

FORMER DARBY DRUGS DISTRIBUTION CENTER
80-100 BANKS AVENUE
ROCKVILLE CENTRE, NEW YORK
BROWNFIELD CLEANUP PROGRAM ID: C130140

**SUPPLEMENTAL REMEDIAL INVESTIGATION
REPORT**

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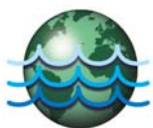
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway
Albany, New York 12233-7015

Prepared For:



AvalonBay Communities, Inc.
135 Pinelawn Road, Suite 130 South
Melville, New York 11747

Prepared By:



P.W. Grosser Consulting, Inc.
630 Johnson Avenue, Suite 7
Bohemia, New York 11716
Phone: 631-589-6353
Fax: 631-589-8705
Kris Almskog, Senior Project Manager
Thomas Melia, Senior Hydrogeologist

krisa@pwgrossex.com
thomasm@pwgrossex.com

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P.W. GROSSER CONSULTING, INC.
PROJECT No. AVB0801

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November 24, 2009

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1.0 INTRODUCTION

P.W. Grosser Consulting Inc. (PWGC) was contracted by Avalon Bay Communities, Inc. (Avalon Bay) of Melville, New York and Darby Drug Co., Inc. (Darby) of Westbury, New York to perform a Supplemental Remedial Investigation (RI) at the property located at 80-100 Banks Avenue, Rockville Centre, New York. Redevelopment plans for the property, the former Darby Drugs pharmaceutical product warehouse and distribution center, include two residential complexes and associated grounds. Based on the historical use of the property and the confirmed presence of chlorinated solvents, the site was accepted into the New York State Brownfields Cleanup Program (BCP). This report has been prepared to document the results of the Supplemental RI performed at the site, as required under the BCP.

Areas of concern addressed by this Supplemental RI are detailed in the approved Supplemental Remedial Investigation Work Plan (SRIWP) prepared by PWGC dated April 2008. Additional investigation activities were completed following a February 23, 2009 email request by NYSDEC and follow conversations. This Supplemental RI Report is intended to address potential areas of concern within the property boundary of the site only, and does not address areas of concern outside of the property boundary. The on-site and off-site components of this project have been separated into two Operable Units (OU) which will be managed by separate and distinct parties. The on-site component will be addressed under a Brownfield Cleanup Agreement between ARC Chase Partners, LLC, Avalon Bay Communities, Inc. (AvalonBay) and the New York State Department of Environmental Conservation (NYSDEC). The off-site component has been designated as Operable Unit 2 (OU2) and will be addressed under an Order on Consent between the NYSDEC and Darby Drug Group Companies, Inc. (Darby).

1.1 Site Description

The subject site is located at 80-100 Banks Avenue in the Village of Rockville Centre, New York. The site is located within the Town of Hempstead and Nassau County. The site is situated at the northwest corner of the intersection of Nassau Street and Banks Avenue. The property is identified as Section 38, Block 539, Lots 27 and 30 by the Nassau County Department of Assessment. The site is approximately 7.1 acres and is currently improved with a one-story, 150,000 square foot warehouse building and a 2-story 24,000 square foot office building, both of masonry construction. A Vicinity Map is included as **Figure 1**; a Site Plan is included as **Figure 2**.

The subject site was recently purchased by Avalon Bay and was formerly owned by Darby, which ceased operation at the site in November 2000. Darby had occupied the building since 1978 and operated it as a pharmaceutical product warehouse and distribution center. Demolition of the existing structures and the phased development of two residential buildings consisting of a 100,492 square foot (footprint) north complex and a 60,128 square foot (footprint) south complex are planned.

