FINAL
SITE CHARACTERIZATION REPORT
KENTUCKY AVENUE SITE 1
HORSEHEADS, NEW YORK
SITE NO. 8-08-027

Prepared For:

New York State Department of Environmental Conservation
Albany, New York

Prepared by:

MACTEC Engineering and Consulting, PC
Portland, Maine

MACTEC NO. 3612052036

OCTOBER 2006

This document was prepared for the sole use of New York State Department of Environmental Conservation, the only intended beneficiary of our work. No other party shall rely on the information contained herein without prior written consent of MACTEC Engineering and Consulting, P.C.

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ACRONYMS

ABB-ES	ABB Environmental Services
ASP	Analytical Services Protocol
ASTM	
bgs	below ground surface
DUSR	Data Usability Summary Report
EDR	Environmental Data Resources, Inc.
^{o}F	degrees Fahrenheit
ID	inside diameter
KAW	Kentucky Avenue Wellfield
MACTEC	MACTEC Engineering and Consulting, Inc..
MCL	Maximum Concentration Limit
MITKEM	Mitkem Corp.
msl	mean sea level
NYCRR	New York Codes, Rules, and Regulations
NYS	New York State
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	State of New York Department of Health
NYSDOT	New York State Department of Transportation
ORP	
PCBs	Poly-Chlorinated Biphenols
PCE	tetrachloroethene
PID	photoionization detector
ppm	parts per million
PVC	polyvinyl chloride
QAPP	Quality Assurance Project Plan
Report	Site Characterization Report
SC	Site Characterization
SCG	Standards, Criteria and guidance values
Site	Kentucky Avenue
SVOC	Semi-volatile organic compound

TAGM	Technical and Administrative Guidance Memoranda
TCE	trichloroethylene
TCL	Target Compound List
TIC	Tentatively Identified Compounds
µg/L	micrograms per Liter
USCS	United Soil Classification System
USEPA	United States Environmental Protection Agency
VOC	volatile organic compound
WA	Work Assignment

1.0 INTRODUCTION

MACTEC Engineering and Consulting, PC (MACTEC), is submitting this Site Characterization Report (Report) to the New York State Department of Environmental Conservation (NYSDEC). The Report addresses the Site Characterization (SC) at the Kentucky Avenue, Site 1 (Site) in the town of Horseheads, Chemung County, New York (Figure 1.1). This Report was prepared in response to Work Assignment (WA) No. D0003826-19 dated April 22, 2005 (NYSDEC, 2005), and in accordance with the requirements of the July 1997 Superfund Standby Contract No. D003826 between the NYSDEC and MACTEC.

The Site is listed as Site No. 8-08-027 in the Registry of Hazardous Waste Sites in New York State. It is currently listed as a potential hazardous waste site, or "P" site, by the NYSDEC, because insufficient information existed to determine whether wastes were disposed of at the site and whether, if present, those wastes posed a potential significant threat to public health or the environment (New York State [NYS], 1998.)

The purpose of the SC is to provide information to be used by the NYSDEC to reclassify the site to one of the following categories:

Class 2	Hazardous waste sites presenting a significant threat to public health or the environment; defined by the NYSDEC as sites that had a release(s) resulting in violation of the NYSDEC environmental quality standards and guidelines.
Class 3	Hazardous waste sites not presenting a significant threat to public health or the environment.
Delist	Sites where hazardous waste disposal is not documented.

To complete its reclassification, the NYSDEC requires information to establish the following:

- The existence of documented hazardous waste disposal, as defined in Title 6 of the New York Codes, Rules, and Regulations (NYCRR) Part 371 (NYS, 1999a).
- The site's significance with respect to the threat it poses to public health and the environment as defined in 6 NYCRR Part 375 (NYSDEC, 1998).
- Identification of contaminant source.

MACTEC collected reclassification documentation and is presenting it to the NYSDEC so it can recommend follow up action for the site (i.e., reclassify, delist, or perform additional investigation).

During Task 1, MACTEC conducted a search of state and county site records, and performed a site inspection to develop information necessary for reclassification or delisting. The information collected is presented in Section 2 of this document. Task 1 activities did not develop adequate data on which to base a delist or reclassification recommendation. Therefore, additional field investigations were conducted under Task 2 – Field Investigations.

Section 3 of this Report presents the work conducted during the field investigations. Section 4 presents results of the field investigation. Section 5 presents an investigation summary.

Task 3 is the preparation of this Report. Resources used to prepare this Report include: (1) information provided in the Work Assignment, (2) appropriate guidelines in the NYSDEC Draft DER-10 Guidance (NYSDEC, 2002), (3) results of previous investigations, if applicable, and (4) results of the SC investigation

2.0 SITE BACKGROUND AND PHYSICAL SETTING

On September 9 and 10, 2005, MACTEC personnel reviewed available records from the NYSDEC office in Albany, New York, and visited the City of Horseheads, New York town offices. As part of the review, MACTEC ordered a copy of an Environmental Data Resources, Inc. (EDR) report which provides a listing of federal and state governmental information pertaining to potential and documented environmental impacts, both at the Site and within the ASTM recommended search radii. Complete lists of all recommended ASTM record searches for standard due diligence requirements are included in the EDR report provided under separate cover. This information was reviewed to support a Site classification, and to help prepare the scope of work for the SC field investigations. The information collected from these sources is summarized below.

2.1 SITE LOCATION

The Site is located at 730 West Chemung St. along the north side of West Chemung St. in a mixed residential/commercial area. It is 10.10 acres in size, and contains two primary structures which house offices and maintenance facilities for the New York State Department of Transportation (NYSDOT). Additionally on the site are stockpiles of road salt and sand for winter application. The bulk of the site is paved, providing space for parking employee vehicles and work vehicles.

Roads, businesses, and private residences surround the Site. Several private residences either border or are located near the site (primarily to the west). Other adjacent properties include additional industrial/commercial facilities.

2.2 SITE HISTORY

The Site is located at 730 West Chemung St. in the Township of Horseheads in Chemung County, New York and is owned by the NYSDOT.

History of the Site has been interpreted from Sanborn® Fire Insurance Maps dating back to 1897, City of Elmira Atlases dated 1878, 1896, and 1904, and Chemung County Atlases from 1869 and 1904. Historical information is summarized below.

The Chemung County Atlas from 1869 provides no indication of ownership of the property, but also indicates no buildings at that time. The earliest indication of site ownership and improvements is provided in the 1897 Sanborn® Fire Insurance Map which shows two buildings on the 730 West Chemung St. property. These buildings are listed as Horseheads Bridge Co.'s Bridge Works and Terry Mfg. Co. specializing in Door Hangers and other Specialties. The 1897 Sanborn® Fire Insurance Map also shows a Standard Oil Co. Pumping Station across the street at 803 West Chemung St.. The pumping station is accompanied by multiple small outbuildings which likely house offices and operations facilities related to the pumping station. By 1903, as indicated by the 1903 Sanborn® Fire Insurance Map, the 730 West Chemung St. buildings were operating under new names. The Horseheads Bridge Co. had become Empire Bridge Co. and the other facility was listed as "formerly owned by" Terry Mfg. The 1904 Chemung County Atlas lists Empire Bridge Co., on the northern portion of 730 West Chemung St., but lists the southern portion as owned by E.A. Perkins. The atlas provides no indication of a second building south of the bridgeworks. The 803 West Chemung St. property is still listed as a Standard Oil Co. Pumping station in 1908. There is no information regarding ownership of the property at 730 West Chemung St. between 1908 and 1932 however the 1914 Sanborn® Fire Insurance Map still indicates the property at 803 West Chemung St to be a Standard Oil Co. Pump Station. The New York State apparently purchased the 730 West Chemung Street property between 1903 and 1932. By 1932 (according to the 1932 Sanborn® Fire Insurance Map) the New York State Highway Department occupies the property (two buildings). There appears to be no change in ownership of the property since that time.

2.3 PREVIOUS INVESTIGATIONS

The file review and site visit did not indicate that previous investigations had been conducted on the site property.

Two major well fields located downgradient of the Site are the Kentucky Avenue Well-field and the Sullivan Street Well-field. Chlorinated solvents (specifically TCE) were detected in both well-fields in the 1980's. It is suspected that the source of the TCE groundwater plume is the contaminated soils at the Westinghouse Electric Corporation's manufacturing facility, located up-gradient of the well-fields and the Site. that the TCE contamination reportedly migrated in groundwater out of the southeast corner of the Westinghouse site, hooked to the south upon joining the main valley of Newton Creek, and continued migrating south (NYSDEC, 2005).

Numerous remedial activities have been conducted at the Westinghouse site, including the removal of 179 buried drums and 1,300 tons of hazardous soils (NYSDEC, 2005). MACTEC reviewed a copy of the "2005 Annual Report, Long Term Groundwater Monitoring, Operable Unit 2, Kentucky Avenue Well Field Site, Horseheads, NY (Cummings, Riter Inc., 2006). This groundwater monitoring program is being implemented by Viacom Inc. formerly known as Westinghouse Electric Corporation, pursuant to the requirements of an Administrative Order for Remedial Action issued by the USEPA in June 1991. The groundwater monitoring program is designed to assess the effectiveness of the barrier well groundwater recovery and treatment system installed on the Westinghouse property as part of OU-2. This system is designed to remove trichloroethene and other volatile organic compounds from the affected area of the Newtown Creek aquifer, down-gradient of the former Westinghouse plant site and up-gradient of the Kentucky Avenue Wellfield property. There are three groundwater monitoring wells sampled annually that are in close proximity to the Kentucky Avenue site; MW-100S, MW-100D (both located 100 ft. northwest of the Site), and MW-113D (located 400 ft. west of the Site). The July 2005 sample results for the wells were 3J µg/L, 9 µg/L and 32 µg/L, respectively; two of which exceeded the NYS Class GA groundwater standard for TCE of 5 µg/L. Findings indicated that groundwater recovery system is functioning as designed, capturing groundwater in the Newton Creek aquifer at the down-gradient edge of the former Westinghouse facility.

2.4 PHYSICAL SETTING

Topography

The Site is located immediately south of the State Highway 17 in Horseheads, New York at approximately 900 feet above mean sea level (msl). The City of Horseheads is situated in a relatively flat flood plain formed by the Newtown Creek to the east. The flood plain is bordered on the west and east by sharp ridges, apparently formed by the down cutting of Newtown Creek.

The topography at the site slopes generally to the southeast toward the surface water body known as Kopper's Pond.

The topography is relatively flat for approximately one mile to the east of the Site, before rising sharply up a ridge to an elevations over 1600 feet above msl. The topography is also relatively flat to the west of the Site before similarly rising up a ridge to over 1600 feet above msl..

Climate

The climate of the area is characterized by moderately warm summers and cold winters. Mean monthly temperatures range from 24 degrees Fahrenheit (°F) in January to 70°F in July. Average annual precipitation is 34 inches. Average annual snowfall is 43 inches (National Climatic Data Center, 1999).

Surface Water Hydrology

The Site is mostly paved and surface water most likely flows to storm water drainages situated at the site.

Groundwater Hydrology

Groundwater at the site is interpreted to flow to the south and this was also verified by the 2005 Kentucky Avenue Wellfield groundwater monitoring report. Based on regional groundwater flow and topography, the Chemung River and, to a lesser extent Newtown Creek, are presumed local groundwater discharge areas. Groundwater was encountered between 11 and 22 feet below ground surface (bgs) beneath the Site.

Geology

Overburden soils at the site are greater than 35 feet thick according to data collected by MACTEC. Drilling at the site indicated that soils consisted primarily of light brown sands, silts, and gravels. Overburden is mapped as sand, silt, and gravel associated with a glacial outwash depositional environment (Muller et al., 1986). Based on regional geologic mapping (Rickard and Fisher, 1970) bedrock is expected to consist of shale and siltstones associated with the Upper Devonian West Falls Group. Specifically, the Beers Hill Shale; Grimes Siltstone; Dunn Hill, Millport, and Moreland Shales (Rickard and Fisher, 1970).

Site Walkover

On June 13, 2005 MACTEC personnel (Dave Bufo) conducted a site visit at the subject location. The site walkover consisted of viewing the Site to assess possible contamination sources and the logistical concerns for the field program. Prior to the MACTEC site visit, NYSDEC representative Jeff McCullough visited the Site and was provided a tour by operations personnel. Information from Mr. McCullough's visit was communicated to MACTEC and was included in the Work Plan where pertinent.

No obvious sources of contamination were observed (i.e., leaking down), however, potential sources of contamination were observed including sweepings piles, scrap piles, parking areas, and maintenance shops. MACTEC gathered additional information for the purpose of identifying potential sources during the field investigation. Photographs of the site are included in Appendix A.

2.5 FILE REVIEW

On June 24, 2005 MACTEC personnel visited the City of Horseheads municipal offices (including Code Enforcement, Fire Department, Public Works/Engineering and Tax Assessment Office) and the Elmira Public Library. Information pertaining to the history of Site operations and past releases of contamination was reviewed to help prepare the Work Plan for the field investigation. In addition, MACTEC reviewed the EDR report. The information collected, as well as information provided in the WA, is included in various sections of this Report.

2.6 SUMMARY OF DATA RECORDS SEARCH AND ASSESSMENT FINDINGS

Data records searches (conducted through the EDR) for the site indicated numerous minor spills consisting predominantly of fuel, fuel oil, and petroleum based liquids typically used at maintenance and operations facilities. The site is noted as generating hazardous wastes; however no spills or releases of such materials were noted.

Under federal and state regulations a solid waste may be regulated as a hazardous waste if it is a material included in one of the USEPA or the NYSDEC's lists of hazardous wastes. If a material is regulated because of its inclusion on a federal or state list, it is commonly referred to as a "listed

hazardous waste." A waste may also be regulated under the Resource Conservation and Recovery Act as a "characteristic hazardous waste" if it exhibits one of the characteristics of toxicity, corrosivity, reactivity, or flammability.

Results of sampling and analysis of the Kentucky Avenue and Sullivan Street Supply Wells indicated the presence of chlorinated solvents (TCE) in groundwater. Spent chlorinated solvents not originating from a household sources, including TCE are included on both the USEPA's and the NYSDEC's lists of hazardous wastes. Under 6 NYCRR Part 371.4(a)(1), these spent solvents constitute hazardous waste from non-specified sources. Disposal of these chlorinated solvents has been confirmed by available analytical results from the supply wells, but it is not known if the Site is a contributing source of contamination.

As defined by 6 New York Codes, Rules, and Regulations (NYCRR) Part 375, significant threat can be established by documenting a contravention of environmental standards. Surface water and groundwater are the only media for which New York State (NYS) has promulgated standards. Under NYS Water Quality Regulations (6 NYCRR Parts 70-705) the state has set numeric standards that are the maximum concentration of compounds in groundwater and surface water that protect public health and/or the environment.

Information collected during the file review and site visit was not sufficient to determine if hazardous wastes were disposed of at the site, or if the site poses a significant threat to human health or the environment.

Analytical data had not been collected from the Site and therefore it was not known if the Site was a contributing source of the TCE contamination or if the Site posed a significant threat from other hazardous wastes. As a result, Task 2, the SC Field Investigation, was conducted to:

- collect the data necessary to verify the likelihood of uncontrolled waste disposal,
- determine if potential contamination is present on the Site and is migrating offsite, and
- provide sufficient information to allow the NYSDEC to re-classify the site.

3.0 SCOPE OF WORK

To classify the Site, the NYSDEC requires data documenting hazardous waste disposal as set forth in 6 NYCRR Part 371, and the potential significant threat to human health and the environment as defined in 6 NYCRR Part 375. Because data necessary to determine if hazardous wastes were disposed of on-site was not available in state and county files reviewed during Task 1, and because historic analytical data had not been collected from the Site, the field investigation described below was performed. Task 2 activities include the field investigation. The objective of Task 2 activities was to determine whether there is a contravention of applicable standards, criteria and guidance values (SCGs) for Volatile Organic Compounds (VOCs), Semi-volatile Organic Compounds (SVOCs) Pesticides or Poly Chlorinated Biphenols (PCBs) and in Site soils and/or groundwater. In particular, based on a review of historical documentation and current site activities, the sampling and analysis program was developed to address potential for fuel related compounds, lubricants, waste oils/PCBs, and chlorinated solvents. Because insufficient information exists regarding other potential site contaminants, additional analytes included pesticides and metals. Task 3 was the preparation and distribution of this Report.

TASK 2 - FIELD INVESTIGATIONS

Field investigations included:

1) Soil sampling and monitoring well installation
2) Round 1 groundwater sampling
3) Round 2 groundwater sampling

The subsurface soil borings, groundwater monitoring well installation, and subsurface soil sample collection activities were conducted from November 13, 2005 to November 17, 2005.

Groundwater sampling events were conducted during the period from December 7, 2005 to December 9, 2005 and again on March 3, 2006. A Site land survey was completed by LU Engineers on February 1st, 2006.

The following subsections describe the activities conducted during the field investigation portion of the Site SC. The work generally followed the scope of work as outlined in the SC Work Plan (MACTEC, 2005), with the exception that one additional well was installed at the Site. The field investigation was conducted in accordance with the specifications presented in the Quality Assurance Program Plan (QAPP) (ABB-ES, 1995) and the site specific Quality Assurance Project Plan. Laboratory analyses was performed by Mitkem Corporation (Mitkem), a New York State Department of Health (NYSDOH) approved laboratory. Laboratory analysis complied with the NYSDEC Analytical Services Protocols (ASP) (NYSDEC, 2000).

3.1 General Field Activities

General field activities, including mobilization, health and safety, and decontamination, are described in the following subsections.

3.1.1 Mobilization

After receiving the NYSDEC authorization to begin fieldwork, MACTEC and its subcontractors conducted utility clearance, mobilized to the Site and began the field exploration program. On November 2, 2005, the MACTEC site lead, David Bufo, visited the Site and met with representatives from the NYSDOT to discuss well locations. Well locations were agreed upon and marked at that time.

On November 13th 2005 a field team orientation meeting was held on-site with MACTEC personnel to familiarize field workers with site history, health and safety requirements, equipment calibration procedures, and other field procedures.

3.1.2 Health and Safety

Field investigation activities were conducted at Level D personal protection. Based on photo ionization detection (PID) readings, no upgrades of personal protection were warranted.

3.1.3 Decontamination

Sampling methods and equipment for this field program were chosen to minimize investigation derived waste and minimize possibility of cross contamination. Disposable sampling equipment was used as much as practical to minimize decontamination time and water disposal.

Non disposable sampling equipment was decontaminated by 1) scrubbing the sample collection equipment with potable water and Liquinox, rinsing with potable water, rinsing with de-ionized water, and then allowing the equipment to air dry, or 2) steam cleaning the equipment and then allowing the equipment to air dry. Decontamination fluids did not exhibit visual or olfactory evidence of contamination and were released to the ground surface in the area of the exploration, so as to allow the liquids to infiltrate into the soil.

3.1.4 Investigation Derived Wastes

The field investigation did not result in the generation of wastes that were considered hazardous (i.e., no visual or olfactory signs of contamination, and no PID readings above 5 parts per million (ppm) were detected). Therefore drill cuttings and purge water resulting from the investigation were placed on the ground surface in the area of exploration, or used as backfill for the borings, and personal protective equipment and disposable sampling equipment were double bagged and disposed of as non-hazardous refuse.

3.2 Soil Borings and Sampling

Field investigation activities included the completion of seven soil borings, the collection and analysis of soil and groundwater samples. The purpose of the activities was to provide groundwater data for comparison to NYS Class GA Groundwater Quality Standards set forth under 6 NYCRR Parts 700-705 (NYS, 1999b), and to assist the NYSDEC in evaluating significant threat to public health and the environment as defined by 6 NYCRR Part 375 (NYS, 1998). Soil sample analyses were used to assess whether hazardous waste constituents were present in site soils, and, if possible, confirm a source of contamination.

Boring locations are shown on Figure 3.1. Locations were chosen to determine soil and groundwater conditions across the Site including up gradient and down gradient portions to assess variations in potential soil and groundwater contamination potentially resulting from site activity.

Seven soil borings (BS-1 through BS-7) were completed during the period from November 14, 2005 through November 17, 2005. Soil samples were collected using 2-inch split-spoon sampler driven ahead of four and a quarter-inch hollow stem auger. Soil samples were collected continuously from the ground surface to approximately 10 to 15 feet below the water table. PID headspace readings were used to screen soil samples for the presence of VOCs upon opening the split-spoon sampler. Samples were described using the Unified Soil Classification System (USCS). Sample description and classification, VOC headspace reading, and boring observations were recorded on the Test Boring Logs, presented in Appendix B. Based on the PID readings and physical evidence of contamination such as color and odor, seven soil samples were submitted to the off-site analytical laboratory for analysis. Samples exhibiting the highest PID readings and physical evidence of contamination were selected for analysis. Soil samples were shipped to Mitkem for analyses of target compound list (TCL) VOCs, SVOCs, TAL metals, and Pesticides/PCBs at using USEPA OLM04.2_VOA, OLM04.2_SVOA, OLM4.2_PP and ILM04.1_ICP methods as described in the NYSDEC ASP of June 2000. Laboratory analysis included Category B deliverables.

3.3 Overburden Well Installation. All seven (7) of the soil borings were converted to overburden monitoring wells. The monitoring wells were installed after the soil was classified and pertinent soil samples were collected from the borings. The monitoring wells were constructed of 2-inch inside diameter schedule 40 polyvinyl chloride (PVC) riser with 10-foot PVC well screens. Well screens have 0.010-inch wide machine slots with #0 sand pack to 3 feet above the screen, a two foot bentonite seal above the sand pack and a cement/bentonite grout backfill to the ground surface. The wells were completed with a locking cap and a six inch flush mount cover.

Each newly installed monitoring well was developed using the procedures for well development presented in Subsection 4.4.3 of the QAPP (ABB-Environmental Services, 1995.) Development was completed by Geologic, NY on November 18, 2005. Development records are included in Appendix B.

3.4 Groundwater Sampling. The first round of groundwater samples was collected for laboratory analysis during the period from December 7, 2005 to December 9, 2005. All new monitoring wells were sampled using low-flow sampling procedures as described in the QAPP, located in Appendix A. Samples were collected from the presumed least contaminated to the most contaminated locations as determined from the hydrogeology and known Site conditions. Field measurements for pH, temperature, specific conductivity, ORP, dissolved oxygen, and turbidity were collected from each well during pre-sampling purging. Prior to sampling, a full round of groundwater levels were recorded. Sampling data records are included in Appendix B.

The second round of groundwater sampling occurred during the period from March 28, 2005 to March 29, 2006. Similar to the first round groundwater sampling, monitoring wells were sampled using low-flow sampling procedures. Field measurements for pH, temperature, specific conductivity, ORP, dissolved oxygen, and turbidity were collected from each well during pre-sampling purging. Sampling data records are included in Appendix B.

3.5 Site Survey

On February 1, 2006, MACTEC's survey subcontractor (Lu Engineers) surveyed the Site and new monitoring wells. Monitoring well locations were added to the base map. Vertical elevation accuracy was 0.01 foot and horizontal accuracy was 0.1 foot. Horizontal positions were tied into the NYS Plane Coordinate System using North American Datum of 1983. Vertical elevations were tied to msl, North American Vertical Datum 1988. Surveyed items included:

- Horizontal locations of seven new monitoring wells and;
- Vertical elevations of seven new monitoring wells, including top of the riser, top of the protective casing, and the ground surface.
- Location of buildings, landmarks and site boundaries.

4.0 DATA ASSESSMENT

This section presents results of the site investigation activities and laboratory analyses for soil, groundwater, and air samples collected during Task 2, as well as results of the water level survey.

4.1 FIELD OBSERVATIONS/RESULTS

Soils at the site varied from fill material consisting of concrete/pavement fragments, combined with silty sands and gravels near the surface to fine grained silts and sands beneath the fill. Fill thicknesses were greater in the northwest portion of the site (BS-001) down to 18-20 feet and lessened toward the southeast (BS-006, BS-007) down to 10-12 feet.

Ground water depth measurements were collected on December 7, 2005 and between March 28 and 29, 2006. Well survey and water elevation data are presented in Tables 4.1 and 4.2. .

Depth to water across the Site varied from 10.84 ft bgs to 22.95 ft bgs resulting in groundwater elevations across the site ranging from 888.34 to 889.66 ft. Potentiometric surface maps are presented in Figures 4.1 and 4.2.

4.2 ANALYTICAL RESULTS

Soil and groundwater analytical results were compared to appropriate standards or guidelines. Reported concentrations of individual analytes indicating contravention of standards or guidelines are summarized in the following sections, and noted in Tables 4.3 through 4.5.

A Data Usability Summary Report (DUSR) was completed in accordance with the NYSDEC's Guidance for the Development of Data Usability Summary Reports (NYSDEC, 1997). This report and complete analytical results including tentatively identified compounds (TIC) are presented in Appendix D. TICs were not evaluated as part of the DUSR.

Based on laboratory or data usability review, some of the data was qualified with a J, B, R and/or an D. Compounds were qualified J if the concentration listed was an estimated value, which was

less than the specified minimum reporting limit but greater than the instrument detection limit. Compounds qualified J were analyzed for and determined to be present in the sample, and the mass spectrum of the compound met the identification criteria of the method. The reporting limits for most target VOCs using the OLM04.2 Methods, including the target chlorinated solvents compounds were 10 µg/L. This is above most of the NYS Class GA groundwater standards; however, the actual instrument detection limit was below the NYS Class GA groundwater standards.

Compounds qualified B indicate that the compound was found in the trip blank, or laboratory blank, and in the sample. It indicates possible sample contamination and warns the data user to use caution when applying the results of this analyte.

Compounds qualified D indicate that the compound was reported from an analytical run that required a dilution due to concentrations greater than the highest calibration standard.

Compounds qualified R indicate that the result was rejected during data validation. Data was deemed unusable due to gross deviations from validation criteria.

Analytical results were compared to the standards or guidelines described below.

Soil Samples. Analytical results were compared to the Recommended Soil Cleanup Objectives in the NYSDEC Technical and Administrative Guidance Memorandum (TAGM) No. 94-4046 (NYSDEC, 1994).

Groundwater Samples. Analytical results were compared to: (1) the NYS Class GA Groundwater Quality Standards from 6 NYCRR Parts 700-706 (NYS, 1999b) or, where applicable, (2) the NYS Class GA Groundwater Quality Guidance Values from the Division of Water Technical and Operational Guidance Series 1.1.1 “Ambient Water Quality Standards and Guidance Values” (NYSDEC, 1998).

4.2.1 Soil Sample Results

A summary of target VOCs, SVOCs, Pesticides and Metals detected in soil samples are presented in Table 4.3.

VOCs

Chlorinated solvents were not detected in soil samples and VOCs were not detected at concentrations above the NYSDEC Soil Cleanup Objectives.

SVOCs

One SVOC, Benzo(a)pyrene was detected in soil borings BS-002 and BS-007 at 0.1(J) and 0.72(J) mg/kg respectively, exceeding the TAGM level of 0.061 mg/kg.

Metals

Aluminum, arsenic, beryllium, calcium, copper, iron, magnesium, manganese, nickel, potassium, thallium, and zinc exceeded their TAGM levels in soil samples from borings BS-001, BS-002, BS-003, BS-004, BS-005, and BS-007. No soil samples were taken from BS-006 due to cobbles stuck in sleeve. The following summarizes these results;

- Aluminum exceedances ranged from 6,400 mg/kg to 8,730 mg/kg exceeding the TAGM concentration of 4,800 mg/kg.
- Arsenic exceeded the TAGM of 7.5 mg/kg at BS-007 with a concentration of 8.8 mg/kg.
- Beryllium detections ranged from 0.19 mg/kg to 0.48 mg/kg exceeding the TAGM concentration of 0.16 mg/kg.
- Calcium detections ranged from 28,200 mg/kg to 95,000 mg/kg exceeding the TAGM concentration of 100 mg/kg.
- Copper detections ranged from 26.9 mg/kg to 43.3 mg/kg exceeding the TAGM concentration of 25 mg/kg.
- Iron detections ranged from 14,700 mg/kg to 22,900 mg/kg exceeding the TAGM concentration of 2,000 mg/kg.
- Magnesium detections ranged from 7,160 mg/kg to 18,500 mg/kg exceeding the TAGM concentration of 600 mg/kg.

- Manganese detections ranged from 412 mg/kg to 594 mg/kg exceeding the TAGM concentration of 50mg/kg.
- Nickel detections ranged from 17.6 mg/kg to 24.3 mg/kg exceeding the TAGM concentration of 13 mg/kg.
- Potassium detections ranged from 578 mg/kg to 727 mg/kg exceeding the TAGM concentration of 400 mg/kg.
- Thallium detections ranged from 0.78 mg/kg to 2.8 mg/kg exceeding the TAGM concentration of 0.1 mg/kg.
- Zinc detections ranged from 72.1 mg/kg to 106 mg/kg exceeding the TAGM concentration of 20 mg/kg.

Pesticides/PCBs

One Pesticide was detected in one soil sample from the Site. Endrin Ketone was detected in soil from BS-007 at 0.0023 mg/kg and there is no TAGM level for this compound. No PCBs were detected in any of the soil samples.

4.2.2 Groundwater Sample Results

This subsection presents analytical results for VOCs, SVOCs, TAL Metals, and Pesticides/PCBs for the groundwater samples collected during the December 2005 and March 2006 events. Table 4.4 shows a summary of target compounds detected in the groundwater samples from the December 2005 sampling event. Table 4.5 shows a summary of target compounds detected in the groundwater samples from the March 2006 sampling event.

VOCs

During the December 2005 sampling event the only VOC detected in exceedance of the NYS Class GA groundwater standard was trichloroethene (TCE) in a groundwater sample from MW-05. TCE was detected at 8 (J) µg/l which exceeds the NY State GA Standard of 5 µg/l.

During the March 2006 sampling event the only VOC detected in exceedance of the NYS Class GA groundwater standard was also TCE. TCE was detected in groundwater from MW-006 at 6(J) µg/l. Trichloroethene was also detected at 6(J) µg/l in the duplicate sample collected from MW-006.

SVOCs

During the December 2005 and March 2006 sampling events SVOCs were not detected at concentrations in groundwater that exceed the NYS standards or guidance values. During the March 2006 sampling event the only SVOC detected was Bis(2-ethylhexyl)phthalate (a common laboratory contaminant). Bis (2-ethylhexyl)phthalate was detected in groundwater from MW-007 at 1 (J) µg/l.

Metals

During the December 2005 sampling event the only TAL Metal found at concentrations exceeding NYS Class GA standard was Sodium. Sodium concentrations exceeded the standard of 20,000 µg/l at all locations and detected concentrations ranged from 138,000 µg/l to 246,000 µg/l.

During the March 2006 sampling event Iron, Manganese, and Sodium were found to exceed NYS Class GA Standards. Sodium concentrations exceeded the standard of 20,000 µg/l at all locations. Detected Sodium concentrations ranged from 133,000 µg/l to 286,000 µg/l. Iron exceeded the standard of 300 µg/l at MW-001 and MW-005 with detected concentrations of 393 (J) µg/l and 1010 (J) µg/l respectively. Manganese exceeded the standard of 300 µg/l at MW-005 with a detected concentration of 321 µg/l.

Pesticides/PCBs.

Pesticides and PCBs were not detected at concentrations that exceeded applicable standards or guidance values in either of the two groundwater sampling events

5.0 INVESTIGATION FINDINGS

A review of physical and chemical data collected during the SC resulted in the following findings:

1) The site is located in a mixed industrial/residential neighborhood that is serviced by public water.

2) Groundwater flow is interpreted to flow to the south.

3) TCE was not detected in soil samples collected at the Site property. The following metals did exceed TAGM 4045 soil cleanup objectives to protect groundwater in the soil samples collected; Aluminum, arsenic, beryllium, calcium, copper, iron, magnesium, manganese, nickel, potassium, thallium, and zinc

4) TCE was detected at low concentrations in groundwater samples collected from all seven wells at the site and exceeded the NYS Class GA groundwater standards in two wells MW-005 at 6(J) µg/L and MW-006 at 8(J) µg/L compared to the standard to 5 µg/L. This is consistent with the reported information that low concentrations of VOCs, specifically, TCE have been detected in area ground water, and are attributed to activities at the Westinghouse site, located up-gradient of the site. Based on the Kentucky Avenue Wellfield Groundwater Monitoring Report from 2005, TCE groundwater concentrations were higher up-gradient of the Site (max of 32 µg/L) towards the former Westinghouse property, and lower down-gradient of the Kentucky Avenue site.

5) The following metals exceeded their criteria in groundwater samples collected; sodium, iron and manganese.

6) Based on these results, the Site does not appear to be a source of chlorinated solvents because chlorinated solvents detected in the monitoring wells do not appear to be originating from the Site. Elevated concentrations of iron and manganese in soils could be impacting groundwater beneath the site.

6.0 REFERENCES

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TABLES

TABLE 4.1: GROUNDWATER WELL SURVEY AND WATER ELEVATION DATA
Dec-05

Well	Riser Elevation	Depth to Water	Water Elevation
MW-01	912.61	22.45	890.16
MW-02	909.75	20.13	889.62
MW-03	903.08	14.14	888.94
MW-04	902.28	13.96	888.32
MW-05	899.18	10.84	888.34
MW-06	899.25	11.6	887.65
MW-07	900.91	13.02	887.89

Created by: JMI 7/25/06
Checked by: CRS 7/28/06

Notes:
1. Depth to water measured from top of well riser 12/07/05.
2. Elevations in feet above mean sea level-NYS Plane Coordinates, NAVD 1988.
3. Depth to water = feet below top of riser.

TABLE 4.2: GROUNDWATER WELL SURVEY AND WATER ELEVATION DATA

Mar-06

Well	Riser Elevation	Depth to Water	Water Elevation
MW-01	912.61	22.95	889.66
MW-02	909.75	20.58	889.17
MW-03	903.08	14.55	888.53
MW-04	902.28	14.38	887.90
MW-05	899.18	11.31	887.87
MW-06	899.25	11.97	887.28
MW-07	900.91	13.36	887.55

Created by: JMI 7/25/06
Checked by: CRS 7/28/06

Notes:
1. Depth to water measured from top of well riser 3/28/06.
2. Elevations in feet abov mean sea level-NYS Plan Coordinates, NAVD 1988.
3. Depth to water = feet below top of riser.

Table 4.3: Soil Sampling Results

	Location Name		BS-001		BS-002		BS-003		BS-004		BS-005		BS-005		BS-005		BS-007	
	Field Sample Id		STBS00101601XX		STBS00201801XX		STBS00301601XX		STBS00406001XX		STBS00501701XX		STBS00508001XD		STBS00508001XX		STBS00701001XX	
	Sample Depth		16-18 ft		18-20 ft		16-18 ft		6-8 ft		17-19 ft		8-10 ft		8-10 ft		10-12 ft	
	Field Sample Date		11/15/2005		11/16/2005		11/16/2005		11/15/2005		11/15/2005		11/15/2005		11/15/2005		11/14/2005	
	QC Code		FS		FS		FS		FS		FS		FD		FS		FS	
Parameter	**TAGM**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Volatile Organic Compounds																		
Acetone	0.2	MG/KG	-		0.018		-		0.036	J	-		-		0.022	J	-	
Benzene	0.06	MG/KG	0.003	J	0.003	J	-		0.003	J	-		0.003	J	0.003	J	-	
Chloroform	0.3	MG/KG	-		-		-		-		-		-		0.001	J	-	
Cyclohexane		MG/KG	-		0.01	J	0.006	J	0.01	J	1.8	D	0.011		-		-	
Methyl cyclohexane		MG/KG	0.015		0.014		0.008	J	0.016		3.8	D	0.018		0.016		-	
Methylene chloride	0.1	MG/KG	-		0.011		0.009		-		-		-		-		-	
Toluene	1.5	MG/KG	0.009	J	0.004	J	0.003	J	0.008	J	-		0.01	J	0.011		-	
Xylenes, Total	1.2	MG/KG	0.004	J	0.001	J	-		0.004	J	-		0.005	J	0.007	J	-	
Semi-Volatile Organic Compounds																		
Benzo[a]anthracene	0.224	MG/KG	-		0.096	J	-		-		-		-		-		0.059	J
Benzo[a]pyrene	0.061	MG/KG	-		**0.1**	**J**	-		-		-		-		-		**0.072**	**J**
Benzo[b]fluoranthene	0.224	MG/KG	-		0.14	J	-		-		-		-		-		0.12	J
Benzo[k]fluoranthene	0.224	MG/KG	-		0.065	J	-		-		-		-		-		-	
Bis(2-Ethylhexyl)phthalate	50	MG/KG	0.096	J	0.057	J	0.16	J	0.05	J	0.11	J	0.044	J	0.054	J	0.059	J
Chrysene	0.4	MG/KG	-		0.1	J	-		-		-		-		-		0.15	J
Fluoranthene	50	MG/KG	-		0.2	J	-		-		-		-		-		0.12	J
Indeno[1,2,3-cd]pyrene	3.2	MG/KG	-		-		-		-		-		-		-		0.036	J
Phenanthrene	50	MG/KG	-		0.092	J	-		-		0.046	J	-		-		0.1	J
Pyrene	50	MG/KG	-		0.15	J	-		-		-		-		-		0.12	J
Pesticides																		
Endrin ketone		MG/KG	-		-		-		-				-		-		0.0023	J
TAL Metals																		
Aluminum	4,800	MG/KG	**8730**		**7710**		**6800**		**6400**		NA		**8430**	**J**	**6640**	**J**	**7720**	
Arsenic	7.5	MG/KG	2.8		5.4		2.7		3.1		NA		4.6		3		**8.8**	
Barium	300	MG/KG	54.3		52.4		53.6		27.7	B	NA		48.5		36.6	B	90.3	
Beryllium	0.16	MG/KG	**0.21**	**B**	**0.25**	**B**	**0.19**	**B**	**0.19**	**B**	NA		**0.3**	**B**	**0.21**	**B**	**0.48**	**B**
Cadmium	10	MG/KG	-		-		-		0.077	B	NA		0.11	B	0.22	B	0.15	B
Calcium	100	MG/KG	**42600**		**70700**		**59800**				NA		**45300**	**J**	**95000**	**J**	**28200**	
Chromium	50	MG/KG	13.3	E	12	E	13.2	E	10.8	E	NA		18	E	14	E	13.9	E
Cobalt	30	MG/KG	8	J	8.4	J	6.3	J	6.2	J	NA		8.2	J	5.9	J	9	J
Copper	25	MG/KG	**29.9**	**J**		R		R	**26.9**	**J**	NA		**30.2**	**J**	23.8	J	**43.3**	**J**
Iron	2,000	MG/KG	**19900**	**J**	**19200**	**J**	**16500**	**J**	**15000**	**J**	NA		**19300**	**J**	**14700**	**J**	**22900**	**J**
Lead	400	MG/KG	10.6	J		R		R	9.5	J	NA		11.1	J	9.3	J	43.7	J
Magnesium	600	MG/KG	**12100**	*	**18500**	*	**9200**	*	**11200**	*	NA		**8700**	*	**14200**	*	**7160**	*

Table 4.3: Soil Sampling Results

	Location Name		BS-001		BS-002		BS-003		BS-004		BS-005		BS-005		BS-005		BS-007	
	Field Sample Id		STBS00101601XX		STBS00201801XX		STBS00301601XX		STBS00406001XX		STBS00501701XX		STBS00508001XD		STBS00508001XX		STBS00701001XX	
	Sample Depth		16-18 ft		18-20 ft		16-18 ft		6-8 ft		17-19 ft		8-10 ft		8-10 ft		10-12 ft	
	Field Sample Date		11/15/2005		11/16/2005		11/16/2005		11/15/2005		11/15/2005		11/15/2005		11/15/2005		11/14/2005	
	QC Code		FS		FS		FS		FS		FS		FD		FS		FS	
Parameter	**TAGM**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Manganese	50	MG/KG	**452**		**508**		**532**		**445**		NA		**502**		**412**		**594**	
Nickel	13	MG/KG	**20.5**	**J**	**21.9**	**J**	**17.6**	**J**	**21.4**	**E**	NA		**24.3**	**J**	**17.6**	**J**	**21.3**	**J**
Potassium	400	MG/KG	**657**	**B**	**727**	**B**	**623**	**B**	**578**	**B**	NA		**682**	**B**	**667**	**B**	**688**	**B**
Sodium	750	MG/KG	105	B		R		R	126	B	NA		105	B	131	B	488	B
Thallium	0.1	MG/KG	**2**		**2**	**B**	**1.9**		**0.99**	**B**	NA		**2**		**0.78**	**B**	**2.8**	
Vanadium	150	MG/KG	12.3		12.4		10.1		11		NA		14		11.3		17	
Zinc	20	MG/KG	**72.1**	**J**		R		R	**69.4**	**J**	NA		**106**	**J**	**83.8**	**J**	**86.7**	**J**

Notes:

Created by: JMI 7/25/06
Checked by: CRS 7/28/06

Results in milligrams per killogram (mg/kg)
Only detected compounds shown.
QC Code:
FS = Field Sample
FD = Field Duplicate
Qualifers:
U = Not detected at a concentration greater than the reporting limit
J = Result is estimated
B = The reported result fell above the IDL but below the CRDL
E= The percent difference between the parent sample and its serial dilution's concentration exceeds 10%.
R= Sample was rejected.
NA= Not Alanyzed
Criteria = Values from Technical and Operational Guidance Series (TOGS) 1.1.1, "Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" (NYSDEC, 1998).
* = New York State GA Standard
Results in **BOLD** exceed associated criteria
Methods:
Volatile Organic Compounds analyzed with OLM4.2_VOA
Sem-Volatile Organic Compouds analyzed with OLM4.2_SVOA
Inorganic Compounds analyzed with OLM4.2_PP
TAL Metals analyzed with ILM4.1_ICP

Table 4.4: Groundwater Sampling Results
12/05

Location Name		MW-001		MW-002		MW-003		MW-004		MW-005		MW-006		MW-007		MW-007	
Field Sample Id		STMW001XXX01XX		STMW002XXX01XX		STMW003XXX01XX		STMW004XXX01XX		STMW005XXX01XX		STMW006XXX01XX		STMW007XXX01DU		STMW007XXX01XX	
Field Sample Date		12/8/2005		12/9/2005		12/9/2005		12/8/2005		12/8/2005		12/7/2005		12/7/2005		12/7/2005	
Qc Code		FS		FS		FS		FS		FS		FS		FD		FS	
Parameter	**Criteria**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
Volatile Organic Compounds																	
Methyl cyclohexane	NA	10	U	10	U	10	U	10	U	5	J	10	U	10	U	10	U
Trichloroethene	5*	4	J	4	J	2	J	4	J	**8**	**J**	5	J	10	U	10	U
Semivolatile Organic Compounds																	
All analytes non-detect	NA																
Inorganics																	
All analytes non-detect	NA																
TAL Metals																	
Antimony	3*	60	U	60	U	60	U	60	U	2.4	B	60	U	60	U	60	U
Barium	1000*	147	B	166	B	154	B	196	B	230		221		159	B	160	B
Calcium	NA	89600		95500		89300		124000		120000		126000		95600		93200	
Chromium	50*	0.79	B	0.66	B	0.64	B	0.71	B	0.64	B	0.55	B	0.85	B	0.91	B
Cobalt	NA	1.1	B	0.68	B	0.58	B	0.7	B	0.65	B	0.83	B	0.8	B	0.99	B
Copper	200*	1.8	B	25	U	25	U	2.2	B	3.6	B	6.7	B	6.5	B	19.2	B
Iron	300*	26.8	B	20.4	B	19.6	B	15.4	B	88.3	B	19.5	B	21.3	B	40.4	B
Magnesium	35000	18600		20200		18700		24900		24500		25500		19900		19300	
Manganese	300*	95.8		6.7	B	4.2	B	69.1		125		89.3		40.4		46.4	
Nickel	100*	2	B	1.5	B	1.7	B	2.3	B	2.3	B	2.4	B	2	B	2.3	B
Potassium	NA	2090	B	1790	B	1870	B	2080	B	2470	B	2190	B	1970	B	2000	B
Silver	50*	0.61	B	0.59	B	10	U	10	U	0.64	B	0.81	B	10	U	0.98	B
Sodium	20000*	**154000**		**141000**		**138000**		**192000**		**140000**		**246000**		**163000**		**164000**	
Zinc	2000	5.2	B	5.2	B	3.7	B	7.7	B	15.8	B	14.6	B	6.7	B	23.7	

Created by: AZ 6/27/06
Checked by: CRS 7/28/06

Notes:

Results in microgram per liter (µg/L)

Only detected compounds shown.

