genesys

Manufacturer: Spectronic Instruments

Model: 4004-000

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples DEC-031TC (L0621-08DMS) and DEC-031TC (L0621-08DMSD) for Chloride and Sulfate.

Percent recoveries were within the QC limits with the following exceptions:

DEC-031TC (L0621-08DMS), recovery is below criteria for Chloride at 57% with criteria of (80-120).

DEC-031TC (L0621-08DMSD), recovery is below criteria for Chloride at 48% with criteria of (80-120).

Percent RPDs were within the QC limits.

Matrix spike was performed on samples: DEC-031TC (L0621-08BMS) for Sulfide, DEC-031TC (L0621-08CMS) for Phosphorus and TKN and DEC-031TC (L0621-08DMS) for Alkalinity.

Spike recovery was within the QC limits for all analyses.

D. Duplicate sample:

Duplicate analysis was performed on samples: DEC-031TC (L0621-08BDUP) for Sulfide, DEC-031TC (L0621-08CDUP) for Phosphorus and TKN and DEC-031TC (L0621-08DDUP) for Alkalinity.

Percent RPD was within the QC limits for all analyses.

E. Dilutions:

The following samples were analyzed at dilution:

DEC-007 (L0621-01D), dilution factor: 10 for Chloride
DEC-007D (L0621-02D), dilution factor: 10 for Chloride
DEC-048 (L0621-03D), dilution factor: 10 for Chloride
DEC-047 (L0621-04D), dilution factor: 10 for Chloride
20120329-FD-1 (L0621-05D), dilution factor: 10 for Chloride
DEC-012 (L0621-06D), dilution factor: 10 for Chloride
DEC-033 (L0621-07C), dilution factor: 2 for Phosphorus (As P)
DEC-033 (L0621-07D), dilution factor: 20 for Chloride
DEC-031TC (L0621-08CMS), dilution factor: 2 for Phosphorus (As P)
DEC-031TC (L0621-08D), dilution factor: 10 for Chloride
DEC-031TC (L0621-08DMS), dilution factor: 10 for Chloride
DEC-031TC (L0621-08DMSD), dilution factor: 10 for Chloride
DEC-013D (L0621-10D), dilution factor: 10 for Chloride
DEC-028 (L0621-11D), dilution factor: 10 for Chloride
DEC-028D (L0621-12D), dilution factor: 5 for Chloride and Sulfate

DEC-011 (L0621-13D), dilution factor: 10 for Chloride
20120330-FD-1 (L0621-15D), dilution factor: 5 for Chloride and
Sulfate

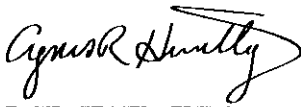
DEC-043 (L0621-16D), dilution factor: 5 for Chloride
DEC-043D (L0621-17D), dilution factor: 10 for Chloride

F. Samples:

The Nitrate/Nitrite analyses were performed by Spectrum Analytical, Inc., featuring Hanibal Technology of Agawam, MA. The Spectrum Analytical Agawam report has been submitted following the Spectrum RI data report.

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum RI, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed: 

Date: 04/19/12

ANALYTICAL QC SUMMARY REPORT

CLIENT: URS Corporation

Work Order: L0621

E300IC_W

Project: Klink Cosmo Meeker

EPA 300.0 - Ion Chromatography (LOW)

Sample ID: MB-65524	SampType: MBLK	TestCode: E300IC_W	Prep Date: 04/10/12 13:20	Run ID: IC1_120410B
Client ID: MB-65524	Batch ID: 65524	Units: mg/L	Analysis Date: 04/10/12 19:44	SeqNo: 1719145
Analyte	Result	MDL	SPK value	SPK Ref Val
Chloride	ND	0.25	RL	RPD Ref Val
Sulfate	ND	0.32	2.0	%RPD RPDLimit
			5.0	Qual

Sample ID: LCS-65524	SampType: LCS	TestCode: E300IC_W	Prep Date: 04/10/12 13:20	Run ID: IC1_120410B
Client ID: LCS-65524	Batch ID: 65524	Units: mg/L	Analysis Date: 04/10/12 19:56	SeqNo: 1719146
Analyte	Result	MDL	SPK value	SPK Ref Val
Chloride	15.50	0.25	RL	RPD Ref Val
Sulfate	36.92	0.32	2.0	%RPD RPDLimit
			5.0	Qual

Sample ID: L0621-08DMS	SampType: MS	TestCode: E300IC_W	Prep Date: 04/10/12 13:20	Run ID: IC1_120410B
Client ID: DEC-031TC	Batch ID: 65524	Units: mg/L	Analysis Date: 04/10/12 22:05	SeqNo: 1719110
Analyte	Result	MDL	SPK value	SPK Ref Val
Chloride	39.10	0.32	RL	RPD Ref Val
Sulfate			5.0	%RPD RPDLimit
			2.576	Qual

Sample ID: L0621-08DMS	SampType: MS	TestCode: E300IC_W	Prep Date: 04/10/12 13:20	Run ID: IC1_120411A
Client ID: DEC-031TC	Batch ID: 65524	Units: mg/L	Analysis Date: 04/11/12 18:04	SeqNo: 1719225
Analyte	Result	MDL	SPK value	SPK Ref Val
Chloride	190.6	2.5	RL	RPD Ref Val
			20	%RPD RPDLimit
			16.00	Qual

Sample ID: L0621-08DMS	SampType: MSD	TestCode: E300IC_W	Prep Date: 04/10/12 13:20	Run ID: IC1_120410B
Client ID: DEC-031TC	Batch ID: 65524	Units: mg/L	Analysis Date: 04/10/12 22:17	SeqNo: 1719111
Analyte	Result	MDL	SPK value	SPK Ref Val
Chloride	38.66	0.32	RL	RPD Ref Val
			5.0	%RPD RPDLimit
			2.576	Qual

Sample ID: L0621-08DMS	SampType: MSD	TestCode: E300IC_W	Prep Date: 04/10/12 13:20	Run ID: IC1_120411A
Client ID: DEC-031TC	Batch ID: 65524	Units: mg/L	Analysis Date: 04/11/12 18:16	SeqNo: 1719226
Analyte	Result	MDL	SPK value	SPK Ref Val
Chloride	189.2	2.5	RL	RPD Ref Val
			20	%RPD RPDLimit
			16.00	Qual

74x spike amt.
 74x spike amt.
 0. no qual.