1.2 Site History

According to title information provided by Darby, the 80 Banks Avenue parcel was owned by the RVC Urban Renewal Agency until 1971, when it was sold to the partnership of Walter G. Stackler, Leonard L. Frank and Herbert Z. Gold. The parcel remained under the ownership of various forms of the original partnership until it was purchased by Darby Drug Co., Inc. in 1978. The 100 Banks Avenue parcel has a similar history and was owned by

the RVC Urban Renewal Agency prior to 1972. From 1972 to 1973 the title lists Stafgo Corporation as the owner. In 1973, ownership of the parcel was transferred by Stafgo Corporation to 420 Doughty Blvd Corporation, which merged with Darby Drug Co. Inc. in 1975. In 1993 the 80 Banks Avenue and 100 Banks Avenue property was transferred to Darby Group Companies, Inc by the successor-in-interest to Darby Drug Co., Inc.

Although Darby occupied the 80 Banks Avenue premises since 1978 and the 100 Banks Avenue property from 1973, no information regarding previous operators except as set forth above or tenants of either parcel has been identified other than Downen-Zier Knits, Inc. which leased the 80 Banks Avenue property from 1972 to 1978. Downen-Zier went bankrupt in 1978. Unverified information indicates that a rug cleaning or carpet manufacturing business may have occupied the property prior to Darby's acquisition of the 80 Banks Ave property; however, this could not be confirmed.

1.3 Project Background

The chlorinated solvent, tetrachloroethene (PCE), was first identified in shallow soil beneath the southwestern portion of the building, during a Phase II investigation performed at the site in November 2003. It is believed that PCE may have been released between 1972 and 1978, during the time that a textile company leased the southern portion of the site (80 Banks Avenue). A Remedial Investigation (RI), performed in accordance with NYSDEC Draft DER-10, Technical Guidance for Site Investigation and Remediation (DER10), was initiated in March 2004, to characterize the nature and extent of PCE in soil and groundwater at the site. The results of the investigation, as documented in the Draft RI Report (PWGC, 8/04), recommended an Interim Remedial Measure (IRM) to remove mobile and residual dense non-aqueous phase liquid (DNAPL). The site was accepted into New York State's Brownfield Clean-up Program (BCP), and a Brownfield Clean-up Agreement (BCA) was executed on June 29, 2005. Upon review of the RI Report, NYSDEC provided multiple comments in an August 15, 2005 letter, including providing further detail about initial investigation sample collection techniques and the need to further evaluate and investigate additional on-site areas of concern.

An IRM Work Plan was approved by the NYSDEC May 12, 2006. The IRM Work Plan addresses source areas of PCE contamination, by removing DNAPL that has accumulated at a clay boundary (11-17 ft below surface), and by excavating residually impacted soils down to the clay surface.

A September 20, 2007 NYSDEC letter to Environmental Business Consultants, Inc. (EBC), the consultant representing Darby for the off-site investigation portion of the BCP, requested additional areas of concern to be investigated as part of the Work Plan for OU2 (off-site). Although this letter focuses on the previously submitted OU2 Work Plan, several of the comments requested further investigation within the property boundary, including investigation of 14 leaching pools on the western side of the building and groundwater sampling outside the source area beneath the clay layer. The letter included a copy of a 1971 State Pollution Discharge Elimination System Permit (SPDES) application for the site which detailed the proposed locations of three supply wells, four diffusion wells, and 14 leaching pools located on the western portion of the property. Although the presence of these structures was suspected during previous investigation, the application illustrates the likely locations of the leaching pool system.

A Supplemental Remedial Investigation Work Plan (SRIWP) to address on-site areas of concern was submitted to the NYSDEC by PWGC on behalf of AvalonBay in April 2008. The SRIWP was approved by the NYSDEC and released for public comment on May 12, 2008. Following close of the public comment period, PWGC submitted a response to comments amending the SRIWP to the NYSDEC (dated August 6, 2008). The NYSDEC granted final approval to the SRIWP on August 7, 2008. Copies of PWGC's response to public comments and copies of NYSDEC correspondence are included in **Appendix A**. In February 2009, following completion of initial supplemental investigation activities and NYSDEC review of the groundwater data, NYSDEC requested that three additional monitoring wells be installed in the northern portion of the site and several existing monitoring wells be resampled for metals analysis.