QC Code:

FS = Field Sample

FD = Field Duplicate

Qualifers:

U = Not detected at a concentration greater than the reporting limit

J = Result is estimated

B = The reported result fell above the IDL but below the CRDL

Criteria = Values from Technical and Operational Guidance Series (TOGS) 1.1.1, "Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" (NYSDEC, 1998).

* = New York State GA Standard

Results in **BOLD** exceed associated criteria

Methods:

Volatile Organic Compounds analyzed with OLM4.2_VOA

Sem-Volatile Organic Compouds analyzed with OLM4.2_SVOA

Inorganic Compounds analyzed with OLM4.2_PP

TAL Metals analyzed with ILM4.1_ICP

Table 4.5: Groundwater Sampling Results
03/06

Location Name		MW-001		MW-002		MW-003		MW-004		MW-005		MW-006		MW-006		MW-007	
Field Sample Id		STMW00102502XX		STMW00202502XX		STMW00302002XX		STMW00402002XX		STMW00501502XX		STMW00602002XD		STMW00602002XX		STMW00701802XX	
Field Sample Date		3/28/2006		3/28/2006		3/28/2006		3/29/2006		3/29/2006		3/28/2006		3/28/2006		3/29/2006	
Lab Sample Id		E0379-04A		E0379-05A		E0379-06A		E0379-07A		E0379-09A		E0379-02A		E0379-01A		E0379-08B	
Qc Code		FS		FS		FS		FS		FS		FD		FS		FS	
Criteria		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Volatile Organic Compounds																	
Cyclohexane	NA	10	U	10	U	10	U	10	U	18		10	U	10	U	10	U
Methyl cyclohexane	NA	10	U	10	U	10	U	10	U	35		10	U	10	U	10	U
Methylene chloride	5*	10	U	10	U	10	U	10	U	10	U	1	J	1	J	10	U
Trichloroethene	5*	3	J	4	J	2	J	4	J	5	J	**6**	**J**	**6**	**J**	1	J
Semi-Volatile Organic Compounds																	
Bis(2-Ethylhexyl)phthalate	5*	10	U	10	U	10	U	10	U	10	U	10	U	10	U	1	J
Inorganics																	
All analytes non-detect	NA																
TAL Metals																	
Aluminum	NA	222		200	U	200	U	200	U	200	U	200	U	200	U	200	U
Barium	1000*	158	BE	168	BE	171	BE	148	BE	252	E	203	E	208	E	152	BE
Cadmium	5*	0.23	B	0.38	B	0.54	B	0.34	B	5	U	5	U	0.31	B	1.1	B
Calcium	NA	90,400		95,700		101,000		97,400		106,000		110,000		109,000		97,000	
Chromium	50*	0.95	B	10	U	10	U	10	U	10	U	10	U	0.52	B	10	U
Iron	300*	**393**	**J**	23.9	UJ	100	UJ	100	UJ	**1010**	**J**	19.2	UJ	67.3	JB	17.1	UJ
Magnesium	35000	19,300	EJ	20,700	EJ	21,300	EJ	20,400	EJ	21,700	EJ	22,800	EJ	22,600	JE	20,800	EJ
Manganese	300*	90.2		2.6	U	1.4	U	0.86	U	**321**		3.7	U	4.1	B	4.6	B
Potassium	NA	4,380	B	1,820	B	1,840	B	1,600	B	2,020	B	1,900	B	1,880	B	1,670	B
Selenium	10*	5	UN	5	UN	5	UN	5	UN	3.1	BN	5	UN	5	UN	5	UN
Sodium	20000	**149,000**		**143,000**		**145,000**		**163,000**		**133,000**		**282,000**		**286,000**		**157,000**	
Vanadium	NA	0.98	B	50	U	50	U	0.47	B	50	U	50	U	0.51	B	50	U

Notes:
Results in microgram per liter (µg/L)
Only detected compounds shown.
QC Code:
FS = Field Sample
FD = Field Duplicate
Qualifers:
U = Not detected at a concentration greater than the reporting limit
J = Result is estimated
B = The reported result fell above the IDL but below the CRDL
E = The percent difference between the parent sample and its serial dilution's concentration exceeds 10%.
N = The matrix or pre-digested spike sample recovery for an analyte is not within the specified control limit.
Criteria = Values from Technical and Operational Guidance Series (TOGS) 1.1.1, "Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" (NYSDEC, 1998).
* = New York State GA Standard
Results in **BOLD** exceed associated criteria
Methods:
Volatile Organic Compounds analyzed with OLM4.2_VOA
Sem-Volatile Organic Compouds analyzed with OLM4.2_SVOA
Inorganic Compounds analyzed with OLM4.2_PP
TAL Metals analyzed with ILM4.1_ICP

FIGURES

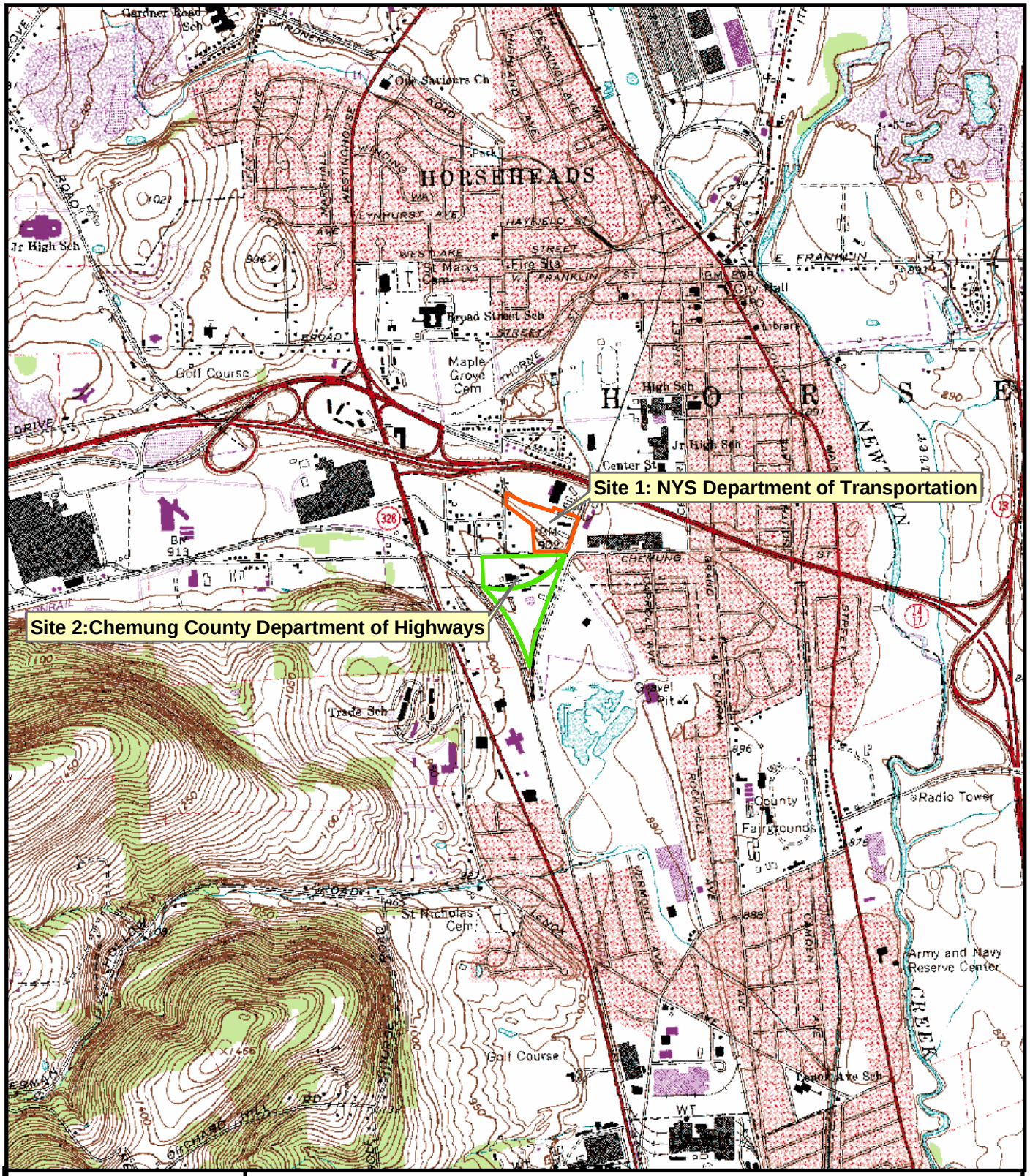


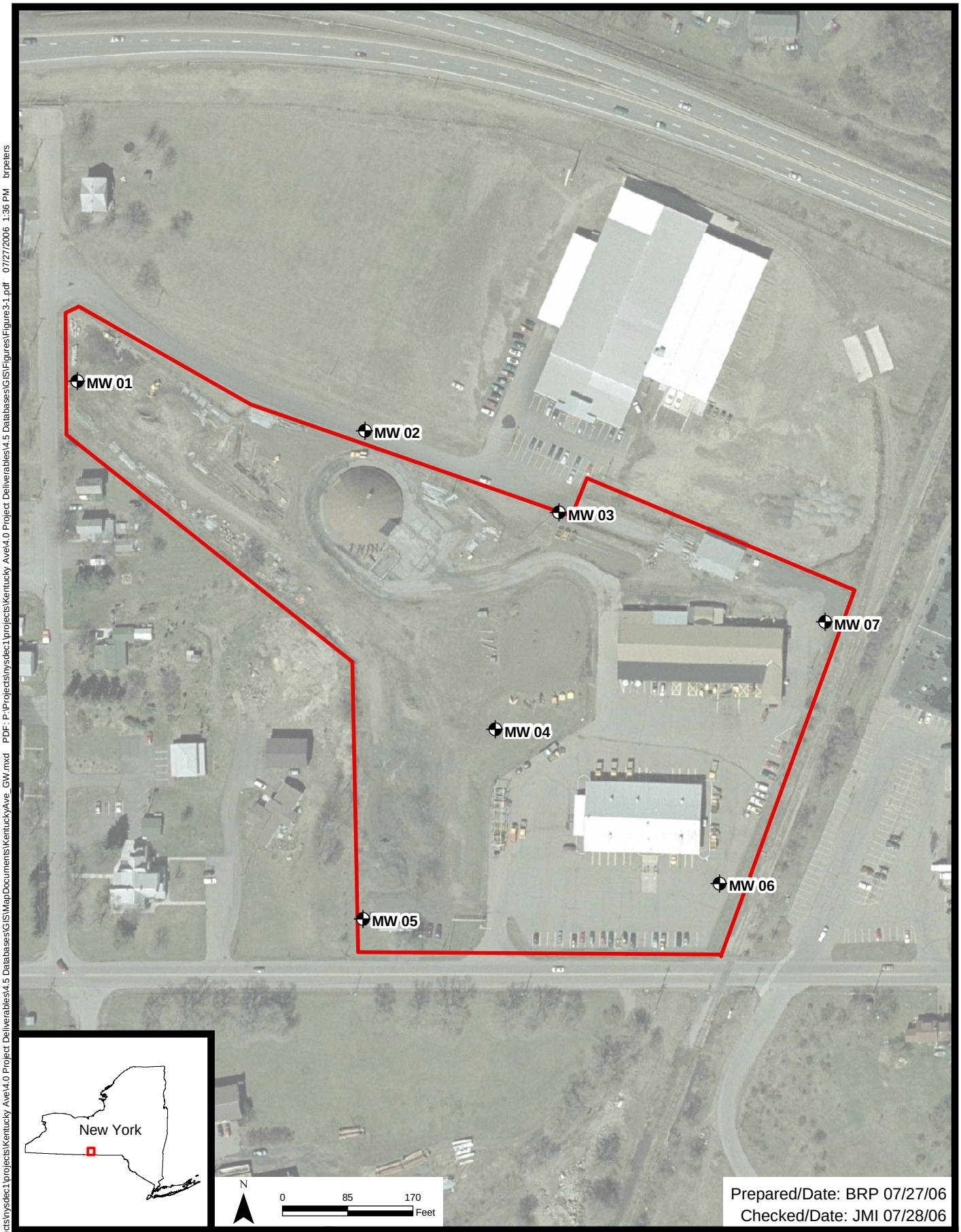
FIGURE 1.1
SITE LOCATION AND TOPOGRAPHY

SITE CHARACTERIZATION WORK PLAN
KENTUCKY AVENUE SATELLITE SITES 1 & 2
HORSEHEADS, NEW YORK

Prepared by CRS | Checked by DB

MACTEC

Document: P:\Projects\nysdec1\projects\Kentucky Ave\4.0 Project Deliverables\4.5 Databases\GIS\Kentucky site location.mxd PDF: P:\Projects\nysdec1\projects\Kentucky Ave\4.0 Project Deliverables\4.2 Work Plans\Draft Work Plan\FIGURE_1_1.pdf 08/05/2005 11:35 AM crstaples



Prepared/Date: BRP 07/27/06
Checked/Date: JMI 07/28/06

NYSDEC
Kentucky Avenue Satellite Site
Horseheads, NY

MACTEC

Boring Locations

Project 3612052034 Figure 3-1

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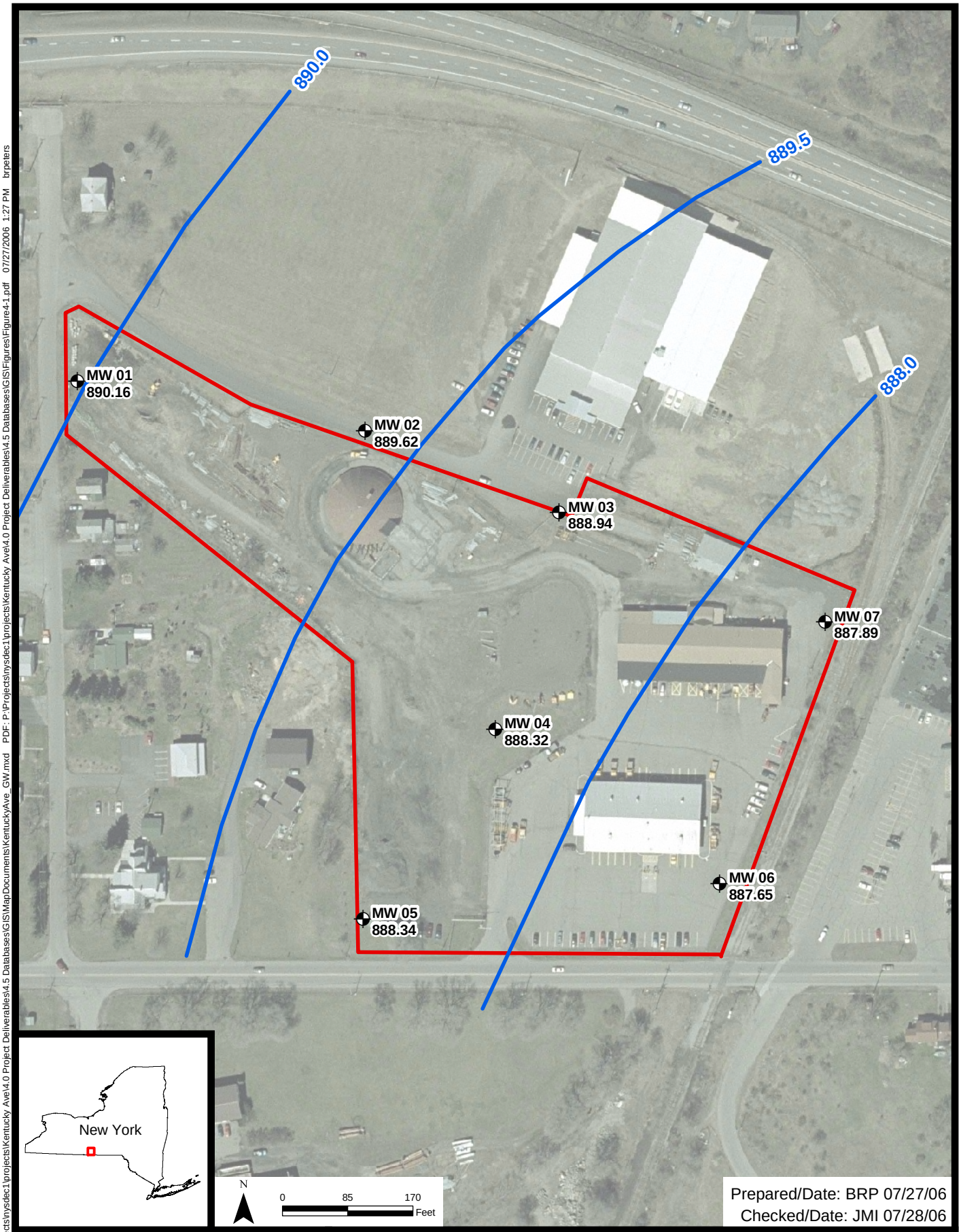


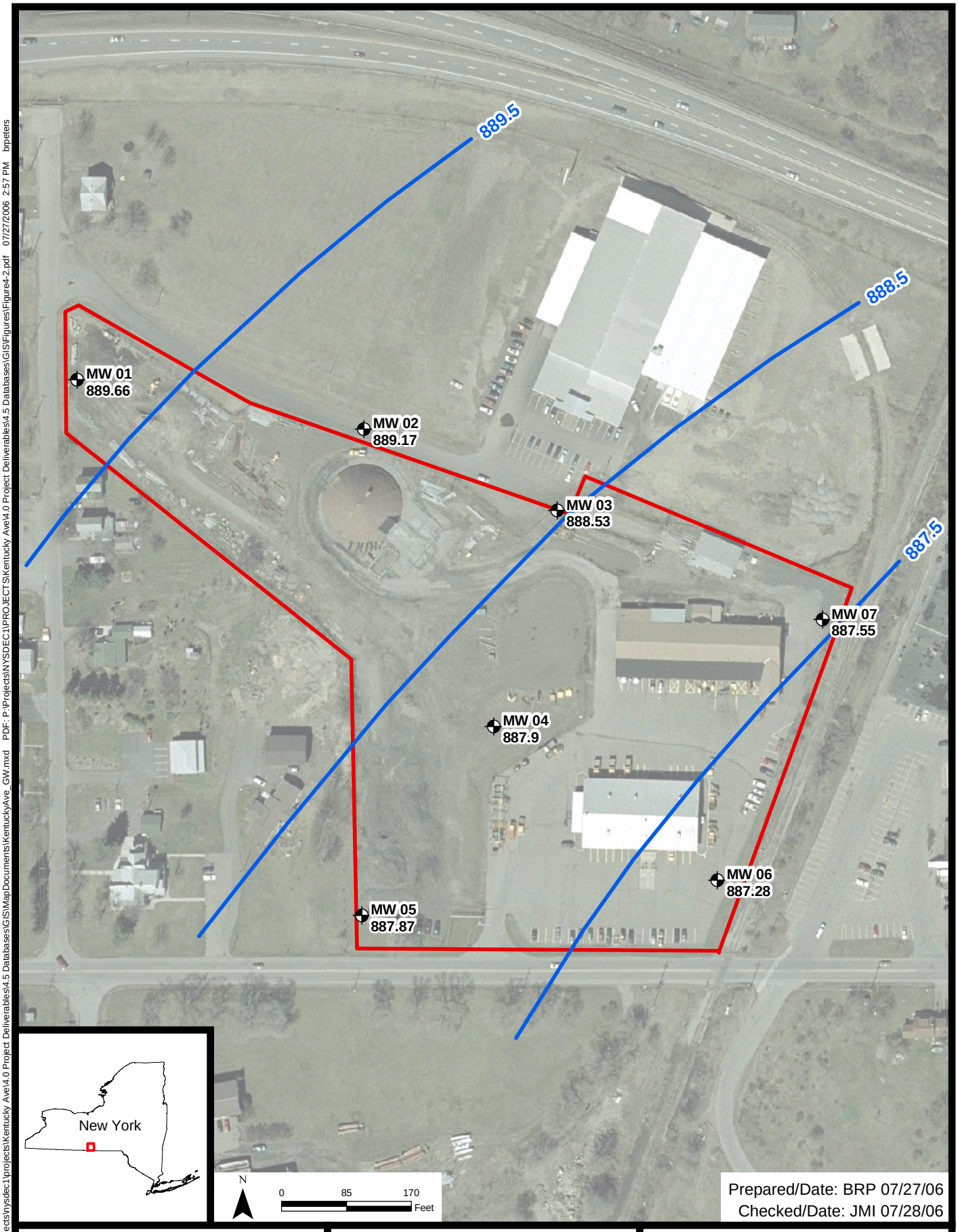
Prepared/Date: BRP 07/27/06
Checked/Date: JMI 07/28/06

NYSDEC
Kentucky Avenue Satellite Site
Horseheads, NY

MACTEC

Potentiometric Surface Map
December 2005
Project 3612052034 Figure 4-1

Document: P:\Projects\nysdec1\projects\Kentucky Ave\4.0 Project Deliverables\4.5 Databases\GIS\MapDocuments\KentuckyAve_GW.mxd PDF: P:\Projects\nysdec1\projects\Kentucky Ave\4.0 Project Deliverables\4.5 Databases\GIS\Figures\Figure4-1.pdf 07/27/2006 1:27 PM brpeters



Prepared/Date: BRP 07/27/06
Checked/Date: JMI 07/28/06

NYSDEC
Kentucky Avenue Satellite Site
Horseheads, NY

MACTEC

Potentiometric Surface Map
March 2006
Project 3612052034 Figure 4-2

Document: P:\Projects\nysdec1\projects\Kentucky Ave\4.0 Project Deliverables\4.5 Databases\GIS\MapDocuments\KentuckyAve_GW.mxd PDF: P:\Projects\NYSDEC1\PROJECTS\Kentucky Ave\4.0 Project Deliverables\4.5 Databases\GIS\Figures\Figure4-2.pdf 07/27/2006 2:57 PM brpeters

APPENDIX A:

SITE PHOTOGRAPHS

Photo 1
Kentucky Avenue
Main site building looking toward the southeast

Photo 2
Kentucky Avenue
Main site buildings looking toward the southeast

APPENDIX B:

FIELD DATA RECORDS

Field Records:

Well Installation Boring Logs

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Soil Boring Log

MACTEC
511 Congress Street
Portland, ME

Boring Location: BS-1 (MW1)

Project Name: Kurtz/Area I | Geologist: Brandon Shaw

Date Started: 11/15/05 | Drilling Company: Geologic NY

Date Completed: 11/15/05 | Drilling Method: HSA Auger - 4 1/2"

Total Depth: 34.5' | Depth to Water: ~24.0'

Comments: 3/6/2005 2034 - NYSDEC

Depth (feet)	Stratigraphy Description	Penetration/ Recovery (feet)	Headspace (ppm)	Blows/ 6 inches	Sample ID STB500101601XX
0' to 2'	0' to 0.5' Black/Brown Sandy loam/PG fines + fine sand; trace coarse sand, SP→SM 0.5' to 2' Lt olive/yellow w/ red @ ~1.1' gravel w/ clay, WG, very stiff, Damp, SP, very angular to subrounded → GC	1.0 / 2.0	<0.1	10-14 14-D	
2' to 4'	2' to 4' Lt brown/olive gravel sand clay very stiff, SP, damp, WG-fines to coarse gravel, angular to subrounded. → GC 3.3' to 3.6' DK Brown dense of Organic loam/ Sand w/ fines moist SP, →OL	0.9 / 2.0	<0.1	16-14 12-12	
4' to 6'	4' to 6" Lt brown/yellow gravely clay cobble @ ~5.8' Pink sand stone @ ~5.2', WG- fines + cobble very angular to rounded Stiff, moist, SP → GC 5.8-6' Lt brown coarse Sandy Clay w/ gravel → GC	1.1 / 2.0	<0.1	12-11 4-9	
6' to 8'	6'-6.6' DK olive sady gravely clay, stiff WG, SP, wet → GC 6.6-8. Brown/olive Clay w/ gravel, WG, stiff wet, HP: → GC; grey rocks (coarse sand @ ~8') @ ~7' - White powdery rock w/ orange	1.2 / 2.0	<0.1	9-11 14-24	
8' to 10'	8' to 8.4' Olive clay w/ gravel very dense, WG fines in gravel, angular to rounded dry, SP → GC; 8.4' to 9.4' - Sandy gravel w/ many fines, WG, dry, very dense, → GC	0.9 / 1.4	<0.1	14-34 50@0.4	
10' to 12'	10' to 10.2' DK olive clay w/ gravel WG fines in fine gravel, very angular to Rounded, Damp, MP → GCSC	0.2 / 0.2	<0.1	50 to 0.2'	TOOK 2 photos of cuttings right to the surface.
12' to 14'	12' to 12.3' Pink/red gravel w/ Sand very dense, NP, PG, looks like broken rock, dry → GP	0.2' / 0.3'	<0.1	50 @ 0.3	Tough drilling, many rocks ~2", boney.
14' to 16	14' to 16' Lt brown/olive clay-gravel WG fines to coarse gravel, very angular to subrounded/rounded, dry, NP/SP, very stiff → GC	0.5 / 2.0	<0.1	24-27 28-25	
16' to 18	Lt Brown Sand-gravel-cb/ mixture SP, dry very dense/hard, WG, → GM	0.5 / 2.0	<0.1	44-35 39-46	STB500101601XX

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Soil Boring Log

MACTEC
511 Congress Street
Portland, ME

Boring Location: BS-1 (MW1)

Project Name: Kentucky Ave | Geologist: Brandon Snow

Date Started: 11/15/05 | Drilling Company: Geologic NY

Date Completed: 11/16/05 | Drilling Method: HSA Auger

Total Depth: 34.5' | Depth to Water: ~24.0'

Comments: 361205 ~~20~~ 034 - NYSDEC

Depth (feet)	Stratigraphy Description	Penetration/ Recovery (feet)	Headspace (ppm)	Blows/ 6 inches	Sample ID
18' to 20'	18'-19' gravel w/ some fine sand dry dense, SP-fines, WG, → GW 19'-20' Lt brown/Lt olive silty fine sand w/ little clay, very dense, friable, damp, SP, trace coarse sand → SM/SC	0.9/20	<0.1	36-18 14-9	
20' to 22'	20-20.1' Lt Brown silty fine Sand w/ some clay, PG, dry, very dense, friable, damp, SP → SM 20.1-20.2' grey gravel w/ some sand, PG, angular, dry, very dense/hard NP → GP	0.2'/0.2'	<0.1	50 @ 0.2'	
22' to 24'	DK Grey silty fine Sand w/ trace angular fine gravel throughout, PG-fines to fine Sand, very stiff, slightly friable, SP, damp → SM	1.5/2.0	<0.1	12-16 24-28	
24' to 26'	24-25.5' same as S12, but color is DK grey → SM 25.5'-25.8' DK grey silty fine Sand w/ gravel, the rest is same as S12. → SM 25.8-26' orange brown gravel sand silt mix, WG fines to fine gravel, Subrounded to well rounded very friable, dry, very dense/stiff → GM	2.0/2.0	<0.1	15-17 47-50	
26' to 28'	26-27 olive grey gravel sand clay mix fine WG, Saturated, V. Stiff → GC 27-28' Lt brown, gravel and coarse sand mix w/ some fines, WG, loose, Saturated → GW/GM	1.0/2.0	<0.1	36-17 21-13	
28' to 30'	Lt Brown, gravel w/ some coarse Sand, WG and some fines, very dense, Sat. NP → GM	0.8/2.0	<0.1	12-17 34-13	
30' to 32'	Augering to Bottom of Boring. BOB @ 34.5' Bottom of Well: 33.6'				

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Soil Boring Log

MACTEC
511 Congress Street
Portland, ME

Boring Location: BS-2(MW2)

Project Name: Kentucky Area I | Geologist: Brenden Shaw

Date Started: 11/16/05 | Drilling Company: Geologic NY

Date Completed: 11/17/05 | Drilling Method: HSA Auger

Total Depth: 33' | Depth to Water: ~22.5'

Comments: 361205 2034 - NYSDEC

Depth (feet)	Stratigraphy Description	Penetration/ Recovery (feet)	Headspace (ppm)	Blows/ 6 inches	Sample ID
0' to 2'	Olive/Black silty gravel w/ sand WG, soft, wet, NP/SP, maybe trace clay → GM	0.7 / 2.0	<0.1	2-3 3-2	
2' to 4'	Lt orange clayey Sandy gravel, WG, Soft, NP, saturated, → GC @ 4' Olive/brown Sandy clay w/ some sand, more dense, moist, → SC	0.8 / 2.0	<0.1	2-2 1-2	
4' to 6'	4' to 5.2' Lt Brown/olive gravel w/ some sand and clay, med dense, WG, saturated w/ layer of olive clay (0.1') → GC 5.2-6 brown/olive gravelly clay w/ some sand (coarse) stiff, WG, damp, friable, SP → GC	1.5 / 2.0	<0.1	7-4 16-13	
6' to 8'	Brown 6 to 7" Same as S3 7' to 8 Brown Sand and gravel w/ some fines, WG, V. dense, dry, NP, → GC	0.6 / 2.0	<0.1	18-23 34-40	
8' to 10'	8 to 8.4 Lt brown/DK olive Sand-gravel-clay WG, hard, saturated, SP → GC 8.4 to 9.1' DK olive/Lt orange clay w/ gravel WG, V dense/stiff, damp, friable → GC	2.0 / 2.0	<0.1	50-45 30-19	
9' to 10	9.1 to 9.4 Lt Grey Rocky large gravel w/ some fines, WG, dry, V. dense → BW 9.4 to 9.6' Same as (8.4 to 9.6) 9.6 to 9.7 Same as (8.6 to 9.4) but more angular from before	/ 0.3	<0.1 /	50@ 0.3	
	9.7 to 10' DK orange/olive Sand-gravel-Clay mix, WG, dry, V. dense, Friable → GC	/ 1.4		33-50 50 @0.4	
10 to 12	10 to 10.3 Olive Brown Sand-gravel clay WG, V. hard, wet, SP → GC 10.3 to 10.9 Same as (10-10.3), but damp & heavier 10.9 to 12 Lt Brown Sand gravel w/ some fines, WG, V. dense/hard, dry-Friable, → GC	1.2 / 0.3	<0.1	50 @0.3	
12 to 14	Olive/Brown gravelly clay, WG-fines to coarse gravel, V. hard, dry, friable, V. angular to Subrounded → GC	1.0 / 1.4	<0.1	35-50 @0.4	

MACTEC

Soil Boring Log

MACTEC
511 Congress Street
Portland, ME

Boring Location: BS-2 (MW2)	
Project Name: Kentucky Ave	Geologist: Brendan Shaw
Date Started: 11/16/05	Drilling Company: Geologic NY
Date Completed: 11/17/05	Drilling Method: HSA Auger 4¼"
Total Depth: 33'	Depth to Water: ~22.5'
Comments: 3612052034 - NYSDEC	

	Depth (feet)	Stratigraphy Description	Penetration/ Recovery (feet)	Headspace (ppm)	Blows/ 6 inches	Sample ID
8	14' to 16'	Olive/Brown gravelly clay, WG, hard, friable, MP, wet → GC. One very hard coarse gravel @ 14.2	0.3 / 0.3	<0.1	50 @ 0.3'	
9	16' to 18'	16 to 16.6' Olive gravelly clay, WG, hard, damp, friable, MP → GC	0.2 / 0.6	<0.1	44-50 @.1	
S10	18' to 20'	Compositized sample: olive brown sand and gravel w/ some fines, WG, v. hard, SP, moist, fines to coarse gravel → GC	1.3 / 1.4	<0.1	40-44 50@0.4	STBS00201801XX @ 1745
S11	20' to 22'	~~Same~~ 22'-22.5' same as S10. 22.5 to 24' Lt Brown/olive sand and gravel w/ some clay, WG, v. hard, dry, MP, → GC	1.2 / 1.8	<0.1	36-43 50-50@0.5	
S12	24 to 26	~~24 to 25~~ Lt Brown sand and gravel w/ some fines, WG, dense, saturated, → GC. 25 to 26 Brown coarse sand and gravel, WG, Sat, dense, SP → GC. 1 lay of olive brown clay from 25.8-25.9	1.0 / 2.0	<0.1	15-17 16-23	End of Day 11/16/05
S13	24' 26'	Lt Brown olive sandy clay gravel WG, hard, saturated, SP, → GC. Boney sample	0.3' / 2.0	<0.1	21-27 25-18	
		Augering down to BOD. BOD @ 33'. Bottom of well: ~~33.85~~ 32.1'				

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Soil Boring Log

MACTEC
511 Congress Street
Portland, ME

Boring Location: BS-3 (MW3)

Project Name: Kentucky Ave | Geologist: Brandon Shaw

Date Started: 11/16/05 | Drilling Company: Geologic NY

Date Completed: 11/16/05 | Drilling Method: HSA Auger - 4½"

Total Depth: 28.0' | Depth to Water: ~18'

Comments: 361205 2034 - NYSDEC #STBS00301601XX

Depth (feet)	Stratigraphy Description	Penetration/ Recovery (feet)	Headspace (ppm)	Blows/ 6 inches	Sample ID
S1 0 to 2	0 to 1' DK Brown silty Sand w/ Gravel WG, med. Stiff, moist SP → SM 1' to 2' Brown/yellow clayey gravel, WG, med dense, damp, SP → GC	0.8 / 2.0	<0.1	16-10 6-4	
S2 2' to 4'	2' - 3' orange/DK Brown Clayey Gravel, med/stiff/soft, wet, WG, MP → GC 3' to 4' Lt brown/orange gravely clay, WG, saturated, med stiff, MP → GC	0.5 / 2.0	<0.1	4-3 4-6	
S3 4' to 6'	4' to ~5.5' Lt orange/Brown sand and gravel clay, WG, soft, MP → GC 5.5 to 6' Sand and gravel w/ some clay WG, soft, Saturated → GC	0.7 / 2.0	<0.1	4-2 3-3	
S4 6' to 8'	Brown coarse sand and gravel, WG trace fines, fines to coarse gravel, med dense, NP, wet → GW	1.0 / 2.0	<0.1	5-7 8-7	
S5 8' to 10'	8' to 8.8' Brown silty Sand and gravel WG fines to fine gravel, very stiff, wet. SP → SM 8.8 to 9.4' Brown/olive sand gravel/clay WG, v. angular to Subrounded v. dense, damp SP → GC	0.8 / 1.4	<0.1	21-36 50@4	
S6 10' to 12'	10' to 11.1' DK Brown Sand Gravel clay WG fines to coarse gravel, v. Stiff, moist, SP → GC 11.1 to 12' Lt yellow/olive clayey gravel, WG, v. Stiff, dry, friable, v. angular to well rounded	1.3 / 2.0	<0.1	19-14 26-29	
S7 12' to 14'	No recovery here.	0.0 / 0.7'	N/A	33-50 @0.2	
S8 14' to 16'	14' to 14.6' Grey/Lt Brown gravel w/ little silt fine-coarse gravel to coarse gravel w/ little fine clayey dense, SP → SM (moist) 14.6 - 16 Stratified olive-brown-yellow sand gravel & clay WG, dry, friable → GC	0.6 / 2.0	<0.1	29-40 35-38	
S9 16' to 18'	Olive/Brown Sand and gravel w/ a little clay Large, WG, Very Stiff, wet SP, well rounded to Subangular → GC	1.3 / 2.0	<0.1	38-29 21-18	STBS00301601XX - Composited Core for Sample

MACTEC

Soil Boring Log

MACTEC
511 Congress Street
Portland, ME

Boring Location: BS-3 (MW3)

Project Name: Kentucky Ave I | Geologist: Brandon Shaw

Date Started: 11/16/05 | Drilling Company: Geologic NY

Date Completed: 11/16/05 | Drilling Method: HSA, Auger - 4½"

Total Depth: 28.0' | Depth to Water: ~18'

Comments: 361205 2034 - NYSDEC

Depth (feet)	Stratigraphy Description	Penetration/ Recovery (feet)	Headspace (ppm)	Blows/ 6 inches	Sample ID
18' to 20'	DK. Brwn/orange Sandy gravel - clay WG, very stiff, saturated, v. angular to well rounded, → GC SP	1.5/2.0	<0.1	17-14 16-8	
20' to 22'	Same as S10.	~1.0'/2.0	<0.1	7-8 20-18	
	Augering down to ~28' BOB @ 28' Depth @ bottom of well = 27.1'				

MACTEC

Soil Boring Log

MACTEC
511 Congress Street
Portland, ME

Boring Location: BS-4(MW4)

Project Name: Kentucky Ave I | Geologist: Brandon Shaw

Date Started: 11/15/05 | Drilling Company: Geologic NY

Date Completed: 11/15/05 | Drilling Method: HSA - Auger

Total Depth: 26.0' | Depth to Water: ~15.2

Comments: 361205 2034 - NYSDEC

Depth (feet)	Stratigraphy Description	Penetration/ Recovery (feet)	Headspace (ppm)	Blows/ 6 inches	Sample ID
S1 0 to 2'	0' to 0.8' DK Brown Sandy loam, WG fines to coarse Sand, Med dense, damp, SP→SM 0.8' to 2' orange brown silty Sand w/ gravel and clay WG, Med dense, dry SP→SC	1.8 / 2.0	<0.1	2-2 7-10	
S2 2' to 4'	2' to 4' Stratified Brown w/ orange, black and Lt brown lenses, sandy clay w/ layers of clean Sand and clay, trace fine gravel and cobble Stiff, WG, Worst, MP→SC	1.6 / 2.0	1.8	6-6 5-5	
S3 4' to 6'	4' to 5.5' orange/Brown Silty Sand w/ fine gravel, WG, very stiff, trace cobble worst, MP→SM 5.5' to 6' - Brown Sand and gravel w/ silt, WG fines to fine gravel, damp, SP→GM	1.0 / 2.0	<0.1	7-11 15-20	
S4 6' to 8'	6' to 8' Brown Silty Sand and gravel, very stiff, damp, SP→GM	1.2 / 2.0	<0.1	14-17 16-17	STBS0040600 KK
S5 8' to 10'	8-8.5' Lt Brown sandy clay w/ gravel very stiff, mo-st/wet, MP→SC 8.5-10 Brown to Lt Brown Silty Sand & gravel very dense, trace cobble, damp to dry, SP→GM	1.0 / 2.0	<0.1	10-38 35-46	
6 10' to 12'	10-12' Gravel (sandstone and other) w/ Sand and lenses of stratified olive/orange dry clay throughout, hard, dry, NP, but clay lenses have SP→GC	1.0 / 2.0	<0.1	23-31 48-46	
S7 12' to 14'	12'-13.5' olive/brown/yellow silty sand ~1 clay and gravel, WG fines to fine gravel dry, dense, SP→GM/GC 13.5-14' Small layer of Dry olive clay (bit) then same as 12'-13.5'	0.7 / 1.2	<0.1	41-49 50@2	
S8 14' to 16'	Not representative of Sample. Disregard S8 sleeve	0.1 / 0.2	N/A	50@0.2	
S9 16' to 18'	14' to 16.4' coarse gravel w/ some silty fine Sand and trace fine gravel, WG-fines to Coarse Gravel, dry, NP→GC	0.3 / 0.4	<0.1	50@0.4'	

MACTEC

Soil Boring Log

MACTEC
511 Congress Street
Portland, ME

Boring Location: BS-4 (MW4)	
Project Name: Kentucky Ave II	Geologist: Brendan Shaw
Date Started: 11/15/05	Drilling Company: Geologic NY
Date Completed: 11/15/05	Drilling Method: HSA Auger
Total Depth: 26.0'	Depth to Water: ~15.2'
Comments: 36120503034 - NYSDEC	

Depth (feet)	Stratigraphy Description	Penetration/ Recovery (feet)	Headspace (ppm)	Blows/ 6 inches	Sample ID
18' to 20'	18' to 20' Coarse Sand w/ gravel and some fines, wet - fines to large gravel, med dense, Saturated, NP, lense of clay @ ~19' (0.1') very angular to rounded	1.0 / 2.0	<0.1	14-16 / 11-12	
20' to 22'	20.0 - 20.1' Brown clean Sand w/ trace fine gravel and trace fines, Sat, NP 20.1 to 20.2' - Same as S10.	0.3' / 0.3'	<0.1	50 to 0.2'	
22' to 26'	Augering the rest of the way to BOB, which is @ 26.0' Bottom of well @ 25.05'				

MACTEC

Soil Boring Log

MACTEC
511 Congress Street
Portland, ME

Boring Location: BS-5 (MW5)	
Project Name: Kentucky Ave I	Geologist: Brandon Shaw
Date Started: 11/15/05	Drilling Company: Geologic NY
Date Completed: 11/15/05	Drilling Method: HSA Auger
Total Depth: 22.0'	Depth to Water: 15.2'
Comments: 3612052034 – NYSDEC	

	Depth (feet)	Stratigraphy Description	Penetration/ Recovery (feet)	Headspace (ppm)	Blows/ 6 inches	Sample ID STBS0050800IXX	
S1	0' to 2'	0' to ~1' DK Brown silty loam. PG fines to fine sand w/ trace fine gravel stiff moist, MP, some grass – ~1' to 2' Stratified Lt Brown/Brown/orange sandy clay w/ some gravel, WG-fines to coarse gravel damp, MP, angular to rounded. – SC	1.0 / 2.0	<0.1	0/1-5 6-5		
S2	2' to 4'	2' to 4' orange/brown sandy clay w/ fine gravel WG, med stiff, moist, MP – SC	0.5 / 2.0	<0.1	4-4 3-2		
S3	4' to 6'	4' to ~4.2' Brown sandy clay w/ trace gravel med stiff, damp, MP – SC 4.2' to 4.8' – Brown silty sand, PG, med dense damp, SP → SM, 4.8' to 6' – yellow/brown sand w/ gravel, WG, Dense, damp, NP – SW ← wet	1.4 / 2.0	<0.1	8-12 6-9		
S4	6' to 8'	6' to ~7' Brown silty sand, very dense, ~~saturated~~ WG – fines to fine gravel, MP → SM 7 to 8' – Fill material, crushed rocks, @ ~7.5' pink sandstone, @ 8' a dry Lt brown clay	0.7' / 0.7'	<0.1	47-50 to 0.2'		
S5	8' to 10'	8' to 8.5' Lt Brown silty sand w/ some gravel WG – fines to fine gravel, dense, damp, SP → SM 8.5' to 10' Brown sand and gravel w/ some cobbles dense/to loose WG, fine sand to cobbles, dry NP, → GW (fill may be or could be the formation)	2.0 / 0.8'	<0.1	17-27 38-50 0.2'	*STBS0050800IXX	← used 3" spoon
S6	10' to 12'	10' to ~10.5 Lt Brown silty clay, dense wet, MP 10.5-12' sand and crushed gravel w/ lenses of clay Lt olive clay throughout the sleeve WG fines to coarse gravel, damp to dry, GW&SC	0.6 / 0.7	2.8	18-41 50 @ 0.2'		
S7	12' to 14'	N/A	0.0' / 0.0'	N/A	50 @ 0.0		
S8	14' to 16'	14' to ~15' Lt Brown silty sand, WG, sat SP → SM 15'-16' Grey silty sand over a light brown clay layer, dry & strong gas/diesel smell.	0.7 / 2.0	4.9	17-15 14-18		
S9	16' to 18'	16-18' Shiny grey wetted sandy gravel w/ fines, saturated strong odor! Sampled here, left sheen on decon water.	0.8 /	59	20-16 12-15	STBS0050160IXX	