Qualifiers: ND - Not Detected at the MDL S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

CASE NARRATIVE

Spectrum Analytical, Inc. Lab Reference No. SB46687

Client: Spectrum Analytical, Inc.-- RI Division

Project: See Chain of Custody / L0621

SDG #: 46687

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception or a communication form is included in the addendum with this package.

II. HOLDING TIMES

All samples were prepared and analyzed within the method-specific holding time.

III. METHODS

Analyses were performed according to EPA 353.2.

IV. PREPARATION

Aqueous samples were prepared according to General Preparation.

V. INSTRUMENTATION

The following equipment was used to analyze EPA 353.2:

Lachat2 details: Lachat Quikchem 8000

VI. ANALYSIS

A. Calibration:

All quality control samples were within the acceptance criteria.

B. Blanks:

All blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Samples (LCS):

All method criteria were met.

2. Matrix Spike / Matrix Spike Duplicate Samples (MS/MSD):

A matrix spike and a matrix spike duplicate were analyzed:

In batch 1207901 from source sample DEC-031TC (SB46687-08).

In batch 1207909 from source sample DEC-043 (SB46687-16).

All method criteria were met.

3. Reference:

All method criteria were met.

D. Duplicates:

A duplicate was analyzed.

In batch 1207901 from source sample DEC-031TC (SB46687-08).

In batch 1207909 from source sample DEC-043 (SB46687-16).

All method criteria were met.

E. Samples:

All method criteria were met with the following exceptions:

Nitrate/Nitrite as N in batch 1207901, samples 20120329-FD-1 (SB46687-05), DEC-007 (SB46687-01), DEC-007D (SB46687-02), DEC-011 (SB46687-13), DEC-011D (SB46687-14), DEC-012 (SB46687-06), DEC-013 (SB46687-09), DEC-013D (SB46687-10), DEC-033 (SB46687-07), DEC-047 (SB46687-04), DEC-048 (SB46687-03): Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Nitrate/Nitrite as N in batch 1207901, samples 20120330-FD-1 (SB46687-15), DEC-028 (SB46687-11), DEC-028D (SB46687-12), DEC-031TC (SB46687-08): The Reporting Limit has been raised to account for matrix interference.

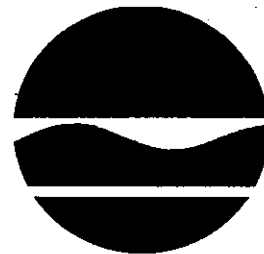
Nitrate/Nitrite as N in batch 1207909, samples DEC-043 (SB46687-16), DEC-043D (SB46687-17): Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

APPENDIX R

NYSDEC DIVISION OF FISH, WILDLIFE & MARINE RESOURCES

NY NATURAL HERITAGE PROGRAM RESPONSE

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Division of Fish, Wildlife & Marine Resources
New York Natural Heritage Program
625 Broadway, 5th Floor, Albany, New York 12233-4757
Phone: (518) 402-8935 • **Fax:** (518) 402-8925
Website: www.dec.ny.gov



Joe Martens
Commissioner

March 21, 2011

William Trembath
URS Corporation
77 Goodell Street
Buffalo, NY 14203

FILE 11176359 (SP-1)
cc. W. Trembath
M. Gutman
A. MONTI
S. McCHABE

Dear Mr. Trembath:

In response to your recent request, we have reviewed the New York Natural Heritage Program database with respect to an Environmental Assessment for the Former Klink Cosmo Cleaners, Project # 1117 6359, site as indicated on the map you provided, located at 364 Richardson Street, Brooklyn, Kings County.

We have no records of rare or state-listed animals or plants, significant natural communities or other significant habitats, on or in the immediate vicinity of your site.

The absence of data does not necessarily mean that rare or state-listed species, natural communities or other significant habitats do not exist on or adjacent to the proposed site. Rather, our files currently do not contain information which indicates their presence. For most sites, comprehensive field surveys have not been conducted. We cannot provide a definitive statement on the presence or absence of all rare or state-listed species or significant natural communities. This information should not be substituted for on-site surveys that may be required for environmental assessment.

Our databases are continually growing as records are added and updated. If this proposed project is still under development one year from now, we recommend that you contact us again so that we may update this response with the most current information.

This response applies only to known occurrences of rare or state-listed animals and plants, significant natural communities and other significant habitats maintained in the Natural Heritage Data bases. Your project may require additional review or permits; for information regarding other permits that may be required under state law for regulated areas or activities (e.g., regulated wetlands), please contact the appropriate NYS DEC Regional Office, Division of Environmental Permits, as listed at www.dec.ny.gov/about/39381.html.

Sincerely,

Tara Salerno *sp*
Tara Salerno, Information Services
New York Natural Heritage Program

Enc.

cc: Region 2

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