1.4 Previous Investigations

1.4.1 Preliminary Soils and Foundation Investigation Report

Melick-Tully and Associates (MT&A) installed a number of borings at the subject property as part of a geotechnical analysis of site conditions to assist in the design of the proposed apartment buildings. The geotechnical investigation initially consisted of six soil borings with a recommendation that monitoring wells be installed for the basement design. Six monitoring wells were installed between January and May 2003. Based on MT&A geotechnical borings, geology beneath the site consists of one to four feet of sand fill material underlain by orange-tan sand with gravel to a depth of approximately 12 to 16 feet below grade. Beneath the sand and gravel unit is black, silty clay, which was determined to be approximately nine feet thick.

MT&A reported that the depth to groundwater at the site varies between five to nine feet below grade depending upon surface elevation. The water table was determined to exist within the sand unit situated above the black, silty clay unit. Groundwater flow was determined to vary from a westerly to a southerly direction as you move west to east across the site.

1.4.2 Phase I Environmental Site Assessment

A Phase I Environmental Site Assessment (Phase I ESA) was conducted by EcolSciences, Inc. (ESI) in March 2002 to identify potential recognized environmental conditions (RECs) associated with the subject site. The Phase I ESA included a review of available title and deed records, historical aerial photographs and maps, readily available local records, an environmental database search, including federal and state listings, and a site reconnaissance.

During site reconnaissance, ESI identified an electrical panel on the western wall of the southern warehouse area containing circuit breakers labeled "well pumps" and "dry cleaning still unit". In addition, six vertical steel pipes were discovered beneath square metal covers outside the building in the west parking area. Three of the pipes were located outside the building along the western wall and were believed to be inactive pumping wells for processing water. The remaining three pipes were located along the southern edge of the parking lot and were believed to be inactive injection wells.

The document search yielded no information on a dry cleaning operation, but records were obtained from the

Nassau County Department of Health (NCDH) detailing the proper removal of four heating oil underground storage tanks (USTs). UST removals were witnessed by the NCDH; each tank excavation was observed to be clean and no holes were identified in the tanks. ESI's Phase I ESA recommended the collection of soil samples in the vicinity of the former UST locations to verify that no discharges occurred, and a test boring program beneath the concrete floor to assess potential impacts from possible former dry cleaning operation at the site.

1.4.3 Phase II Environmental Investigation

A Phase II Environmental Investigation was performed by ESI in November 2003. ESI identified a total of seven areas of concern (AOC) as part of their scope of work. In addition to the former heating oil tanks and the former potential dry cleaning still unit, other AOCs were identified as a result of further field observation and a geophysical survey performed as part of the Phase II investigation. A total of nineteen borings were installed during the investigation with thirty-one soil samples submitted for analysis. Eleven groundwater samples were collected and analyzed including five from soil boring locations and six from pre-existing monitoring wells installed by MT&A. The AOCs identified by ESI and results of the Phase II Investigation are as follows:

North Fuel Oil UST

During the geophysical survey, an asphalt patch was identified near the northwest corner of the building, adjacent to the loading dock area. This patch represented the area where two 5,000 gallon fuel-oil USTs were formerly located. As documented in the Phase I ESA report, the USTs were removed under the oversight of the NCDH in 1995 when the heating system was converted to natural gas. The geophysical survey did not identify anomalies indicative of the presence of USTs in the vicinity of the patch.

Three soil borings were installed in the vicinity of the patch, with soil samples collected from immediately above the water table (7.5 feet below grade). Soil samples were collected to verify that a release did not occur from the removed USTs, since endpoint samples were not collected during the tank removal. Samples were analyzed for volatile organic compounds (VOCs) by USEPA Method 8260B and semi-volatile organic compounds (SVOCs) by USEPA Method 8270 (base neutral [BN] compounds). Based on analytical data it did not appear that a release occurred from the former fuel-oil USTs.