MACTEC	Boring Location: BS-6 (MW6) - 1st Attempt.	
Soil Boring Log	Project Name: Kentucky Ave I	Geologist: Brandon Snow
MACTEC 511 Congress Street Portland, ME	Date Started: 11/14/05	Drilling Company: Geologic NY
	Date Completed: 11/14/05	Drilling Method: HSA - Auger
	Total Depth: 26.0'	Depth to Water: ~12.7
	Comments: 3612052034 - NYSDEC	

Depth (feet)	Stratigraphy Description	Penetration/ Recovery (feet)	Headspace (ppm)	Blows/ 6 inches	Sample ID
0' to 2'	0' to 0.4' - Black top - No sample 0.5' to 2' DK Brown gravely Sand WG, loose, wet, SW - Fill	N/A 0.9/1.5	<0.1 0.4	N/A - 0 3-5 6	N/A
2' to 4'	2' to 2.5 - Same as S1 2.5' to 4' - DK Brown silty sand w/ gravel, WG, Stiff, damp, SM - Fill	1.0/2.0	<0.1	15-11 12-11	N/A
4' to 6'	Refusal @ 4.3' w/ a piece of copper (something) going in w/ Auger Stopped drilling. In a Railroad	0.3/2.0 ~~N/A~~ 5	5-4-4 3 ~~N/A~~ <0.1	20-50 Stopped @ 4.3'	N/A ← 2nd Hole over.
6' to 8'	embankment → large cement structure - Black/Brown clayey sand w/ lots of gravel, stiff, damp, MP ~looks like a fill → SC	0.5/2.0	6-5 5-6 ↔	<0.1	N/A
8' to 10'	8.0' - 8.5 Black sandy gravel, damp, Fill material 8.5' - 10' Rust Brown clayey-sand w/ gravel damp, again looks like fill	0.8/2.0	<0.1	8-13 9-6	N/A
10' to 12'	10 - 10.1' Black Silty Sand w/ gravel - Fill 10.1' - 10.5' Brown Sandy clay damp - Fill 10.5' - 12' Brown sandy gravel w/ clay - Fill	1.2/2.0	4-6 7-14 ↔	<0.1	N/A
12' to 14'	12-12.5 Brown Sandy clay w/ gravel - Fill 12.5'-14' Grey/Brown, Sandy gravel w/ Some fines - Fill	1.0/2.0	<0.1	15-25 24-16	* water @ 12.7'. No Sample because all fill material.
14' to 16'	14' - 15.5' Brown Sandy clay w/ gravel fines to WG, Hard, MP, saturated - SC 19 Gravel 15.5 - 16.0 Brown silty gravel, WG fine to med gravel, Hard/Dense, Saturated, SP	0.8/2.0	0.9	15-22 21-40	* Some round and many angular particles
16 to 18	16 - 16.5' Crushed gravel (Small) and w/ rich coarse Sand, PG, trace fines - Fill 16.5 - 17.5 WG coarse Sand w/ fines, Brown Saturated, Fill 17.5' - 18 Sandstone red/pink rock	1.0/2.0	<0.1	44-35 22-19	* red/pink Sandstone @ bottom of shoe

Margin notes: Filled material (0'–8'). Descr of 2nd 4' to 6' - Lt Brown/Black gravely Sand, w/ trace fines. Damp → SW Fill

MACTEC

Soil Boring Log

MACTEC
511 Congress Street
Portland, ME

Boring Location: BS-6 (MW6) - 2nd Attempt Hole

Project Name: Kentucky Ave I | Geologist: Brenden Shaw

Date Started: 11/14/05 | Drilling Company: Geologic NY

Date Completed: 11/14/05 | Drilling Method: HSA - Auger

Total Depth: 26.0' | Depth to Water: ~12.7'

Comments: 361205 2034 - NYSDEC

Depth (feet)	Stratigraphy Description	Penetration/ Recovery (feet)	Headspace (ppm)	Blows/ 6 inches	Sample ID
18' to 20'	18.-18.2' Brown Sandy Clay w/ gravel WG-fines to coarse gravel, saturated, very angular to rounded - Fill	0.2/0.2	0.9	50-0.2'	-Cobblestuck
20' to 22'	20-20.7' Brown Sandy Clay, PG fines to coarse sand, Hard, Sat., MP Trace 20.7-22' Brown, sandy gravel w/ some fines, WG-fines to fine gravel, Hard, Sat, SP, Very angular to Subrounded	1.6/20	0.9	47-47 36-30	
22' to 24'	22' to 22.3' Brown WG Sandy Gravel fines to coarse gravel, Sat. Hard, NP, Angular to Rounded	1.9/0.3	20.1	50-0 0.3'	
24' to 26'	Drilling down w/ Auger. - drilling got very hard. - large rock-cobble from 22.3' to bot.	N/A	N/A	N/A	
	BOB @ ~26.0' Depth of well ~ 25.0'				

MACTEC

Soil Boring Log

MACTEC
511 Congress Street
Portland, ME

Boring Location: BS-7 (MW7)	
Project Name: Kentucky Ave I	Geologist: Brandon Shaw
Date Started: 11/14/05	Drilling Company: Geologic NY
Date Completed: 11/14/05	Drilling Method: HSA Auger
Total Depth: 24.0'	Depth to Water: ~12.9
Comments: 3612052034 – NYSDEC	

	Depth (feet)	Stratigraphy Description	Penetration/ Recovery (feet)	Headspace (ppm)	Blows/ 6 inches	Sample ID
S1	0' to 2'	0-0.5' Black top slight odor 0.5-1.6' Black Sandy gravel, WG-fines to coarse gravel, damp-Fill 1.6-2.0' Olive brown sandy grave Clayey gravel - Fill?	N/A 0.9/2.0	NA <0.1	N/A 5-5 5-4	
S2	2' to 4'	2' to 4' - Black clayey gravel WG fines to fine gravel, Subangular to rounded, MP, Stiff, Moist - Fill GC	0.2/2.0	<0.1	4-4 4-3	
S3	4' to 6'	4'-5' Black Sand w/ some gravel and some fines, WG, fines to fine gravel, loose, damp, SP → SW 5' to 6' - Lt orange/Brown silty gravel w/ some sand, WG fines to coarse gravel, ~~moist~~ saturated, MP → GM	0.8/2.0	<0.1	1-1 1-7	
S4	6' to 8'	6'-7' Olive Brown w/ orange + Black layers Sandy Gravel, loose, Saturated - GM 7-8' Brown gravel w/ sand, PG, very dense, dry, NP → GP (Fill layer)	1.1/2.0	<0.1	25-37 50@0.4'	* There was water sitting over the coarse gravel fill layer
S5	8' to 10'	DK olive Sandy ~~gravel~~ w/ some fines WG (fines to coarse gravel), saturated very dense, SP	0.1/0.2'	<0.1	50 to 0.2'	
S6	10' to 12'	10-11' - DK brown olive Sand w/ gravel and fines WG-fines to coarse gravel, moist very dense - Fill SW 11-12 Lt Brown Sandy gravel WG, dry very dense fill - GW	1.4/2.0	<0.1	10-13 21-12	STBS0070100IXX @1310
S7	12' to 14'	12' to 14' Lt Brown gravelly Sand w/ yellow/Lt brown clay lense @ ~13' (0.1' in depth) WG, Dry, very dense, fines to coarse gravel, angular to subrounded → SP	0.8/0.2	<0.1	50 @ 0.2	
S8	14' to 16'	14' to 16' Brown w/ streaks of orange and black, sandy gravel w/ some fines WG - fines to coarse gravel, very dense, NP/SP in clay lenses, → GW - Fill	1.2/2.0	<0.1	50-43 49-37	
S9	16' to 18'	* This soil bounded in the shoe. Olive brown sandy gravel w/ fines, WG fines + fine gravel, Saturated, dense, SP → GW - fill	0.1/0.0	<0.1	50 @ 0.0'	

P:\Projects\Brunswick - Maine St. Sta Brownfield\5.0 Project Information\5.2 Reference Material\Qapp_App_H\boring log blank.xls

MACTEC

Soil Boring Log

MACTEC
511 Congress Street
Portland, ME

Boring Location: BS-7 (MW7)

Project Name: Kentucky Ave I | Geologist: Brandon Shaw

Date Started: 11/14/05 | Drilling Company: Geologic NY

Date Completed: 11/14/05 | Drilling Method: HSA Auger

Total Depth: 24.0 | Depth to Water: ~12.9'

Comments: 361205 2034 - NYSDEC

Depth (feet)	Stratigraphy Description	Penetration/ Recovery (feet)	Headspace (ppm)	Blows/ 6 inches	Sample ID
18' to 20'	Olive Brown to Life Brown Silty gravel WG- fines to coarse gravel, very dense, wet, SP → GM - fill	0.1 / 0.1	<0.1	50 @0.1'	N/A
20' to 21.5'	20 to 21' olive silty gravel w/ clay and Sand, very dense, saturated, SP - GM fill 21' to 21.5' Olive gray gravel w/ Sand and fines. WG, dense, damp, GW - fill	2.0 / 2.0	<0.1	35-32 34-50	N/A
21.8 to 22	21.5 - 21.8' orange/white clean sand WG, loose, dry, SP - Fill 21.8' - 22' - Olive gravel w/ Sand, dense saturated, WD, WG - fines to coarse grav	" "	" "	" "	N/A
22' to 24'	Augered down to BOB. 24' - BOB.; Bottom of well @ 22.95'				

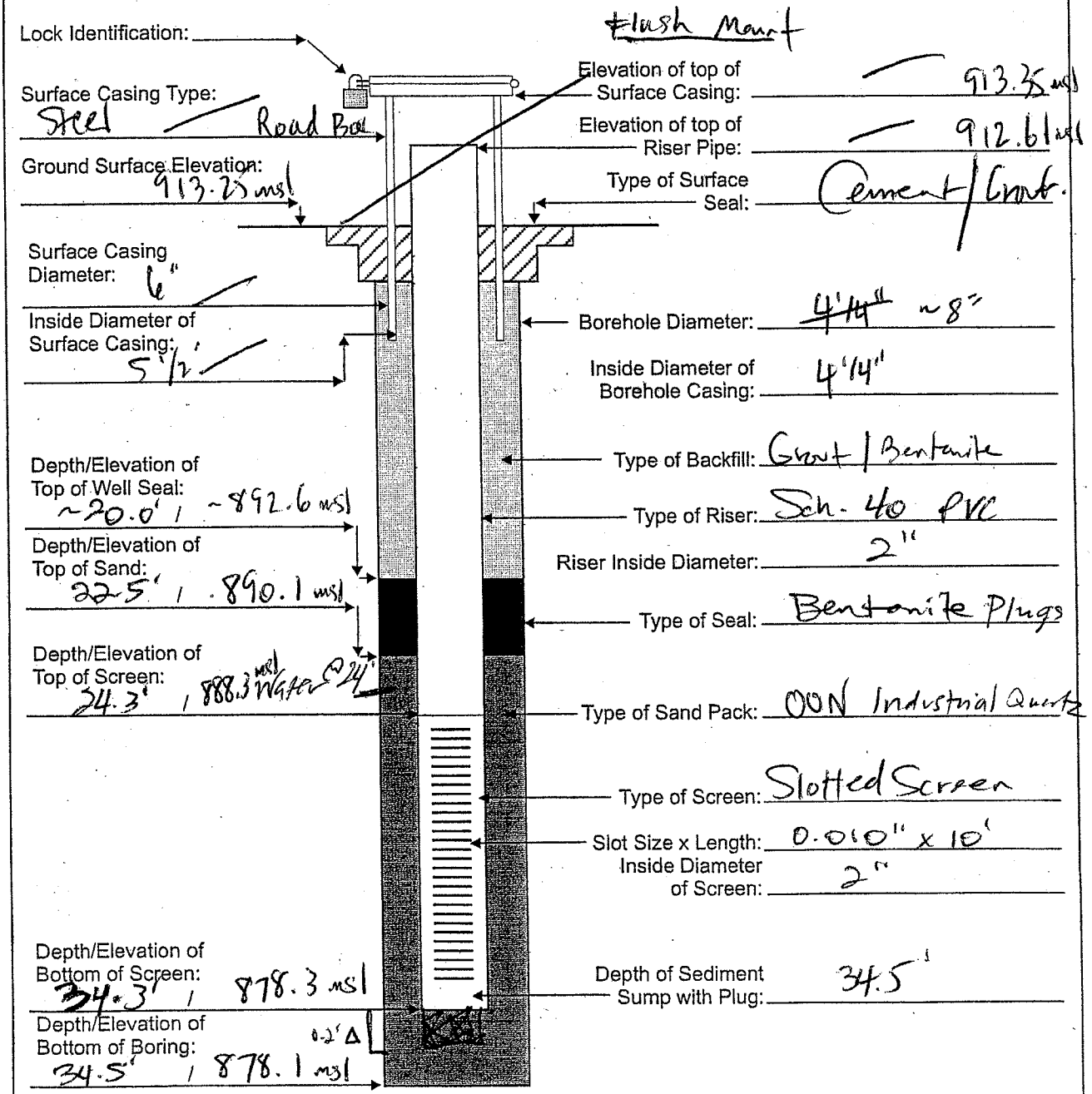
Field Records:

Well Installation Records

Monitoring Well Log (Stick Up Type)

Well No.: MW-1

Project No.: 36120520 24	Project Name: Kentucky Ave Satellite Site I		
	Project Area: NYSDEC - Elmira, NY		
Contractor: Geologic	Driller: Jeffrey Grant	Method: HSA	
Logged By: Brandon Shaw		Date Started: 11/15/05	Completed: 11/16/05
Checked By: TDL	Date: 7-31-06		



FIGURE

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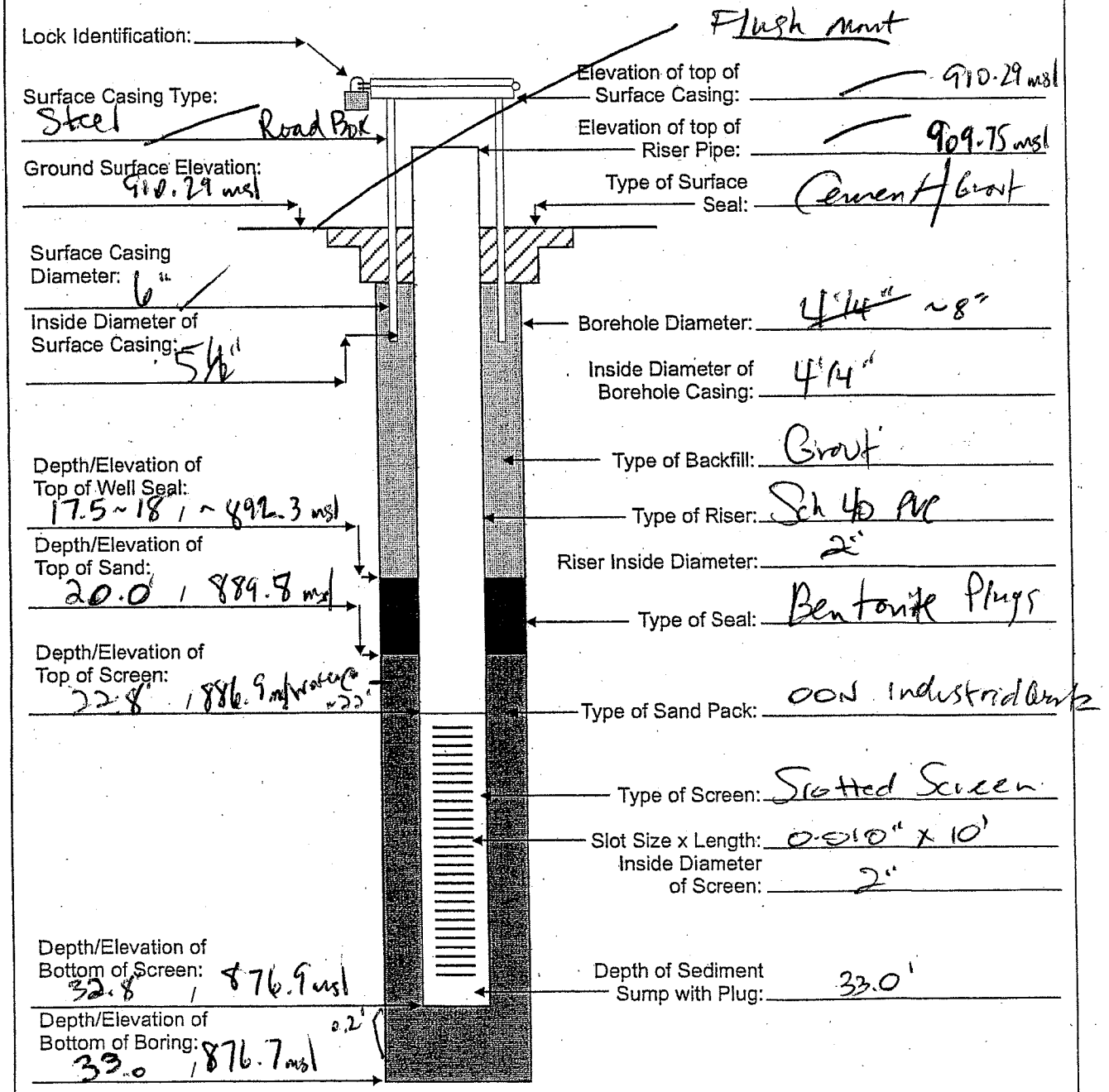
v11 7/31/06

Monitoring Well Log (Stick Up Type)

Well No.: MW-2

Project No.: 36120500034	Project Name: Kentucky Ave. Satellite Site I		
	Project Area: NYSDEC - Elmira, NY		
Contractor: Geologic	Driller: Jeffery Grant	Method: HSA	
Logged By: Brandon Shaw		Date Started: 4/16/05	Completed: 11/17/05
Checked By: TDL	Date: 7-31-06		



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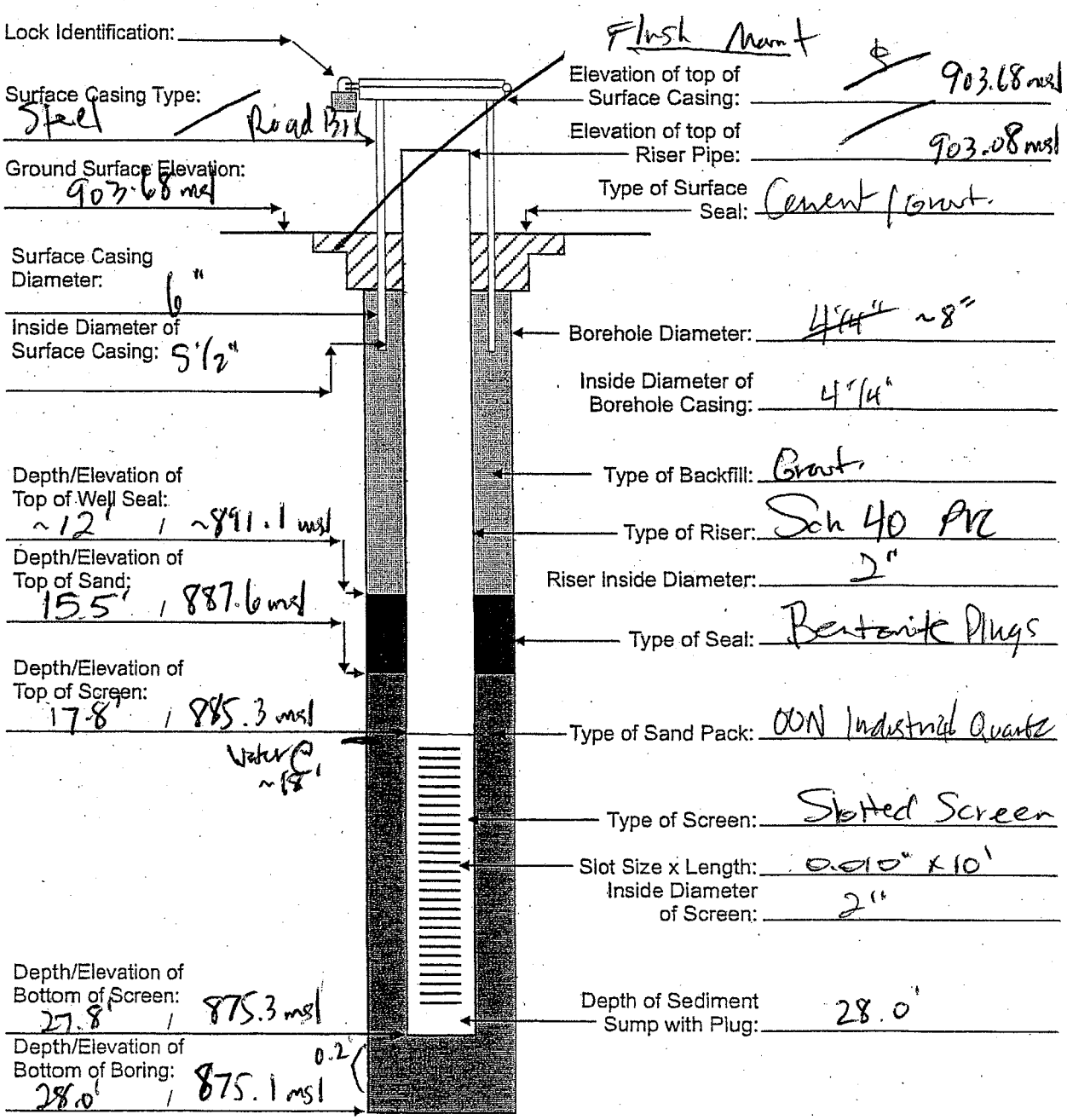
Monitoring Well Log (Stick Up Type)

Well No.: MW-3

Project No.: 36120520024	Project Name: Kentucky Ave, Satellite Site I		
	Project Area: NYSDEC — Elmira, NY		
Contractor: Geologic	Driller: Jeffery Grant	Method: HSA	
Logged By: Brandon Shaw		Date Started: 11/16/05	Completed: 11/16/05
Checked By: TDL	Date: 7-31-06		



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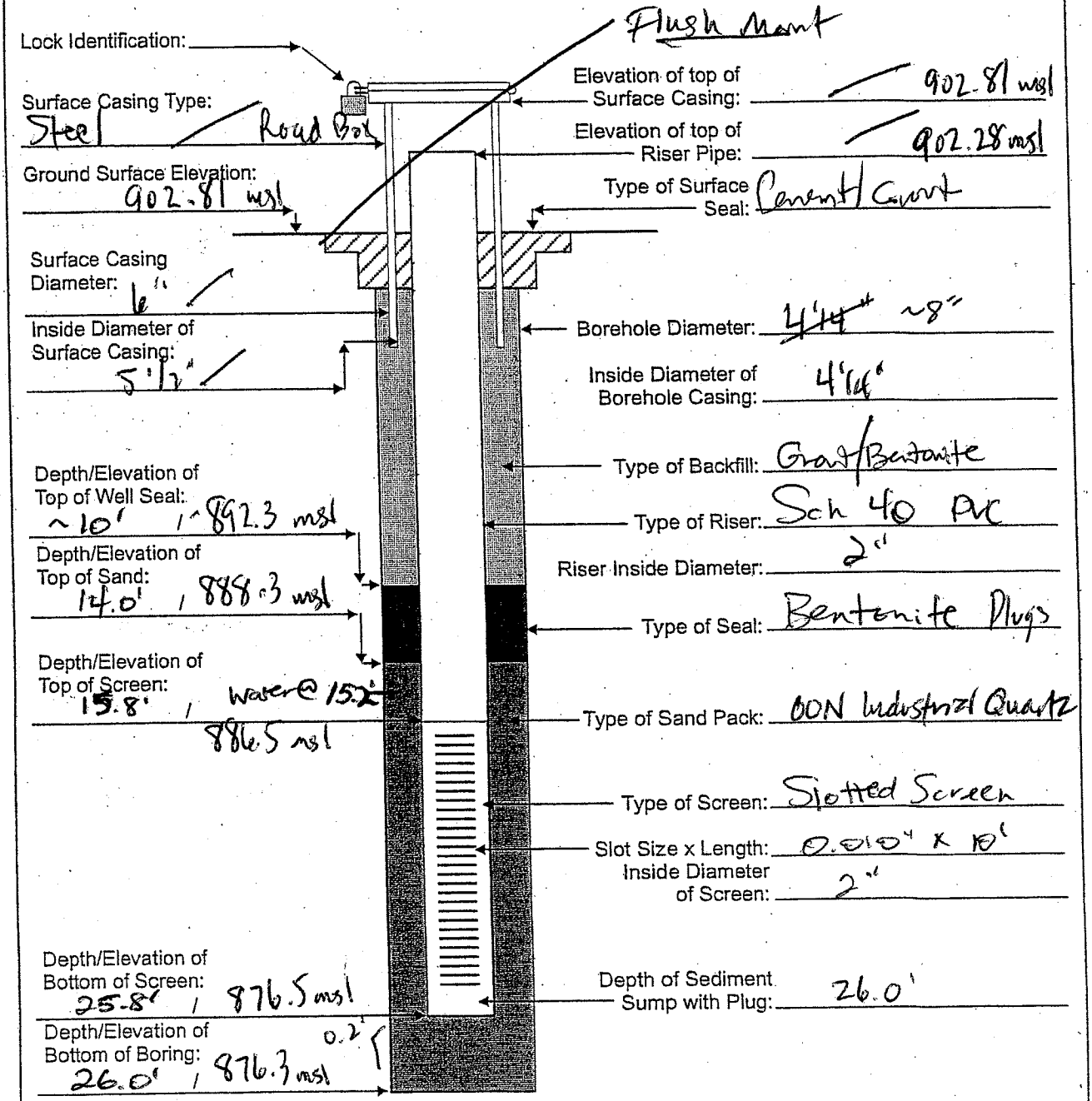
Monitoring Well Log (Stick Up Type)

Well No.: MW-4

Project No.: 36120520034	Project Name: Kentucky Ave. Satilite Site I		
	Project Area: NYSDEC Elmira, NY		
Contractor: Geologic	Driller: Jeffery Grant	Method: HSA 4 1/4" ID	
Logged By: Brendan Shaw		Date Started: 11/15/05	Completed: 11/15/05
Checked By: TDL	Date: 7-31-06		



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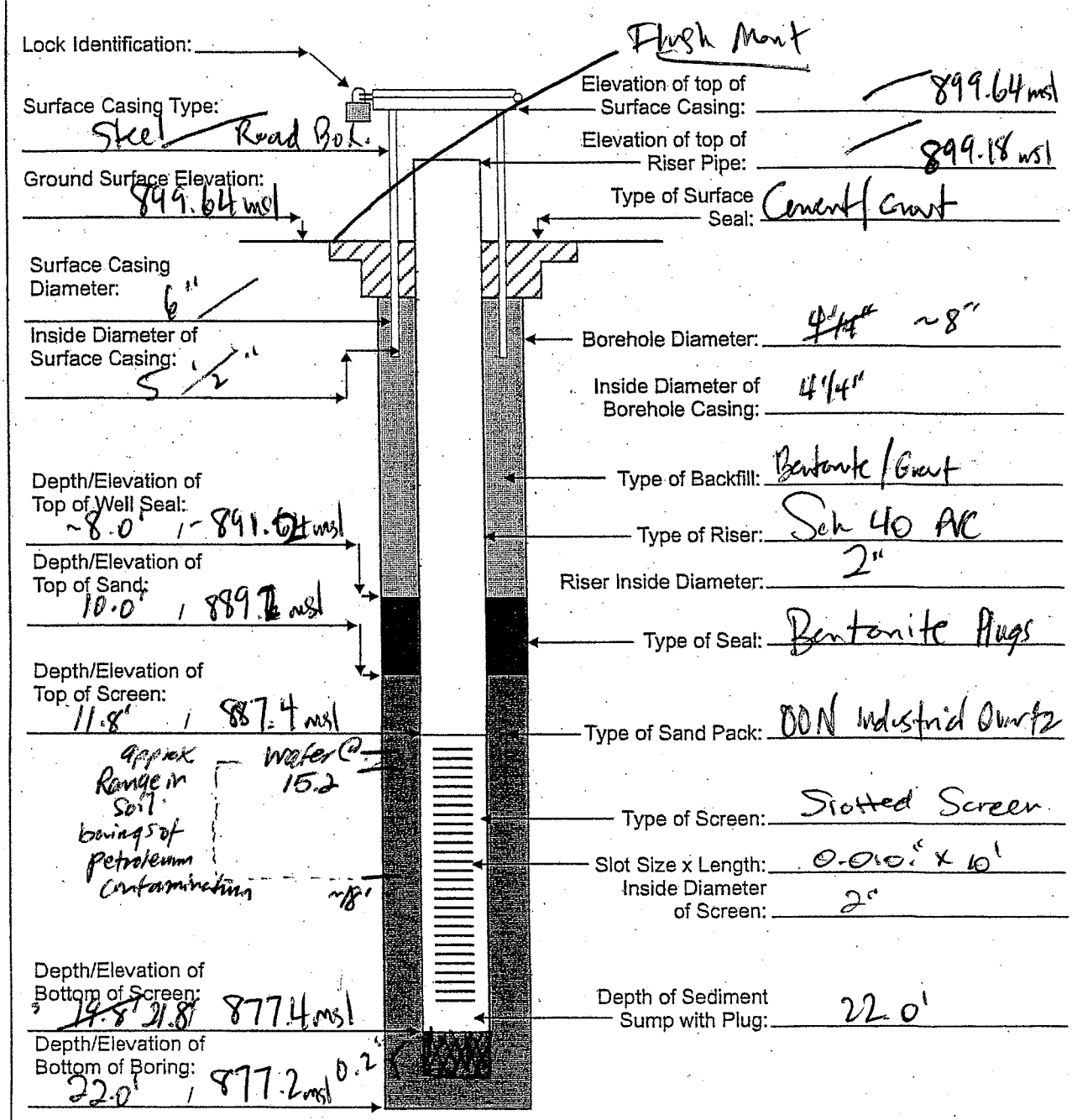
Monitoring Well Log (Stick Up Type)

Well No.: MW-5

Project No.: 361205.0034	Project Name: Kentucky Ave Sat 1.7c Site I		
	Project Area: NYSDEC - Elmira, NY		
Contractor: Geologic	Driller: Jeffery Grant	Method: HSA - 4 1/4" ID	
Logged By: Brandon Shaw		Date Started: 4/15/05	Completed: 4/15/05
Checked By: TDL	Date: 7-31-06		



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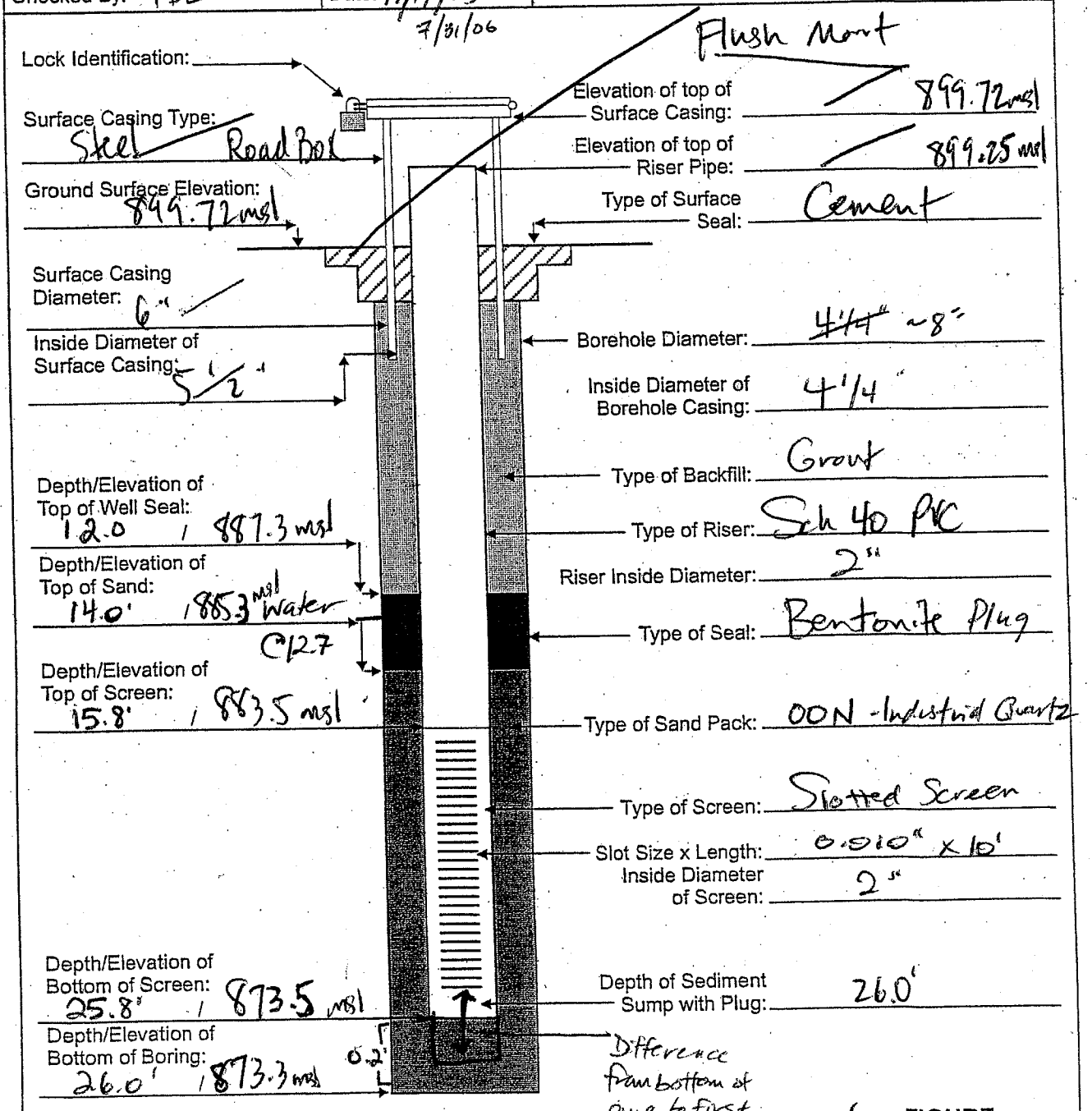
Monitoring Well Log (Stick Up Type)

Well No.: MW-6

Project No.: 36120520.34	Project Name: Kentucky Ave. - Satellite Site I		
	Project Area: NYSDEC - Elmira, NY		
Contractor: Geologic	Driller: Jeffery Grant	Method: HSA 4 1/4" ID	
Logged By: Brandon Shaw		Date Started: 11/14/05	Completed: 11/15/05
Checked By: TDL	Date: 11/14/05 7/31/06		



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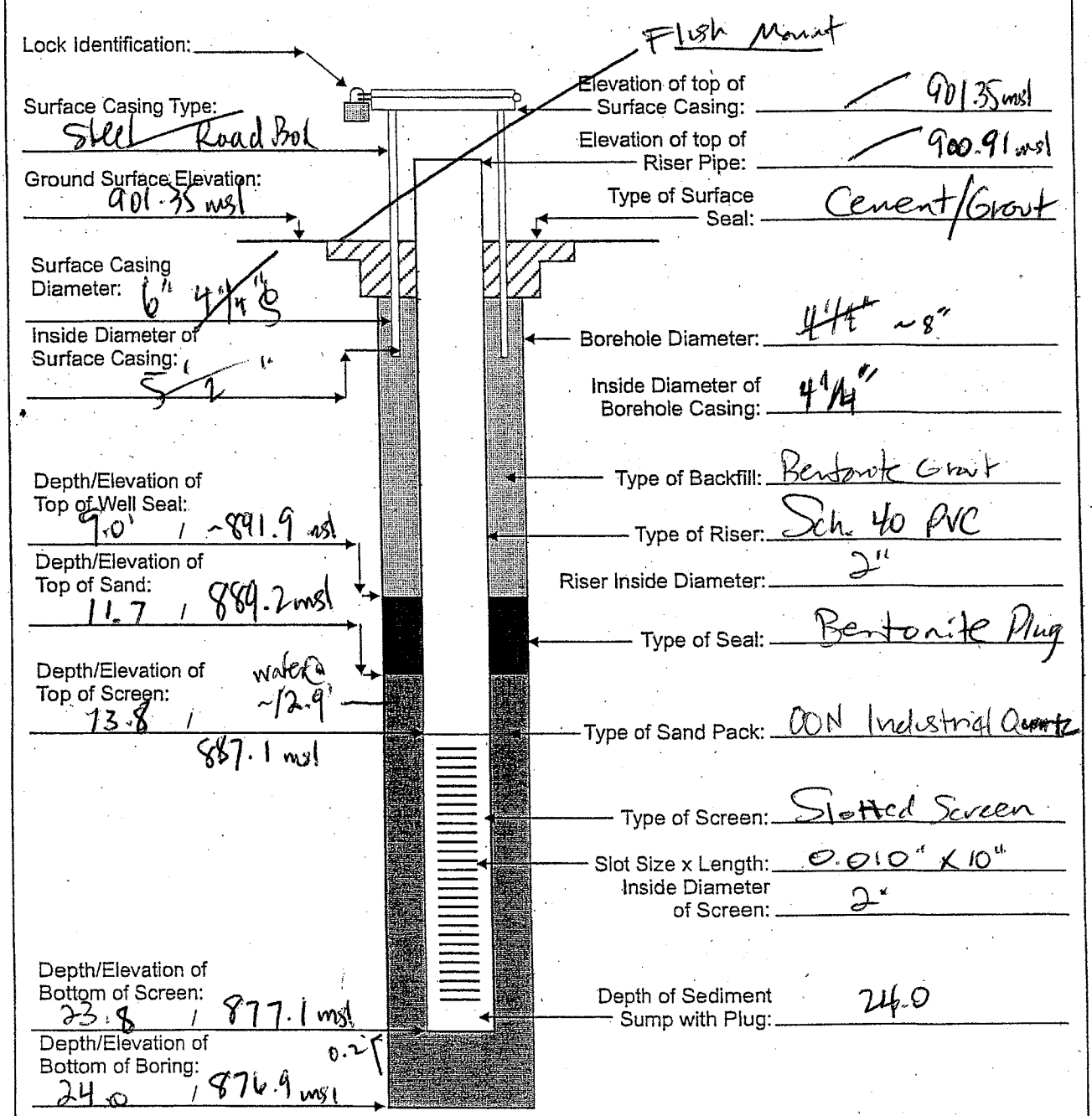
Monitoring Well Log (Stick Up Type)

Well No.: MW-7

Project No.: 361205.2034	Project Name: Kentucky Ave. Satellite Site I
	Project Area: NYSDEC - Elmira, NY
Contractor: Geologic	Driller: Jeffrey Grant
Method: HSA - 4 1/4 ID	
Logged By: Brandon Snow	Date Started: 11/14/05 Completed: 11/14/05
Checked By: TDL	Date: 7-31-06



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Field Records:
Well Development Records

NYSDOT GARAGE

HORSEHEADS, NEW YORK

WELL DEVELOPMENT TABLE

Well #	Description	Hours
MW-1	2.5 GPM, 55 Gallons Pumped, 86 NTU	1.5
MW-2	4.0 GPM, 55 Gallons Pumped, 139 NTU	1.0
MW-3	4.0 GPM, 55 Gallons Pumped, 44 NTU	1.25
MW-4	3.5 GPM, 55 Gallons Pumped, 132 NTU	1.5
MW-5	3.0 GPM, 55 Gallons Pumped, 112 NTU	3.0
MW-6	3.0 GPM, 55 Gallons Pumped, 103 NTU	1.5
MW-7	1.0 GPM, 55 Gallons Pumped, 127 NTU	2.0

11/18/05

Well Development Record

Well No.: MW-1

Project No.: 36120520314	Logged By: Brandon Shaw		
Client Name: NYSDEC	Project Name: Kentucky Ave I		Checked By:
Well Installation Date: 11/16/05		Start Date: 11/15/05	Finish Date: 11/16/05
Well Development Date: 11/18/05		Start Time: N/A	Finish Time: N/A

Initial Water Level (ft.): 22.45

Water Level during **Initial** Pumping/Purging (ft).: N/A

Water Level at **Termination** of Pumping/Purging (ft).: N/A

Weather: N/A

~~$\pi \cdot (3.14)^2 = 35.01$ in^3 water $\cdot$ (16.387 ml/in^3) = 594~~ Total well vol (ml)

Height of Water Column: 11.15 (ft.)

X 0.16 gal./ft. (2 in.)
x 0.65 gal./ft. (4 in.)
1.5 gal./ft. (6 in.)
gal./ft. (in.) = 1.78 Well Volume (gal./ft.)

5 / 8

Number of Well Volumes:	Time:	Temperature:	pH:	Conductivity:	Approximate Pumping Rate (gal./min.):	Turbidity (NTU's):
0	0000	N/A	N/A	N/A	2.5	N/A
30.9	0130				2.5	86 NTU.
		~~9 10/21/05~~				

Notes: · Total volume purged · 55 gallons
· Geologic NY, Inc. developed these wells.
· Water column · 11.15'
DTW: 22.45'
BOB: 33.6'

Well Developers Signature:

FIGURE

Well Development Record

Project No.: 3612052034	Logged By: Brandon Shaw	Well No.: MW-2
Client Name: NYSDEC	Project Name: Kentucky Ave I	Checked By:
Well Installation Date: 11/17/05	Start Date: 11/16/05	Finish Date: 11/17/05
Well Development Date: 11/18/05	Start Time: N/A	Finish Time: N/A

Initial Water Level (ft.): 20.13

Water Level during **Initial** Pumping/Purging (ft).: N/A

Water Level at **Termination** of Pumping/Purging (ft).: N/A

Weather: N/A

~~(3.14) = 37.59 in³ (16.387 ml/in³) = 616~~ ~~total well vol (m/s)~~

Height of Water Column: 11.97 (ft.)

X 0.16 gal./ft. (2 in.)
x ______ 0.65 gal./ft. (4 in.)
______ 1.5 gal./ft. (6 in.)
______ gal./ft. (______ in.) = 1.92 Well Volume (gal./ft.)

Number of Well Volumes:	Time:	Temperature:	pH:	Conductivity:	Approximate Pumping Rate (gal./min.):	Turbidity (NTU's):
0	00:00	N/A	N/A	N/A	4.0	N/A
↓	↓	↓	↓	↓	↓	↓
28.6	01:00				4.0	139 NTU

BS 12/21/05

Notes: Total volume purged: 55 gallons

- Geologic NY, Inc. developed these wells
- Water column: 11.97'
  D to water: 20.13'; BOB: 32.1'

Well Developers Signature: [signature]

FIGURE

MACTEC Engineering and Consulting, Inc.

Well Development Record

Well No.: MW-3

Project No.: 36120520324	Logged By: Brandon Shaw		
Client Name: NYSDEC	Project Name: Kentucky Ave I		Checked By:
Well Installation Date: 11/16/05		Start Date: 11/16/05	Finish Date: 11/16/05
Well Development Date: 11/18/05		Start Time: N/A	Finish Time: N/A

Initial Water Level (ft.): 14.14'

Water Level during **Initial** Pumping/Purging (ft).: N/A

Water Level at **Termination** of Pumping/Purging (ft).: N/A

Weather: N/A

~~$\pi \cdot (3.14) \cdot 40.69\ in^3 \cdot (16.387\ mL/in^3) = 6667$ total well vol (mL).~~

Height of Water Column: 12.96 (ft.)

x ___X___ 0.16 gal./ft. (2 in.)

x _____ 0.65 gal./ft. (4 in.)

_____ 1.5 gal./ft. (6 in.)

_____ gal./ft. (_____ in.) = 2.07 Well Volume (gal.) 5

Number of Well Volumes:	Time:	Temperature:	pH:	Conductivity:	Approximate Pumping Rate (gal./min.):	Turbidity (NTU's):
0	00:00	N/A	N/A	N/A	4.0	N/A
26.5	01:25	13/00/05			4.0	44 NTU

Notes: • Geologic NY, Inc developed wells for MACTEC w/ HACH 2100P

• BoB - 27.1'

Initial DTW = 14.14' → water column → 12.96'

• Total volume purged - 55 gallons

Well Developers Signature: _____

FIGURE

MACTEC Engineering and Consulting, Inc.