Southwest Fuel Oil UST

A second asphalt patch was identified outside the boiler room located within the southwest corner of the warehouse building. According to the Phase I ESA, two 2,500 gallon USTs were removed from this area in 1995 when the heating system was converted to natural gas. The geophysical survey did not identify anomalies indicative of the presence USTs in the vicinity of the patch. As with the northern UST location, three soil borings were installed in the vicinity of the asphalt patch. Again, soil samples were collected from immediately above the water table and analyzed for VOCs by USEPA Method 8260 and SVOCs by USEPA Method 8270 (BN). Based on analytical data, it did not appear that a release had occurred from the former fuel-oil USTs.

Dry Cleaning Still Unit

Several soil borings were installed in the southwest portion of the site, both inside and outside of the building, to

assess potential impact from the suspected former presence of a dry cleaning unit, as noted in the Phase I ESA. Shallow (<5 feet) and deep (immediately above the clay layer @ 12 to 16 feet below grade) samples were collected and analyzed for VOCs by USEPA Method 8260. Soil sample analytical data identified significant concentrations of tetrachloroethene (PCE), a compound commonly associated with dry cleaning processes. The highest shallow (<5 ft) PCE concentrations found within the building were in samples collected from soil borings DC1 and DC4, at 93,000 ppb and 110,000 ppb respectively. The Recommended Soil Cleanup Objective (RSCO) for PCE as specified in NYSDEC Technical and Administrative Guidance Memorandum (TAGM) 4046, Determination of Soil Cleanup Objectives and Soil Cleanup Levels (January 24, 1994) is 1,400 ppb (note - TAGM 4046 RSCOs were used as cleanup objectives prior to the issuance of 6 NYCRR Part 375 Soil Cleanup Objectives in December 2006; data collected prior to December 2006 are compared to the RSCOs since this investigation pre-dated 6 NYCRR Part 375).

Higher PCE concentrations were detected at the clay surface (approximately 15.5 feet below grade) in samples collected from soil borings DC2 and DC3, roughly 40 feet south of soil borings DC1 and DC4. PCE concentrations at the clay layer were 110,000 ppb in the sample collected from soil boring DC2 and 19 million ppb in the sample collected from soil boring DC3. Since the deeper samples were collected below the water table, the concentration in excess of the pure product solubility detected in DC3 indicates that dense non-aqueous phase liquid (DNAPL) is present above the clay.

PCE was detected at concentrations ranging from 2.4 ppb to 7,400 ppb in shallow soil samples collected from the exterior of the southwestern portion of the warehouse building. The highest shallow PCE concentration was detected in the sample collected from soil boring WP3. PCE was detected at concentrations ranging from 3.6 ppb to 2,100 ppb in deep soil samples collected from the exterior of the southwestern portion of the warehouse building. The highest deep PCE concentration was detected in the sample collected from soil boring B2 location, adjacent to the south wall of the building.

Exterior Subsurface Structure/Interior Battery Charging Area

The geophysical survey identified a potential rectangular subsurface structure adjacent to the asphalt patch (former UST location) near the southwest corner of the building. Below grade piping, identified by magnetic imaging, was identified leading from this potential structure toward the building in an area formerly used by Darby as a battery charging area. A soil boring was installed through the potential structure and both shallow (above the water table) and deep (above the clay) soil samples were collected. PCE was detected at 7.5 ppb and 7,400 ppb, respectively.

Potential Injection Wells

During the geophysical survey, below grade piping was identified from the southwest corner of the building to three three-foot by three-foot vaults at the southwest property boundary. Horizontal below grade piping was also identified connecting the vaults. Each vault contained four-inch vertical piping assembly resembling a well head. Groundwater was recorded at a depth of six feet below grade within in one of the suspected wells with the total depth of the well measured at approximately 14 feet below grade.