Well Development Record

Well No.: MW-4

Project No.: 36120520.34	Logged By: Brandon Shaw		
Client Name: NYSDEC	Project Name: Kentucky Ave I		Checked By:
Well Installation Date: 11/15/05		Start Date: 11/15/05	Finish Date: 11/15/05
Well Development Date: 11/18/05		Start Time: N/A	Finish Time: N/A

Initial Water Level (ft.): 13.96'

Water Level during **Initial** Pumping/Purging (ft).: N/A

Water Level at **Termination** of Pumping/Purging (ft).: N/A

Weather: N/A

~~Ht of water Column 11.09 (3.14) = ft² of water = 34.83 (16.387 ml/ft³) = 571 Well Volume (ml)~~ → Total

Height of Water Column: 11.09 (ft.)

x 0.16 gal./ft. (2 in.)
x 0.65 gal./ft. (4 in.)
1.5 gal./ft. (6 in.)
gal./ft. (in.) = 1.77 Well Volume (gal./ft.)

Number of Well Volumes:	Time:	Temperature:	pH:	Conductivity:	Approximate Pumping Rate (gal./min.):	Turbidity (NTU's):
0	00:00	N/A	N/A	N/A	3.5	N/A
3.1.0	01:30	12/21/05			3.5	132 NTU

Notes:

- Geologic NY, Inc. developed these wells.
- Water column = 11.09'
  - DTW = 13.96'
  - BOD = 25.05'
- Total Volume Purged = 55 gallons

Well Developers Signature: _____

FIGURE

MACTEC Engineering and Consulting, Inc.

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Well Development Record

Well No.: MW-5

Project No.: 36120S2034	Logged By: Brandon Shaw	
Client Name: NYSDEC	Project Name: Kentucky Ave. I	Checked By:
Well Installation Date: 11/15/05	Start Date: 11/15/05	Finish Date: 11/15/05
Well Development Date: 11/18/05	Start Time: N/A	Finish Time: N/A

Initial Water Level (ft.): 10.84'

Water Level during **Initial** Pumping/Purging (ft).: N/A

Water Level at **Termination** of Pumping/Purging (ft).: N/A

Weather: N/A

~~π (3.14) = 37.90 in³ (16.387 ml/in³) = 503 Total well vol (mvs)~~

Height of Water Column: 10.16 (ft.)

x 0.16 gal./ft. (2 in.)
x ____ 0.65 gal./ft. (4 in.)
____ 1.5 gal./ft. (6 in.)
____ gal./ft. (____ in.) = 1.63 Well Volume (gal./~~ft.~~)

Number of Well Volumes:	Time:	Temperature:	pH:	Conductivity:	Approximate Pumping Rate (gal./min.):	Turbidity (NTU's):
0	00:00	N/A	N/A	N/A	3.0	N/A
↓	↓	↓	↓	↓	↓	↓
33.7	03:00				3.0	112 NTU

10/20/05

Notes:

- Geologic NY, Inc developed the wells.
- Water column - 10.16'
  - D to W: 10.84'
  - BOB: 21'
- Total volume purged: 55 gallons

FIGURE

Well Developers Signature: ________

MACTEC Engineering and Consulting, Inc.

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Well Development Record

Well No.: MW-6

Project No.: 36120520034	Logged By: Brandon Shew		
Client Name: NYSDEC	Project Name: Kentucky Ave. I		Checked By:
Well Installation Date: 11/15/05		Start Date: 11/14/05	Finish Date: 11/15/05
Well Development Date: 11/18/05		Start Time: N/A	Finish Time: N/A
Initial Water Level (ft.): 11.60'			
Water Level during **Initial** Pumping/Purging (ft).: N/A			
Water Level at **Termination** of Pumping/Purging (ft).: N/A			
Weather: N/A			

~~$\pi \cdot (3.14) =$ 42.08 in³ water (16.387 ml/in³) = 690 Total well vol (mL)~~

Height of Water Column: 13.40 (ft.)

x ___ 0.16 gal./ft. (2 in.)
x ___ 0.65 gal./ft. (4 in.)
___ 1.5 gal./ft. (6 in.)
___ gal./ft. (___ in.) = 2.14 Well Volume (gal./ft.)

Number of Well Volumes:	Time:	Temperature:	pH:	Conductivity:	Approximate Pumping Rate (gal./min.):	Turbidity (NTU's):
0	00:00	N/A	N/A	N/A	3.0	N/A
29.7	01:30				3.0	103 NTU.

Notes: Geologic NY, Inc. developed well (surging techniques.

- Bot. = 25'
  DtoW. = 11.60' } water column = 13.40'
- Total volume purged: 55 gallons

Well Developers Signature: _____

FIGURE

MACTEC Engineering and Consulting, Inc.

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Well Development Record

Well No.: MW-7

Project No.: 36120522034	Logged By: Brandon Shaw		
Client Name: NYSDEC	Project Name: Kentucky Ave I		Checked By:
Well Installation Date: 11/14/05	Start Date: 11/14/05		Finish Date: 11/14/05
Well Development Date: 11/18/05	Start Time: N/A		Finish Time: N/A
Initial Water Level (ft.): 13.02			
Water Level during **Initial** Pumping/Purging (ft).: N/A			
Water Level at **Termination** of Pumping/Purging (ft).: N/A			
Weather: N/A			

~~$\pi \cdot (3.14) = 31.18$ in^3 · (16.387 cm^3/in^3) = 511 total well Vol. (cm^3)~~

Height of Water Column: 9.93 (ft.)

x ___ 0.16 gal./ft. (2 in.)
x ___ 0.65 gal./ft. (4 in.)
___ 1.5 gal./ft. (6 in.)
___ gal./ft. (___ in.) = 1.59 Well Volume (gal./ft.)

5

Number of Well Volumes:	Time:	Temperature:	pH:	Conductivity:	Approximate Pumping Rate (gal./min.):	Turbidity (NTU's):
0	00:00	N/A	N/A	N/A	~1.0	N/A
34.6	02:00				1.0	1.27 NTU
		8 intervals				

Notes: Geologic NY, Inc developed the well (surged).

BOB: 22.95'
DTW: 13.01
> Water Column: 9.93'

- Total volume purged: 55 gallons

Well Developers Signature: _____

FIGURE

MACTEC Engineering and Consulting, Inc.

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NYSDOT GARAGE

HORSEHEADS, NEW YORK

WELL DEVELOPMENT TABLE

Well #	Description	Hours
MW-1	2.5 GPM, 55 Gallons Pumped, 86 NTU	1.5
MW-2	4.0 GPM, 55 Gallons Pumped, 139 NTU	1.0
MW-3	4.0 GPM, 55 Gallons Pumped, 44 NTU	1.25
MW-4	3.5 GPM, 55 Gallons Pumped, 132 NTU	1.5
MW-5	3.0 GPM, 55 Gallons Pumped, 112 NTU	3.0
MW-6	3.0 GPM, 55 Gallons Pumped, 103 NTU	1.5
MW-7	1.0 GPM, 55 Gallons Pumped, 127 NTU	2.0

11/18/05

Well Development Record

Well No.: MW-1

Project No.: 36120520314	Logged By: Brandon Shaw		
Client Name: NYSDEC	Project Name: Kentucky Ave I		Checked By:
Well Installation Date: 11/16/05		Start Date: 11/15/05	Finish Date: 11/16/05
Well Development Date: 11/18/05		Start Time: N/A	Finish Time: N/A

Initial Water Level (ft.): 22.45

Water Level during **Initial** Pumping/Purging (ft).: N/A

Water Level at **Termination** of Pumping/Purging (ft).: N/A

Weather: N/A

~~$\pi \cdot (3.14)^2 = 35.01$ in^3 water $\cdot$ (16.387 ml/in^3) = 594~~ Total well vol (ml)

Height of Water Column: 11.15 (ft.)

X 0.16 gal./ft. (2 in.)
x 0.65 gal./ft. (4 in.)
1.5 gal./ft. (6 in.)
gal./ft. (in.) = 1.78 Well Volume (gal./ft.)

5 / 8

Number of Well Volumes:	Time:	Temperature:	pH:	Conductivity:	Approximate Pumping Rate (gal./min.):	Turbidity (NTU's):
0	0000	N/A	N/A	N/A	2.5	N/A
30.9	0130				2.5	86 NTU.
		~~9 10/21/05~~				

Notes: · Total volume purged · 55 gallons
· Geologic NY, Inc. developed these wells.
· Water column · 11.15'
DTW: 22.45'
BOB: 33.6'

Well Developers Signature:

FIGURE

Well Development Record

Project No.: 3612052034	Logged By: Brandon Shaw	Well No.: MW-2
Client Name: NYSDEC	Project Name: Kentucky Ave I	Checked By:
Well Installation Date: 11/17/05	Start Date: 11/16/05	Finish Date: 11/17/05
Well Development Date: 11/18/05	Start Time: N/A	Finish Time: N/A

Initial Water Level (ft.): 20.13

Water Level during **Initial** Pumping/Purging (ft).: N/A

Water Level at **Termination** of Pumping/Purging (ft).: N/A

Weather: N/A

~~(3.14) = 37.59 in³ (16.387 ml/in³) = 616~~ ~~total well vol (m/s)~~

Height of Water Column: 11.97 (ft.) x 0.16 gal./ft. (2 in.)
x ______ 0.65 gal./ft. (4 in.)
______ 1.5 gal./ft. (6 in.)
______ gal./ft. (______ in.) = 1.92 Well Volume (gal./ft.)

Number of Well Volumes:	Time:	Temperature:	pH:	Conductivity:	Approximate Pumping Rate (gal./min.):	Turbidity (NTU's):
0	00:00	N/A	N/A	N/A	4.0	N/A
↓	↓	↓	↓	↓	↓	↓
28.6	01:00				4.0	139 NTU

12/21/05

Notes: Total volume purged: 55 gallons

- Geologic NY, Inc. developed these wells
- Water column: 11.97'
  D to water: 20.13'; BOB: 32.1'

Well Developers Signature: [signature]

FIGURE

Well Development Record

Well No.: MW-3

Project No.: 36120520324	Logged By: Brandon Shaw		
Client Name: NYSDEC	Project Name: Kentucky Ave I		Checked By:
Well Installation Date: 11/16/05		Start Date: 11/16/05	Finish Date: 11/16/05
Well Development Date: 11/18/05		Start Time: N/A	Finish Time: N/A

Initial Water Level (ft.): 14.14'

Water Level during **Initial** Pumping/Purging (ft).: N/A

Water Level at **Termination** of Pumping/Purging (ft).: N/A

Weather: N/A

~~$\pi \cdot (3.14) \cdot 40.69\ in^3 \cdot (16.387\ mL/in^3) = 6667$ total well vol (mL).~~

Height of Water Column: 12.96 (ft.)

x ___X___ 0.16 gal./ft. (2 in.)

x _____ 0.65 gal./ft. (4 in.)

_____ 1.5 gal./ft. (6 in.)

_____ gal./ft. (_____ in.) = 2.07 Well Volume (gal.) 5

Number of Well Volumes:	Time:	Temperature:	pH:	Conductivity:	Approximate Pumping Rate (gal./min.):	Turbidity (NTU's):
0	00:00	N/A	N/A	N/A	4.0	N/A
26.5	01:25	13/00/05			4.0	44 NTU

Notes: • Geologic NY, Inc developed wells for MACTEC w/ HACH 2100P

• BoB - 27.1'

Initial DTW = 14.14' → water column → 12.96'

• Total volume purged - 55 gallons

Well Developers Signature: _____

FIGURE

MACTEC Engineering and Consulting, Inc.

Well Development Record

Well No.: MW-4

Project No.: 36120520.34	Logged By: Brandon Shaw		
Client Name: NYSDEC	Project Name: Kentucky Ave I		Checked By:
Well Installation Date: 11/15/05		Start Date: 11/15/05	Finish Date: 11/15/05
Well Development Date: 11/18/05		Start Time: N/A	Finish Time: N/A

Initial Water Level (ft.): 13.96'

Water Level during **Initial** Pumping/Purging (ft).: N/A

Water Level at **Termination** of Pumping/Purging (ft).: N/A

Weather: N/A

~~Ht of water Column 11.09 (3.14) = ft² of water = 34.83 (16.387 ml/ft³) = 571 Well Volume (ml)~~ → Total

Height of Water Column: 11.09 (ft.)

x 0.16 gal./ft. (2 in.)
x 0.65 gal./ft. (4 in.)
1.5 gal./ft. (6 in.)
gal./ft. (in.) = 1.77 Well Volume (gal./ft.)

Number of Well Volumes:	Time:	Temperature:	pH:	Conductivity:	Approximate Pumping Rate (gal./min.):	Turbidity (NTU's):
0	00:00	N/A	N/A	N/A	3.5	N/A
3.1.0	01:30	12/21/05			3.5	132 NTU

Notes:

- Geologic NY, Inc. developed these wells.
- Water column = 11.09'
  - DTW = 13.96'
  - BOD = 25.05'
- Total Volume Purged = 55 gallons

Well Developers Signature: _____

FIGURE

MACTEC Engineering and Consulting, Inc.

Graphics\Misc.\Forms

Well Development Record

Well No.: MW-5

Project No.: 3612052034	Logged By: Brandon Shaw	
Client Name: NYSDEC	Project Name: Kentucky Ave. I	Checked By:
Well Installation Date: 11/15/05	Start Date: 11/15/05	Finish Date: 11/15/05
Well Development Date: 11/18/05	Start Time: N/A	Finish Time: N/A

Initial Water Level (ft.): 10.84'

Water Level during **Initial** Pumping/Purging (ft).: N/A

Water Level at **Termination** of Pumping/Purging (ft).: N/A

Weather: N/A

~~π (3.14) = 31.90 in³ (16.387 ml/in³) = 523 Total well vol (mVs)~~ 5

Height of Water Column: 10.16 (ft.) x 0.16 gal./ft. (2 in.)
x ______ 0.65 gal./ft. (4 in.)
______ 1.5 gal./ft. (6 in.)
______ gal./ft. (_____ in.) = 1.63 Well Volume (gal./~~ft.~~ 5)

Number of Well Volumes:	Time:	Temperature:	pH:	Conductivity:	Approximate Pumping Rate (gal./min.):	Turbidity (NTU's):
0	00:00	N/A	N/A	N/A	3.0	N/A
↓	↓	↓	↓	↓	↓	↓
33.7	03:00				3.0	112 NTU

10/20/05

Notes:

- Geologic NY, Inc developed the wells.
- Water column - 10.16'
  - D to W: 10.84'
  - BOB: 21'
- Total volume purged: 55 gallons

FIGURE

Well Developers Signature: [signature]

MACTEC Engineering and Consulting, Inc.

Graphics\Misc.\Forms

Well Development Record

Well No.: MW-6

Project No.: 36120520034	Logged By: Brandon Shew		
Client Name: NYSDEC	Project Name: Kentucky Ave. I		Checked By:
Well Installation Date: 11/15/05		Start Date: 11/14/05	Finish Date: 11/15/05
Well Development Date: 11/18/05		Start Time: N/A	Finish Time: N/A
Initial Water Level (ft.): 11.60'			
Water Level during **Initial** Pumping/Purging (ft).: N/A			
Water Level at **Termination** of Pumping/Purging (ft).: N/A			
Weather: N/A			

~~$\pi \cdot (3.14) =$ 42.08 in³ water (16.387 ml/in³) = 690 Total well vol (mL)~~

Height of Water Column: 13.40 (ft.)

x ___ 0.16 gal./ft. (2 in.)
x ___ 0.65 gal./ft. (4 in.)
___ 1.5 gal./ft. (6 in.)
___ gal./ft. (___ in.) = 2.14 Well Volume (gal./ft.)

Number of Well Volumes:	Time:	Temperature:	pH:	Conductivity:	Approximate Pumping Rate (gal./min.):	Turbidity (NTU's):
0	00:00	N/A	N/A	N/A	3.0	N/A
29.7	01:30				3.0	103 NTU.

Notes: Geologic NY, Inc. developed well (surging techniques.

- Bot. = 25'
  DtoW. = 11.60' } water column = 13.40'
- Total volume purged: 55 gallons

Well Developers Signature: _____

FIGURE

MACTEC Engineering and Consulting, Inc.

Graphics\Misc.\Forms

Well Development Record

Well No.: MW-7

Project No.: 36120522034	Logged By: Brandon Shaw		
Client Name: NYSDEC	Project Name: Kentucky Ave I		Checked By:
Well Installation Date: 11/14/05	Start Date: 11/14/05		Finish Date: 11/14/05
Well Development Date: 11/18/05	Start Time: N/A		Finish Time: N/A
Initial Water Level (ft.): 13.02			
Water Level during **Initial** Pumping/Purging (ft).: N/A			
Water Level at **Termination** of Pumping/Purging (ft).: N/A			
Weather: N/A			

~~$\pi \cdot (3.14) = 31.18$ in^3 · (16.387 cm^3/in^3) = 511 total well Vol. (cm^3)~~

Height of Water Column: 9.93 (ft.)

x ___ 0.16 gal./ft. (2 in.)
x ___ 0.65 gal./ft. (4 in.)
___ 1.5 gal./ft. (6 in.)
___ gal./ft. (___ in.) = 1.59 Well Volume (gal./ft.)

5

Number of Well Volumes:	Time:	Temperature:	pH:	Conductivity:	Approximate Pumping Rate (gal./min.):	Turbidity (NTU's):
0	00:00	N/A	N/A	N/A	~1.0	N/A
34.6	02:00				1.0	1.27 NTU
		8 intervals				

Notes: Geologic NY, Inc developed the well (surged).

BOB: 22.95'
DTW: 13.01
> Water Column: 9.93'

- Total volume purged: 55 gallons

Well Developers Signature: _____

FIGURE

MACTEC Engineering and Consulting, Inc.

Graphics\Misc.\Forms

Field Records:

Groundwater Round I

FIELD DATA RECORD - LOW FL V GROUNDWATER SAMPLING

PROJECT: NYSDEC-KY AVE SITE 1 | JOB NUMBER: 3612042034/10.2.2

LOCATION ID: mw-1 | FIELD SAMPLE ID: STMW001XXX01XX | EVENT NO.: 1

ACTIVITY: START 1310 END ~1630 | SAMPLE TIME: 1600 | DATE: 8 Dec 05

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [x] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING

INITIAL DEPTH TO WATER	22.45 feet	HISTORICAL WELL DEPTH (TOR)	33.6 feet	PROTECTIVE CASING STICKUP (FROM GROUND)	0 feet	CASING / WELL DIFFERENCE	11.15 feet
FINAL DEPTH TO WATER	22.45 feet	PID AMBIENT AIR	<0.1 ppmv			WELL DIAMETER	2 inches
SCREEN LENGTH	10 feet	PRESSURE TO PUMP	psi	PID WELL MOUTH	<0.1 ppmv		
TOTAL VOL. PURGED	9.4 gallons	REFILL SETTING		DISCHARGE SETTING	200		

(purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

WELL INTERGRITY:

INTEGRITY:	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED	✓		
COLLAR	✓		

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/m)	TEMP. (+/- deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH (units)	DISS. O2 (mg/L)	TURBIDITY (NTU)	REDOX (+/- mV)	PUMP INTAKE DEPTH (ft)	COMMENTS
1320	22.45	200	10.3	1.48	7.4	6.9	177	40	25'	
1325			11.0	1.44	7.4	5.8	124	25		
1330			11.1	1.46	7.3	5.6	108	42		
1335			11.2	1.47	7.3	5.6	92	50		
1340			10.9	1.49	7.3	5.7	98.5	61		
1400			11.0	1.49	7.3	5.7	168	64		
1420			10.7	1.50	7.3	5.7	128	72		
1440			10.8	1.49	7.3	6.0	72	75		
1500			10.9	1.48	7.3	6.0	70.1	83		
1520			10.6	1.48	7.3	6.0	59.9	87		
1540			11.0	1.48	7.3	6.0	52	88		
1550			10.9	1.48	7.3	6.0	38.2	86		
1600			10.8	1.48	7.3	6.0	31.1	84		Sample

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

[ ] DEDICATED MARSCHALK BLADDER
[ ] NON-DEDICATED MARSCHALK BLADDER
[x] OTHER Peristaltic - Geopump

TYPE OF TUBING

[x] HIGH DENSITY POLYETHYLENE
[ ] OTHER _____

ANALYTICAL PARAMETERS

CONTROL NUMBER _____

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS
[ ] VOCs - 25 ml Purge (low conc.)	OLCO2.1	HCL / 4 DEG. C	3 X 40 ML	[ ]	/ /
[x] VOCs - 5 ml Purge	OLMO4.2	HCL / 4 DEG. C	3 X 40 ML	[✓]	/ /
[x] SVOCs	OLMO4.2	4 DEG. C	2 X 1 L AG	[✓]	/
[x] PESTICIDES	OLMO4.2	4 DEG. C	2 X 1 L AG	[✓]	/
[x] METALS	ILM04.2	HNO3 to pH <2	1 X 500 ML P	[✓]	
[ ] MANGANESE / IRON -	SW846 6010	HNO3 to pH <2	1 X 500 ML P	[ ]	
[ ] SULFATE / CHLORIDE / ALKALINITY	USEPA 375.4 / 325.3 / 310.1	4 DEG. C	1 x 1 L P	[ ]	
[ ] NO2 - NO3	USEPA 353.2 / 354.1	H2SO4 to pH <2	1 X 500 ML P	[ ]	
[ ] TOC	USEPA 415.1	H2SO4 to pH <2	1 X 250 ML AG	[ ]	
[ ] METHANE / ETHANE / ETHYLENE	EPA Region 1	HCL / 4 DEG. C	3 X 40 ML	[ ]	/ /
[ ] OTHER _____				[ ]	/ /

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED YES [NO]

NOTES:

SIGNATURE: _____

CHECKED BY: _____

LOCATION NOTES

pump struggles @ 25' - set to full power @ 600 rpm.

FIELD DATA RECORD - LOW FL / GROUNDWATER SAMPLING

PROJECT: NYSDEC-KY AVE SITE 1 | JOB NUMBER: 3612042034/10.2.2

LOCATION ID: MW-2 | FIELD SAMPLE ID: STMW002XXX01XX | EVENT NO.: 1

ACTIVITY: START 0710 END ~1030 | SAMPLE TIME: 1020 | DATE: 9 Dec 05

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [✓] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING

INITIAL DEPTH TO WATER	20.13 feet	HISTORICAL WELL DEPTH (TOR)	32.1 feet	PROTECTIVE CASING STICKUP (FROM GROUND)	0 feet
FINAL DEPTH TO WATER	20.13 feet	PID AMBIENT AIR	<0.1 ppmv	CASING / WELL DIFFERENCE	11.97 feet
SCREEN LENGTH	10 feet	PRESSURE TO PUMP	— psi	PID WELL MOUTH	<0.1 ppmv	WELL DIAMETER	2 inches
TOTAL VOL. PURGED	6.74 gallons	REFILL SETTING	—	DISCHARGE SETTING	200 ml/m	

(purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

WELL INTERGRITY:

INTEGRITY:	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED	✓		
COLLAR	✓		

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/m)	TEMP. (+/- deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH (units)	DISS. O2 (mg/L)	TURBIDITY (NTU)	REDOX (+/- mV)	PUMP INTAKE DEPTH (ft)	COMMENTS
0710	20.13	200	9.3	1.43	6.8	8.7	<1.0	115		
820			10.0	1.40	7.2	8.7	19.6	28		
830			10.7	1.37	7.1	9.0	7.3	42		
840			10.6	1.42	7.2	8.2	7.6	95		
900			10.7	1.42	7.2	7.7	9.6	111		
915			10.9	1.42	7.3	7.9	<1.0	117		
930			10.7	1.43	7.3	7.8	<1.0	120		
1000			10.9	1.37	7.3	7.5	<1.0	125		
1010			10.3	1.41	7.3	7.5	<1.0	132		
1020			10.4	1.40	7.3	7.5	<1.0	133		Sample

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

[ ] DEDICATED MARSCHALK BLADDER
[ ] NON-DEDICATED MARSCHALK BLADDER
[X] OTHER Peristaltic - Geopump

TYPE OF TUBING

[X] HIGH DENSITY POLYETHYLENE
[ ] OTHER

ANALYTICAL PARAMETERS

CONTROL NUMBER

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS
[ ] VOCs - 25 ml Purge (low conc.)	OLCO2.1	HCL / 4 DEG. C	3 X 40 ML	[ ]	/ /
[X] VOCs - 5 ml Purge	OLMO4.2	HCL / 4 DEG. C	3 X 40 ML	[✓]	/ /
[X] SVOCs	OLMO4.2	4 DEG. C	2 X 1 L AG	[✓]	/
[X] PESTICIDES	OLMO4.2	4 DEG. C	2 X 1 L AG	[✓]	/
[X] METALS	ILM04.2	HNO3 to pH <2	1 X 500 ML P	[✓]	
[ ] MANGANESE / IRON -	SW846 6010	HNO3 to pH <2	1 X 500 ML P	[ ]	
[ ] SULFATE / CHLORIDE / ALKALINITY	USEPA 375.4 / 325.3 / 310.1	4 DEG. C	1 x 1 L P	[ ]	
[ ] NO2 - NO3	USEPA 353.2 / 354.1	H2SO4 to pH <2	1 X 500 ML P	[ ]	
[ ] TOC	USEPA 415.1	H2SO4 to pH <2	1 X 250 ML AG	[ ]	
[ ] METHANE / ETHANE / ETHYLENE	EPA Region 1	HCL / 4 DEG. C	3 X 40 ML	[ ]	/ /
[ ] OTHER				[ ]	/ /

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED YES [NO]

LOCATION NOTES

NOTES:

SIGNATURE:

CHECKED BY:

FIELD DATA RECORD - LOW FL / GROUNDWATER SAMPLING

PROJECT: NYSDEC-KY AVE SITE 1
JOB NUMBER: 3612042034/10.2.2
LOCATION ID: MW-3
FIELD SAMPLE ID: STMW03XXX01XX
EVENT NO.: 1
ACTIVITY: START 1150 END 1400
SAMPLE TIME: 1400
DATE: 12/9/05

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [✓] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING

INITIAL DEPTH TO WATER	14.14 feet	HISTORICAL WELL DEPTH (TOR)	27.1 feet	PROTECTIVE CASING STICKUP (FROM GROUND)	6 feet
FINAL DEPTH TO WATER	14.14 feet	PRESSURE TO PUMP	— psi	PID AMBIENT AIR	<1.0 ppmv
SCREEN LENGTH	10 feet	REFILL SETTING	—	PID WELL MOUTH	<1.0 ppmv
TOTAL VOL. PURGED	12.48 gallons			DISCHARGE SETTING	400 ml/min

CASING / WELL DIFFERENCE: 12.96 feet
WELL DIAMETER: 2 inches

WELL INTERGRITY:

INTEGRITY:	YES	NO	N/A
CAP	✓	—	—
CASING	✓	—	—
LOCKED	✓	—	—
COLLAR	✓	—	—

(purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/m)	TEMP. (+/- deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH (units)	DISS. O2 (mg/L)	TURBIDITY (NTU)	REDOX (+/- mV)	PUMP INTAKE DEPTH (ft)	COMMENTS
1200	14.14	400	9.7	1.34	7.5	9.1	38.2	89	20	
1205			11.6	1.32	7.1	7.6	109	66		
1210			11.9	1.34	7.3	7.8	98.5	86		
1215			11.8	1.34	7.3	8.1	57.9	89		
1230			11.8	1.37	7.3	7.5	119.	106		
1245			11.5	1.36	7.3	7.9	64.2	124		
1300			11.4	1.37	7.3	7.4	35.3	131		
1315			11.9	1.36	7.3	7.8	50	134		
1330			11.9	1.34	7.3	7.5	<1.0	139		
1345			11.9	1.34	7.3	7.6	<1.0	137		
1400			11.9	1.36	7.3	7.4	<1.0	138		Sample

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
[ ] DEDICATED MARSCHALK BLADDER
[ ] NON-DEDICATED MARSCHALK BLADDER
[X] OTHER Peristaltic - Geopump

TYPE OF TUBING
[X] HIGH DENSITY POLYETHYLENE
[ ] OTHER

ANALYTICAL PARAMETERS

CONTROL NUMBER

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS
[ ] VOCs - 25 ml Purge (low conc.)	OLCO2.1	HCL / 4 DEG. C	3 X 40 ML	[ ]	
[X] VOCs - 5 ml Purge	OLMO4.2	HCL / 4 DEG. C	3 X 40 ML	[✓]	
[X] SVOCs	OLMO4.2	4 DEG. C	2 X 1 L AG	[✓]	
[X] PESTICIDES	OLMO4.2	4 DEG. C	2 X 1 L AG	[✓]	
[X] METALS	ILM04.2	HNO3 to pH <2	1 X 500 ML P	[✓]	
[ ] MANGANESE / IRON -	SW846 6010	HNO3 to pH <2	1 X 500 ML P	[ ]	
[ ] SULFATE / CHLORIDE / ALKALINITY	USEPA 375.4 / 325.3 / 310.1	4 DEG. C	1 x 1 L P	[ ]	
[ ] NO2 - NO3	USEPA 353.2 / 354.1	H2SO4 to pH <2	1 X 500 ML P	[ ]	
[ ] TOC	USEPA 415.1	H2SO4 to pH <2	1 X 250 ML AG	[ ]	
[ ] METHANE / ETHANE / ETHYLENE	EPA Region 1	HCL / 4 DEG. C	3 X 40 ML	[ ]	
[ ] OTHER				[ ]	

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED YES [NO]

LOCATION NOTES

NOTES:

SIGNATURE:

CHECKED BY:

FIELD DATA RECORD - LOW FL / GROUNDWATER SAMPLING

PROJECT: NYSDEC-KY AVE SITE 1
JOB NUMBER: 3612042034/10.2.2
LOCATION ID: ~~mw-5~~ mw-4
FIELD SAMPLE ID: STMW104XXXXXXX
EVENT NO.: 1
ACTIVITY: START 1025 END 1300
SAMPLE TIME: 1230
DATE: 8 Dec 05

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [✓] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING

INITIAL DEPTH TO WATER	13.94 feet	HISTORICAL WELL DEPTH (TOR)	25.05 feet	PROTECTIVE CASING STICKUP (FROM GROUND)	0 feet
FINAL DEPTH TO WATER	14.0 feet	PID AMBIENT AIR	<0.1 ppmv	CASING / WELL DIFFERENCE	11.09 feet
SCREEN LENGTH	10 feet	PRESSURE TO PUMP	— psi	PID WELL MOUTH	<0.1 ppmv	WELL DIAMETER	2 inches
TOTAL VOL. PURGED	11.94 gallons	REFILL SETTING	—	DISCHARGE SETTING	400

(purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

WELL INTERGRITY:

INTEGRITY:	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED	✓		
COLLAR	✓		

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/m)	TEMP. (+/- deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH (units)	DISS. O2 (mg/L)	TURBIDITY (NTU)	REDOX (+/- mV)	PUMP INTAKE DEPTH (ft)	COMMENTS
1035	14.0	400	10.3	0.95	7.3	10.3	217	97	20	
1038			12.0	1.57	6.9	6.3	142	101		
1040			12.4	1.70	6.9	5.8	183	104		
1045			12.3	1.77	7.0	5.4	194	105		
1050			12.3	1.84	7.0	5.1	178	112		
1055			12.4	1.92	7.0	5.5	167	118		
1100			12.4	1.93	7.0	5.4	166	124		
1105			12.2	1.92	7.0	5.3	214	135		
1130			12.4	1.92	7.0	5.1	211	134		
1145			12.4	1.92	7.0	5.2	200	135		
1200			12.4	1.90	7.0	4.9	48	140		
1215			12.4	1.91	7.0	5.6	46	141		
1230			12.6	1.90	7.0	5.3	48	141		Sample

EQUIPMENT DOCUMENTATION

TYPE OF PUMP:
[ ] DEDICATED MARSCHALK BLADDER
[ ] NON-DEDICATED MARSCHALK BLADDER
[X] OTHER Peristaltic - Geopump

TYPE OF TUBING:
[X] HIGH DENSITY POLYETHYLENE
[ ] OTHER _____

ANALYTICAL PARAMETERS

CONTROL NUMBER _____

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS
[ ] VOCs - 25 ml Purge (low conc.)	OLCO2.1	HCL / 4 DEG. C	3 X 40 ML	[ ]	/ /
[X] VOCs - 5 ml Purge	OLMO4.2	HCL / 4 DEG. C	3 X 40 ML	[✓]	/ /
[X] SVOCs	OLMO4.2	4 DEG. C	2 X 1 L AG	[✓]	/
[X] PESTICIDES	OLMO4.2	4 DEG. C	2 X 1 L AG	[✓]	/
[X] METALS	ILM04.2	HNO3 to pH <2	1 X 500 ML P	[✓]	
[ ] MANGANESE / IRON -	SW846 6010	HNO3 to pH <2	1 X 500 ML P	[ ]	
[ ] SULFATE / CHLORIDE / ALKALINITY	USEPA 375.4 / 325.3 / 310.1	4 DEG. C	1 x 1 L P	[ ]	
[ ] NO2 - NO3	USEPA 353.2 / 354.1	H2SO4 to pH <2	1 X 500 ML P	[ ]	
[ ] TOC	USEPA 415.1	H2SO4 to pH <2	1 X 250 ML AG	[ ]	
[ ] METHANE / ETHANE / ETHYLENE	EPA Region 1	HCL / 4 DEG. C	3 X 40 ML	[ ]	/ /
[ ] OTHER _____				[ ]	/ /

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED YES [NO]

LOCATION NOTES

NOTES:

SIGNATURE: _____

CHECKED BY: _____

FIELD DATA RECORD - LOW FL / GROUNDWATER SAMPLING

PROJECT: NYSDEC-KY AVE SITE 1 | JOB NUMBER: 3612042034/10.2.2

LOCATION ID: mw-5 | FIELD SAMPLE ID: STmw0505XX0177XX | EVENT NO.: 1

ACTIVITY: START 0745 END 1000 | SAMPLE TIME: 0930 | DATE: 8 Dec 05

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [✓] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING

INITIAL DEPTH TO WATER	10.84 feet	HISTORICAL WELL DEPTH (TOR)	21 feet	PROTECTIVE CASING STICKUP (FROM GROUND)	0 feet
FINAL DEPTH TO WATER	10.84 feet	PID AMBIENT AIR	0.1 ppmv	CASING / WELL DIFFERENCE	10.16 feet
SCREEN LENGTH	10 feet	PRESSURE TO PUMP	— psi	PID WELL MOUTH	0.1 ppmv
TOTAL VOL. PURGED	8.32 gallons	REFILL SETTING	—	DISCHARGE SETTING	400
				WELL DIAMETER	2 inches

(purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

WELL INTERGRITY:

INTEGRITY:	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED	✓		
COLLAR	✓		

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/m)	TEMP. (+/- deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH (units)	DISS. O2 (mg/L)	TURBIDITY (NTU)	REDOX (+/- mV)	PUMP INTAKE DEPTH (ft)	COMMENTS
810	10.84	400	11.3	1.65	6.7	5.4	+++	144	15'	
812			12.4	1.58	7.0	4.4	>+	114		
815			12.5	1.58	7.1	4.3	947	110		
820			12.4	1.57	7.1	4.2	942	107		
830			12.5	1.57	7.1	3.7	528	74		
845			12.7	1.54	7.1	3.5	174	19		
900			12.8	1.55	7.1	3.4	75.7	18		
0915			12.7	1.55	7.0	3.5	53.2	24		
0925			12.7	1.55	7.1	3.5	21.2	23		
0930			12.9	1.54	7.0	3.4	14.3	30		Sample

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

[ ] DEDICATED MARSCHALK BLADDER
[ ] NON-DEDICATED MARSCHALK BLADDER
[X] OTHER Peristaltic - Geopump

TYPE OF TUBING

[X] HIGH DENSITY POLYETHYLENE
[ ] OTHER

ANALYTICAL PARAMETERS

CONTROL NUMBER

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS
[ ] VOCs - 25 ml Purge (low conc.)	OLCO2.1	HCL / 4 DEG. C	3 X 40 ML	[ ]	/ /
[X] VOCs - 5 ml Purge	OLMO4.2	HCL / 4 DEG. C	3 X 40 ML	[ ]	/ /
[X] SVOCs	OLMO4.2	4 DEG. C	2 X 1 L AG	[ ]	/
[X] PESTICIDES	OLMO4.2	4 DEG. C	2 X 1 L AG	[ ]	/
[X] METALS	ILM04.2	HNO3 to pH <2	1 X 500 ML P	[ ]	
[ ] MANGANESE / IRON -	SW846 6010	HNO3 to pH <2	1 X 500 ML P	[ ]	
[ ] SULFATE / CHLORIDE / ALKALINITY	USEPA 375.4 / 325.3 / 310.1	4 DEG. C	1 x 1 L P	[ ]	
[ ] NO2 - NO3	USEPA 353.2 / 354.1	H2SO4 to pH <2	1 X 500 ML P	[ ]	
[ ] TOC	USEPA 415.1	H2SO4 to pH <2	1 X 250 ML AG	[ ]	
[ ] METHANE / ETHANE / ETHYLENE	EPA Region 1	HCL / 4 DEG. C	3 X 40 ML	[ ]	/ /
[ ] OTHER				[ ]	/ /

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: (YES) [NO]

Petroleum odor in purge water

LOCATION NOTES

NOTES:

SIGNATURE:

CHECKED BY:

FIELD DATA RECORD - LOW FL / GROUNDWATER SAMPLING

PROJECT: NYSDEC-KY AVE SITE 1
JOB NUMBER: 3612042034/10.2.2
LOCATION ID: MW-4
FIELD SAMPLE ID: STMW006XXX01XX
EVENT NO.: 1
ACTIVITY: START 1315 END 1430
SAMPLE TIME: 1510
DATE: 7 Dec 05

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [✓] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING

INITIAL DEPTH TO WATER	11.6 feet	HISTORICAL WELL DEPTH (TOR)	25 feet	PROTECTIVE CASING STICKUP (FROM GROUND)	0 feet
FINAL DEPTH TO WATER	11.6 feet	PID AMBIENT AIR	<0.1 ppmv	CASING / WELL DIFFERENCE	13.4 feet
SCREEN LENGTH	10 feet	PRESSURE TO PUMP	— psi	PID WELL MOUTH	<0.1 ppmv
TOTAL VOL. PURGED	10.01 gallons	REFILL SETTING	—	DISCHARGE SETTING	350
				WELL DIAMETER	2 inches

(purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

WELL INTERGRITY:

INTEGRITY:	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED	✓		
COLLAR	✓		

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/m)	TEMP. (+/- deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH (units)	DISS. O2 (mg/L)	TURBIDITY (NTU)	REDOX (+/- mV)	PUMP INTAKE DEPTH (ft)	COMMENTS
1320	11.6	350	12.5	2.21	7.3	7.4	84.4	154	20	
1322			12.6	2.21	7.2	5.4	67.8	162		
1325			12.7	2.22	7.2	4.8	26.0	160		
1330			12.9	2.22	7.2	4.7	27.7	165		
1335			12.4	2.23	7.2	4.8	36.6	168		
1345			12.5	2.21	7.2	5.1	41.5	175		
1400			12.5	2.22	7.2	4.9	48.2	178		
1415			12.4	2.24	7.2	4.9	55.7	186		
1430			12.5	2.25	7.2	4.9	52.1	191		
1445			12.1	2.17	7.2	5.0	35.7	197		
1500			12.1	2.19	7.2	4.8	35.1	195		
1510			12.1	2.17	7.2	4.9	33.2	197	✓	SAMPLE

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [ ] DEDICATED MARSCHALK BLADDER
- [ ] NON-DEDICATED MARSCHALK BLADDER
- [X] OTHER Peristaltic - Geopump

TYPE OF TUBING
- [X] HIGH DENSITY POLYETHYLENE
- [ ] OTHER

ANALYTICAL PARAMETERS

CONTROL NUMBER

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS
[ ] VOCs - 25 ml Purge (low conc.)	OLCO2.1	HCL / 4 DEG. C	3 X 40 ML	[ ]	/ /
[X] VOCs - 5 ml Purge	OLMO4.2	HCL / 4 DEG. C	3 X 40 ML	[✓]	/ /
[X] SVOCs	OLMO4.2	4 DEG. C	2 X 1 L AG	[✓]	/
[X] PESTICIDES	OLMO4.2	4 DEG. C	2 X 1 L AG	[✓]	/
[X] METALS	ILM04.2	HNO3 to pH <2	1 X 500 ML P	[✓]	
[ ] MANGANESE / IRON -	SW846 6010	HNO3 to pH <2	1 X 500 ML P	[ ]	
[ ] SULFATE / CHLORIDE / ALKALINITY	USEPA 375.4 / 325.3 / 310.1	4 DEG. C	1 x 1 L P	[ ]	
[ ] NO2 - NO3	USEPA 353.2 / 354.1	H2SO4 to pH <2	1 X 500 ML P	[ ]	
[ ] TOC	USEPA 415.1	H2SO4 to pH <2	1 X 250 ML AG	[ ]	
[ ] METHANE / ETHANE / ETHYLENE	EPA Region 1	HCL / 4 DEG. C	3 X 40 ML	[ ]	/ /
[ ] OTHER				[ ]	/ /

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED YES [NO]

LOCATION NOTES

NOTES:

SIGNATURE:

CHECKED BY:

FIELD DATA RECORD - LOW FL V GROUNDWATER SAMPLING

PROJECT: NYSDEC-KY AVE SITE 1 | JOB NUMBER: 3612042034/10.2.2

LOCATION ID: MW-7 | FIELD SAMPLE ID: STMW007XXX01XX | EVENT NO.: 1

ACTIVITY: START 0930 END 1310 | SAMPLE TIME: 1200 | DATE: 7 DEC 05

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [✓] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING

INITIAL DEPTH TO WATER	13.02 feet	HISTORICAL WELL DEPTH (TOR)	22.95 feet	PROTECTIVE CASING STICKUP (FROM GROUND)	0 feet
FINAL DEPTH TO WATER	13.01 feet	PID AMBIENT AIR	0.1 ppmv	CASING / WELL DIFFERENCE	9.93 feet
SCREEN LENGTH	10' feet	PRESSURE TO PUMP	— psi	PID WELL MOUTH	0.1 ppmv
TOTAL VOL. PURGED	7.28 gallons	REFILL SETTING	—	DISCHARGE SETTING	250
				WELL DIAMETER	2 inches

(purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

WELL INTERGRITY:

INTEGRITY:	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED	✓		
COLLAR	✓		

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/m)	TEMP. (+/- deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH (units)	DISS. O2 (mg/L)	TURBIDITY (NTU)	REDOX (+/- mV)	PUMP INTAKE DEPTH (ft)	COMMENTS
1012	13.0	250	10.8	1.59	6.49	8.2	6.4	171	17.95	
1015	13.0		9.9	1.65	7.1	7.1	2.1	153		
1018			10.4	1.61	7.2	6.7	4.6	174		
1020			10.9	1.59	7.2	6.7	<1.0	136		
1025			10.4	1.62	7.3	6.9	4.7	106		
1030			10.7	1.61	7.3	7.4	<1.0	92		
1045			10.3	1.56	7.3	6.7	<1.0	109		
1100			10.3	1.54	7.3	6.6	<1.0	124		
1115			10.8	1.57	7.3	6.8	<1.0	136		
1130			10.4	1.57	7.3	6.8	<1.0	142		
1145			10.4	1.57	7.3	6.8	<1.0	141		
1200			10.3	1.56	7.3	6.8	<1.0	142		Sample Time

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

[ ] DEDICATED MARSCHALK BLADDER
[ ] NON-DEDICATED MARSCHALK BLADDER
[X] OTHER Peristaltic - Geopump