Two soil borings were installed adjacent to two separate vaults. Both shallow (above the water table) and deep (above the clay) soil samples were collected and analyzed for VOCs by USEPA Method 8260. Very low concentrations of PCE (2.4 and 2.6 ppb) were detected in the shallow soil samples. Concentrations in the deeper soil samples varied significantly. The concentration of PCE from the area coinciding with the eastern most vault was 3.6 ppb (soil boring WP1), while the concentration of PCE from the vicinity of the western most vault was 16,000 ppb (soil boring WP3), which exceeds the NYSDEC RSCO of 1,400 ppb.

Potential Vapor Vent

Vent duct work was observed leading from the area of the former dry cleaning still unit towards an outlet port on the south exterior wall of the building. A soil boring was installed adjacent to the outside the vent port. A soil sample from the interval above the clay was collected and analyzed for VOC by USEPA Method 8260. PCE was detected at a concentration of 2,100 ppb.

Metal Shop Vent

Based on field observations, a metal shop was identified along the western wall of the building, approximately 130 feet north of the battery recharging area. A soil sample directly below the asphalt pavement was collected outside of this part of the building, beneath an exterior vent port. The sample was analyzed for priority pollutant metals by USEPA Method 6010B. Chromium (30.7 ppm), Copper (35.4 ppm), nickel (16.9 ppm), and zinc (105 ppm) were detected at concentrations exceeding their respective RSCOs. Based on the relatively low concentrations detected and the collection of the sample immediately below the asphalt, it is unclear if the detection of these compounds is associated with former on-site activities.

Groundwater Sampling Results

During the Phase II Investigation, ESI collected groundwater samples from five temporary groundwater sampling points and six pre-existing monitoring wells installed by MT&A. Groundwater samples were analyzed for VOCs by USEPA Method 8260. The results of the groundwater analyses identify PCE as the predominant compound detected. The highest concentrations of PCE were detected adjacent to the west wall of the warehouse building with concentrations ranging from 1,800 ppb to 5,800 ppb.

1.4.4 Remedial Investigation

A Remedial Investigation (RI) was conducted by PWGC in March 2004 to determine the nature and extent of contamination at the site and to characterize potential threats to public health or the environment caused by the release of hazardous substances, pollutants, or contaminants from the site. Previous investigations performed at the site had identified a concentration of chlorinated VOCs, primarily PCE, in soils beneath the southwest portion of the warehouse building. PCE impact is believed to have originated during the time that a textile company (Downen-Zier Knits) and/or a rug cleaning or processing operation existed onsite (which may possibly have occupied a portion of the premises prior to 1978).

The results of the RI confirmed the findings of the previous investigations and supported a release scenario of liquid

phase PCE beneath the floor in the southwestern portion of the warehouse building. From there, PCE, as DNAPL, migrated along the clay surface to a low point approximately 50 feet east of the release point. Based on PCE concentrations in soil and groundwater, sufficient evidence existed to indicate that DNAPL was present beneath the site.

A competent clay layer, reportedly measuring approximately nine feet thick, had been documented throughout the site during the 2003 geotechnical investigation. The presence of clay appeared to have limited the vertical migration of PCE in the soil column to a maximum depth of 18 feet below grade. The clay surface was deepest in borings beneath the building and shallowest in borings at the property boundaries.

PCE impact in shallow soil, at concentrations exceeding the RSCO of 1,400 ppb, was limited to an area measuring approximately 40 feet by 60 feet. PCE impact in deeper soils was found to be more extensive covering an area roughly 180 feet by 160 feet. Significant PCE impact in soil was also found at the clay surface in samples collected from beneath the north end of the west parking area, in the general vicinity of a suspected leaching structure. The structure, if present, may have received VOC-contaminated process water from the building. The presence of DNAPL and high PCE concentrations in soil was determined to be acting as a continuing source of contamination to shallow groundwater beneath the site.