TYPE OF TUBING

[X] HIGH DENSITY POLYETHYLENE
[ ] OTHER

ANALYTICAL PARAMETERS

CONTROL NUMBER

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS
[ ] VOCs - 25 ml Purge (low conc.)	OLCO2.1	HCL / 4 DEG. C	3 X 40 ML	[ ]	/ /
[X] VOCs - 5 ml Purge - 2 bottles per	OLMO4.2	~~HCL / 4 DEG. C~~	~~3 X 40 ML~~	[✓]	/ /
[X] SVOCs - 1 L amber	OLMO4.2	~~4 DEG. C~~	~~2 X 1 L AG~~	[✓]	/
[X] PESTICIDES - 2 L amber	OLMO4.2	~~4 DEG. C~~	~~2 X 1 L AG~~	[✓]	/
[X] METALS - 1 L amber	ILM04.2	~~HNO3 to pH <2~~	~~1 X 500 ML P~~	[✓]	
[ ] MANGANESE / IRON -	SW846 6010	HNO3 to pH <2	1 X 500 ML P	[ ]	
[ ] SULFATE / CHLORIDE / ALKALINITY	USEPA 375.4 / 325.3 / 310.1	4 DEG. C	1 x 1 L P	[ ]	
[ ] NO2 - NO3 1 pint	USEPA 353.2 / 354.1	H2SO4 to pH <2	1 X 500 ML P	[ ]	
[ ] TOC	USEPA 415.1	H2SO4 to pH <2	1 X 250 ML AG	[ ]	
[ ] METHANE / ETHANE / ETHYLENE	EPA Region 1	HCL / 4 DEG. C	3 X 40 ML	[ ]	/ /
[ ] OTHER				[ ]	/ /

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED YES [NO]

LOCATION NOTES

Also Collected MS/MSD/Dup @ this location

NOTES:

SIGNATURE:

CHECKED BY:

Field Records:

Ground Water Round II

FIELD DATA RECORD - GROUNDWATER SAMPLING

PROJECT: NYSDEC - Kentucky Ave | SAMPLE NUMBER: STMW001025022K | STUDY AREA / AOC: MW-1
SITE ID: ST | SITE TYPE: DEC | DATE: 03/28/06
ACTIVITY: START 0935 END 1052 | JOB NUMBER: 361205.0224 | FILE TYPE: /
WEATHER: 34°F, Sunny

WATER LEVEL / WELL DATA

MEASURED WELL DEPTH	34.19 FT (TOR)	HISTORICAL WELL DEPTH	33.6 FT (TOR)	PROTECTIVE CASING STICKUP (FROM GROUND)	/ FT
DEPTH TO WATER	22.95 FT (TOR)	SCREEN LENGTH	10 FT	WELL DIAMETER	2 IN
HEIGHT OF WATER COLUMN	11.24 FT	x 0.16 GAL/FT (2 INCH WELL) =	3.60 GAL/VOL	PROTECTIVE CASING / WELL DIFFERENCE	/ FT
PID AMBIENT AIR	1.0 PPM	PID WELL MOUTH	1.0 PPM	TOTAL VOLUME PURGED	17000 ~~GAL~~

WELL MATERIAL: Sch 40 PVC

WELL INTEGRITY:

	YES	NO	N/A
CAP	✓		
CASING	✓		
COLLAR	✓		
LOCKED	✓		

PURGE DATA

TIME: 0956 | 1001 | 1006 | 1011 | 1016 | 1021 | 1030 - Sample Time

~~PURGE VOLUME (gallons)~~ DTW	22.95	22.95	22.95	22.95	22.95	22.95	
PURGE RATE (~~gpm~~ ml/min)	250	250	250	250	250	250	
TEMPERATURE (degreesC)	11.6	11.7	11.8	11.8	11.8	11.8	
pH (units)	8.1	7.7	7.6	7.6	7.6	7.6	
TURBIDITY (ntu)	38	50	45	37	30	29	
SPEC. COND. (uhmos/cm)	1.31	1.30	1.30	1.30	1.30	1.29	
~~TURBIDITY (ntu)~~ DO	6.54	5.57	5.59	5.67	5.60	5.67	
REDOX POTENTIAL (+/- mv)	230	200	190	180	170	160	

SAMPLE OBSERVATIONS:
- [ ] CLEAR
- [ ] COLORED
- [✓] CLOUDY Slight
- [ ] TURBID
- [ ] ODOR
- [ ] OTHER (see notes)

1048 - Pump off

0940 - Pump on

EQUIPMENT DOCUMENTATION

PURGING	SAMPLING	
[✓]	[✓]	PERISTALTIC PUMP
[ ]	[ ]	SUBMERSIBLE PUMP
[ ]	[ ]	BLADDER PUMP
[✓]	[ ]	PVC/SILICON TUBING
[ ]	[✓]	TEFLON/SILICON TUBING
[ ]	[ ]	BAILER
[ ]	[ ]	IN LINE FILTER

DECON FLUIDS USED:
- [ ] ALKINOX
- [✓] LIQUINOX
- [✓] POTABLE WATER
- [ ] DEIONIZED WATER
- [ ] STEAM CLEANING
- [ ] NITRIC ACID

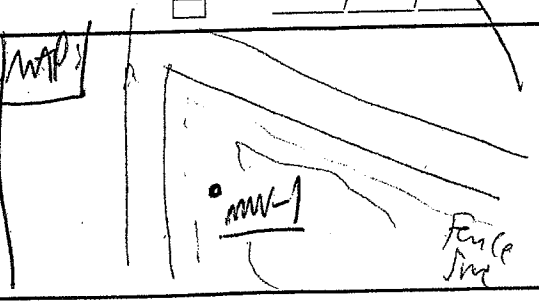
WATER LEVEL EQUIPMENT USED:
- [✓] ELECTRIC COND. PROBE
- [ ] FLOAT ACTIVATED
- [ ] KECK INTERFACE PROBE

NUMBER OF FILTERS USED: 0

ANALYTICAL PARAMETERS

	METHOD NUMBER	FRACTION CODE	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[✓] VOC	OLM04.2		HCL / 4 DEG. C	2 X 40 ML	[ ]	
[ ] VOC			HCL / 4 DEG. C	3 X 40 ML	[✓]	
[✓] SVOC			4 DEG. C	2 X 1 L AG	[✓]	
[✓] PEST / PCBs			4 DEG. C	2 X 1 L AG	[✓]	
[ ] HERBICIDES			4 DEG. C	2 X 1 L AG	[ ]	
[✓] TAL INORGANICS Total metals			HNO3 to pH <2	1 x ~~1 L P~~ 500ml	[✓]	
[ ] SULFATE NITRATE/NITRITE	USEPA 300		4 DEG. C	1 X 50 ML P	[ ]	
[ ] SULFIDE	USEPA 376.1		NAOH to pH >9	1 X 500 ML P	[ ]	
[ ] IRON ONLY			HNO3 to pH <2	1 x 1 L P-Cube	[ ]	
[ ] FERROUS IRON	FIELD METHOD		–	–	[ ]	
[ ] TOTAL PHOSPHORUS	USEPA-365.4		H2SO4 to pH <2	1 X 50 ML P	[ ]	
[ ] MANGANESE ONLY			HNO3 to pH <2	1 X 1 L P	[ ]	
[ ] AMMONIA NIROGEN	USEPA-350.1		H2SO4 to pH <2	1 X 400 ML P	[ ]	
[ ] TOC	USEPA-415.1				[ ]	
[ ] TSS ONLY	USEPA-160.2		4 DEG. C	1 X 1 L P	[ ]	
[ ] OTHER					[ ]	

NOTES: Duplicate / MS / MSD collected were MW-1



SIGNATURE: _____

RECEIVED BY: _____

FIELD DATA RECORD - GROUNDWATER SAMPLING

PROJECT: NYSDEC - Kentucky Ave | SAMPLE NUMBER: STMW002025 02RK | STUDY AREA / AOC: MW-2
SITE ID: ST | SITE TYPE: DEC | DATE: 03/28/a
ACTIVITY: START 1058 END 1210 | JOB NUMBER: 361205 2032 | FILE TYPE: ✓
WEATHER: 35 F / SU

WATER LEVEL / WELL DATA

MEASURED WELL DEPTH	32.66 FT (TOR)	HISTORICAL WELL DEPTH	32.1 FT (TOR)	PROTECTIVE CASING STICKUP (FROM GROUND)	✓ FT
PROTECTIVE CASING / WELL DIFFERENCE	✓ FT	DEPTH TO WATER	20.58 FT (TOR)	SCREEN LENGTH	10 FT
WELL DIAMETER	2 IN	WELL MATERIAL	Sch 40 PVC	HEIGHT OF WATER COLUMN	12.08 FT
x 0.16 GAL/FT (2 INCH WELL) =	3.87 GAL/VOL	PID AMBIENT AIR	41.0 PPM	PID WELL MOUTH	41.0 PPM
TOTAL VOLUME PURGED	14700 ~~GAL~~ WG				

WELL INTEGRITY:

	YES	NO	N/A
CAP	✓		
CASING	✓		
COLLAR	✓		
LOCKED	✓		

PURGE DATA

1115 - Pump ON TIME: 1120 | 1125 | 1130 | 1135 | 1140 | 1145 | 1150 - Sample Time

~~PURGE VOLUME~~ (gallons)	20.54	20.60	20.60	20.60	20.60	20.60
PURGE RATE (~~gpm~~) ml/min	300	300	300	300	300	300
TEMPERATURE (degreesC)	11.8	11.9	12.0	12.0	12.0	12.1
pH (units)	7.5 / 8.8	7.4	7.5	7.5	7.5	7.5
TURBIDITY (ntu)	15	7.1	6.2	5.1	4.2	
SPEC. COND. (uhmos/cm)	1.32	1.31	1.31	1.31	1.31	1.31
~~TURBIDITY (ntu)~~ DO	6.53	6.23	6.19	6.20	6.18	6.26
REDOX POTENTIAL (+/- mv)	220	210	200	190	190	180

SAMPLE OBSERVATIONS:
- ✓ CLEAR
- ☐ COLORED _____
- ☐ CLOUDY _____
- ☐ TURBID _____
- ☐ ODOR _____
- ☐ OTHER (see notes)

1204 - Pump off

EQUIPMENT DOCUMENTATION

PURGING	SAMPLING	
☐	✓	PERISTALTIC PUMP
☐	☐	SUBMERSIBLE PUMP
☐	✓	BLADDER PUMP
✓	✓	PVC/SILICON TUBING
✓	✓	TEFLON/SILICON TUBING
☐	☐	BAILER
☐	☐	IN LINE FILTER

DECON FLUIDS USED:
- ☐ ALKINOX
- ✓ LIQUINOX
- ✓ POTABLE WATER
- ✓ DEIONIZED WATER
- ☐ STEAM CLEANING
- ☐ NITRIC ACID
- _____

WATER LEVEL EQUIPMENT USED:
- ✓ ELECTRIC COND. PROBE
- ☐ FLOAT ACTIVATED
- ☐ KECK INTERFACE PROBE
- _____

NUMBER OF FILTERS USED: 10

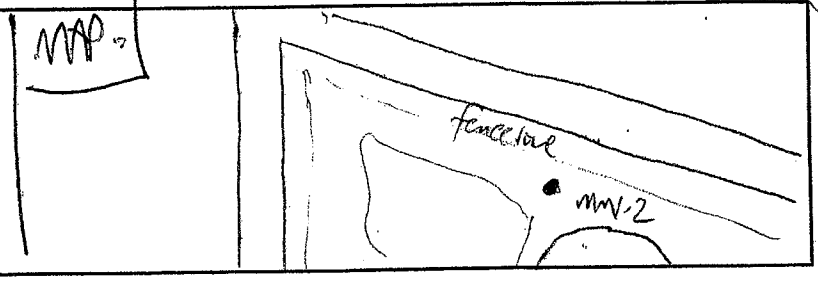
ANALYTICAL PARAMETERS

	METHOD NUMBER	FRACTION CODE	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
✓ VOC	OLM04.2		HCL / 4 DEG. C	2 X 40 ML	☐	
✓ VOC			HCL / 4 DEG. C	3 X 40 ML	✓	
✓ ~~VOC~~			4 DEG. C	1 X 1 L AG	✓	
✓ PEST / PCBs			4 DEG. C	2 X 1 L AG	✓	
☐ HERBICIDES			4 DEG. C	2 X 1 L AG	☐	
✓ PAL INORGANICS TAL metals			HNO3 to pH <2	1 x 1 L P	☐	
☐ SULFATE NITRATE/NITRITE	USEPA 300		4 DEG. C	1 X 50 ML P	☐	
☐ SULFIDE	USEPA 376.1		NAOH to pH >9	1 X 500 ML P	☐	
☐ IRON ONLY			HNO3 to pH <2	1 x 1 L P-Cube	☐	
☐ FERROUS IRON	FIELD METHOD		–	–	☐	
☐ TOTAL PHOSPHORUS	USEPA-365.4		H2SO4 to pH <2	1 X 50 ML P	☐	
☐ MANGANESE ONLY			HNO3 to pH <2	1 X 1 L P	☐	
☐ AMMONIA NIROGEN	USEPA-350.1		H2SO4 to pH <2	1 X 400 ML P	☐	
☐ TOC	USEPA-415.1				☐	
☐ TSS ONLY	USEPA-160.2		4 DEG. C	1 X 1 L P	☐	
☐ OTHER					☐	

NOTES

SIGNATURE: _____

RECEIVED BY: _____



FIELD DATA RECORD - GROUNDWATER SAMPLING

PROJECT	NYSDEC - Kentucky Ave	SAMPLE NUMBER	STMW00302002XX	STUDY AREA / AOC	MW-3
SITE ID	ST	SITE TYPE	DEC	DATE	03/28/06
ACTIVITY	START 1215 END 1305	JOB NUMBER	36120532034	FILE TYPE	/
				WEATHER	40°F / PC

WATER LEVEL / WELL DATA

MEASURED WELL DEPTH	27.69 FT (TOR)	HISTORICAL WELL DEPTH	27.1 FT (TOR)	PROTECTIVE CASING STICKUP (FROM GROUND)	/ FT	PROTECTIVE CASING / WELL DIFFERENCE	/ FT
DEPTH TO WATER	14.55 FT (TOR)	SCREEN LENGTH	10 FT	WELL DIAMETER	2 IN	WELL MATERIAL	Sch 40 PVC.
HEIGHT OF WATER COLUMN	13.14 FT	x0.16 GAL/FT (2 INCH WELL) =	4.20 GAL/VOL				
PID AMBIENT AIR	<1.0 PPM	PID WELL MOUTH	<1.0 PPM	TOTAL VOLUME PURGED	19200 ml ~~GAL~~		

WELL INTEGRITY:	YES	NO	N/A
CAP	✓		
CASING	✓		
COLLAR	✓		
LOCKED	✓		

PURGE DATA

1218 - Pump on

TIME:	1220	1225	1230	1235	1240	1245
~~PURGE VOLUME (gallons)~~ DTW	14.55	14.55	14.55	14.55	14.55	14.55
PURGE RATE (~~gpm~~) ml/min	400	400	400	400	400	400
TEMPERATURE (degreesC)	10.9	11.0	11.0	11.0	11.0	11.0
pH (units)	7.6	7.5	7.5	7.5	7.5	7.5
TURBIDITY (ntu)	5.75	3.28	4.20	2.31	2.21	2.42
SPEC. COND. (uhmos/cm)	1.36	1.35	1.35	1.35	1.35	1.35
~~TURBIDITY (ntu)~~ DO	8.14	7.24	7.21	7.30	7.28	7.31
REDOX POTENTIAL (+/- mv)	240	230	230	220	210	210

1300 - Sample Time

SAMPLE OBSERVATIONS:
- [x] CLEAR
- [ ] COLORED ______
- [ ] CLOUDY ______
- [ ] TURBID ______
- [ ] ODOR ______
- [ ] OTHER (see notes)

1306 - Pump off

EQUIPMENT DOCUMENTATION

PURGING	SAMPLING	
✓	✓	PERISTALTIC PUMP
		SUBMERSIBLE PUMP
		BLADDER PUMP
		PVC/SILICON TUBING
✓	✓	TEFLON/SILICON TUBING
		BAILER
		IN LINE FILTER

DECON FLUIDS USED
- [ ] ALKINOX
- [x] LIQUINOX
- [ ] POTABLE WATER
- [x] DEIONIZED WATER
- [ ] STEAM CLEANING
- [ ] NITRIC ACID

WATER LEVEL EQUIPMENT USED
- [x] ELECTRIC COND. PROBE
- [ ] FLOAT ACTIVATED
- [ ] KECK INTERFACE PROBE

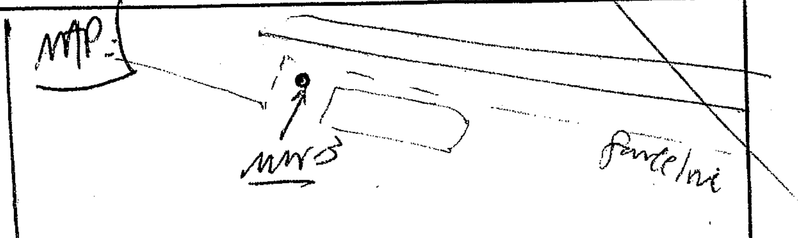
NUMBER OF FILTERS USED Ø

ANALYTICAL PARAMETERS

		METHOD NUMBER	FRACTION CODE	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[ ]	VOC	OLM04.2		HCL / 4 DEG. C	2 X 40 ML	[ ]	/ /
[x]	VOC			HCL / 4 DEG. C	3 X 40 ML	[x]	/ /
[x]	SVOC			4 DEG. C	1 X 1 L AG	[x]	/ /
[x]	PEST / PCBs			4 DEG. C	2 X 1 L AG	[x]	/ /
[ ]	HERBICIDES			4 DEG. C	2 X 1 L AG	[ ]	/ /
[x]	~~PAL~~ INORGANICS TAL metals			HNO3 to pH <2	1 x ~~1 L P~~ 500mL	[x]	/ /
[ ]	SULFATE NITRATE/NITRITE	USEPA 300		4 DEG. C	1 X 50 ML P	[ ]	/ /
[ ]	SULFIDE	USEPA 376.1		NAOH to pH >9	1 X 500 ML P	[ ]	/ /
[ ]	IRON ONLY			HNO3 to pH <2	1 x 1 L P-Cube	[ ]	/ /
[ ]	FERROUS IRON	FIELD METHOD		-	-	[ ]	/ /
[ ]	TOTAL PHOSPHORUS	USEPA-365.4		H2SO4 to pH <2	1 X 50 ML P	[ ]	/ /
[ ]	MANGANESE ONLY			HNO3 to pH <2	1 X 1 L P	[ ]	/ /
[ ]	AMMONIA NIROGEN	USEPA-350.1		H2SO4 to pH <2	1 X 400 ML P	[ ]	/ /
[ ]	TOC	USEPA-415.1				[ ]	/ /
[ ]	TSS ONLY	USEPA-160.2		4 DEG. C	1 X 1 L P	[ ]	/ /
[ ]	OTHER					[ ]	/ /

NOTES

MAP:



SIGNATURE: ______

RECEIVED BY: ______

FIELD DATA RECORD - GROUNDWATER SAMPLING

PROJECT: NYSEC - Kentucky Ave | SAMPLE NUMBER: MW004020022K | STUDY AREA / AOC: MW 4
SITE ID: ST | SITE TYPE: DEC | DATE: 03/29/06
ACTIVITY: START 0805 END 0916 | JOB NUMBER: 361205203 4. | FILE TYPE: /
WEATHER: 29°F Sunny

WATER LEVEL / WELL DATA

MEASURED WELL DEPTH	25.66 FT (TOR)	HISTORICAL WELL DEPTH	25.05 FT (TOR)	PROTECTIVE CASING STICKUP (FROM GROUND)	/ FT	PROTECTIVE CASING / WELL DIFFERENCE	/ FT
DEPTH TO WATER	14.38 FT (TOR)	SCREEN LENGTH	10 FT	WELL DIAMETER	2 IN	WELL MATERIAL	Sch 40 PVC
HEIGHT OF WATER COLUMN	11.28 FT	x 0.16 GAL/FT (2" INCH WELL) =	3.61 GAL/VOL				
PID AMBIENT AIR	0.0 PPM	PID WELL MOUTH	0.0 PPM	TOTAL VOLUME PURGED	16.00 GAL		

WELL INTEGRITY:

	YES	NO	N/A
CAP	✓		
CASING	✓		
COLLAR	✓		
LOCKED	✓		

PURGE DATA

Begin Purge TIME: 0823

	0823	0828	0833	0838	0843	0848
~~PURGE VOLUME (gallons)~~ DTW	14.40	14.41	14.41	14.41	14.41	14.41
PURGE RATE (~~gpm~~ ml/min)	350	350	350	350	350	350
TEMPERATURE (degrees C)	10.6	10.7	10.7	10.8	10.8	10.8
pH (units)	6.5	6.8	7.0	7.1	7.2	7.2
TURBIDITY (ntu)	6.14	5.78	3.32	2.81	1.75	1.59
SPEC. COND. (uhmos/cm)	1.39	1.39	1.39	1.36	1.38	1.39
~~TURBIDITY (ntu)~~ DO	7.02	6.34	6.55	6.51	6.56	6.50
REDOX POTENTIAL (+/- mv)	320	280	270	250	240	230

0900 - pump off

SAMPLE OBSERVATIONS:
- [✓] CLEAR
- [ ] COLORED _____
- [ ] CLOUDY _____
- [ ] TURBID _____
- [ ] ODOR _____
- [ ] OTHER (see notes)

0900 Sample Time

EQUIPMENT DOCUMENTATION

PURGING	SAMPLING	
	✓	PERISTALTIC PUMP
		SUBMERSIBLE PUMP
		BLADDER PUMP
✓	✓	PVC/SILICON TUBING
		TEFLON/SILICON TUBING
		BAILER
		IN LINE FILTER

DECON FLUIDS USED:
- [ ] ALKINOX
- [1] LIQUINOX
- [ ] POTABLE WATER
- [✓] DEIONIZED WATER
- [ ] STEAM CLEANING
- [ ] NITRIC ACID
- _____

WATER LEVEL EQUIPMENT USED:
- [✓] ELECTRIC COND. PROBE
- [ ] FLOAT ACTIVATED
- [ ] KECK INTERFACE PROBE
- _____

NUMBER OF FILTERS USED: 0

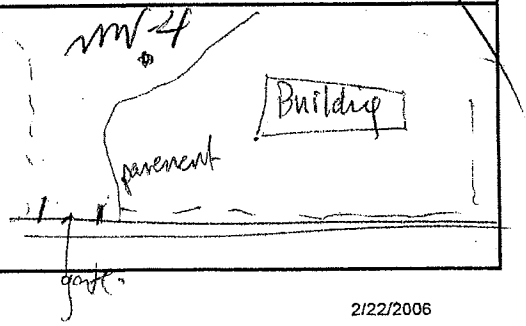
ANALYTICAL PARAMETERS

	METHOD NUMBER	FRACTION CODE	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
~~VOC~~	OLM04.2		HCL / 4 DEG. C	2 X 40 ML		
✓ VOC			HCL / 4 DEG. C	3 X 40 ML	✓	
✓ ~~SVOC~~			4 DEG. C	~~2~~ X 1 L AG	✓	
✓ PEST / PCBs			4 DEG. C	2 X 1 L AG	✓	
HERBICIDES			4 DEG. C	2 X 1 L AG		
✓ TAL INORGANICS TAL metals			HNO3 to pH <2	1 x 1 ~~L~~ P 500ml	✓	
SULFATE NITRATE/NITRITE	USEPA 300		4 DEG. C	1 X 50 ML P		
SULFIDE	USEPA 376.1		NAOH to pH >9	1 X 500 ML P		
IRON ONLY			HNO3 to pH <2	1 x 1 L P-Cube		
FERROUS IRON	FIELD METHOD		–	–		
TOTAL PHOSPHORUS	USEPA-365.4		H2SO4 to pH <2	1 X 50 ML P		
MANGANESE ONLY			HNO3 to pH <2	1 X 1 L P		
AMMONIA NIROGEN	USEPA-350.1		H2SO4 to pH <2	1 X 400 ML P		
TOC	USEPA-415.1					
TSS ONLY	USEPA-160.2		4 DEG. C	1 X 1 L P		
OTHER						

NOTES

SIGNATURE: _____

RECEIVED BY: _____



FIELD DATA RECORD - GROUNDWATER SAMPLING

PROJECT: NYSDEC - Kentucky Ave
SITE ID: ST
ACTIVITY: START 1021 END 1120

SAMPLE NUMBER: STMW0050150 2XX
SITE TYPE: DEC
JOB NUMBER: 3612052034

STUDY AREA / AOC: MW-5
DATE: 03/29/06
FILE TYPE: —
WEATHER: 39°F / Sunny

WATER LEVEL / WELL DATA

MEASURED WELL DEPTH	21.59 FT (TOR)	HISTORICAL WELL DEPTH	21' FT (TOR)	PROTECTIVE CASING STICKUP (FROM GROUND)	— FT
DEPTH TO WATER	11.31 FT (TOR)	SCREEN LENGTH	10 FT	WELL DIAMETER	2 IN
PROTECTIVE CASING / WELL DIFFERENCE	— FT	WELL MATERIAL	Sch 40 PVC		

HEIGHT OF WATER COLUMN 10.28 FT x 0.16 GAL/FT (2 INCH WELL) = 3.29 GAL/VOL

PID AMBIENT AIR <1.0 PPM PID WELL MOUTH <1.0 PPM TOTAL VOLUME PURGED 18400 ~~GAL~~ ml

WELL INTEGRITY	YES	NO	N/A
CAP	✓		
CASING	✓		
COLLAR	✓		
LOCKED	✓		

PURGE DATA

1024 - Pump on

TIME:	1026	1031	1036	1041	1046	1051
~~PURGE VOLUME (gallons)~~ DTW	11.37	11.37	11.37	11.37	11.37	11.37
PURGE RATE (~~gpm~~) ml/min	400	400	400	400	400	400
TEMPERATURE (degreesC)	11.0	11.0	11.2	11.3	11.3	11.3
pH (units)	7.3	7.2	7.2	7.2	7.2	7.2
TURBIDITY (ntu)	110	500	2.6	2.6	2.5	2.3
SPEC. COND. (uhmos/cm)	1.32	1.32	1.32	1.32	1.31	1.32
~~TURBIDITY (ntu)~~ DO	2.50	1.09	2.48	1.93	1.91	1.89
REDOX POTENTIAL (+/- mv)	-80	-80	-80	-80	-80	-80

1100 - Sample Time

SAMPLE OBSERVATIONS:
- [x] CLEAR
- [ ] COLORED
- [ ] CLOUDY
- [ ] TURBID
- [ ] ODOR
- [ ] OTHER (see notes)

1110 - Pump off

EQUIPMENT DOCUMENTATION

PURGING	SAMPLING	
✓	✓	PERISTALTIC PUMP
		SUBMERSIBLE PUMP
		BLADDER PUMP
		PVC/SILICON TUBING
✓	✓	TEFLON/SILICON TUBING
		BAILER
		IN LINE FILTER

DECON FLUIDS USED
- [ ] ALKINOX
- [x] LIQUINOX
- [ ] POTABLE WATER
- [x] DEIONIZED WATER
- [ ] STEAM CLEANING
- [ ] NITRIC ACID

WATER LEVEL EQUIPMENT USED
- [x] ELECTRIC COND. PROBE
- [ ] FLOAT ACTIVATED
- [ ] KECK INTERFACE PROBE

NUMBER OF FILTERS USED: Ø

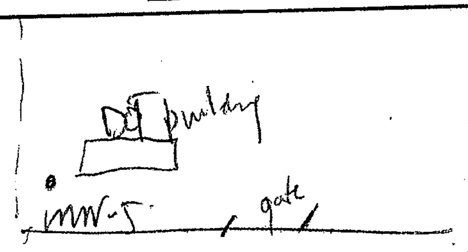
ANALYTICAL PARAMETERS

ANALYTICAL PARAMETERS	METHOD NUMBER	FRACTION CODE	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
VOC	OLM04.2		HCL / 4 DEG. C	2 X 40 ML		
✓ VOC			HCL / 4 DEG. C	3 X 40 ML	✓	
✓ SVOC			4 DEG. C	~~2~~ 1 X 1 L AG	✓	
✓ PEST / PCBs			4 DEG. C	2 X 1 L AG	✓	
HERBICIDES			4 DEG. C	2 X 1 L AG		
✓ ~~TAL~~ INORGANICS TAL metals			HNO3 to pH <2	1 x ~~1 LP~~ 500ml	✓	
SULFATE NITRATE/NITRITE	USEPA 300		4 DEG. C	1 X 50 ML P		
SULFIDE	USEPA 376.1		NAOH to pH >9	1 X 500 ML P		
IRON ONLY			HNO3 to pH <2	1 x 1 L P-Cube		
FERROUS IRON	FIELD METHOD		—	—		
TOTAL PHOSPHORUS	USEPA-365.4		H2SO4 to pH <2	1 X 50 ML P		
MANGANESE ONLY			HNO3 to pH <2	1 X 1 L P		
AMMONIA NIROGEN	USEPA-350.1		H2SO4 to pH <2	1 X 400 ML P		
TOC	USEPA-415.1					
TSS ONLY	USEPA-160.2		4 DEG. C	1 X 1 L P		
OTHER						

NOTES: degraded hydrocarbon odor; Purge water is ungre w/ particles in it

- 1035 - purge water cleared up.

MAP:



SIGNATURE: [signature]

RECEIVED BY:

2/22/2006

GWFORM2.XLS/GENERIC

FIELD DATA RECORD - GROUNDWATER SAMPLING

PROJECT: NYSDEC - Kentucky Ave | SAMPLE NUMBER: STMW0060200ZXX | STUDY AREA / AOC: MW-6
SITE ID: ST | SITE TYPE: DEC | DATE: 03/28/06
ACTIVITY: START 0735 END 0930 | JOB NUMBER: 361205.0324 | FILE TYPE: /
WEATHER: 28F, Sunny

WATER LEVEL / WELL DATA

MEASURED WELL DEPTH	25.57 FT (TOR)	HISTORICAL WELL DEPTH	25 FT (TOR)	PROTECTIVE CASING STICKUP (FROM GROUND)	/ FT	PROTECTIVE CASING / WELL DIFFERENCE	/ FT
DEPTH TO WATER	11.97 FT (TOR)	SCREEN LENGTH	10 FT	WELL DIAMETER	2 IN	WELL MATERIAL	Sch 40 PVC
HEIGHT OF WATER COLUMN	13.54 FT	x 0.16 GAL/FT (2 INCH WELL) =	4.33 GAL/VOL				
PID AMBIENT AIR	<1.0 PPM	PID WELL MOUTH	<1.0 PPM	TOTAL VOLUME PURGED	33600 ~~GAL~~ mL		

WELL INTEGRITY:

	YES	NO	N/A
CAP	✓		
CASING	✓		
COLLAR	✓		
LOCKED	✓		

PURGE DATA

Pumpon

TIME:	0755	0800	0805	0810	0815	0820
~~PURGE VOLUME (gallons)~~ DTW	11.98	11.98	11.98	11.98	11.98	11.98
PURGE RATE (gpm) ml/min	350	350	350	350	350	350
TEMPERATURE (degreesC)	11.0	11.1	11.3	11.4	11.4	11.4
pH (units)	6.5	7.0	7.2	7.3	7.4	7.4
TURBIDITY (ntu)	17	19	14	11	10	10
SPEC. COND. (uhmos/cm)	2.00	1.92	1.97	2.01	2.04	2.01
~~TURBIDITY (ntu)~~ DO	6.76	5.81	5.48	5.21	5.20	5.18
REDOX POTENTIAL (+/- mv)	310	280	260	230	230	230

0830 - Sample Time

SAMPLE OBSERVATIONS:
- ✓ CLEAR
- COLORED
- CLOUDY
- TURBID
- ODOR
- OTHER (see notes)

0931 - Pump off

EQUIPMENT DOCUMENTATION

PURGING: ✓ | SAMPLING: ✓

- PERISTALTIC PUMP
- SUBMERSIBLE PUMP
- BLADDER PUMP
- PVC/SILICON TUBING (SAMPLING ✓)
- TEFLON/SILICON TUBING (PURGING ✓)
- BAILER
- IN LINE FILTER

DECON FLUIDS USED:
- ALKINOX
- LIQUINOX ✓
- POTABLE WATER ✓
- DEIONIZED WATER
- STEAM CLEANING
- NITRIC ACID

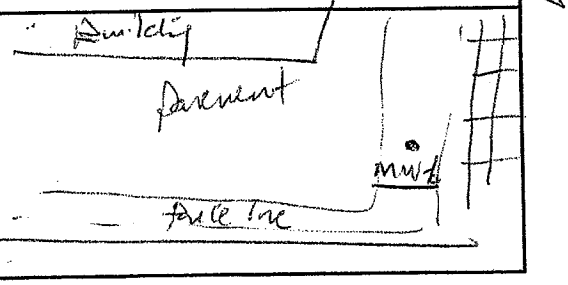
WATER LEVEL EQUIPMENT USED: ✓
- ELECTRIC COND. PROBE ✓
- FLOAT ACTIVATED
- KECK INTERFACE PROBE

NUMBER OF FILTERS USED: 0

ANALYTICAL PARAMETERS

	METHOD NUMBER	FRACTION CODE	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
VOC	OLM04.2		HCL / 4 DEG. C	2 X 40 ML		
VOC			HCL / 4 DEG. C	3 X 40 ML	✓	
SVOC			4 DEG. C	2 X 1 L AG	✓	
PEST / PCBs			4 DEG. C	2 X 1 L AG	✓	
HERBICIDES			4 DEG. C	2 X 1 L AG		
TAL INORGANICS metals			HNO3 to pH <2	1 x ~~1 L P~~ 500ml	✓	
SULFATE NITRATE/NITRITE	USEPA 300		4 DEG. C	1 X 50 ML P		
SULFIDE	USEPA 376.1		NAOH to pH >9	1 X 500 ML P		
IRON ONLY			HNO3 to pH <2	1 x 1 L P-Cube		
FERROUS IRON	FIELD METHOD		–	–		
TOTAL PHOSPHORUS	USEPA-365.4		H2SO4 to pH <2	1 X 50 ML P		
MANGANESE ONLY			HNO3 to pH <2	1 X 1 L P		
AMMONIA NIROGEN	USEPA-350.1		H2SO4 to pH <2	1 X 400 ML P		
TOC	USEPA-415.1					
TSS ONLY	USEPA-160.2		4 DEG. C	1 X 1 L P		
OTHER						

NOTES: Collect Dup/MS/MSD herc.



SIGNATURE: _____

RECEIVED BY: _____

1 of 2

FIELD DATA RECORD - GROUNDWATER SAMPLING

PROJECT: NYSDEC Kentucky Ave | SAMPLE NUMBER: SMW007018 02KK | STUDY AREA / AOC: MW-7
SITE ID: ST | SITE TYPE: DEC | DATE: 03/29/06
ACTIVITY: START 0915 END 1015 | JOB NUMBER: 361205 2034 | FILE TYPE: /
WEATHER: 36°F Sunny

WATER LEVEL / WELL DATA

MEASURED WELL DEPTH	23.55 FT (TOR)	HISTORICAL WELL DEPTH	22.95 FT (TOR)	PROTECTIVE CASING STICKUP (FROM GROUND)	/ FT
PROTECTIVE CASING / WELL DIFFERENCE	/ FT	DEPTH TO WATER	13.36 FT (TOR)	SCREEN LENGTH	10 FT
WELL DIAMETER	2 IN	WELL MATERIAL	Sch 40 PVC	HEIGHT OF WATER COLUMN	10.19 FT
x 0.16 GAL/FT (2 INCH WELL) =	3.26 GAL/VOL	PID AMBIENT AIR	4.0 PPM	PID WELL MOUTH	<1.0 PPM
TOTAL VOLUME PURGED	19200 ~~GAL~~ mL				

WELL INTEGRITY:

	YES	NO	N/A
CAP	✓		
CASING	✓		
COLLAR	✓		
LOCKED	✓		

PURGE DATA

0920 Pump On

TIME:	0921	0926	0931	0936	0941	0946
~~PURGE VOLUME (gallons)~~ DTW	13.40	13.41	13.41	13.41	13.41	13.41
PURGE RATE (gpm) ml/min	400	400	400	400	400	400
TEMPERATURE (degreesC)	10.3	10.3	10.3	10.3	10.4	10.5
pH (units)	7.3	7.3	7.3	7.3	7.4	7.4
TURBIDITY (ntu)	75	12	19	10	5.3	4.2
SPEC. COND. (uhmos/cm)	1.37	1.37	1.36	1.36	1.35	1.35
~~TURBIDITY (ntu)~~ DO	7.31	7.03	6.84	6.81	6.68	6.70
REDOX POTENTIAL (+/- mv)	240	230	220	200	190	190

1000 - Sample Time

SAMPLE OBSERVATIONS:
- ✓ CLEAR
- ☐ COLORED _____
- ☐ CLOUDY _____
- ☐ TURBID _____
- ☐ ODOR _____
- ☐ OTHER (see notes)

1008 - Pump off

EQUIPMENT DOCUMENTATION

PURGING	SAMPLING	
☐	✓	PERISTALTIC PUMP
☐	☐	SUBMERSIBLE PUMP
☐	☐	BLADDER PUMP
✓	✓	PVC/SILICON TUBING
✓	✓	TEFLON/SILICON TUBING
☐	☐	BAILER
☐	☐	IN LINE FILTER

DECON FLUIDS USED:
- ☐ ALKINOX
- ✓ LIQUINOX
- ✓ POTABLE WATER
- ✓ DEIONIZED WATER
- ☐ STEAM CLEANING
- ☐ NITRIC ACID
- ☐ _____

WATER LEVEL EQUIPMENT USED:
- ✓ ELECTRIC COND. PROBE
- ☐ FLOAT ACTIVATED
- ☐ KECK INTERFACE PROBE
- ☐ _____

NUMBER OF FILTERS USED: 0

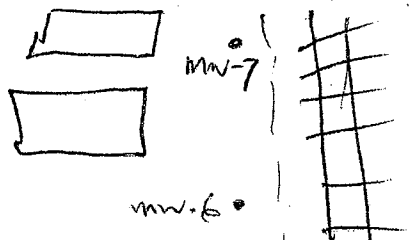
ANALYTICAL PARAMETERS

	METHOD NUMBER	FRACTION CODE	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
☐ VOC	OLM04.2		HCL / 4 DEG. C	2 X 40 ML	☐	
✓ VOC			HCL / 4 DEG. C	3 X 40 ML	✓	
☐ SVOC			4 DEG. C	4 X 1 L AG	✓	
✓ PEST / PCBs			4 DEG. C	2 X 1 L AG	✓	
☐ HERBICIDES			4 DEG. C	2 X 1 L AG	☐	
✓ ~~PAL~~ INORGANICS TAL Metals			HNO3 to pH <2	1 x 1 ~~L~~ P 500 mL	✓	
☐ SULFATE NITRATE/NITRITE	USEPA 300		4 DEG. C	1 X 50 ML P	☐	
☐ SULFIDE	USEPA 376.1		NAOH to pH >9	1 X 500 ML P	☐	
☐ IRON ONLY			HNO3 to pH <2	1 x 1 L P-Cube	☐	
☐ FERROUS IRON	FIELD METHOD		–	–	☐	
☐ TOTAL PHOSPHORUS	USEPA-365.4		H2SO4 to pH <2	1 X 50 ML P	☐	
☐ MANGANESE ONLY			HNO3 to pH <2	1 X 1 L P	☐	
☐ AMMONIA NIROGEN	USEPA-350.1		H2SO4 to pH <2	1 X 400 ML P	☐	
☐ TOC	USEPA-415.1				☐	
☐ TSS ONLY	USEPA-160.2		4 DEG. C	1 X 1 L P	☐	
☐ OTHER					☐	

NOTES

SIGNATURE: _____

RECEIVED BY: _____



2 of 2

FIELD DATA RECORD - GROUNDWATER SAMPLING

PROJECT: NYSDEC - Kentucky Ave | SAMPLE NUMBER: ST MW 05 07 18 02 AX | STUDY AREA / AOC: MW-7

SITE ID: ST | SITE TYPE: DEC | DATE: 05/29/06

ACTIVITY START: 0915 END: 1015 | JOB NUMBER: 36120520324 | FILE TYPE: —

WEATHER: 76° F / Sunny

WATER LEVEL / WELL DATA

MEASURED WELL DEPTH	23.55 FT (TOR)	HISTORICAL WELL DEPTH	22.95 FT (TOR)	PROTECTIVE CASING STICKUP (FROM GROUND)	— FT
PROTECTIVE CASING / WELL DIFFERENCE	— FT	DEPTH TO WATER	13.36 FT (TOR)	SCREEN LENGTH	10 FT
WELL DIAMETER	2 IN	WELL MATERIAL	Sch 40 PVC	HEIGHT OF WATER COLUMN	10.19 FT
x 0.16 GAL/FT (2 INCH WELL) =	3.26 GAL/VOL	PID AMBIENT AIR	<1.0 PPM	PID WELL MOUTH	<1.0 PPM
TOTAL VOLUME PURGED	19200 mL GAL				

WELL INTEGRITY:

	YES	NO	N/A
CAP	✓		
CASING	✓		
COLLAR	✓		
LOCKED	✓		

PURGE DATA

0920 - Pump on | TIME: 0950 | 0954 | 0959 | 1000

~~PURGE VOLUME~~ (gallons)	DW	13.41	13.41	13.41	
PURGE RATE (~~gpm~~)	ml/min	400	400	400	
TEMPERATURE (degreesC)		10.4	10.5	10.5	
pH (units)		7.4	7.4	7.4	
TURBIDITY (ntu)		2.5	2.5	2.3	
SPEC. COND. (uhmos/cm)		1.36	1.35	1.35	
~~TURBIDITY (ntu)~~	DO	6.67	6.71	6.70	
REDOX POTENTIAL (+/- mv)		180	170	170	

Sample & Time

SAMPLE OBSERVATIONS:

- ✓ CLEAR
- ☐ COLORED _____
- ☐ CLOUDY _____
- ☐ TURBID _____
- ☐ ODOR _____
- ☐ OTHER (see notes)

Pump off - 1008

EQUIPMENT DOCUMENTATION

PURGING	SAMPLING	
	✓	PERISTALTIC PUMP
		SUBMERSIBLE PUMP
		BLADDER PUMP
✓	✓	PVC/SILICON TUBING
		TEFLON/SILICON TUBING
		BAILER
		IN LINE FILTER

DECON FLUIDS USED:

- ✓ ALKINOX
- ✓ LIQUINOX
- ✓ POTABLE WATER
- ✓ DEIONIZED WATER
- STEAM CLEANING
- NITRIC ACID

WATER LEVEL EQUIPMENT USED:

- ✓ ELECTRIC COND. PROBE
- FLOAT ACTIVATED
- KECK INTERFACE PROBE

NUMBER OF FILTERS USED: 0

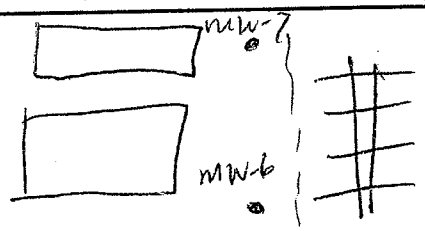
ANALYTICAL PARAMETERS

	METHOD NUMBER	FRACTION CODE	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
☐ VOC	OLM04.2		HCL / 4 DEG. C	2 X 40 ML	☐
✓ VOC			HCL / 4 DEG. C	3 X 40 ML	✓ 6
✓ SVOC			4 DEG. C	2 X 1 L AG	✓
☐ PEST / PCBs			4 DEG. C	2 X 1 L AG	✓
☐ HERBICIDES			4 DEG. C	2 X 1 L AG	☐
✓ PAL INORGANICS TAL metals			HNO3 to pH <2	1 x 1 ~~LP~~ 500mL	✓
☐ SULFATE NITRATE/NITRITE	USEPA 300		4 DEG. C	1 X 50 ML P	☐
☐ SULFIDE	USEPA 376.1		NAOH to pH >9	1 X 500 ML P	☐
☐ IRON ONLY			HNO3 to pH <2	1 x 1 L P-Cube	☐
☐ FERROUS IRON	FIELD METHOD		--	--	☐
☐ TOTAL PHOSPHORUS	USEPA-365.4		H2SO4 to pH <2	1 X 50 ML P	☐
☐ MANGANESE ONLY			HNO3 to pH <2	1 X 1 L P	☐
☐ AMMONIA NIROGEN	USEPA-350.1		H2SO4 to pH <2	1 X 400 ML P	☐
☐ TOC	USEPA-415.1				☐
☐ TSS ONLY	USEPA-160.2		4 DEG. C	1 X 1 L P	☐
☐ OTHER					☐

SAMPLE BOTTLE ID NUMBERS: _____ / _____

NOTES

MAP:

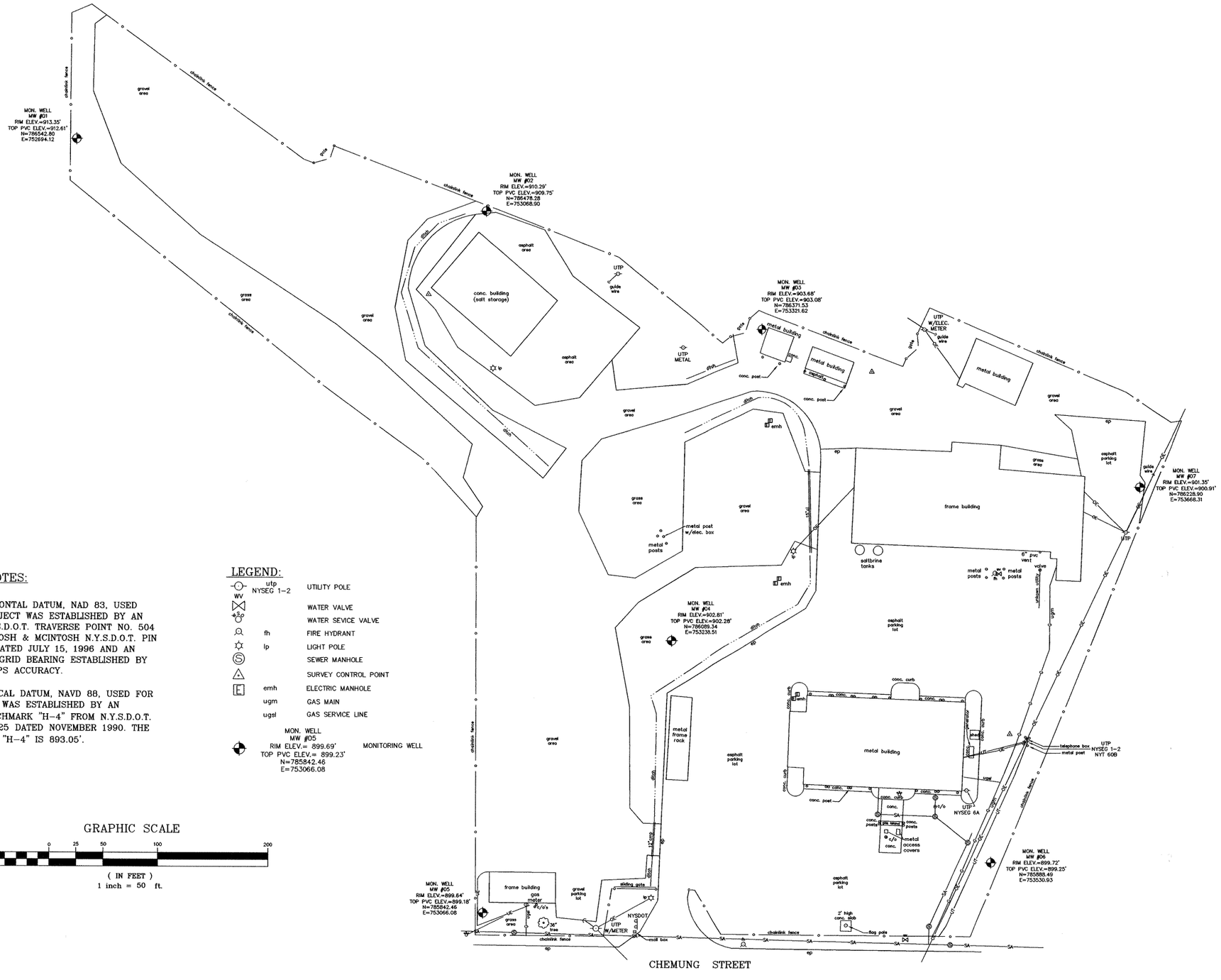


SIGNATURE: _____

RECEIVED BY: _____

APPENDIX C:

SURVEY DRAWING – SITE MAP



SURVEY NOTES:

1.) THE HORIZONTAL DATUM, NAD 83, USED FOR THIS PROJECT WAS ESTABLISHED BY AN EXISTING N.Y.S.D.O.T. TRAVERSE POINT NO. 504 SET BY MCINTOSH & MCINTOSH N.Y.S.D.O.T. PIN NO. 6752.25 DATED JULY 15, 1996 AND AN APPROXIMATE GRID BEARING ESTABLISHED BY SUB METER GPS ACCURACY.