Based on groundwater sampling data, a shallow groundwater plume of chlorinated VOCs, primarily PCE, was determined to be emanating from the source area beneath the southwestern portion of the warehouse building. PCE was detected at concentrations exceed in the pure product solubility in soil and groundwater samples collected from within the presumed source area, providing further evidence of DNAPL in this area. The plume appeared to be migrating off-site toward the south. PCE was detected at concentrations up to 28,000 ppb in groundwater samples collected at the south property line. Based on the historic use of the property, the plume may have been in transit since 1978 or sometime prior.

High VOC concentrations were also detected in a single groundwater sample location (B9) at the western property boundary, which does not appear to be related to the plume emanating from the known source area. Dissolved VOCs at this location displayed a much higher ratio of 1,2-dichloroethene (1,2-DCE) and trichloroethene (TCE) to PCE, indicating that reductive dechlorination was occurring in this area. The origin of the VOCs detected in the groundwater sample collected from B9 are unknown, but may be associated with a below grade drainage structure suspected to be in the area.

The vertical migration of DNAPL appeared to have been contained by the presence of the clay layer beneath the site. The RI recommended that, since chlorinated solvents have been known to cause desiccant fracturing of certain clays, groundwater quality beneath the clay layer should be evaluated.

The isolated presence of PCE in the deep soil sample from soil boring B8 and the circular mark-outs from the ESI geophysical survey, suggested that a drainage structure exists in the area which may have, at one time, received processing waste from the building. If the structure is present, it may be the source of the VOCs in groundwater

detected at groundwater sampling location B9 at the western property boundary. The RI recommended that, to investigate this issue, test pits should be installed at the circular mark-outs to determine if subsurface drainage structures are present. If drainage structures are present, samples should be collected to determine if they have been impacted by improper wastewater disposal, and if so, the extent of impact should be determined. Drain lines entering the structure should be traced to verify the point of origin, and to investigate the possibility of secondary drainage structures. Furthermore, the RI recommended that additional groundwater delineation should be performed in this area to identify the source and migration route of the VOCs detected in the groundwater sample collected from location B9.

Based on the results of the RI, PWGC recommended that a IRM consisting of the recovery of DNAPL from within the source area and sequenced excavation of PCE impacted soils from beneath the southwestern portion of the warehouse building. The excavation plan called for utilization of sheet piling installed to the clay surface to isolate sections of the source area for excavation and dewatering to prevent mixing of contaminated and clean groundwater.

2.0 INVESTIGATION

The purpose of the Supplemental RI was to collect data of sufficient quality and quantity to augment the March 2004 RI and adequately characterize the nature and extent of contamination at the site, evaluate contaminant migration, characterize the potential exposure to human health and the environment and select the most appropriate remedial technology. This Supplemental RI is intended to address potential areas of concern within the property boundary of the site only, and did not address areas of concern outside the property boundary.

Work was performed in accordance with the approved SRIWP and NYSDEC Draft DER-10 Technical Guidance for Site Investigation and Remediation, December 2002.

2.1 Field Investigation and Technical Approach

The results of the preliminary soils and foundation investigation performed by MT&A, the Phase I and Phase II Investigations performed by ESI, and the RI performed by PWGC were used as a guide in selecting field sampling locations to verify subsurface conditions.

The primary objective of the work was to collect information and field data necessary to address NYSDEC comments pertaining to on-site issues as detailed in correspondence dated August 15, 2005 and September 20, 2007 (see **Appendix A**).

The scope of work included the following tasks:

- Ground penetrating radar (GPR) survey.
- Characterization of leaching structures located at the property.
- Evaluation of interior and exterior soil vapor quality.
- Evaluation of groundwater quality beneath the clay layer.
- Further delineation of subsurface soil impacts in the vicinity of the suspected source area.
- Evaluation of soil and groundwater quality beneath the northern portion of the site.

2.2 Geophysical Survey

2.2.1 Ground Penetrating Radar/Pipe Tracing

In an effort to better determine outflow of the interior drains and piping and potential overflow structures related to the known and suspected leaching pools, a geophysical survey was performed to identify the following:

- Subsurface piping and discharge points associated with floor drains within the warehouse building.
- Discharge points of unidentified piping within the warehouse building.
- Locations of potential leaching structures beneath the property.
- Usage of each structure (i.e., storm water drainage, industrial discharge).

A geophysical investigation to identify the items detailed above was performed on August 28, 2008 by Utility Detection, Inc. (UDI) of Melville, New York. The survey performed by UDI utilized ground penetrating radar (GPR),

a magnetometer and pipe snake to search for anomalies representative of leaching structures and piping based on size and instrument response.

Multiple potential drainage structures (two floor drains and five 4-inch diameter pipes of undetermined usage) are present within the existing building. Dye/flush testing performed during the March 2004 RI did not identify discharge points for these structures. During previous investigations, the presence of 24 on-site leaching structures, believed to be storm drains were documented. Also present are two solid manhole covers at grade, which are related to the municipal sanitary and storm sewer system lines running beneath the eastern portion of the site.

In addition to the previously identified floor drains, pipe runs and leaching structures, a site plan included in a State Pollution Discharge Elimination System (SPDES) permit application for the site illustrated 14 leaching structures within the western parking area, eight leaching structures within the southern parking area, three supply wells outside the western wall of the warehouse building (near the southwest corner of the building) and four diffusion wells along the western property boundary in the southern parking area.

Nine of the leaching structures identified in the 1971 SPDES permit site plan appear to be included among the 24 structures confirmed to be present at the site. The permit does not include information regarding the usage of the leaching structures identified in the site plan. The locations of the diffusion wells and several leaching structures, as illustrated in the 1971 SPDES permit application; do not correspond to the actual locations of the wells and structures. A copy of the SPDES Permit is included in **Appendix A**.

A magnetometer and pipe snake were used to trace four 4-inch diameter pipes (cut off at grade) located adjacent to the inside of the western wall of the warehouse building (near the southwest corner), one 4-inch diameter pipe (cut off at grade) adjacent to the southern wall of the warehouse building and one floor drain located in the southwest boiler room. Three of the pipes adjacent to the western wall were traced to the supply wells identified outside that portion of the building. The fourth pipe located adjacent to the western wall was traced south toward the diffusion well system where it met a "T" junction and a pipe running east-west parallel to the southern property boundary from diffusion well DIFFW-01 to diffusion well DIFFW-04. The pipe located adjacent to the southern wall and the floor drain in the south boiler room were obstructed at approximately two feet below grade and could not be traced using the magnetometer/snake. The southern pipe and boiler room floor drain were traced via test pits excavated outside the southern wall of the building. The 4-inch diameter pipe adjacent to the southern wall was determined to be connected to a manifold/valve system related to the diffusion well system in a vault located at the southern property boundary near diffusion well DIFFW-04. The floor drain in the southern boiler room was determined to discharge to an exterior leaching structure (LP-01) not finished to grade.

In addition to the magnetometer and pipe snake, a GPR survey was performed throughout the western and southern parking areas to identify potential below grade leaching structures and anomalies. The presence of nine structures (all finished to grade) throughout this area had been confirmed prior to implementation of the GPR survey. The GPR survey identified 19 additional structures beneath the western and southern parking areas.

Eighteen of the additional structures appeared to be storm drain overflow pools; one was determined to be an industrial leaching pool (LP-01) which received discharge from the floor drain located within the southern boiler room. The GPR survey did not identify any piping that would indicate that the storm drain structures beneath the southern and western parking areas received discharge from within the warehouse building.

Overflow piping associated with on-site leaching structures was traced using a magnetometer and pipe snake to identify potential unknown structures. No evidence of previously undetected structures was identified in storm drains located within the northern parking area; no evidence indicating pools within the northern parking area had received discharge from within the building was identified.