2.) THE VERTICAL DATUM, NAVD 88, USED FOR THIS PROJECT WAS ESTABLISHED BY AN EXISITNG BENCHMARK "H-4" FROM N.Y.S.D.O.T. PIN NO. 6752.25 DATED NOVEMBER 1990. THE ELEVATION OF "H-4" IS 893.05'.

LEGEND:

utp NYSEG 1-2		UTILITY POLE
WV		WATER VALVE
		WATER SEVICE VALVE
	fh	FIRE HYDRANT
	lp	LIGHT POLE
		SEWER MANHOLE
		SURVEY CONTROL POINT
	emh	ELECTRIC MANHOLE
	ugm	GAS MAIN
	ugsl	GAS SERVICE LINE
MON. WELL MW #05 RIM ELEV.= 899.69' TOP PVC ELEV.= 899.23' N=785842.46 E=753066.08		MONITORING WELL

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.

sub-meter GPS derived

DATE	REVISIONS	BY

DRAWING ALTERATION

WARNING: It is a violation of the New York State Education Law, Article 145, Section 7209, Special Provision 2, for any person unless he is acting under the direction of a Licensed Professional Engineer or Land Surveyor to alter an item in any way. If an item bearing the seal of an engineer or land surveyor is altered, the altering engineer or land surveyor shall affix to the item his seal and notation "altered by" followed by his signature and date of such alteration, and a specific description of the alteration.

BY: _____

DATE: _____

LU ENGINEERS
Civil and Environmental

JOSEPH C. LU ENGINEERING AND LAND SURVEYING, P.C.
2230 Penfield Road
Penfield, New York 14526
(585) 377-1450
FAX: (585) 377-1266

PROJECT:

N.Y.S.D.O.T. PROPERTY
730 CHEMUNG STREET

CLIENT:

MACTEC ENGINEERING, INC
511 CONGRESS STREET
PORTLAND, ME 04101

DRAWING TITLE:

SITE MAP

DESIGNED BY:	SCALE: 1"=50'
DRAWN BY: JRH	DATE: 02/06/06
CHECKED BY: CJR,CAP	PROJECT No. 36406
SHEET 1 OF 1	DRAWING No. 1

J:\PROJECTS\36400 MACTEC\36406 HORSEHEADS\CADD\36406 SURVEY.DWG

APPENDIX D:

DUSR AND LABORATORY ANALYTICAL RESULTS

DATA VALIDATION REPORT

Volatile, Semi-volatile, Pesticide/PCB, and Metals Analyses

SDG No. D1367
Sampling Date: November 14-16, 2005

Submitted to:

MACTEC, Inc.,
511 Congress Street
Portland, ME 04112
207-775-5401

Submitted by:

EDV, Inc.,
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

February 27, 2006

Site:	Kentucky Ave/NYSDEC
Client:	MACTEC, Inc.
Analytical Laboratory:	Mitkem Corporation 17 Metro Center Boulevard Warwick RI 02886
Sample Delivery Group (SDG):	D1367
Sampling Date:	November 14-16, 2005
Analyses:	Volatile, semi-volatile, pesticide/PCB, metals
Analytical Method:	NYSDEC ASP

Summary of Data Validation:

The adherence of laboratory analytical performance to CLP and SW-846 Analytical Specifications were evaluated during the data validation process. The USEPA Region II's data validation SOP Checklists (SOP HW-2 Rev 1, January 1992**,** SOP, HW-15 Rev 2, May 1993), the National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (October 2004) were used as guidelines for data qualifications.

Volatile: Several compounds were qualified as estimated due to calibration issues. One methylene chloride result was qualified as non-detect due to blank contamination. Some sample results were qualified as estimated due to calibration issues.

Semi-volatile analyses: Some sample results were qualified as estimated due to calibration issues.

Pesticide/PCB: Some compounds in one sample were qualified as estimated due to surrogate issues.

Metals: Selenium and silver results were rejected in all samples due to matrix spike issues. Some copper, lead, sodium and zinc results were rejected due to field blank contamination. Antimony, cobalt, copper, iron, lead, nickel and zinc results were qualified as estimated due to either matrix spike, CRDL or ICP serial dilution issues.

The sample qualifiers applied by the data validator are in section 15.0 and Attachment A- Form 1s. The detailed discussions can be found in the report.

Table of Contents

Table of Contents (Continued)

List of Appendices

1.0 Sample Identifications

The following table summarizes sample IDENTIFICATIONS, matrix of each sample and analyses present in the data package for each sample.

Client Sample ID	**Matrix**	**Volatile**	**Semi-volatile**	**Pesticide/ PCB**	**Metals**
SDG D1367					
STBS00701001XX	SOIL	X	X	X	X
STQT001XXX05XX	WATER	X	-	-	-
STBS00508001XX	SOIL	X	X	X	X
STBS00508001XD	SOIL	X	X	X	X
STBS00406001XX	SOIL	X	X	X	X
STBS00501701XX	SOIL	X	X	-	-
STBS00101601XX	SOIL	X	X	X	X
STQT002XXX05XX	WATER	X	-	-	-
STBS00301601XX	SOIL	X	X	X	X
STQS001XXX05XX	WATER	X	X	X	X
STQT003XXX05XX	WATER	X	-	-	-
STBS00201801XX	SOIL	X	X	X	X
QC sample ID	**Matrix**				
STBS00508001XX MS	WATER	X	X	X	X
STBS00508001XX MSD	WATER	X	X	X	X

2.0 Completeness Checklist

The following table identifies the summary form information and raw data found in the data package. Form numbers shown in parentheses refer to the current U.S. EPA CLP SOW equivalent reporting of results in an alternate summary format that has been determined to be acceptable. Analyses in this data package were performed in accordance with CLP and NYSDEC Methods.

Completeness Checklist

X	Case Narrative
X	Chain of Custody Records/Traffic Reports/Tracking Records
X	Preservation Information
X	Sample Cross Reference with Unique Identifiers
X	Sample Results Summary Form (Form 1/Form 1-TIC)
X	CLP Flagging used on Results Summary
X	SMC/Surrogate Results Summary (Form 2)
NR	Matrix Spike/Matrix Spike Duplicate Results Summary (Form 3)
X	Laboratory Control Sample (LCS)/ Blank Spike Results Summary (Form 3)
NR	Control Charts
X	Method/Preparation Blank Results Summary (Form 4)
X	Volatile Initial Calibration Summary (Forms 6)
X	Volatile Continuing Calibration Summary (Form 7)
X	Volatile Analytical Sequence (Form 8)
X	Internal Standard Area Summary (Form X11)
X	Raw Data (incl. IS, Surr/SMC, RT, quant. Reports, etc.)
X	Samples
X	Initial Calibration
NR	Clean-ups
X	Continuing Calibration
NR	Instrument Blanks
X	Preparation Blanks/Method Blanks
O	Other Blanks
X	LCS/Blank Spike
X	Matrix Spikes/Matrix Spike Duplicates
NR	Matrix Duplicates/Replicates
O	Field Blanks – Trip Blank
X	Field Duplicates
X	Extraction Log Benchsheets
X	Instrument Run Logs
X	Sample Descriptions
X	Legible Pages
X	Pages in Package Numbered and in Sequence
X	Electronic Data Deliverable (EDD)

X: Included in original Data Package
NR: Not Required
O: Not Included and/or Not Available
RS: Provided as a Resubmission
X/RS: Incomplete in original data package, completed as a resubmission

3.0 Detection Limits

Detection limits are acceptable.

4.0 Holding Time

Holding times were acceptable.

4.1 Sample Preservation

The appropriate samples were preserved and cooled to 4°C.

4.2 Percent Moisture

Percent moisture results were acceptable.

4.3 Chain of Custody Record

Chain of Custody Records were present.

5.0 Calibration Quality Control

5.1 Initial Calibration (ICAL)

The ICAL was acceptable.

5.2 Continuing Calibration (CCAL)

VOA: For CCV, the following compounds exceeded the +/-25% criterion;

Compound	**%D-11/15/05 V5**	**%D-01/16/05 V5**	**%D-01/17/05 V5**
Bromomethane	27.3	-	-
1,1-Dichloroethene	27.0	-	-
Chloroethane	41.6	-	-
Acetone	51.8	42.0	26.6
2-Butanone	45.4	27.4	-
Trichlorofluoromethane	26.0	-	28.8
Dichlorodifluoromethane	-	-	26.1

Detected affected compounds were qualified "J" to indicate the results are estimated and non-detected results were qualified "UJ" to indicate the results are estimated due to this anomaly.

SVOA: For CCV, the following compounds exceeded the +/-25% criterion;

Compound	**%D-12/16/05 S1**	**%D-12/20/05 S1**
4-Chloroaniline	-	529.9
Caprolactam	-	31.1
Benzaldehyde	29.8	55.4
Atrazine	2	64.5
3,3-Dichlorobenzidine	32.8	77.2

Compound	%D-12/16/05 S1	%D-12/20/05 S1
Indeno (1,2-3-cd)pyrene	30.4	-
Dibenzo(a,h) antharacene	38.2	34.9
Benzo (g,h,I) perylene	33.7	-

All samples were affected. All affected compounds were non-detects and were qualified "UJ" to indicate the results are estimated due to this anomaly.

5.3 CRDL Standard

Recoveries for copper (74.7%) and zinc (75.2%) were outside the required 80-120% QC limit. All sample results for these compounds were qualified "J" to indicate the results are estimated due to this anomaly.

6.0 Blanks Quality Control

VOA: Method blanks reported acetone and methylene chloride contamination. Associated detected compound were qualified as non-detects.

7.0 Surrogate Recoveries

PEST/PCB: Decachlorobiphenyl recovery was 27% due to dilution in sample STQS001XXX05XX. This was outside the required QC limits of 30-150%. All non-detected compounds in this sample were qualified "UJ" and all detected compounds were qualified "J" to indicate the results are estimated due to this anomaly.

8.0 Accuracy

8.1 Laboratory Control Samples (LCS)/Blank Spikes

Recoveries were acceptable.

8.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)

8.2.1 Frequency

Frequency was met.

8.2.2 Recovery

Metals- Matrix spike recovery for antimony-25.6%, lead-151.5%, selenium-0% and silver-0% were outside the 75-125% QC requirement. This resulted in all associated antimony results being qualified as estimated. All selenium and silver results being qualified "R" to indicate the results have been rejected and are not usable. All affected lead results were qualified "J" to indicate the results are estimated due to this anomaly.

9.0 Precision

RPDs were acceptable.

9.1 Matrix Spike Duplicates

9.2 Matrix Duplicate

RPDs were acceptable.

9.3 ICP Serial Dilution

ICP serial dilution results were not acceptable for cobalt, iron, lead, nickel and zinc. All cobalt, iron and nickel results were qualified "J" to indicate the results are estimated due to this anomaly. All zinc results were previously qualified due to CRDL or field blank issues and required no further qualification. All affected lead results were previously qualified due to matrix spike effect and required no further qualification.
ICP serial dilution for copper and iron in sample STQS001XXX05XX were not acceptable. Copper and iron results in this sample were qualified as estimated due to this anomaly.

10.0 Field QC

10.1 Field Blanks/Rinse

SVOA: Rinse blank reported bis (2-ethylhexyl) phthalate contamination. Associated samples reported no low level contamination thus, no action was necessary.

Metals: Field blank reported gross contamination for copper, iron, lead, sodium and zinc. Samples STBS00301601XX and STBS00201801XX were the associated affected samples. Copper, lead, sodium and zinc were rejected in these two samples due to this contamination. Iron results required no qualification.

10.2 Trip Blanks

Trip blanks reported no contamination.

10.3 Field Duplicate

Sample STBS00508001XXD was presented as a field duplicate. The original sample is identified as STBS00508001XX. RPDs are calculated when both original and duplicate report detects. RPDs were acceptable except for the metals shown below.

Original	Duplicate	RPD	
8430	6640	842978%	AL
45300	95000	4529966%	Ca
502	412	50177%	Mn

Aluminum, calcium and manganese results in both original and duplicate samples were qualified as estimated due to this anomaly.

11.0 Internal Standards (IS)

11.1 IS Area Counts

IS area counts were within quality control limit.

11.2 Retention Time (RT)

All RTs were within the method accepted criteria.

12.0 Target Compound Identification

All were acceptable.

12.1 Tentatively Identified Compounds (TICs)

VOA: Some TICs were rejected because they are volatile target compounds and therefore cannot be reported as VOA TICs. Some were rejected because they were suspect artifact or common laboratory contaminant.

SVOA: Some TICs were rejected because they are volatile target compounds and therefore cannot be reported as SVOA TICs.

13.0 Calculations and Transcription

Raw data were accurately transcribed to summary data sheets.

14.0 Additional Comments

15.0 Data Qualifier Table

Volatile

Sample Identification	Compound	Qualifier	Section Reference
STBS00101601XX	Acetone, 2-butanone	UJ	5.2
STBS00406001XX, STBS00508001XX	Acetone	J	5.2
STBS00406001XX, STBS00508001XX	2-Butanone	UJ	5.2
STBS00701001XX	Bromomethane, chloroethane, trichlorofluoromethane, 1,1-dichlorethene, 2-butanone	UJ	5.2
STBS00701001XX	Acetone	UJ	5.2
STBS00701001XX	Methylene chloride	11U	6.0
STQS001XXX05XX, STQT001XXX05XX, STQT002XXX05XX, STQT003XXX05XX	Dichlorodifluoromethane, trichlorofluoromethane, acetone	UJ	5.2

SVOA

Sample Identification	Compound	Qualifier	Section Reference
STBS00406001XX, STBS00508001XX, STBS00508001XXD	Benzaldehyde , 3,3'dichlorobenzidine, indeno (1,2,3-cd)pyrene, dibenzo(a,h) antracene, benzo (g,h,i) perylene	UJ	5.2
STBS00501701XX	Benzaldehyde, caprolactam, atrazine, 3,3'-dichlorobenzidine, dibenzo (a,h) antracene	UJ	5.2
STBS00701001XX	Benzaldehyde , 3,3'dichlorobenzidine, dibenzo(a,h) antracene, benzo (g,h,i) perylene	UJ	5.2

Pest/PCB

Sample Identification	Compound	Qualifier	Section Reference
STQS001XXX05XX	alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) Aldrin Heptachlor epoxide Endosulfan I Dieldrin 4,4-DDE 4,4'-DDD Endrin Endosulfan II Endosulfan sulfate 4,4-DDT Methoxychlor Endrin ketone Endrin aldehyde alpha-Chlordane gamma-Chlordane Toxaphene Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1260	UJ	7.0

Metals

Sample Identification	Compound	Qualifier	Section Reference
STBS00101601XX, STBS00201801XX, STBS00301601XX, STBS00406001XX, STBS00508001XX, STBS00508001XXD, STBS00701001XX	Antimony	UJ	8.2.2
STBS00101601XX, STBS00201801XX, STBS00301601XX, STBS00406001XX, STBS00508001XX, STBS00508001XXD, STBS00701001XX	Cobalt, copper, iron, lead, nickel, zinc	J	5.3/8.2.2/9.3
STBS00101601XX, STBS00201801XX STBS00301601XX,	Selenium, silver	R	8.2.2

Sample Identification	Compound	Qualifier	Section Reference
STBS00406001XX, STBS00508001XX, STBS00508001XXD, STBS00701001XX			
STQS001XXX05XX	Copper, iron	J	9.3
STBS00508001XX, STBS00508001XXD	Aluminum, calcium, manganese	J	10.3
STBS00301601XX, STBS00201801XX	Copper, lead, sodium, zinc	R	10.1

DATA VALIDATION REPORT

Volatile, Semi-volatile, Pesticide/PCB, and Metals Analyses

SDG No. D1488
Sampling Date: December 8-9, 2005

Submitted to:

MACTEC, Inc.,
511 Congress Street
Portland, ME 04112
207-775-5401

Submitted by:

EDV, Inc.,
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

February 20, 2006

Site:	Diamond Cleaners/NYSDEC
Client:	MACTEC, Inc.
Analytical Laboratory:	Mitkem Corporation 17 Metro Center Boulevard Warwick RI 02886
Sample Delivery Group (SDG):	D1488
Sampling Date:	December 8-9, 2005
Analyses:	Volatile, semi-volatile, pesticide/PCB and metals
Analytical Method:	NYSDEC ASP

Summary of Data Validation:

The adherence of laboratory analytical performance to CLP and SW-846 Analytical Specifications were evaluated during the data validation process. The USEPA Region II's data validation SOP Checklists **(**SOP HW-2 Rev 1, January 1992**,** SOP, HW-15 Rev 2, May 1993), the National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (October 2004) were used as guidelines for data qualifications.

Volatile: Some sample results were qualified as estimated due to calibration issues.

Semi-volatile analyses: Some sample results were qualified as estimated due to calibration and method blank issues.

Pesticide/PCB: The results are acceptable.

Metals: Selenium results in all samples were qualified as estimated due to laboratory control sample issues.

The sample qualifiers applied by the data validator are in section 15.0 and Attachment A- Form 1s. The detailed discussions can be found in the report.

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Table of Contents (Continued)

List of Appendices

1.0 Sample Identifications

The following table summarizes sample IDENTIFICATIONS, matrix of each sample and analyses present in the data package for each sample.

Client Sample ID	Matrix	Volatile	Semi-volatile	Pesticide/ PCB	Metals
SDG D1488					
STMW007XXX01XX	WATER	X	X	X	X
STMW007XXX01XXD	WATER	X	X	X	X
STMW006XXX01XX	WATER	X	X	X	X
STQT004XXX01XXTB	WATER	X	-	-	-
STMW005XXX01XX	WATER	X	X	X	X
STMW004XXX01XX	WATER	X	X	X	X
STMW001XXX01XX	WATER	X	X	X	X
STQT002XXX01XXTB	WATER	X	-	-	-
STMW002XXX01XX	WATER	X	X	X	X
STMW003XXX01XX	WATER	X	X	X	X
STQT003XXX01XXTB	WATER	X	-	-	-
QC sample ID	**Matrix**				
STMW007MS	WATER	X	X	X	X
STMW007MSD	WATER	X	X	X	X

2.0 Completeness Checklist

The following table identifies the summary form information and raw data found in the data package. Form numbers shown in parentheses refer to the current U.S. EPA CLP SOW equivalent reporting of results in an alternate summary format that has been determined to be acceptable. Analyses in this data package were performed in accordance with CLP and NYSDEC Methods.

Completeness Checklist

X	Case Narrative
X	Chain of Custody Records/Traffic Reports/Tracking Records
X	Preservation Information
X	Sample Cross Reference with Unique Identifiers
X	Sample Results Summary Form (Form 1/Form 1-TIC)
X	CLP Flagging used on Results Summary
X	SMC/Surrogate Results Summary (Form 2)
NR	Matrix Spike/Matrix Spike Duplicate Results Summary (Form 3)
X	Laboratory Control Sample (LCS)/ Blank Spike Results Summary (Form 3)
NR	Control Charts
X	Method/Preparation Blank Results Summary (Form 4)
X	Volatile Initial Calibration Summary (Forms 6)
X	Volatile Continuing Calibration Summary (Form 7)
X	Volatile Analytical Sequence (Form 8)
X	Internal Standard Area Summary (Form X11)
X	Raw Data (incl. IS, Surr/SMC, RT, quant. Reports, etc.)
X	Samples
X	Initial Calibration
NR	Clean-ups
X	Continuing Calibration
NR	Instrument Blanks
X	Preparation Blanks/Method Blanks
O	Other Blanks
X	LCS/Blank Spike
X	Matrix Spikes/Matrix Spike Duplicates
NR	Matrix Duplicates/Replicates
O	Field Blanks – Trip Blank
X	Field Duplicates
X	Extraction Log Benchsheets
X	Instrument Run Logs
X	Sample Descriptions
X	Legible Pages
X	Pages in Package Numbered and in Sequence
X	Electronic Data Deliverable (EDD)

X: Included in original Data Package
NR: Not Required
O: Not Included and/or Not Available
RS: Provided as a Resubmission
X/RS: Incomplete in original data package, completed as a resubmission

3.0 Detection Limits

Detection limits are acceptable.

4.0 Holding Time

Holding times were acceptable.

4.1 Sample Preservation

Preservation met quality control requirements

4.2 Percent Moisture

Percent moisture was not applicable since samples were of an aqueous matrix.

4.3 Chain of Custody Record

Chain of Custody Records were present.

5.0 Calibration Quality Control

5.1 Initial Calibration

The ICAL was acceptable.

5.2 Continuing Calibration (CCAL)

VOA: For CCV, the following compounds exceeded the +/- 25% criterion;

Compound	**%RSD-12/09/05 V2**	**%RSD-12/14/05 V2**
Dichlorodifluoromethane	35.9	-
Chloromethane	27.2	-
Vinyl chloride	28.1	-
Methylene chloride	-	42.9

All affected compounds were non-detects and were qualified “UJ” to indicate the results are estimated due to this anomaly.

SVOA: For CCV, the following compounds exceeded the +/- 25% criterion;

Compound	**%D-12/20/05 S1**
4-Chloroaniline	529.9
Caprolactam	31.1
Benzaldehyde	55.4
Atrazine	64.5
3,3-Dichlorobenzidine	77.2
Dibenzo(a,h) antharacene	34.9

All affected compounds were non-detects and were qualified “UJ” to indicate the results are estimated due to this anomaly.

5.3 CRDL Standard

Recoveries were acceptable.

6.0 Blanks Quality Control

SVOA: Method blanks reported bis (2-ethyl hexyl) phthalate contamination. Associated detected compounds were qualified as non-detects at CRDL due to this anomaly.

7.0 Surrogate Recoveries

Recoveries were acceptable.

8.0 Accuracy

8.1 Laboratory Control Samples (LCS)/Blank Spikes

SVOA: Recovery for 4-nitrophenol-88% and 2, 4-dinitrotoluene-108% was above the 10-80% QC requirement. There were no associated detected 4-nitrophenol or 2, 4-dinitrotoluene compounds therefore, no qualification was necessary.

Metals: Recovery for selenium-61% was below the required QC limits of 80-120%. Selenium results in all samples were qualified as estimated due to this anomaly.

8.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)

8.2.1 Frequency

Frequency was met.

8.2.2 Recovery

Recoveries were acceptable.

9.0 Precision

9.1 Matrix Spike Duplicates

The results were acceptable.

9.2 Matrix Duplicate

RPDs were acceptable.

9.3 ICP Serial Dilution

ICP serial dilution results were acceptable.

10.0 Field QC

10.1 Field Blanks/Rinse Blanks

Field blank reported methylene chloride contamination however, there were no detected methylene chloride results in associated samples thus, no qualification was necessary.

10.2 Trip Blanks

The trip blank reported no contamination

10.3 Field Duplicate

Sample STMW007XXX01XXD was presented as a field duplicate. The original sample is identified as STMW007XXX01XX. RPDs are calculated when both original and duplicate report detects. RPDs are acceptable

11.0 Internal Standards (IS)

11.1 IS Area Counts

IS area counts were acceptable.

11.2 Retention Time (RT)

All RTs were within the method accepted criteria.

12.0 Target Compound Identification

All identifications are acceptable.

12.1 Tentatively Identified Compounds (TICs)

TIC results are acceptable.

13.0 Calculations and Transcription

Raw data were accurately transcribed to summary data sheets.

14.0 Additional Comments

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15.0 Data Qualifier Table

Volatile

Sample Identification	Compound	Qualifier	Section Reference
STMW001, STMW004, STMW005, STMW006, STMW007,STMW007D,STQT002, STQT004	Dichlorodifluoromethane, chloromethane, vinyl chloride	UJ	5.2
STMW002, STMW003	Methylene chloride	UJ	5.2

SVOA

Sample Identification	Compound	Qualifier	Section Reference
STMW001,STMW002, STMW003, STMW004, STMW005, STMW006, STMW007, STMW007D	Benzaldehyde , 4-chloroaniline, caprolactam, atrazine, 3,3'dichlorobenzidene, dibenzo(a,h) antracene	UJ	5.2
STMW001, STMW002, STMW003, STMW004, STMW005, STMW006, STMW007,STMW007D	Bis-2-ethyl hexyl phthalate	10U	5.2

Metals

Sample Identification	Compound	Qualifier	Section Reference
STMW001, STMW002, STMW003, STMW004, STMW005, STMW006, STMW007, STMW007D	Selenium	UJ	8.1

Loc Name	MW-001		MW-002		MW-003		MW-004	
Field Sample Id	STMW00102502XX		STMW00202502XX		STMW00302002XX		STMW00402002XX	
Field Sample Date	3/28/2006		3/28/2006		3/28/2006		3/29/2006	
Lab Sample Id	E0379-04A		E0379-05A		E0379-06A		E0379-07A	
Qc Code	FS		FS		FS		FS	
	final_result		final_result		final_result		final_result	
1,1,1-Trichloroethane	10	U	10	U	10	U	10	U
1,1,2,2-Tetrachloroethane	10	U	10	U	10	U	10	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	10	UJ	10	UJ	10	UJ	10	UJ
1,1,2-Trichloroethane	10	U	10	U	10	U	10	U
1,1-Dichloroethane	10	U	10	U	10	U	10	U
1,1-Dichloroethene	10	UJ	10	UJ	10	UJ	10	UJ
1,2,4-Trichlorobenzene	10	U	10	U	10	U	10	U
1,2-Dibromo-3-chloropropane	10	U	10	U	10	U	10	U
1,2-Dibromoethane	10	U	10	U	10	U	10	U
1,2-Dichlorobenzene	10	U	10	U	10	U	10	U
1,2-Dichloroethane	10	U	10	U	10	U	10	U
1,2-Dichloropropane	10	U	10	U	10	U	10	U
1,3-Dichlorobenzene	10	U	10	U	10	U	10	U
1,4-Dichlorobenzene	10	U	10	U	10	U	10	U
2-Butanone	10	U	10	U	10	U	10	U
2-Hexanone	10	UJ	10	UJ	10	UJ	10	UJ
4-Methyl-2-pentanone	10	U	10	U	10	U	10	U
Acetic acid, methyl ester	10	U	10	U	10	U	10	U
Acetone	10	UJ	10	UJ	10	UJ	10	UJ
Benzene	10	U	10	U	10	U	10	U
Bromodichloromethane	10	U	10	U	10	U	10	U
Bromoform	10	U	10	U	10	U	10	U
Bromomethane	10	UJ	10	UJ	10	UJ	10	UJ
Carbon disulfide	10	UJ	10	UJ	10	UJ	10	UJ
Carbon tetrachloride	10	U	10	U	10	U	10	U
Chlorobenzene	10	U	10	U	10	U	10	U
Chlorodibromomethane	10	U	10	U	10	U	10	U
Chloroethane	10	UJ	10	UJ	10	UJ	10	UJ
Chloroform	10	U	10	U	10	U	10	U
Chloromethane	10	U	10	U	10	U	10	U
Cis-1,2-Dichloroethene	10	U	10	U	10	U	10	U
cis-1,3-Dichloropropene	10	U	10	U	10	U	10	U
Cyclohexane	10	U	10	U	10	U	10	U
Dichlorodifluoromethane	10	U	10	U	10	U	10	U
Ethyl benzene	10	U	10	U	10	U	10	U

Loc Name	MW-001		MW-002		MW-003		MW-004	
Field Sample Id	STMW00102502XX		STMW00202502XX		STMW00302002XX		STMW00402002XX	
Field Sample Date	3/28/2006		3/28/2006		3/28/2006		3/29/2006	
Lab Sample Id	E0379-04A		E0379-05A		E0379-06A		E0379-07A	
Qc Code	FS		FS		FS		FS	
	final_result		final_result		final_result		final_result	
Isopropylbenzene	10	U	10	U	10	U	10	U
Methyl cyclohexane	10	U	10	U	10	U	10	U
Methyl Tertbutyl Ether	10	U	10	U	10	U	10	U
Methylene chloride	10	U	10	U	10	U	10	U
Styrene	10	U	10	U	10	U	10	U
Tetrachloroethene	10	U	10	U	10	U	10	U
Toluene	10	U	10	U	10	U	10	U
trans-1,2-Dichloroethene	10	U	10	U	10	U	10	U
trans-1,3-Dichloropropene	10	U	10	U	10	U	10	U
Trichloroethene	3	J	4	J	2	J	4	J
Trichlorofluoromethane	10	UJ	10	UJ	10	UJ	10	UJ
Vinyl chloride	10	U	10	U	10	U	10	U
Xylenes, Total	10	U	10	U	10	U	10	U

Table Created By: AZ 6/27/06
Table Checked By: CRS 7/31/06

Notes:
Results in micrograms per liter (µg/L)
Samples analyzed for VOCs by Method EPA OLM04.2
QC Code:
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FD = Field Duplicate
Qualifers:
U = Not detected at a concentration above the reporting limit
J = Result is estimated

Loc Name	MW-005		MW-006		MW-006		MW-007	
Field Sample Id	STMW00501502XX		STMW00602002XD		STMW00602002XX		STMW00701802XX	
Field Sample Date	3/29/2006		3/28/2006		3/28/2006		3/29/2006	
Lab Sample Id	E0379-09A		E0379-02A		E0379-01A		E0379-08A	
Qc Code	FS		FD		FS		FS	
	final_result		final_result		final_result		final_result	
1,1,1-Trichloroethane	10	U	10	U	10	U	10	U
1,1,2,2-Tetrachloroethane	10	U	10	U	10	U	10	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	10	UJ	10	UJ	10	UJ	10	UJ
1,1,2-Trichloroethane	10	U	10	U	10	U	10	U
1,1-Dichloroethane	10	U	10	U	10	U	10	U
1,1-Dichloroethene	10	UJ	10	UJ	10	UJ	10	UJ
1,2,4-Trichlorobenzene	10	U	10	U	10	U	10	U
1,2-Dibromo-3-chloropropane	10	U	10	U	10	U	10	U
1,2-Dibromoethane	10	U	10	U	10	U	10	U
1,2-Dichlorobenzene	10	U	10	U	10	U	10	U
1,2-Dichloroethane	10	U	10	U	10	U	10	U
1,2-Dichloropropane	10	U	10	U	10	U	10	U
1,3-Dichlorobenzene	10	U	10	U	10	U	10	U
1,4-Dichlorobenzene	10	U	10	U	10	U	10	U
2-Butanone	10	U	10	U	10	U	10	U
2-Hexanone	10	UJ	10	UJ	10	UJ	10	UJ
4-Methyl-2-pentanone	10	U	10	U	10	U	10	U
Acetic acid, methyl ester	10	U	10	U	10	U	10	U
Acetone	10	UJ	10	UJ	10	UJ	10	UJ
Benzene	10	U	10	UJ	10	UJ	10	U
Bromodichloromethane	10	U	10	U	10	U	10	U
Bromoform	10	U	10	U	10	U	10	U
Bromomethane	10	UJ	10	UJ	10	UJ	10	UJ
Carbon disulfide	10	UJ	10	UJ	10	UJ	10	UJ
Carbon tetrachloride	10	U	10	U	10	U	10	U
Chlorobenzene	10	U	10	UJ	10	UJ	10	U
Chlorodibromomethane	10	U	10	U	10	U	10	U
Chloroethane	10	UJ	10	UJ	10	UJ	10	UJ
Chloroform	10	U	10	U	10	U	10	U
Chloromethane	10	U	10	U	10	U	10	U
Cis-1,2-Dichloroethene	10	U	10	U	10	U	10	U
cis-1,3-Dichloropropene	10	U	10	U	10	U	10	U
Cyclohexane	18		10	U	10	U	10	U
Dichlorodifluoromethane	10	U	10	U	10	U	10	U
Ethyl benzene	10	U	10	U	10	U	10	U

Loc Name	MW-005		MW-006		MW-006		MW-007	
Field Sample Id	STMW00501502XX		STMW00602002XD		STMW00602002XX		STMW00701802XX	
Field Sample Date	3/29/2006		3/28/2006		3/28/2006		3/29/2006	
Lab Sample Id	E0379-09A		E0379-02A		E0379-01A		E0379-08A	
Qc Code	FS		FD		FS		FS	
	final_result		final_result		final_result		final_result	
Isopropylbenzene	10	U	10	U	10	U	10	U
Methyl cyclohexane	35		10	U	10	U	10	U
Methyl Tertbutyl Ether	10	U	10	U	10	U	10	U
Methylene chloride	10	U	1	J	1	J	10	U
Styrene	10	U	10	U	10	U	10	U
Tetrachloroethene	10	U	10	U	10	U	10	U
Toluene	10	U	10	UJ	10	UJ	10	U
trans-1,2-Dichloroethene	10	U	10	U	10	U	10	U
trans-1,3-Dichloropropene	10	U	10	U	10	U	10	U
Trichloroethene	5	J	6	J	6	J	1	J
Trichlorofluoromethane	10	UJ	10	UJ	10	UJ	10	UJ
Vinyl chloride	10	U	10	U	10	U	10	U
Xylenes, Total	10	U	10	U	10	U	10	U

Table Created By: AZ 6/27/06
Table Checked By: CRS 7/31/06

Notes:
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Loc Name	MW-001	MW-002	MW-003	MW-004	MW-005	MW-006	MW-006	MW-007
Field Sample Id	STMW00102502XX	STMW00202502XX	STMW00302002XX	STMW00402002XX	STMW00501502XX	STMW00602002XD	STMW00602002XX	STMW00701802XX
Field Sample Date	3/28/2006	3/28/2006	3/28/2006	3/29/2006	3/29/2006	3/28/2006	3/28/2006	3/29/2006
Lab Sample Id	E0379-04C	E0379-05C	E0379-06C	E0379-07C	E0379-09C	E0379-02C	E0379-01C	E0379-08C
Qc Code	FS	FS	FS	FS	FS	FD	FS	FS
	final_result	final_result	final_result	final_result	final_result	final_result	final_result	final_result
2,4,5-Trichlorophenol	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2,4,6-Trichlorophenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
2,4-Dinitrophenol	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2,4-Dinitrotoluene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2-Nitrophenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3,3`-Dichlorobenzidine	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
4,6-Dinitro-2-methylphenol	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
4-Bromophenyl phenyl ether	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
4-Chlorophenyl phenyl ether	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methylphenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
4-Nitrophenol	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Acenaphthene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetophenone	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Atrazine	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzaldehyde	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(ghi)perylene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Biphenyl	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bis(2-Chloroethoxy)methane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bis(2-Chloroethyl)ether	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bis(2-Chloroisopropyl)ether	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bis(2-Ethylhexyl)phthalate	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 J
Butylbenzylphthalate	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U

Loc Name	MW-001	MW-002	MW-003	MW-004	MW-005	MW-006	MW-006	MW-007
Field Sample Id	STMW00102502XX	STMW00202502XX	STMW00302002XX	STMW00402002XX	STMW00501502XX	STMW00602002XD	STMW00602002XX	STMW00701802XX
Field Sample Date	3/28/2006	3/28/2006	3/28/2006	3/29/2006	3/29/2006	3/28/2006	3/28/2006	3/29/2006
Lab Sample Id	E0379-04C	E0379-05C	E0379-06C	E0379-07C	E0379-09C	E0379-02C	E0379-01C	E0379-08C
Qc Code	FS	FS	FS	FS	FS	FD	FS	FS
	final_result	final_result	final_result	final_result	final_result	final_result	final_result	final_result
Caprolactum	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbazole	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dimethylphthalate	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Hexachloroethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Isophorone	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodi-n-propylamine	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Phenanthrene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U

Table Created By: AZ 6/27/06
Table Checked By: CRS 7/31/06

Notes:
Results in micrograms per liter (µg/L)
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Loc Name	MW-001		MW-002		MW-003		MW-004		MW-005		MW-006		MW-006		MW-007	
Field Sample Id	STMW00102502XX		STMW00202502XX		STMW00302002XX		STMW00402002XX		STMW00501502XX		STMW00602002XD		STMW00602002XX		STMW00701802XX	
Field Sample Date	3/28/2006		3/28/2006		3/28/2006		3/29/2006		3/29/2006		3/28/2006		3/28/2006		3/29/2006	
Lab Sample Id	E0379-04C		E0379-05C		E0379-06C		E0379-07C		E0379-09C		E0379-02C		E0379-01C		E0379-08C	
Qc Code	FS		FS		FS		FS		FS		FD		FS		FS	
	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
4,4`-DDD	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
4,4`-DDE	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
4,4`-DDT	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
Aldrin	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
Alpha-BHC	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
Alpha-Chlordane	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
Aroclor-1016	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Aroclor-1221	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Aroclor-1232	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Aroclor-1242	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Aroclor-1248	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Aroclor-1254	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Aroclor-1260	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Beta-BHC	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
Delta-BHC	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
Dieldrin	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
Endosulfan I	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
Endosulfan II	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
Endosulfan sulfate	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
Endrin	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
Endrin aldehyde	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
Endrin ketone	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
Gamma-BHC/Lindane	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
Gamma-Chlordane	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
Heptachlor	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
Heptachlor epoxide	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
Methoxychlor	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Toxaphene	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U

Table Created By: AZ 6/27/06
Table Checked By: CRS 7/31/06

Notes:
Results in micrograms per liter (µg/L)
Samples analyzed for Pesticides/PCBs by Method EPA OLM04.2
QC Code:
FS = Field Sample
FD = Field Duplicate
Qualifers:
U = Not detected at a concentration above the reporting limit

Loc Name	MW-001		MW-002		MW-003		MW-004		MW-005		MW-006		MW-006		MW-007	
Field Sample Id	STMW00102502XX		STMW00202502XX		STMW00302002XX		STMW00402002XX		STMW00501502XX		STMW00602002XD		STMW00602002XX		STMW00701802XX	
Field Sample Date	3/28/2006		3/28/2006		3/28/2006		3/29/2006		3/29/2006		3/28/2006		3/28/2006		3/29/2006	
Lab Sample Id	E0379-04C		E0379-05C		E0379-06C		E0379-07C		E0379-09C		E0379-02C		E0379-01C		E0379-08C	
Qc Code	FS		FS		FS		FS		FS		FD		FS		FS	
	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier

Loc Name	MW-001		MW-002		MW-003		MW-004		MW-005		MW-006		MW-006		MW-007	
Field Sample Id	STMW00102502XX		STMW00202502XX		STMW00302002XX		STMW00402002XX		STMW00501502XX		STMW00602002XD		STMW00602002XX		STMW00701802XX	
Field Sample Date	3/28/2006		3/28/2006		3/28/2006		3/29/2006		3/29/2006		3/28/2006		3/28/2006		3/29/2006	
Lab Sample Id	E0379-04		E0379-05		E0379-06		E0379-07		E0379-09		E0379-02		E0379-01		E0379-08	
Qc Code	FS		FS		FS		FS		FS		FD		FS		FS	
	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Mercury	0.3	U	0.3	U	0.3	U	0.28	U	0.3	U	0.3	U	0.29	U	0.3	U
Aluminum	222		200	U	200	U	200	U	200	U	200	U	200	U	200	U
Antimony	60	U	60	U	60	U	60	U	60	U	60	U	60	U	60	U
Arsenic	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Barium	158	BE	168	BE	171	BE	148	BE	252	E	203	E	208	E	152	BE
Beryllium	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Cadmium	0.23	B	0.38	B	0.54	B	0.34	B	5	U	5	U	0.31	B	1.1	B
Calcium	90,400		95,700		101,000		97,400		106,000		110,000		109,000		97,000	
Chromium	0.95	B	10	U	10	U	10	U	10	U	10	U	0.52	B	10	U
Cobalt	2	U	50	U	50	U	50	U	50	U	50	U	0.51	U	50	U
Copper	5.4	U	2.4	U	2.2	U	1.9	U	2.8	U	3.9	U	9.9	U	1.7	U
Iron	393	J	23.9	UJ	100	UJ	100	UJ	1010	J	19.2	UJ	67.3	JB	17.1	UJ
Lead	1.1	U	3	U	3	U	3	U	3	U	3	U	1.2	U	3	U
Magnesium	19,300	EJ	20,700	EJ	21,300	EJ	20,400	EJ	21,700	EJ	22,800	EJ	22,600	JE	20,800	EJ
Manganese	90.2		2.6	U	1.4	U	0.86	U	321		3.7	U	4.1	B	4.6	B
Nickel	1.4	U	40	U	40	U	40	U	0.79	U	0.71	U	1.5	U	40	U
Potassium	4,380	B	1,820	B	1,840	B	1,600	B	2,020	B	1,900	B	1,880	B	1,670	B
Selenium	5	UN	5	UN	5	UN	5	UN	3.1	BN	5	UN	5	UN	5	UN
Silver	0.94	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Sodium	149,000		143,000		145,000		163,000		133,000		282,000		286,000		157,000	
Thallium	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Vanadium	0.98	B	50	U	50	U	0.47	B	50	U	50	U	0.51	B	50	U
Zinc	13.3	U	11.3	U	9.2	U	9.9	U	8.1	U	8.4	U	13.3	U	9	U

Table Created By: AZ 6/27/06
Table Checked By: CRS 7/31/06

Notes:
Results in micrograms per liter (µg/L)
Samples analyzed for Metals by Method EPA ILM04.1
QC Code:
FS = Field Sample
FD = Field Duplicate
Qualifers:
U = Not detected at a concentration above the reporting limit
J = Result is estimated
B = The reported result fell above the IDL but below the CRDL
E = The percent difference between the serial dilution and the parent sample was greater than 10%
N = The matrix spike recovery is outside of specified control limits

		Lab Sample Delivery Group		D1367		D1367		D1367		D1367		D1367	
		Loc Name		BS-001		BS-002		BS-003		BS-004		BS-005	
		Field Sample Id		STBS00101601XX		STBS00201801XX		STBS00301601XX		STBS00406001XX		STBS00501701XX	
		Field Sample Date		11/15/2005		11/16/2005		11/16/2005		11/15/2005		11/15/2005	
		Qc Code		FS		FS		FS		FS		FS	
Media	**Method**	**Parameter**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SOIL	OLM4.2_VOA	1,1,1-Trichloroethane	ug/kg	10	U	11	U	11	U	11	U	610	U
SOIL	OLM4.2_VOA	1,1,2,2-Tetrachloroethane	ug/kg	10	U	11	U	11	U	11	U	610	U
SOIL	OLM4.2_VOA	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/kg	10	U	11	U	11	U	11	U	610	U
SOIL	OLM4.2_VOA	1,1,2-Trichloroethane	ug/kg	10	U	11	U	11	U	11	U	610	U
SOIL	OLM4.2_VOA	1,1-Dichloroethane	ug/kg	10	U	11	U	11	U	11	U	610	U
SOIL	OLM4.2_VOA	1,1-Dichloroethene	ug/kg	10	U	11	U	11	U	11	U	610	U
SOIL	OLM4.2_VOA	1,2,4-Trichlorobenzene	ug/kg	10	U	11	U	11	U	11	U	610	U
SOIL	OLM4.2_VOA	1,2-Dibromo-3-chloropropane	ug/kg	10	U	11	U	11	U	11	U	610	U
SOIL	OLM4.2_VOA	1,2-Dibromoethane	ug/kg	10	U	11	U	11	U	11	U	610	U
SOIL	OLM4.2_VOA	1,2-Dichlorobenzene	ug/kg	10	U	11	U	11	U	11	U	610	U
SOIL	OLM4.2_VOA	1,2-Dichloroethane	ug/kg	10	U	11	U	11	U	11	U	610	U
SOIL	OLM4.2_VOA	1,2-Dichloropropane	ug/kg	10	U	11	U	11	U	11	U	610	U
SOIL	OLM4.2_VOA	1,3-Dichlorobenzene	ug/kg	10	U	11	U	11	U	11	U	610	U
SOIL	OLM4.2_VOA	1,4-Dichlorobenzene	ug/kg	10	U	11	U	11	U	11	U	610	U
SOIL	OLM4.2_VOA	2-Butanone	ug/kg	10	UJ	11	U	11	U	11	UJ	610	U
SOIL	OLM4.2_VOA	2-Hexanone	ug/kg	10	U	11	U	11	U	11	U	610	U
SOIL	OLM4.2_VOA	4-Methyl-2-pentanone	ug/kg	10	U	11	U	11	U	11	U	610	U
SOIL	OLM4.2_VOA	Acetic acid, methyl ester	ug/kg	10	U	11	U	11	U	11	U	610	U
SOIL	OLM4.2_VOA	Acetone	ug/kg	10	UJ	18		11	U	36	J	610	U
SOIL	OLM4.2_VOA	Benzene	ug/kg	3	J	3	J	11	U	3	J	610	U
SOIL	OLM4.2_VOA	Bromodichloromethane	ug/kg	10	U	11	U	11	U	11	U	610	U
SOIL	OLM4.2_VOA	Bromoform	ug/kg	10	U	11	U	11	U	11	U	610	U
SOIL	OLM4.2_VOA	Bromomethane	ug/kg	10	U	11	U	11	U	11	U	610	U
SOIL	OLM4.2_VOA	Carbon disulfide	ug/kg	10	U	11	U	11	U	11	U	610	U
SOIL	OLM4.2_VOA	Carbon tetrachloride	ug/kg	10	U	11	U	11	U	11	U	610	U
SOIL	OLM4.2_VOA	Chlorobenzene	ug/kg	10	U	11	U	11	U	11	U	610	U
SOIL	OLM4.2_VOA	Chlorodibromomethane	ug/kg	10	U	11	U	11	U	11	U	610	U
SOIL	OLM4.2_VOA	Chloroethane	ug/kg	10	U	11	U	11	U	11	U	610	U
SOIL	OLM4.2_VOA	Chloroform	ug/kg	10	U	11	U	11	U	11	U	610	U
SOIL	OLM4.2_VOA	Chloromethane	ug/kg	10	U	11	U	11	U	11	U	610	U
SOIL	OLM4.2_VOA	Cis-1,2-Dichloroethene	ug/kg	10	U	11	U	11	U	11	U	610	U
SOIL	OLM4.2_VOA	cis-1,3-Dichloropropene	ug/kg	10	U	11	U	11	U	11	U	610	U
SOIL	OLM4.2_VOA	Cyclohexane	ug/kg	10	U	10	J	6	J	10	J	1800	D
SOIL	OLM4.2_VOA	Dichlorodifluoromethane	ug/kg	10	U	11	U	11	U	11	U	610	U
SOIL	OLM4.2_VOA	Ethyl benzene	ug/kg	10	U	11	U	11	U	11	U	610	U
SOIL	OLM4.2_VOA	Isopropylbenzene	ug/kg	10	U	11	U	11	U	11	U	610	U
SOIL	OLM4.2_VOA	Methyl cyclohexane	ug/kg	15		14		8	J	16		3800	D
SOIL	OLM4.2_VOA	Methyl Tertbutyl Ether	ug/kg	10	U	11	U	11	U	11	U	610	U
SOIL	OLM4.2_VOA	Methylene chloride	ug/kg	12	U	11		9		13	U	610	U
SOIL	OLM4.2_VOA	Styrene	ug/kg	10	U	11	U	11	U	11	U	610	U

		Lab Sample Delivery Group		D1367		D1367		D1367		D1367		D1367	
		Loc Name		BS-001		BS-002		BS-003		BS-004		BS-005	
		Field Sample Id		STBS00101601XX		STBS00201801XX		STBS00301601XX		STBS00406001XX		STBS00501701XX	
		Field Sample Date		11/15/2005		11/16/2005		11/16/2005		11/15/2005		11/15/2005	
		Qc Code		FS		FS		FS		FS		FS	
Media	**Method**	**Parameter**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SOIL	OLM4.2_VOA	Tetrachloroethene	ug/kg	10	U	11	U	11	U	11	U	610	U
SOIL	OLM4.2_VOA	Toluene	ug/kg	9	J	4	J	3	J	8	J	610	U
SOIL	OLM4.2_VOA	trans-1,2-Dichloroethene	ug/kg	10	U	11	U	11	U	11	U	610	U
SOIL	OLM4.2_VOA	trans-1,3-Dichloropropene	ug/kg	10	U	11	U	11	U	11	U	610	U
SOIL	OLM4.2_VOA	Trichloroethene	ug/kg	10	U	11	U	11	U	11	U	610	U
SOIL	OLM4.2_VOA	Trichlorofluoromethane	ug/kg	10	U	11	U	11	U	11	U	610	U
SOIL	OLM4.2_VOA	Vinyl chloride	ug/kg	10	U	11	U	11	U	11	U	610	U
SOIL	OLM4.2_VOA	Xylenes, Total	ug/kg	4	J	1	J	11	U	4	J	610	U
SOIL	OLM4.2_SVOA	2,4,5-Trichlorophenol	ug/kg	860	U	910	U	880	U	890	U	930	U
SOIL	OLM4.2_SVOA	2,4,6-Trichlorophenol	ug/kg	340	U	360	U	350	U	350	U	370	U
SOIL	OLM4.2_SVOA	2,4-Dichlorophenol	ug/kg	340	U	360	U	350	U	350	U	370	U
SOIL	OLM4.2_SVOA	2,4-Dimethylphenol	ug/kg	340	U	360	U	350	U	350	U	370	U
SOIL	OLM4.2_SVOA	2,4-Dinitrophenol	ug/kg	860	U	910	U	880	U	890	U	930	U
SOIL	OLM4.2_SVOA	2,4-Dinitrotoluene	ug/kg	340	U	360	U	350	U	350	U	370	U
SOIL	OLM4.2_SVOA	2,6-Dinitrotoluene	ug/kg	340	U	360	U	350	U	350	U	370	U
SOIL	OLM4.2_SVOA	2-Chloronaphthalene	ug/kg	340	U	360	U	350	U	350	U	370	U
SOIL	OLM4.2_SVOA	2-Chlorophenol	ug/kg	340	U	360	U	350	U	350	U	370	U
SOIL	OLM4.2_SVOA	2-Methylnaphthalene	ug/kg	340	U	360	U	350	U	350	U	370	U
SOIL	OLM4.2_SVOA	2-Methylphenol	ug/kg	340	U	360	U	350	U	350	U	370	U
SOIL	OLM4.2_SVOA	2-Nitroaniline	ug/kg	860	U	910	U	880	U	890	U	930	U
SOIL	OLM4.2_SVOA	2-Nitrophenol	ug/kg	340	U	360	U	350	U	350	U	370	U
SOIL	OLM4.2_SVOA	3,3`-Dichlorobenzidine	ug/kg	340	U	360	U	350	U	350	UJ	370	UJ
SOIL	OLM4.2_SVOA	3-Nitroaniline	ug/kg	860	U	910	U	880	U	890	U	930	U
SOIL	OLM4.2_SVOA	4,6-Dinitro-2-methylphenol	ug/kg	860	U	910	U	880	U	890	U	930	U
SOIL	OLM4.2_SVOA	4-Bromophenyl phenyl ether	ug/kg	340	U	360	U	350	U	350	U	370	U
SOIL	OLM4.2_SVOA	4-Chloro-3-methylphenol	ug/kg	340	U	360	U	350	U	350	U	370	U
SOIL	OLM4.2_SVOA	4-Chloroaniline	ug/kg	340	U	360	U	350	U	350	U	370	U
SOIL	OLM4.2_SVOA	4-Chlorophenyl phenyl ether	ug/kg	340	U	360	U	350	U	350	U	370	U
SOIL	OLM4.2_SVOA	4-Methylphenol	ug/kg	340	U	360	U	350	U	350	U	370	U
SOIL	OLM4.2_SVOA	4-Nitroaniline	ug/kg	860	U	910	U	880	U	890	U		
SOIL	OLM4.2_SVOA	4-Nitrophenol	ug/kg	860	U	910	U	880	U	890	U	930	U
SOIL	OLM4.2_SVOA	Acenaphthene	ug/kg	340	U	360	U	350	U	350	U	370	U
SOIL	OLM4.2_SVOA	Acenaphthylene	ug/kg	340	U	360	U	350	U	350	U	370	U
SOIL	OLM4.2_SVOA	Acetophenone	ug/kg	340	U	360	U	350	U	350	U	370	U
SOIL	OLM4.2_SVOA	Anthracene	ug/kg	340	U	360	U	350	U	350	U	370	U
SOIL	OLM4.2_SVOA	Atrazine	ug/kg	340	U	360	U	350	U	350	U	370	UJ
SOIL	OLM4.2_SVOA	Benzaldehyde	ug/kg	340	U	360	U	350	U	350	UJ	370	UJ
SOIL	OLM4.2_SVOA	Benzo[a]anthracene	ug/kg	340	U	96	J	350	U	350	U	370	U
SOIL	OLM4.2_SVOA	Benzo[a]pyrene	ug/kg	340	U	100	J	350	U	350	U	370	U
SOIL	OLM4.2_SVOA	Benzo[b]fluoranthene	ug/kg	340	U	140	J	350	U	350	U	370	U

		Lab Sample Delivery Group		D1367		D1367		D1367		D1367		D1367	
		Loc Name		BS-001		BS-002		BS-003		BS-004		BS-005	
		Field Sample Id		STBS00101601XX		STBS00201801XX		STBS00301601XX		STBS00406001XX		STBS00501701XX	
		Field Sample Date		11/15/2005		11/16/2005		11/16/2005		11/15/2005		11/15/2005	
		Qc Code		FS		FS		FS		FS		FS	
Media	**Method**	**Parameter**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SOIL	OLM4.2_SVOA	Benzo[ghi]perylene	ug/kg	340	U	360	U	350	U	350	UJ	370	U
SOIL	OLM4.2_SVOA	Benzo[k]fluoranthene	ug/kg	340	U	65	J	350	U	350	U	370	U
SOIL	OLM4.2_SVOA	Biphenyl	ug/kg	340	U	360	U	350	U	350	U	370	U
SOIL	OLM4.2_SVOA	Bis(2-Chloroethoxy)methane	ug/kg	340	U	360	U	350	U	350	U	370	U
SOIL	OLM4.2_SVOA	Bis(2-Chloroethyl)ether	ug/kg	340	U	360	U	350	U	350	U	370	U
SOIL	OLM4.2_SVOA	Bis(2-Chloroisopropyl)ether	ug/kg	340	U	360	U	350	U	350	U	370	U
SOIL	OLM4.2_SVOA	Bis(2-Ethylhexyl)phthalate	ug/kg	96	J	57	J	160	J	50	J	110	J
SOIL	OLM4.2_SVOA	Butylbenzylphthalate	ug/kg	340	U	360	U	350	U	350	U	370	U
SOIL	OLM4.2_SVOA	Caprolactum	ug/kg	340	U	360	U	350	U	350	U	370	UJ
SOIL	OLM4.2_SVOA	Carbazole	ug/kg	340	U	360	U	350	U	350	U	370	U
SOIL	OLM4.2_SVOA	Chrysene	ug/kg	340	U	100	J	350	U	350	U	370	U
SOIL	OLM4.2_SVOA	Di-n-butylphthalate	ug/kg	340	U	360	U	350	U	350	U	370	U
SOIL	OLM4.2_SVOA	Di-n-octylphthalate	ug/kg	340	U	360	U	350	U	350	U	370	U
SOIL	OLM4.2_SVOA	Dibenz[a,h]anthracene	ug/kg	340	U	360	U	350	U	350	UJ	370	UJ
SOIL	OLM4.2_SVOA	Dibenzofuran	ug/kg	340	U	360	U	350	U	350	U	370	U
SOIL	OLM4.2_SVOA	Diethylphthalate	ug/kg	340	U	360	U	350	U	350	U	370	U
SOIL	OLM4.2_SVOA	Dimethylphthalate	ug/kg	340	U	360	U	350	U	350	U	370	U
SOIL	OLM4.2_SVOA	Fluoranthene	ug/kg	340	U	200	J	350	U	350	U	370	U
SOIL	OLM4.2_SVOA	Fluorene	ug/kg	340	U	360	U	350	U	350	U	370	U
SOIL	OLM4.2_SVOA	Hexachlorobenzene	ug/kg	340	U	360	U	350	U	350	U	370	U
SOIL	OLM4.2_SVOA	Hexachlorobutadiene	ug/kg	340	U	360	U	350	U	350	U	370	U
SOIL	OLM4.2_SVOA	Hexachlorocyclopentadiene	ug/kg	340	U	360	U	350	U	350	U	370	U
SOIL	OLM4.2_SVOA	Hexachloroethane	ug/kg	340	U	360	U	350	U	350	U	370	U
SOIL	OLM4.2_SVOA	Indeno[1,2,3-cd]pyrene	ug/kg	340	U	360	U	350	U	350	UJ	370	U
SOIL	OLM4.2_SVOA	Isophorone	ug/kg	340	U	360	U	350	U	350	U	370	U
SOIL	OLM4.2_SVOA	N-Nitrosodi-n-propylamine	ug/kg	340	U	360	U	350	U	350	U	370	U
SOIL	OLM4.2_SVOA	N-Nitrosodiphenylamine	ug/kg	340	U	360	U	350	U	350	U	370	U
SOIL	OLM4.2_SVOA	Naphthalene	ug/kg	340	U	360	U	350	U	350	U	370	U
SOIL	OLM4.2_SVOA	Nitrobenzene	ug/kg	340	U	360	U	350	U	350	U	370	U
SOIL	OLM4.2_SVOA	Pentachlorophenol	ug/kg	860	U	910	U	880	U	890	U	930	U
SOIL	OLM4.2_SVOA	Phenanthrene	ug/kg	340	U	92	J	350	U	350	U	46	J
SOIL	OLM4.2_SVOA	Phenol	ug/kg	340	U	360	U	350	U	350	U	370	U
SOIL	OLM4.2_SVOA	Pyrene	ug/kg	340	U	150	J	350	U	350	U	370	U
SOIL	OLM4.2_PP	4,4`-DDD	ug/kg	3.4	U	3.6	U	3.5	U	3.5	U		
SOIL	OLM4.2_PP	4,4`-DDE	ug/kg	3.4	U	3.6	U	3.5	U	3.5	U		
SOIL	OLM4.2_PP	4,4`-DDT	ug/kg	3.4	U	3.6	U	3.5	U	3.5	U		
SOIL	OLM4.2_PP	Aldrin	ug/kg	1.7	U	1.9	U	1.8	U	1.8	U		
SOIL	OLM4.2_PP	Alpha-BHC	ug/kg	1.7	U	1.9	U	1.8	U	1.8	U		
SOIL	OLM4.2_PP	Alpha-Chlordane	ug/kg	1.7	U	1.9	U	1.8	U	1.8	U		
SOIL	OLM4.2_PP	Aroclor-1016	ug/kg	34	U	36	U	35	U	35	U		

		Lab Sample Delivery Group		D1367		D1367		D1367		D1367		D1367	
		Loc Name		BS-001		BS-002		BS-003		BS-004		BS-005	
		Field Sample Id		STBS00101601XX		STBS00201801XX		STBS00301601XX		STBS00406001XX		STBS00501701XX	
		Field Sample Date		11/15/2005		11/16/2005		11/16/2005		11/15/2005		11/15/2005	
		Qc Code		FS		FS		FS		FS		FS	
Media	**Method**	**Parameter**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SOIL	OLM4.2_PP	Aroclor-1221	ug/kg	69	U	73	U	72	U	72	U		
SOIL	OLM4.2_PP	Aroclor-1232	ug/kg	34	U	36	U	35	U	35	U		
SOIL	OLM4.2_PP	Aroclor-1242	ug/kg	34	U	36	U	35	U	35	U		
SOIL	OLM4.2_PP	Aroclor-1248	ug/kg	34	U	36	U	35	U	35	U		
SOIL	OLM4.2_PP	Aroclor-1254	ug/kg	34	U	36	U	35	U	35	U		
SOIL	OLM4.2_PP	Aroclor-1260	ug/kg	34	U	36	U	35	U	35	U		
SOIL	OLM4.2_PP	Beta-BHC	ug/kg	1.7	U	1.9	U	1.8	U	1.8	U		
SOIL	OLM4.2_PP	Delta-BHC	ug/kg	1.7	U	1.9	U	1.8	U	1.8	U		
SOIL	OLM4.2_PP	Dieldrin	ug/kg	3.4	U	3.6	U	3.5	U	3.5	U		
SOIL	OLM4.2_PP	Endosulfan I	ug/kg	1.7	U	1.9	U	1.8	U	1.8	U		
SOIL	OLM4.2_PP	Endosulfan II	ug/kg	3.4	U	3.6	U	3.5	U	3.5	U		
SOIL	OLM4.2_PP	Endosulfan sulfate	ug/kg	3.4	U	3.6	U	3.5	U	3.5	U		
SOIL	OLM4.2_PP	Endrin	ug/kg	3.4	U	3.6	U	3.5	U	3.5	U		
SOIL	OLM4.2_PP	Endrin aldehyde	ug/kg	3.4	U	3.6	U	3.5	U	3.5	U		
SOIL	OLM4.2_PP	Endrin ketone	ug/kg	3.4	U	3.6	U	3.5	U	3.5	U		
SOIL	OLM4.2_PP	Gamma-BHC/Lindane	ug/kg	1.7	U	1.9	U	1.8	U	1.8	U		
SOIL	OLM4.2_PP	Gamma-Chlordane	ug/kg	1.7	U	1.9	U	1.8	U	1.8	U		
SOIL	OLM4.2_PP	Heptachlor	ug/kg	1.7	U	1.9	U	1.8	U	1.8	U		
SOIL	OLM4.2_PP	Heptachlor epoxide	ug/kg	1.7	U	1.9	U	1.8	U	1.8	U		
SOIL	OLM4.2_PP	Methoxychlor	ug/kg	17	U	19	U	18	U	18	U		
SOIL	OLM4.2_PP	Toxaphene	ug/kg	170	U	190	U	180	U	180	U		
SOIL	ILM4.1_HG	Mercury	mg/kg	0.086	U	0.096	U	0.1	U	0.094	U		
SOIL	ILM4.1_ICP	Aluminum	mg/kg	8,730		7,710		6,800		6,400			
SOIL	ILM4.1_ICP	Antimony	mg/kg	9.4	UJ	12	UJ	9.9	UJ	11	UJ		
SOIL	ILM4.1_ICP	Arsenic	mg/kg	2.8		5.4		2.7		3.1			
SOIL	ILM4.1_ICP	Barium	mg/kg	54.3		52.4		53.6		27.7	B		
SOIL	ILM4.1_ICP	Beryllium	mg/kg	0.21	B	0.25	B	0.19	B	0.19	B		
SOIL	ILM4.1_ICP	Cadmium	mg/kg	0.78	U	1	U	0.83	U	0.077	B		
SOIL	ILM4.1_ICP	Calcium	mg/kg	42,600		70,700		59,800					
SOIL	ILM4.1_ICP	Chromium	mg/kg	13.3	E	12	E	13.2	E	10.8	E		
SOIL	ILM4.1_ICP	Cobalt	mg/kg	8	J	8.4	J	6.3	J	6.2	J		
SOIL	ILM4.1_ICP	Copper	mg/kg	29.9	J		R		R	26.9	J		
SOIL	ILM4.1_ICP	Iron	mg/kg	19,900	J	19,200	J	16,500	J	15,000	J		
SOIL	ILM4.1_ICP	Lead	mg/kg	10.6	J		R		R	9.5	J		
SOIL	ILM4.1_ICP	Magnesium	mg/kg	12,100	*	18,500	*	9,200	*	11,200	*		
SOIL	ILM4.1_ICP	Manganese	mg/kg	452		508		532		445			
SOIL	ILM4.1_ICP	Nickel	mg/kg	20.5	J	21.9	J	17.6	J	21.4	E		
SOIL	ILM4.1_ICP	Potassium	mg/kg	657	B	727	B	623	B	578	B		
SOIL	ILM4.1_ICP	Selenium	mg/kg		R		R		R		R		
SOIL	ILM4.1_ICP	Silver	mg/kg		R		R		R		R		

		Lab Sample Delivery Group		D1367		D1367		D1367		D1367		D1367	
		Loc Name		BS-001		BS-002		BS-003		BS-004		BS-005	
		Field Sample Id		STBS00101601XX		STBS00201801XX		STBS00301601XX		STBS00406001XX		STBS00501701XX	
		Field Sample Date		11/15/2005		11/16/2005		11/16/2005		11/15/2005		11/15/2005	
		Qc Code		FS		FS		FS		FS		FS	
Media	**Method**	**Parameter**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SOIL	ILM4.1_ICP	Sodium	mg/kg	105	B		R		R	126	B		
SOIL	ILM4.1_ICP	Thallium	mg/kg	2		2	B	1.9		0.99	B		
SOIL	ILM4.1_ICP	Vanadium	mg/kg	12.3		12.4		10.1		11			
SOIL	ILM4.1_ICP	Zinc	mg/kg	72.1	J		R		R	69.4	J		

		Lab Sample Delivery Group		D1367		D1367		D1367	
		Loc Name		BS-005		BS-005		BS-007	
		Field Sample Id		STBS00508001XD		STBS00508001XX		STBS00701001XX	
		Field Sample Date		11/15/2005		11/15/2005		11/14/2005	
		Qc Code		FD		FS		FS	
Media	**Method**	**Parameter**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier
SOIL	OLM4.2_VOA	1,1,1-Trichloroethane	ug/kg	10	U	11	U	11	U
SOIL	OLM4.2_VOA	1,1,2,2-Tetrachloroethane	ug/kg	10	U	11	U	11	U
SOIL	OLM4.2_VOA	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/kg	10	U	11	U	11	U
SOIL	OLM4.2_VOA	1,1,2-Trichloroethane	ug/kg	10	U	11	U	11	U
SOIL	OLM4.2_VOA	1,1-Dichloroethane	ug/kg	10	U	11	U	11	U
SOIL	OLM4.2_VOA	1,1-Dichloroethene	ug/kg	10	U	11	U	11	UJ
SOIL	OLM4.2_VOA	1,2,4-Trichlorobenzene	ug/kg	10	U	11	U	11	U
SOIL	OLM4.2_VOA	1,2-Dibromo-3-chloropropane	ug/kg	10	U	11	U	11	U
SOIL	OLM4.2_VOA	1,2-Dibromoethane	ug/kg	10	U	11	U	11	U
SOIL	OLM4.2_VOA	1,2-Dichlorobenzene	ug/kg	10	U	11	U	11	U
SOIL	OLM4.2_VOA	1,2-Dichloroethane	ug/kg	10	U	11	U	11	U
SOIL	OLM4.2_VOA	1,2-Dichloropropane	ug/kg	10	U	11	U	11	U
SOIL	OLM4.2_VOA	1,3-Dichlorobenzene	ug/kg	10	U	11	U	11	U
SOIL	OLM4.2_VOA	1,4-Dichlorobenzene	ug/kg	10	U	11	U	11	U
SOIL	OLM4.2_VOA	2-Butanone	ug/kg	10	UJ	11	UJ	11	UJ
SOIL	OLM4.2_VOA	2-Hexanone	ug/kg	10	U	11	U	11	U
SOIL	OLM4.2_VOA	4-Methyl-2-pentanone	ug/kg	10	U	11	U	11	U
SOIL	OLM4.2_VOA	Acetic acid, methyl ester	ug/kg	10	U	11	U	11	U
SOIL	OLM4.2_VOA	Acetone	ug/kg	10	UJ	22	J	11	UJ
SOIL	OLM4.2_VOA	Benzene	ug/kg	3	J	3	J	11	U
SOIL	OLM4.2_VOA	Bromodichloromethane	ug/kg	10	U	11	U	11	U
SOIL	OLM4.2_VOA	Bromoform	ug/kg	10	U	11	U	11	U
SOIL	OLM4.2_VOA	Bromomethane	ug/kg	10	U	11	U	11	UJ
SOIL	OLM4.2_VOA	Carbon disulfide	ug/kg	10	U	11	U	11	U
SOIL	OLM4.2_VOA	Carbon tetrachloride	ug/kg	10	U	11	U	11	U
SOIL	OLM4.2_VOA	Chlorobenzene	ug/kg	10	U	11	U	11	U
SOIL	OLM4.2_VOA	Chlorodibromomethane	ug/kg	10	U	11	U	11	U
SOIL	OLM4.2_VOA	Chloroethane	ug/kg	10	U	11	U	11	UJ
SOIL	OLM4.2_VOA	Chloroform	ug/kg	10	U	1	J	11	U
SOIL	OLM4.2_VOA	Chloromethane	ug/kg	10	U	11	U	11	U
SOIL	OLM4.2_VOA	Cis-1,2-Dichloroethene	ug/kg	10	U	11	U	11	U
SOIL	OLM4.2_VOA	cis-1,3-Dichloropropene	ug/kg	10	U	11	U	11	U
SOIL	OLM4.2_VOA	Cyclohexane	ug/kg	11		11	U	11	U
SOIL	OLM4.2_VOA	Dichlorodifluoromethane	ug/kg	10	U	11	U	11	U
SOIL	OLM4.2_VOA	Ethyl benzene	ug/kg	10	U	11	U	11	U
SOIL	OLM4.2_VOA	Isopropylbenzene	ug/kg	10	U	11	U	11	U
SOIL	OLM4.2_VOA	Methyl cyclohexane	ug/kg	18		16		11	U
SOIL	OLM4.2_VOA	Methyl Tertbutyl Ether	ug/kg	10	U	11	U	11	U
SOIL	OLM4.2_VOA	Methylene chloride	ug/kg	13	U	11	U	11	U
SOIL	OLM4.2_VOA	Styrene	ug/kg	10	U	11	U	11	U

		Lab Sample Delivery Group		D1367		D1367		D1367	
		Loc Name		BS-005		BS-005		BS-007	
		Field Sample Id		STBS00508001XD		STBS00508001XX		STBS00701001XX	
		Field Sample Date		11/15/2005		11/15/2005		11/14/2005	
		Qc Code		FD		FS		FS	
Media	**Method**	**Parameter**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier
SOIL	OLM4.2_VOA	Tetrachloroethene	ug/kg	10	U	11	U	11	U
SOIL	OLM4.2_VOA	Toluene	ug/kg	10	J	11		11	U
SOIL	OLM4.2_VOA	trans-1,2-Dichloroethene	ug/kg	10	U	11	U	11	U
SOIL	OLM4.2_VOA	trans-1,3-Dichloropropene	ug/kg	10	U	11	U	11	U
SOIL	OLM4.2_VOA	Trichloroethene	ug/kg	10	U	11	U	11	U
SOIL	OLM4.2_VOA	Trichlorofluoromethane	ug/kg	10	U	11	U	11	UJ
SOIL	OLM4.2_VOA	Vinyl chloride	ug/kg	10	U	11	U	11	U
SOIL	OLM4.2_VOA	Xylenes, Total	ug/kg	5	J	7	J	11	U
SOIL	OLM4.2_SVOA	2,4,5-Trichlorophenol	ug/kg	880	U	890	U	900	U
SOIL	OLM4.2_SVOA	2,4,6-Trichlorophenol	ug/kg	350	U	350	U	360	U
SOIL	OLM4.2_SVOA	2,4-Dichlorophenol	ug/kg	350	U	350	U	360	U
SOIL	OLM4.2_SVOA	2,4-Dimethylphenol	ug/kg	350	U	350	U	360	U
SOIL	OLM4.2_SVOA	2,4-Dinitrophenol	ug/kg	880	U	890	U	900	U
SOIL	OLM4.2_SVOA	2,4-Dinitrotoluene	ug/kg	350	U	350	U	360	U
SOIL	OLM4.2_SVOA	2,6-Dinitrotoluene	ug/kg	350	U	350	U	360	U
SOIL	OLM4.2_SVOA	2-Chloronaphthalene	ug/kg	350	U	350	U	360	U
SOIL	OLM4.2_SVOA	2-Chlorophenol	ug/kg	350	U	350	U	360	U
SOIL	OLM4.2_SVOA	2-Methylnaphthalene	ug/kg	350	U	350	U	360	U
SOIL	OLM4.2_SVOA	2-Methylphenol	ug/kg	350	U	350	U	360	U
SOIL	OLM4.2_SVOA	2-Nitroaniline	ug/kg	880	U	890	U	900	U
SOIL	OLM4.2_SVOA	2-Nitrophenol	ug/kg	350	U	350	U	360	U
SOIL	OLM4.2_SVOA	3,3`-Dichlorobenzidine	ug/kg	350	UJ	350	UJ	360	UJ
SOIL	OLM4.2_SVOA	3-Nitroaniline	ug/kg	880	U	890	U	900	U
SOIL	OLM4.2_SVOA	4,6-Dinitro-2-methylphenol	ug/kg	880	U	890	U	900	U
SOIL	OLM4.2_SVOA	4-Bromophenyl phenyl ether	ug/kg	350	U	350	U	360	U
SOIL	OLM4.2_SVOA	4-Chloro-3-methylphenol	ug/kg	350	U	350	U	360	U
SOIL	OLM4.2_SVOA	4-Chloroaniline	ug/kg	350	U	350	U	360	U
SOIL	OLM4.2_SVOA	4-Chlorophenyl phenyl ether	ug/kg	350	U	350	U	360	U
SOIL	OLM4.2_SVOA	4-Methylphenol	ug/kg	350	U	350	U	360	U
SOIL	OLM4.2_SVOA	4-Nitroaniline	ug/kg	880	U	890	U	900	U
SOIL	OLM4.2_SVOA	4-Nitrophenol	ug/kg	880	U	890	U	900	U
SOIL	OLM4.2_SVOA	Acenaphthene	ug/kg	350	U	350	U	360	U
SOIL	OLM4.2_SVOA	Acenaphthylene	ug/kg	350	U	350	U	360	U
SOIL	OLM4.2_SVOA	Acetophenone	ug/kg	350	U	350	U	360	U
SOIL	OLM4.2_SVOA	Anthracene	ug/kg	350	U	350	U	360	U
SOIL	OLM4.2_SVOA	Atrazine	ug/kg	350	U	350	U	360	U
SOIL	OLM4.2_SVOA	Benzaldehyde	ug/kg	350	UJ	350	UJ	360	UJ
SOIL	OLM4.2_SVOA	Benzo[a]anthracene	ug/kg	350	U	350	U	59	J
SOIL	OLM4.2_SVOA	Benzo[a]pyrene	ug/kg	350	U	350	U	72	J
SOIL	OLM4.2_SVOA	Benzo[b]fluoranthene	ug/kg	350	U	350	U	120	J

		Lab Sample Delivery Group		D1367		D1367		D1367	
		Loc Name		BS-005		BS-005		BS-007	
		Field Sample Id		STBS00508001XD		STBS00508001XX		STBS00701001XX	
		Field Sample Date		11/15/2005		11/15/2005		11/14/2005	
		Qc Code		FD		FS		FS	
Media	**Method**	**Parameter**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier
SOIL	OLM4.2_SVOA	Benzo[ghi]perylene	ug/kg	350	UJ	350	UJ	360	UJ
SOIL	OLM4.2_SVOA	Benzo[k]fluoranthene	ug/kg	350	U	350	U	360	U
SOIL	OLM4.2_SVOA	Biphenyl	ug/kg	350	U	350	U	360	U
SOIL	OLM4.2_SVOA	Bis(2-Chloroethoxy)methane	ug/kg	350	U	350	U	360	U
SOIL	OLM4.2_SVOA	Bis(2-Chloroethyl)ether	ug/kg	350	U	350	U	360	U
SOIL	OLM4.2_SVOA	Bis(2-Chloroisopropyl)ether	ug/kg	350	U	350	U	360	U
SOIL	OLM4.2_SVOA	Bis(2-Ethylhexyl)phthalate	ug/kg	44	J	54	J	59	J
SOIL	OLM4.2_SVOA	Butylbenzylphthalate	ug/kg	350	U	350	U	360	U
SOIL	OLM4.2_SVOA	Caprolactum	ug/kg	350	U	350	U	360	U
SOIL	OLM4.2_SVOA	Carbazole	ug/kg	350	U	350	U	360	U
SOIL	OLM4.2_SVOA	Chrysene	ug/kg	350	U	350	U	150	J
SOIL	OLM4.2_SVOA	Di-n-butylphthalate	ug/kg	350	U	350	U	360	U
SOIL	OLM4.2_SVOA	Di-n-octylphthalate	ug/kg	350	U	350	U	360	U
SOIL	OLM4.2_SVOA	Dibenz[a,h]anthracene	ug/kg	350	UJ	350	UJ	360	UJ
SOIL	OLM4.2_SVOA	Dibenzofuran	ug/kg	350	U	350	U	360	U
SOIL	OLM4.2_SVOA	Diethylphthalate	ug/kg	350	U	350	U	360	U
SOIL	OLM4.2_SVOA	Dimethylphthalate	ug/kg	350	U	350	U	360	U
SOIL	OLM4.2_SVOA	Fluoranthene	ug/kg	350	U	350	U	120	J
SOIL	OLM4.2_SVOA	Fluorene	ug/kg	350	U	350	U	360	U
SOIL	OLM4.2_SVOA	Hexachlorobenzene	ug/kg	350	U	350	U	360	U
SOIL	OLM4.2_SVOA	Hexachlorobutadiene	ug/kg	350	U	350	U	360	U
SOIL	OLM4.2_SVOA	Hexachlorocyclopentadiene	ug/kg	350	U	350	U	360	U
SOIL	OLM4.2_SVOA	Hexachloroethane	ug/kg	350	U	350	U	360	U
SOIL	OLM4.2_SVOA	Indeno[1,2,3-cd]pyrene	ug/kg	350	UJ	350	UJ	36	J
SOIL	OLM4.2_SVOA	Isophorone	ug/kg	350	U	350	U	360	U
SOIL	OLM4.2_SVOA	N-Nitrosodi-n-propylamine	ug/kg	350	U	350	U	360	U
SOIL	OLM4.2_SVOA	N-Nitrosodiphenylamine	ug/kg	350	U	350	U	360	U
SOIL	OLM4.2_SVOA	Naphthalene	ug/kg	350	U	350	U	360	U
SOIL	OLM4.2_SVOA	Nitrobenzene	ug/kg	350	U	350	U	360	U
SOIL	OLM4.2_SVOA	Pentachlorophenol	ug/kg	880	U	890	U	900	U
SOIL	OLM4.2_SVOA	Phenanthrene	ug/kg	350	U	350	U	100	J
SOIL	OLM4.2_SVOA	Phenol	ug/kg	350	U	350	U	360	U
SOIL	OLM4.2_SVOA	Pyrene	ug/kg	350	U	350	U	120	J
SOIL	OLM4.2_PP	4,4`-DDD	ug/kg	3.5	U	3.5	U	3.6	U
SOIL	OLM4.2_PP	4,4`-DDE	ug/kg	3.5	U	3.5	U	3.6	U
SOIL	OLM4.2_PP	4,4`-DDT	ug/kg	3.5	U	3.5	U	3.6	U
SOIL	OLM4.2_PP	Aldrin	ug/kg	1.8	U	1.8	U	1.8	U
SOIL	OLM4.2_PP	Alpha-BHC	ug/kg	1.8	U	1.8	U	1.8	U
SOIL	OLM4.2_PP	Alpha-Chlordane	ug/kg	1.8	U	1.8	U	1.8	U
SOIL	OLM4.2_PP	Aroclor-1016	ug/kg	35	U	35	U	36	U

		Lab Sample Delivery Group		D1367		D1367		D1367	
		Loc Name		BS-005		BS-005		BS-007	
		Field Sample Id		STBS00508001XD		STBS00508001XX		STBS00701001XX	
		Field Sample Date		11/15/2005		11/15/2005		11/14/2005	
		Qc Code		FD		FS		FS	
Media	**Method**	**Parameter**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier
SOIL	OLM4.2_PP	Aroclor-1221	ug/kg	71	U	72	U	73	U
SOIL	OLM4.2_PP	Aroclor-1232	ug/kg	35	U	35	U	36	U
SOIL	OLM4.2_PP	Aroclor-1242	ug/kg	35	U	35	U	36	U
SOIL	OLM4.2_PP	Aroclor-1248	ug/kg	35	U	35	U	36	U
SOIL	OLM4.2_PP	Aroclor-1254	ug/kg	35	U	35	U	36	U
SOIL	OLM4.2_PP	Aroclor-1260	ug/kg	35	U	35	U	36	U
SOIL	OLM4.2_PP	Beta-BHC	ug/kg	1.8	U	1.8	U	1.8	U
SOIL	OLM4.2_PP	Delta-BHC	ug/kg	1.8	U	1.8	U	1.8	U
SOIL	OLM4.2_PP	Dieldrin	ug/kg	3.5	U	3.5	U	3.6	U
SOIL	OLM4.2_PP	Endosulfan I	ug/kg	1.8	U	1.8	U	1.8	U
SOIL	OLM4.2_PP	Endosulfan II	ug/kg	3.5	U	3.5	U	3.6	U
SOIL	OLM4.2_PP	Endosulfan sulfate	ug/kg	3.5	U	3.5	U	3.6	U
SOIL	OLM4.2_PP	Endrin	ug/kg	3.5	U	3.5	U	3.6	U
SOIL	OLM4.2_PP	Endrin aldehyde	ug/kg	3.5	U	3.5	U	3.6	U
SOIL	OLM4.2_PP	Endrin ketone	ug/kg	3.5	U	3.5	U	2.3	J
SOIL	OLM4.2_PP	Gamma-BHC/Lindane	ug/kg	1.8	U	1.8	U	1.8	U
SOIL	OLM4.2_PP	Gamma-Chlordane	ug/kg	1.8	U	1.8	U	1.8	U
SOIL	OLM4.2_PP	Heptachlor	ug/kg	1.8	U	1.8	U	1.8	U
SOIL	OLM4.2_PP	Heptachlor epoxide	ug/kg	1.8	U	1.8	U	1.8	U
SOIL	OLM4.2_PP	Methoxychlor	ug/kg	18	U	18	U	18	U
SOIL	OLM4.2_PP	Toxaphene	ug/kg	180	U	180	U	180	U
SOIL	ILM4.1_HG	Mercury	mg/kg	0.093	U	0.1	U	0.087	U
SOIL	ILM4.1_ICP	Aluminum	mg/kg	8,430	J	6,640	J	7,720	
SOIL	ILM4.1_ICP	Antimony	mg/kg	12	UJ	11	UJ	8.9	UJ
SOIL	ILM4.1_ICP	Arsenic	mg/kg	4.6		3		8.8	
SOIL	ILM4.1_ICP	Barium	mg/kg	48.5		36.6	B	90.3	
SOIL	ILM4.1_ICP	Beryllium	mg/kg	0.3	B	0.21	B	0.48	B
SOIL	ILM4.1_ICP	Cadmium	mg/kg	0.11	B	0.22	B	0.15	B
SOIL	ILM4.1_ICP	Calcium	mg/kg	45,300	J	95,000	J	28,200	
SOIL	ILM4.1_ICP	Chromium	mg/kg	18	E	14	E	13.9	E
SOIL	ILM4.1_ICP	Cobalt	mg/kg	8.2	J	5.9	J	9	J
SOIL	ILM4.1_ICP	Copper	mg/kg	30.2	J	23.8	J	43.3	J
SOIL	ILM4.1_ICP	Iron	mg/kg	19,300	J	14,700	J	22,900	J
SOIL	ILM4.1_ICP	Lead	mg/kg	11.1	J	9.3	J	43.7	J
SOIL	ILM4.1_ICP	Magnesium	mg/kg	8,700	*	14,200	*	7,160	*
SOIL	ILM4.1_ICP	Manganese	mg/kg	502		412		594	
SOIL	ILM4.1_ICP	Nickel	mg/kg	24.3	J	17.6	J	21.3	J
SOIL	ILM4.1_ICP	Potassium	mg/kg	682	B	667	B	688	B
SOIL	ILM4.1_ICP	Selenium	mg/kg		R		R		R
SOIL	ILM4.1_ICP	Silver	mg/kg		R		R		R

		Lab Sample Delivery Group		D1367		D1367		D1367	
		Loc Name		BS-005		BS-005		BS-007	
		Field Sample Id		STBS00508001XD		STBS00508001XX		STBS00701001XX	
		Field Sample Date		11/15/2005		11/15/2005		11/14/2005	
		Qc Code		FD		FS		FS	
Media	**Method**	**Parameter**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier
SOIL	ILM4.1_ICP	Sodium	mg/kg	105	B	131	B	488	B
SOIL	ILM4.1_ICP	Thallium	mg/kg	2		0.78	B	2.8	
SOIL	ILM4.1_ICP	Vanadium	mg/kg	14		11.3		17	
SOIL	ILM4.1_ICP	Zinc	mg/kg	106	J	83.8	J	86.7	J

		Lab Sample Delivery Group		D1488		D1488		D1488		D1488	
		Loc Name		MW-001		MW-002		MW-003		MW-004	
		Field Sample Id		STMW001XXX01XX		STMW002XXX01XX		STMW003XXX01XX		STMW004XXX01XX	
		Field Sample Date		12/8/2005		12/9/2005		12/9/2005		12/8/2005	
		Qc Code		FS		FS		FS		FS	
Media	**Method**	**Parameter**	**Units**	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier
GW	OLM4.2_VOA	1,1,1-Trichloroethane	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	1,1,2,2-Tetrachloroethane	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	1,1,2-Trichloroethane	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	1,1-Dichloroethane	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	1,1-Dichloroethene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	1,2,4-Trichlorobenzene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	1,2-Dibromo-3-chloropropane	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	1,2-Dibromoethane	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	1,2-Dichlorobenzene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	1,2-Dichloroethane	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	1,2-Dichloropropane	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	1,3-Dichlorobenzene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	1,4-Dichlorobenzene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	2-Butanone	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	2-Hexanone	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	4-Methyl-2-pentanone	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	Acetic acid, methyl ester	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	Acetone	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	Benzene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	Bromodichloromethane	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	Bromoform	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	Bromomethane	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	Carbon disulfide	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	Carbon tetrachloride	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	Chlorobenzene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	Chlorodibromomethane	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	Chloroethane	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	Chloroform	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	Chloromethane	ug/l	10	UJ	10	U	10	U	10	UJ
GW	OLM4.2_VOA	Cis-1,2-Dichloroethene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	cis-1,3-Dichloropropene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	Cyclohexane	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	Dichlorodifluoromethane	ug/l	10	UJ	10	U	10	U	10	UJ
GW	OLM4.2_VOA	Ethyl benzene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	Isopropylbenzene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	Methyl cyclohexane	ug/l	10	U	10	U	10	U	10	U

		Lab Sample Delivery Group		D1488		D1488		D1488		D1488	
		Loc Name		MW-001		MW-002		MW-003		MW-004	
		Field Sample Id		STMW001XXX01XX		STMW002XXX01XX		STMW003XXX01XX		STMW004XXX01XX	
		Field Sample Date		12/8/2005		12/9/2005		12/9/2005		12/8/2005	
		Qc Code		FS		FS		FS		FS	
Media	**Method**	**Parameter**	**Units**	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier
GW	OLM4.2_VOA	Methyl Tertbutyl Ether	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	Methylene chloride	ug/l	10	U	10	UJ	10	UJ	10	U
GW	OLM4.2_VOA	Styrene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	Tetrachloroethene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	Toluene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	trans-1,2-Dichloroethene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	trans-1,3-Dichloropropene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	Trichloroethene	ug/l	4	J	4	J	2	J	4	J
GW	OLM4.2_VOA	Trichlorofluoromethane	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	Vinyl chloride	ug/l	10	UJ	10	U	10	U	10	UJ
GW	OLM4.2_VOA	Xylenes, Total	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	2,4,5-Trichlorophenol	ug/l	25	U	25	U	25	U	25	U
GW	OLM4.2_SVOA	2,4,6-Trichlorophenol	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	2,4-Dichlorophenol	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	2,4-Dimethylphenol	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	2,4-Dinitrophenol	ug/l	25	U	25	U	25	U	25	U
GW	OLM4.2_SVOA	2,4-Dinitrotoluene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	2,6-Dinitrotoluene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	2-Chloronaphthalene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	2-Chlorophenol	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	2-Methylnaphthalene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	2-Methylphenol	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	2-Nitroaniline	ug/l	25	U	25	U	25	U	25	U
GW	OLM4.2_SVOA	2-Nitrophenol	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	3,3`-Dichlorobenzidine	ug/l	10	UJ	10	UJ	10	UJ	10	UJ
GW	OLM4.2_SVOA	3-Nitroaniline	ug/l	25	U	25	U	25	U	25	U
GW	OLM4.2_SVOA	4,6-Dinitro-2-methylphenol	ug/l	25	U	25	U	25	U	25	U
GW	OLM4.2_SVOA	4-Bromophenyl phenyl ether	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	4-Chloro-3-methylphenol	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	4-Chloroaniline	ug/l	10	UJ	10	UJ	10	UJ	10	UJ
GW	OLM4.2_SVOA	4-Chlorophenyl phenyl ether	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	4-Methylphenol	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	4-Nitroaniline	ug/l	25	U	25	U	25	U	25	U
GW	OLM4.2_SVOA	4-Nitrophenol	ug/l	25	U	25	U	25	U	25	U
GW	OLM4.2_SVOA	Acenaphthene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Acenaphthylene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Acetophenone	ug/l	10	U	10	U	10	U	10	U

		Lab Sample Delivery Group		D1488		D1488		D1488		D1488	
		Loc Name		MW-001		MW-002		MW-003		MW-004	
		Field Sample Id		STMW001XXX01XX		STMW002XXX01XX		STMW003XXX01XX		STMW004XXX01XX	
		Field Sample Date		12/8/2005		12/9/2005		12/9/2005		12/8/2005	
		Qc Code		FS		FS		FS		FS	
Media	**Method**	**Parameter**	**Units**	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier
GW	OLM4.2_SVOA	Anthracene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Atrazine	ug/l	10	UJ	10	UJ	10	UJ	10	UJ
GW	OLM4.2_SVOA	Benzaldehyde	ug/l	10	UJ	10	UJ	10	UJ	10	UJ
GW	OLM4.2_SVOA	Benzo[a]anthracene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Benzo[a]pyrene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Benzo[b]fluoranthene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Benzo[ghi]perylene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Benzo[k]fluoranthene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Biphenyl	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Bis(2-Chloroethoxy)methane	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Bis(2-Chloroethyl)ether	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Bis(2-Chloroisopropyl)ether	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Bis(2-Ethylhexyl)phthalate	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Butylbenzylphthalate	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Caprolactum	ug/l	10	UJ	10	UJ	10	UJ	10	UJ
GW	OLM4.2_SVOA	Carbazole	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Chrysene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Di-n-butylphthalate	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Di-n-octylphthalate	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Dibenz[a,h]anthracene	ug/l	10	UJ	10	UJ	10	UJ	10	UJ
GW	OLM4.2_SVOA	Dibenzofuran	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Diethylphthalate	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Dimethylphthalate	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Fluoranthene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Fluorene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Hexachlorobenzene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Hexachlorobutadiene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Hexachlorocyclopentadiene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Hexachloroethane	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Indeno[1,2,3-cd]pyrene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Isophorone	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	N-Nitrosodi-n-propylamine	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	N-Nitrosodiphenylamine	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Naphthalene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Nitrobenzene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Pentachlorophenol	ug/l	25	U	25	U	25	U	25	U
GW	OLM4.2_SVOA	Phenanthrene	ug/l	10	U	10	U	10	U	10	U

		Lab Sample Delivery Group		D1488		D1488		D1488		D1488	
		Loc Name		MW-001		MW-002		MW-003		MW-004	
		Field Sample Id		STMW001XXX01XX		STMW002XXX01XX		STMW003XXX01XX		STMW004XXX01XX	
		Field Sample Date		12/8/2005		12/9/2005		12/9/2005		12/8/2005	
		Qc Code		FS		FS		FS		FS	
Media	**Method**	**Parameter**	**Units**	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier
GW	OLM4.2_SVOA	Phenol	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Pyrene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_PP	4,4`-DDD	ug/l	0.1	U	0.1	U	0.1	U	0.1	U
GW	OLM4.2_PP	4,4`-DDE	ug/l	0.1	U	0.1	U	0.1	U	0.1	U
GW	OLM4.2_PP	4,4`-DDT	ug/l	0.1	U	0.1	U	0.1	U	0.1	U
GW	OLM4.2_PP	Aldrin	ug/l	0.05	U	0.05	U	0.05	U	0.05	U
GW	OLM4.2_PP	Alpha-BHC	ug/l	0.05	U	0.05	U	0.05	U	0.05	U
GW	OLM4.2_PP	Alpha-Chlordane	ug/l	0.05	U	0.05	U	0.05	U	0.05	U
GW	OLM4.2_PP	Aroclor-1016	ug/l	1	U	1	U	1	U	1	U
GW	OLM4.2_PP	Aroclor-1221	ug/l	2	U	2	U	2	U	2	U
GW	OLM4.2_PP	Aroclor-1232	ug/l	1	U	1	U	1	U	1	U
GW	OLM4.2_PP	Aroclor-1242	ug/l	1	U	1	U	1	U	1	U
GW	OLM4.2_PP	Aroclor-1248	ug/l	1	U	1	U	1	U	1	U
GW	OLM4.2_PP	Aroclor-1254	ug/l	1	U	1	U	1	U	1	U
GW	OLM4.2_PP	Aroclor-1260	ug/l	1	U	1	U	1	U	1	U
GW	OLM4.2_PP	Beta-BHC	ug/l	0.05	U	0.05	U	0.05	U	0.05	U
GW	OLM4.2_PP	Delta-BHC	ug/l	0.05	U	0.05	U	0.05	U	0.05	U
GW	OLM4.2_PP	Dieldrin	ug/l	0.1	U	0.1	U	0.1	U	0.1	U
GW	OLM4.2_PP	Endosulfan I	ug/l	0.05	U	0.05	U	0.05	U	0.05	U
GW	OLM4.2_PP	Endosulfan II	ug/l	0.1	U	0.1	U	0.1	U	0.1	U
GW	OLM4.2_PP	Endosulfan sulfate	ug/l	0.1	U	0.1	U	0.1	U	0.1	U
GW	OLM4.2_PP	Endrin	ug/l	0.1	U	0.1	U	0.1	U	0.1	U
GW	OLM4.2_PP	Endrin aldehyde	ug/l	0.1	U	0.1	U	0.1	U	0.1	U
GW	OLM4.2_PP	Endrin ketone	ug/l	0.1	U	0.1	U	0.1	U	0.1	U
GW	OLM4.2_PP	Gamma-BHC/Lindane	ug/l	0.05	U	0.05	U	0.05	U	0.05	U
GW	OLM4.2_PP	Gamma-Chlordane	ug/l	0.05	U	0.05	U	0.05	U	0.05	U
GW	OLM4.2_PP	Heptachlor	ug/l	0.05	U	0.05	U	0.05	U	0.05	U
GW	OLM4.2_PP	Heptachlor epoxide	ug/l	0.05	U	0.05	U	0.05	U	0.05	U
GW	OLM4.2_PP	Methoxychlor	ug/l	0.5	U	0.5	U	0.5	U	0.5	U
GW	OLM4.2_PP	Toxaphene	ug/l	5	U	5	U	5	U	5	U
GW	ILM4.1_HG	Mercury	ug/l	0.28	U	0.28	U	0.29	U	0.3	U
GW	ILM4.1_ICP	Aluminum	ug/l	200	U	200	U	200	U	200	U
GW	ILM4.1_ICP	Antimony	ug/l	60	U	60	U	60	U	60	U
GW	ILM4.1_ICP	Arsenic	ug/l	10	U	10	U	10	U	10	U
GW	ILM4.1_ICP	Barium	ug/l	147	B	166	B	154	B	196	B
GW	ILM4.1_ICP	Beryllium	ug/l	5	U	5	U	5	U	5	U
GW	ILM4.1_ICP	Cadmium	ug/l	5	U	5	U	5	U	5	U

		Lab Sample Delivery Group		D1488		D1488		D1488		D1488	
		Loc Name		MW-001		MW-002		MW-003		MW-004	
		Field Sample Id		STMW001XXX01XX		STMW002XXX01XX		STMW003XXX01XX		STMW004XXX01XX	
		Field Sample Date		12/8/2005		12/9/2005		12/9/2005		12/8/2005	
		Qc Code		FS		FS		FS		FS	
Media	**Method**	**Parameter**	**Units**	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier
GW	ILM4.1_ICP	Calcium	ug/l	89600		95500		89300		124000	
GW	ILM4.1_ICP	Chromium	ug/l	0.79	B	0.66	B	0.64	B	0.71	B
GW	ILM4.1_ICP	Cobalt	ug/l	1.1	B	0.68	B	0.58	B	0.7	B
GW	ILM4.1_ICP	Copper	ug/l	1.8	B	25	U	25	U	2.2	B
GW	ILM4.1_ICP	Iron	ug/l	26.8	B	20.4	B	19.6	B	15.4	B
GW	ILM4.1_ICP	Lead	ug/l	3	U	3	U	3	U	3	U
GW	ILM4.1_ICP	Magnesium	ug/l	18600		20200		18700		24900	
GW	ILM4.1_ICP	Manganese	ug/l	95.8		6.7	B	4.2	B	69.1	
GW	ILM4.1_ICP	Nickel	ug/l	2	B	1.5	B	1.7	B	2.3	B
GW	ILM4.1_ICP	Potassium	ug/l	2090	B	1790	B	1870	B	2080	B
GW	ILM4.1_ICP	Selenium	ug/l	5	UJ	5	UJ	5	UJ	5	UJ
GW	ILM4.1_ICP	Silver	ug/l	0.61	B	0.59	B	10	U	10	U
GW	ILM4.1_ICP	Sodium	ug/l	154000		141000		138000		192000	
GW	ILM4.1_ICP	Thallium	ug/l	10	U	10	U	10	U	10	U
GW	ILM4.1_ICP	Vanadium	ug/l	50	U	50	U	50	U	50	U
GW	ILM4.1_ICP	Zinc	ug/l	5.2	B	5.2	B	3.7	B	7.7	B

		Lab Sample Delivery Group		D1488		D1488		D1488		D1488	
		Loc Name		MW-005		MW-006		MW-007		MW-007	
		Field Sample Id		STMW005XXX01XX		STMW006XXX01XX		STMW007XXX01DU		STMW007XXX01XX	
		Field Sample Date		12/8/2005		12/7/2005		12/7/2005		12/7/2005	
		Qc Code		FS		FS		FD		FS	
Media	**Method**	**Parameter**	**Units**	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier
GW	OLM4.2_VOA	1,1,1-Trichloroethane	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	1,1,2,2-Tetrachloroethane	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	1,1,2-Trichloroethane	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	1,1-Dichloroethane	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	1,1-Dichloroethene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	1,2,4-Trichlorobenzene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	1,2-Dibromo-3-chloropropane	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	1,2-Dibromoethane	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	1,2-Dichlorobenzene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	1,2-Dichloroethane	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	1,2-Dichloropropane	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	1,3-Dichlorobenzene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	1,4-Dichlorobenzene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	2-Butanone	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	2-Hexanone	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	4-Methyl-2-pentanone	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	Acetic acid, methyl ester	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	Acetone	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	Benzene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	Bromodichloromethane	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	Bromoform	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	Bromomethane	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	Carbon disulfide	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	Carbon tetrachloride	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	Chlorobenzene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	Chlorodibromomethane	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	Chloroethane	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	Chloroform	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	Chloromethane	ug/l	10	UJ	10	UJ	10	UJ	10	UJ
GW	OLM4.2_VOA	Cis-1,2-Dichloroethene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	cis-1,3-Dichloropropene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	Cyclohexane	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	Dichlorodifluoromethane	ug/l	10	UJ	10	UJ	10	UJ	10	UJ
GW	OLM4.2_VOA	Ethyl benzene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	Isopropylbenzene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	Methyl cyclohexane	ug/l	5	J	10	U	10	U	10	U

		Lab Sample Delivery Group		D1488		D1488		D1488		D1488	
		Loc Name		MW-005		MW-006		MW-007		MW-007	
		Field Sample Id		STMW005XXX01XX		STMW006XXX01XX		STMW007XXX01DU		STMW007XXX01XX	
		Field Sample Date		12/8/2005		12/7/2005		12/7/2005		12/7/2005	
		Qc Code		FS		FS		FD		FS	
Media	**Method**	**Parameter**	**Units**	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier
GW	OLM4.2_VOA	Methyl Tertbutyl Ether	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	Methylene chloride	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	Styrene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	Tetrachloroethene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	Toluene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	trans-1,2-Dichloroethene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	trans-1,3-Dichloropropene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	Trichloroethene	ug/l	8	J	5	J	10	U	10	U
GW	OLM4.2_VOA	Trichlorofluoromethane	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_VOA	Vinyl chloride	ug/l	10	UJ	10	UJ	10	UJ	10	UJ
GW	OLM4.2_VOA	Xylenes, Total	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	2,4,5-Trichlorophenol	ug/l	25	U	25	U	25	U	25	U
GW	OLM4.2_SVOA	2,4,6-Trichlorophenol	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	2,4-Dichlorophenol	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	2,4-Dimethylphenol	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	2,4-Dinitrophenol	ug/l	25	U	25	U	25	U	25	U
GW	OLM4.2_SVOA	2,4-Dinitrotoluene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	2,6-Dinitrotoluene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	2-Chloronaphthalene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	2-Chlorophenol	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	2-Methylnaphthalene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	2-Methylphenol	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	2-Nitroaniline	ug/l	25	U	25	U	25	U	25	U
GW	OLM4.2_SVOA	2-Nitrophenol	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	3,3`-Dichlorobenzidine	ug/l	10	UJ	10	UJ	10	UJ	10	UJ
GW	OLM4.2_SVOA	3-Nitroaniline	ug/l	25	U	25	U	25	U	25	U
GW	OLM4.2_SVOA	4,6-Dinitro-2-methylphenol	ug/l	25	U	25	U	25	U	25	U
GW	OLM4.2_SVOA	4-Bromophenyl phenyl ether	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	4-Chloro-3-methylphenol	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	4-Chloroaniline	ug/l	10	UJ	10	UJ	10	UJ	10	UJ
GW	OLM4.2_SVOA	4-Chlorophenyl phenyl ether	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	4-Methylphenol	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	4-Nitroaniline	ug/l	25	U	25	U	25	U	25	U
GW	OLM4.2_SVOA	4-Nitrophenol	ug/l	25	U	25	U	25	U	25	U
GW	OLM4.2_SVOA	Acenaphthene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Acenaphthylene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Acetophenone	ug/l	10	U	10	U	10	U	10	U

		Lab Sample Delivery Group		D1488		D1488		D1488		D1488	
		Loc Name		MW-005		MW-006		MW-007		MW-007	
		Field Sample Id		STMW005XXX01XX		STMW006XXX01XX		STMW007XXX01DU		STMW007XXX01XX	
		Field Sample Date		12/8/2005		12/7/2005		12/7/2005		12/7/2005	
		Qc Code		FS		FS		FD		FS	
Media	**Method**	**Parameter**	**Units**	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier
GW	OLM4.2_SVOA	Anthracene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Atrazine	ug/l	10	UJ	10	UJ	10	UJ	10	UJ
GW	OLM4.2_SVOA	Benzaldehyde	ug/l	10	UJ	10	UJ	10	UJ	10	UJ
GW	OLM4.2_SVOA	Benzo[a]anthracene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Benzo[a]pyrene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Benzo[b]fluoranthene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Benzo[ghi]perylene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Benzo[k]fluoranthene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Biphenyl	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Bis(2-Chloroethoxy)methane	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Bis(2-Chloroethyl)ether	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Bis(2-Chloroisopropyl)ether	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Bis(2-Ethylhexyl)phthalate	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Butylbenzylphthalate	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Caprolactum	ug/l	10	UJ	10	UJ	10	UJ	10	UJ
GW	OLM4.2_SVOA	Carbazole	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Chrysene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Di-n-butylphthalate	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Di-n-octylphthalate	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Dibenz[a,h]anthracene	ug/l	10	UJ	10	UJ	10	UJ	10	UJ
GW	OLM4.2_SVOA	Dibenzofuran	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Diethylphthalate	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Dimethylphthalate	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Fluoranthene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Fluorene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Hexachlorobenzene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Hexachlorobutadiene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Hexachlorocyclopentadiene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Hexachloroethane	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Indeno[1,2,3-cd]pyrene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Isophorone	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	N-Nitrosodi-n-propylamine	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	N-Nitrosodiphenylamine	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Naphthalene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Nitrobenzene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Pentachlorophenol	ug/l	25	U	25	U	25	U	25	U
GW	OLM4.2_SVOA	Phenanthrene	ug/l	10	U	10	U	10	U	10	U

		Lab Sample Delivery Group		D1488		D1488		D1488		D1488	
		Loc Name		MW-005		MW-006		MW-007		MW-007	
		Field Sample Id		STMW005XXX01XX		STMW006XXX01XX		STMW007XXX01DU		STMW007XXX01XX	
		Field Sample Date		12/8/2005		12/7/2005		12/7/2005		12/7/2005	
		Qc Code		FS		FS		FD		FS	
Media	**Method**	**Parameter**	**Units**	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier
GW	OLM4.2_SVOA	Phenol	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_SVOA	Pyrene	ug/l	10	U	10	U	10	U	10	U
GW	OLM4.2_PP	4,4`-DDD	ug/l	0.1	U	0.1	U	0.1	U	0.1	U
GW	OLM4.2_PP	4,4`-DDE	ug/l	0.1	U	0.1	U	0.1	U	0.1	U
GW	OLM4.2_PP	4,4`-DDT	ug/l	0.1	U	0.1	U	0.1	U	0.1	U
GW	OLM4.2_PP	Aldrin	ug/l	0.05	U	0.05	U	0.05	U	0.05	U
GW	OLM4.2_PP	Alpha-BHC	ug/l	0.05	U	0.05	U	0.05	U	0.05	U
GW	OLM4.2_PP	Alpha-Chlordane	ug/l	0.05	U	0.05	U	0.05	U	0.05	U
GW	OLM4.2_PP	Aroclor-1016	ug/l	1	U	1	U	1	U	1	U
GW	OLM4.2_PP	Aroclor-1221	ug/l	2	U	2	U	2	U	2	U
GW	OLM4.2_PP	Aroclor-1232	ug/l	1	U	1	U	1	U	1	U
GW	OLM4.2_PP	Aroclor-1242	ug/l	1	U	1	U	1	U	1	U
GW	OLM4.2_PP	Aroclor-1248	ug/l	1	U	1	U	1	U	1	U
GW	OLM4.2_PP	Aroclor-1254	ug/l	1	U	1	U	1	U	1	U
GW	OLM4.2_PP	Aroclor-1260	ug/l	1	U	1	U	1	U	1	U
GW	OLM4.2_PP	Beta-BHC	ug/l	0.05	U	0.05	U	0.05	U	0.05	U
GW	OLM4.2_PP	Delta-BHC	ug/l	0.05	U	0.05	U	0.05	U	0.05	U
GW	OLM4.2_PP	Dieldrin	ug/l	0.1	U	0.1	U	0.1	U	0.1	U
GW	OLM4.2_PP	Endosulfan I	ug/l	0.05	U	0.05	U	0.05	U	0.05	U
GW	OLM4.2_PP	Endosulfan II	ug/l	0.1	U	0.1	U	0.1	U	0.1	U
GW	OLM4.2_PP	Endosulfan sulfate	ug/l	0.1	U	0.1	U	0.1	U	0.1	U
GW	OLM4.2_PP	Endrin	ug/l	0.1	U	0.1	U	0.1	U	0.1	U
GW	OLM4.2_PP	Endrin aldehyde	ug/l	0.1	U	0.1	U	0.1	U	0.1	U
GW	OLM4.2_PP	Endrin ketone	ug/l	0.1	U	0.1	U	0.1	U	0.1	U
GW	OLM4.2_PP	Gamma-BHC/Lindane	ug/l	0.05	U	0.05	U	0.05	U	0.05	U
GW	OLM4.2_PP	Gamma-Chlordane	ug/l	0.05	U	0.05	U	0.05	U	0.05	U
GW	OLM4.2_PP	Heptachlor	ug/l	0.05	U	0.05	U	0.05	U	0.05	U
GW	OLM4.2_PP	Heptachlor epoxide	ug/l	0.05	U	0.05	U	0.05	U	0.05	U
GW	OLM4.2_PP	Methoxychlor	ug/l	0.5	U	0.5	U	0.5	U	0.5	U
GW	OLM4.2_PP	Toxaphene	ug/l	5	U	5	U	5	U	5	U
GW	ILM4.1_HG	Mercury	ug/l	0.31	U	0.31	U	0.28	U	0.3	U
GW	ILM4.1_ICP	Aluminum	ug/l	200	U	200	U	200	U	200	U
GW	ILM4.1_ICP	Antimony	ug/l	2.4	B	60	U	60	U	60	U
GW	ILM4.1_ICP	Arsenic	ug/l	10	U	10	U	10	U	10	U
GW	ILM4.1_ICP	Barium	ug/l	230		221		159	B	160	B
GW	ILM4.1_ICP	Beryllium	ug/l	5	U	5	U	5	U	5	U
GW	ILM4.1_ICP	Cadmium	ug/l	5	U	5	U	5	U	5	U

		Lab Sample Delivery Group		D1488		D1488		D1488		D1488	
		Loc Name		MW-005		MW-006		MW-007		MW-007	
		Field Sample Id		STMW005XXX01XX		STMW006XXX01XX		STMW007XXX01DU		STMW007XXX01XX	
		Field Sample Date		12/8/2005		12/7/2005		12/7/2005		12/7/2005	
		Qc Code		FS		FS		FD		FS	
Media	**Method**	**Parameter**	**Units**	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier
GW	ILM4.1_ICP	Calcium	ug/l	120000		126000		95600		93200	
GW	ILM4.1_ICP	Chromium	ug/l	0.64	B	0.55	B	0.85	B	0.91	B
GW	ILM4.1_ICP	Cobalt	ug/l	0.65	B	0.83	B	0.8	B	0.99	B
GW	ILM4.1_ICP	Copper	ug/l	3.6	B	6.7	B	6.5	B	19.2	B
GW	ILM4.1_ICP	Iron	ug/l	88.3	B	19.5	B	21.3	B	40.4	B
GW	ILM4.1_ICP	Lead	ug/l	3	U	3	U	3	U	3	U
GW	ILM4.1_ICP	Magnesium	ug/l	24500		25500		19900		19300	
GW	ILM4.1_ICP	Manganese	ug/l	125		89.3		40.4		46.4	
GW	ILM4.1_ICP	Nickel	ug/l	2.3	B	2.4	B	2	B	2.3	B
GW	ILM4.1_ICP	Potassium	ug/l	2470	B	2190	B	1970	B	2000	B
GW	ILM4.1_ICP	Selenium	ug/l	5	UJ	5	UJ	5	UJ	5	UJ
GW	ILM4.1_ICP	Silver	ug/l	0.64	B	0.81	B	10	U	0.98	B
GW	ILM4.1_ICP	Sodium	ug/l	140000		246000		163000		164000	
GW	ILM4.1_ICP	Thallium	ug/l	10	U	10	U	10	U	10	U
GW	ILM4.1_ICP	Vanadium	ug/l	50	U	50	U	50	U	50	U
GW	ILM4.1_ICP	Zinc	ug/l	15.8	B	14.6	B	6.7	B	23.7	

sample_name	sample_date	Lab_Del_Group	lab_anl_method_name	cas_rn	chemical_name	result_value	lab_qualifiers	result_unit
STBS00508001XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	37	J	µg/kg
STBS00508001XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	35	J	µg/kg
STBS00508001XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	5	J	µg/kg
STBS00508001XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	13	J	µg/kg
STBS00508001XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	25	J	µg/kg
STBS00508001XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	16	J	µg/kg
STBS00508001XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	8	J	µg/kg
STBS00508001XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	15	J	µg/kg
STBS00508001XX	11/15/2005	D1367	OLM4.2_VOA		BRANCHED ALKANE	8	J	µg/kg
STBS00508001XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	10	J	µg/kg
STBS00508001XX	11/15/2005	D1367	OLM4.2_VOA		STRAIGHT-CHAIN ALKANE	7	J	µg/kg
STBS00508001XX	11/15/2005	D1367	OLM4.2_VOA	21895-13-6	BENZENE, 1-METHYL-2-[(3-METH	9	NJ	µg/kg
STBS00508001XD	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	39	J	µg/kg
STBS00508001XD	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	36	J	µg/kg
STBS00508001XD	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	13	J	µg/kg
STBS00508001XD	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	44	J	µg/kg
STBS00508001XD	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	12	J	µg/kg
STBS00508001XD	11/15/2005	D1367	OLM4.2_VOA		STRAIGHT-CHAIN ALKANE	28	J	µg/kg
STBS00508001XD	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	9	J	µg/kg
STBS00508001XD	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	9	J	µg/kg
STBS00508001XD	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	7	J	µg/kg
STBS00508001XD	11/15/2005	D1367	OLM4.2_VOA		STRAIGHT-CHAIN ALKANE	12	J	µg/kg
STBS00508001XD	11/15/2005	D1367	OLM4.2_VOA		STRAIGHT-CHAIN ALKANE	7	J	µg/kg
STBS00406001XX	11/15/2005	D1367	OLM4.2_VOA		BRANCHED ALKANE	34	J	µg/kg
STBS00406001XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	29	J	µg/kg
STBS00406001XX	11/15/2005	D1367	OLM4.2_VOA	75-18-3	DIMETHYL SULFIDE	13	NJ	µg/kg
STBS00406001XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	11	J	µg/kg
STBS00406001XX	11/15/2005	D1367	OLM4.2_VOA		STRAIGHT-CHAIN ALKANE	21	J	µg/kg
STBS00406001XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	11	J	µg/kg
STBS00406001XX	11/15/2005	D1367	OLM4.2_VOA	141-78-6	ETHYL ACETATE	220	NJ	µg/kg
STBS00406001XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	6	J	µg/kg
STBS00406001XX	11/15/2005	D1367	OLM4.2_VOA		BRANCHED ALKANE	6	J	µg/kg
STBS00406001XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	11	J	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA		CYCLIC ALKANE	590	J	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA		CYCLIC ALKANE	1000	J	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA		BRANCHED ALKANE	680	J	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA		CYCLIC ALKANE	1300	J	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA		CYCLIC ALKANE	1500	J	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	1300	J	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA		BRANCHED ALKANE	1000	J	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA		CYCLIC ALKANE	2100	J	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	1600	J	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	1100	J	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA		CYCLIC ALKANE	1100	J	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	960	J	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	1200	J	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA		BRANCHED ALKANE	900	J	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	1100	J	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	740	J	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	1200	J	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA		CYCLIC ALKANE	1500	J	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	850	J	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	830	J	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA	493-02-7	NAPHTHALENE, DECAHYDRO-, TRA	1200	NJ	µg/kg

sample_name	sample_date	Lab_Del_Group	lab_anl_method_name	cas_rn	chemical_name	result_value	lab_qualifiers	result_unit
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	960	J	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	1300	J	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	1400	J	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	670	J	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	1000	J	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA		CYCLIC ALKANE	1600	J	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA	2958-76-1	NAPHTHALENE, DECAHYDRO-2-MET	910	NJ	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	820	J	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	930	J	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA		CYCLIC ALKANE	4400	JD	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA		CYCLIC ALKANE	2700	JD	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA		CYCLIC ALKANE	5300	JD	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA		BRANCHED ALKANE	3300	JD	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	2500	JD	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	3500	JD	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	2500	JD	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA		CYCLIC ALKANE	7600	JD	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA		CYCLIC ALKANE	2300	JD	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA		CYCLIC ALKANE	4600	JD	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	3600	JD	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	8000	JD	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	2600	JD	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA		BRANCHED ALKANE	5600	JD	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	7000	JD	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	2900	JD	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	8000	JD	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	6900	JD	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	2700	JD	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA		CYCLIC ALKANE	4000	JD	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	3800	JD	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	2900	JD	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA	493-02-7	NAPHTHALENE, DECAHYDRO-, TRA	5300	NJD	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	3100	JD	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	5300	JD	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA	1000152-47-3	TRANS-DECALIN, 2-METHYL-	4200	NJD	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA		CYCLIC ALKANE	3800	JD	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA	2958-76-1	NAPHTHALENE, DECAHYDRO-2-MET	3200	NJD	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	2500	JD	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	3700	JD	µg/kg
STBS00101601XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	27	J	µg/kg
STBS00101601XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	32	J	µg/kg
STBS00101601XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	10	J	µg/kg
STBS00101601XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	10	J	µg/kg
STBS00101601XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	18	J	µg/kg
STBS00101601XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	14	J	µg/kg
STBS00101601XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	210	J	µg/kg
STBS00101601XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	6	J	µg/kg
STBS00101601XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	13	J	µg/kg
STBS00101601XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	6	J	µg/kg
STBS00101601XX	11/15/2005	D1367	OLM4.2_VOA		UNKNOWN	6	J	µg/kg
STBS00301601XX	11/16/2005	D1367	OLM4.2_VOA		UNKNOWN	28	J	µg/kg
STBS00301601XX	11/16/2005	D1367	OLM4.2_VOA		UNKNOWN	10	J	µg/kg
STBS00301601XX	11/16/2005	D1367	OLM4.2_VOA		UNKNOWN	14	J	µg/kg
STBS00201801XX	11/16/2005	D1367	OLM4.2_VOA		UNKNOWN	94	J	µg/kg

sample_name	sample_date	Lab_Del_Group	lab_anl_method_name	cas_rn	chemical_name	result_value	lab_qualifiers	result_unit
STBS00201801XX	11/16/2005	D1367	OLM4.2_VOA		UNKNOWN	46	J	µg/kg
STBS00201801XX	11/16/2005	D1367	OLM4.2_VOA	109-66-0	PENTANE	46	NJ	µg/kg
STBS00201801XX	11/16/2005	D1367	OLM4.2_VOA		UNKNOWN	15	J	µg/kg
STBS00201801XX	11/16/2005	D1367	OLM4.2_VOA	110-54-3	HEXANE	22	NJ	µg/kg
STBS00201801XX	11/16/2005	D1367	OLM4.2_VOA		UNKNOWN	9	J	µg/kg
STBS00201801XX	11/16/2005	D1367	OLM4.2_VOA		UNKNOWN	9	J	µg/kg
STBS00201801XX	11/16/2005	D1367	OLM4.2_VOA		UNKNOWN	9	J	µg/kg
STBS00701001XX	11/14/2005	D1367	OLM4.2_SVOA		UNKNOWN	82	J	µg/kg
STBS00701001XX	11/14/2005	D1367	OLM4.2_SVOA	872-05-9	1-DECENE	510	NJB	µg/kg
STBS00701001XX	11/14/2005	D1367	OLM4.2_SVOA		UNKNOWN	220	J	µg/kg
STBS00701001XX	11/14/2005	D1367	OLM4.2_SVOA	2531-84-2	PHENANTHRENE, 2-METHYL-	92	NJ	µg/kg
STBS00701001XX	11/14/2005	D1367	OLM4.2_SVOA		UNKNOWN	110	J	µg/kg
STBS00701001XX	11/14/2005	D1367	OLM4.2_SVOA	604-83-1	PHENANTHRENE, 9,10-DIMETHYL-	75	NJ	µg/kg
STBS00701001XX	11/14/2005	D1367	OLM4.2_SVOA		UNKNOWN	88	J	µg/kg
STBS00701001XX	11/14/2005	D1367	OLM4.2_SVOA	192-97-2	BENZO[E]PYRENE	130	NJ	µg/kg
STBS00701001XX	11/14/2005	D1367	OLM4.2_SVOA		UNKNOWN	1300	JB	µg/kg
STBS00508001XX	11/15/2005	D1367	OLM4.2_SVOA	872-05-9	1-DECENE	470	NJB	µg/kg
STBS00508001XX	11/15/2005	D1367	OLM4.2_SVOA		UNKNOWN	1700	JB	µg/kg
STBS00508001XD	11/15/2005	D1367	OLM4.2_SVOA	78-40-0	TRIETHYL PHOSPHATE	100	NJ	µg/kg
STBS00508001XD	11/15/2005	D1367	OLM4.2_SVOA	872-05-9	1-DECENE	510	NJB	µg/kg
STBS00508001XD	11/15/2005	D1367	OLM4.2_SVOA	111-02-4	2,6,10,14,18,22-TETRACOSAHEX	97	NJ	µg/kg
STBS00508001XD	11/15/2005	D1367	OLM4.2_SVOA		UNKNOWN	2200	JB	µg/kg
STBS00406001XX	11/15/2005	D1367	OLM4.2_SVOA	78-40-0	TRIETHYL PHOSPHATE	120	NJ	µg/kg
STBS00406001XX	11/15/2005	D1367	OLM4.2_SVOA	872-05-9	1-DECENE	550	NJB	µg/kg
STBS00406001XX	11/15/2005	D1367	OLM4.2_SVOA		UNKNOWN	2000	JB	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_SVOA		UNKNOWN	1500	J	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_SVOA		UNKNOWN	320	J	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_SVOA		UNKNOWN	460	J	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_SVOA		UNKNOWN	670	J	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_SVOA		UNKNOWN	680	J	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_SVOA		UNKNOWN	330	J	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_SVOA		UNKNOWN	440	J	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_SVOA		UNKNOWN	570	J	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_SVOA	493-02-7	NAPHTHALENE, DECAHYDRO-, TRA	1400	NJ	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_SVOA		UNKNOWN	1200	J	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_SVOA		UNKNOWN	280	J	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_SVOA		UNKNOWN	290	J	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_SVOA		UNKNOWN	620	J	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_SVOA		UNKNOWN	1400	J	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_SVOA		UNKNOWN	560	J	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_SVOA		UNKNOWN	310	J	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_SVOA		UNKNOWN	3200	J	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_SVOA		UNKNOWN	740	J	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_SVOA		UNKNOWN	1700	J	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_SVOA		UNKNOWN	800	J	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_SVOA	3031-15-0	NAPHTHALENE, 1,2,3,4-TETRAME	1100	NJ	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_SVOA		UNKNOWN	470	J	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_SVOA		UNKNOWN	740	J	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_SVOA	1000104-10-8	3-METHYL-4-(METHOXYCARBONYL)	580	NJ	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_SVOA		UNKNOWN	1000	J	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_SVOA		UNKNOWN	300	J	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_SVOA		UNKNOWN	980	J	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_SVOA		UNKNOWN	300	J	µg/kg
STBS00501701XX	11/15/2005	D1367	OLM4.2_SVOA		UNKNOWN	4400	J	µg/kg

sample_name	sample_date	Lab_Del_Group	lab_anl_method_name	cas_rn	chemical_name	result_value	lab_qualifiers	result_unit
STBS00101601XX	11/15/2005	D1367	OLM4.2_SVOA	872-05-9	1-DECENE	500	NJB	µg/kg
STBS00101601XX	11/15/2005	D1367	OLM4.2_SVOA	2156-97-0	DODECYL ACRYLATE	120	NJ	µg/kg
STBS00101601XX	11/15/2005	D1367	OLM4.2_SVOA		UNKNOWN	99	J	µg/kg
STBS00101601XX	11/15/2005	D1367	OLM4.2_SVOA		UNKNOWN	2300	J	µg/kg
STBS00301601XX	11/16/2005	D1367	OLM4.2_SVOA		UNKNOWN	100	J	µg/kg
STBS00301601XX	11/16/2005	D1367	OLM4.2_SVOA	2156-97-0	DODECYL ACRYLATE	360	NJ	µg/kg
STBS00301601XX	11/16/2005	D1367	OLM4.2_SVOA		UNKNOWN	78	J	µg/kg
STQS001XXX05XX	11/16/2005	D1367	OLM4.2_SVOA	54446-78-5	ETHANOL, 1-(2-BUTOXYETHOXY)-	3	NJ	µg/l
STQS001XXX05XX	11/16/2005	D1367	OLM4.2_SVOA		UNKNOWN	3	J	µg/l
STQS001XXX05XX	11/16/2005	D1367	OLM4.2_SVOA		UNKNOWN	42	J	µg/l
STQS001XXX05XX	11/16/2005	D1367	OLM4.2_SVOA		UNKNOWN	60	J	µg/l
STBS00201801XX	11/16/2005	D1367	OLM4.2_SVOA	112-34-5	ETHANOL, 2-(2-BUTOXYETHOXY)-	290	NJ	µg/kg
STBS00201801XX	11/16/2005	D1367	OLM4.2_SVOA		UNKNOWN	130	J	µg/kg
STBS00201801XX	11/16/2005	D1367	OLM4.2_SVOA	872-05-9	1-DECENE	440	NJB	µg/kg
STBS00201801XX	11/16/2005	D1367	OLM4.2_SVOA		UNKNOWN	470	J	µg/kg
STBS00201801XX	11/16/2005	D1367	OLM4.2_SVOA		UNKNOWN	91	J	µg/kg
STBS00201801XX	11/16/2005	D1367	OLM4.2_SVOA		UNKNOWN	79	J	µg/kg
STBS00201801XX	11/16/2005	D1367	OLM4.2_SVOA	198-55-0	PERYLENE	130	NJ	µg/kg
STBS00201801XX	11/16/2005	D1367	OLM4.2_SVOA		UNKNOWN	1900	J	µg/kg
SBLK1A		D1367	OLM4.2_SVOA	112-34-5	ETHANOL, 2-(2-BUTOXYETHOXY)-	4	NJ	µg/l
SBLK1J		D1367	OLM4.2_SVOA	872-05-9	1-DECENE	420	NJ	µg/kg
SBLK1J		D1367	OLM4.2_SVOA		UNKNOWN	1900	J	µg/kg
STMW003XXX01XX	12/9/2005	D1488	OLM4.2_SVOA	50-84-0	BENZOIC ACID, 2,4-DICHLORO-	10	NJ	µg/l

TIC_retention_time
02.56
02.77
02.92
03.94
04.21
04.83
05.41
05.47
05.59
06.03
07.85
18.00
02.56
02.77
03.25
03.70
03.94
04.21
04.82
05.42
05.59
06.02
07.85
02.56
02.76
03.31
03.95
04.22
04.83
04.97
05.41
05.59
06.03
07.81
08.02
08.51
08.96
09.57
09.92
10.15
10.29
10.50
10.80
11.10
11.17
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11.60
11.69
11.76
11.87
11.92
11.99
12.42

TIC_retention_time
12.59
12.67
12.83
12.99
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13.32
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14.15
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09.58
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12.64
12.78
13.18
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TIC_retention_time
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03.94
04.20
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14.73
15.14
19.66
19.71
24.15
10.81
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07.38
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24.17
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05.27
05.37
05.42
05.85
06.00
06.13
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06.45
06.62
06.95
07.06
07.61
08.21
08.82
09.05
09.24
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10.83
11.39
11.76
12.36
12.45
12.63
12.84
12.98
13.73
14.14
14.89
15.46

TIC_retention_time
10.75
14.79
15.54
23.98
08.05
12.50
15.54
08.74
14.47
16.36
18.17
08.06
09.69
10.75
12.50
14.79
16.89
19.62
23.97
08.74
10.82
24.17
10.98