Following completion of the geophysical survey, test pits were excavated where leaching structures were expected to be located based on the 1971 SPDES permit and/or the presence of overflow piping within identified structures, but were not identified during the geophysical survey. Three test pit areas were excavated within the southern and western parking areas at locations that corresponded to leaching structures locations in the SPDES permit site plan. No structures were identified within these test pit areas. Two overflow pipes were identified within one storm drain (DW-29) located outside the southern portion of the office building. Test pits excavated around this pool identified one previously unknown overflow pool (DW-28). The discharge point, if any exists, of the second overflow pipe could not be determined due to the presence of underground utilities in the area (i.e., electric and telephone lines) which limited the area in which additional exploratory excavation could be performed.

Subsurface leaching structures and overflow piping identified by the geophysical survey and test pit areas are illustrated in **Figure 3**.

2.2.2 Dye/Flush Testing

Dye/flush testing was performed on drains within the onsite structures to confirm discharge points. Based on dye/flush testing:

- Sinks and drains in the northern portion of the warehouse building (including the floor drain in the northern boiler room and slop sink in a utility closet) discharge to the municipal sewer system via a sewer connection at the east site of the office building.
- Sinks and drains in the southern portion of the warehouse building (not including the floor drain in the southern boiler room) discharge to the municipal sewer system via a sewer connection at the southeast corner of the warehouse building.
- The floor drain in the southern boiler room discharges to a leaching pool near the southwest corner of the warehouse building (leaching pool LP-01).
- Sinks and drains in the office building discharge to the municipal sewer system via a sewer connection at the east site of the office building.

Discharge locations for floor drains and piping identified within the existing structures were confirmed by the geophysical survey and/or dye/flush testing. Floor drain, piping and discharge locations are illustrated in **Figure 3**.

2.2.3 Gamma Logging

In an effort to determine the depth and thickness of the clay layer and lithology beneath the clay layer, augers were driven to 100 feet below grade following completion of vertical profile sampling at each location and a gamma geophysical log was performed through the open augers. Following completion of gamma logging, penetrations through the clay layer were sealed with bentonite pellets to a depth above the top of the clay layer and augers were removed from the borehole. Gamma logs are included as **Appendix B**.

Results of the gamma logging at the vertical profile locations indicate that the highest gamma readings were generally present from approximately 12 feet below grade to 30 feet below grade, followed by a zone of lower gamma readings from 30 feet below grade to approximately 55 feet below grade, and then followed by another increase in gamma readings from 55 feet below grade to 100 feet below grade. Elevated gamma readings are generally indicative of fine silt and clay containing soils.

2.3 Leaching Structure Characterization

Sediment samples were collected from seven storm water drywells (identified as SD-1 through SD-7) during implementation of the March 2004 RI. To determine if remaining on-site leaching structures had been impacted by historic site operations, soil/sediment samples were collected from each on-site leaching structure (excluding those from which samples were collected in 2004), including those identified during the geophysical survey/test pit excavation. Samples were collected in accordance with United States Environmental Protection Agency (USEPA) Underground Injection Control (UIC) program and Nassau County Department of Health (NCDH) procedures.

Subsurface drainage structure locations are illustrated in **Figure 3**, and drainage structure construction details, including structure ID, depth and diameter are summarized in **Table 1**. Based on inspection of subsurface drainage structures and the observed depth to the clay layer present at the site, it does not appear that the leaching structures extend beneath the clay layer.

2.3.1 Storm Water Drainage Structures

A total of 43 leaching structures were identified that appeared to be used primarily for storm water drainage. One structure (DW-42) located in the northern loading dock area was determined to be a solid bottomed catch basin leaving a total of 42 storm water drywells present at the site. One shallow soil/sediment sample was collected from each of the 42 structures from which a sample was not collected during implementation of the 2004 RI (a total of 36 samples were collected). No sample was collected from catch basin DW-42, which was determined to be a solid bottomed structure. Samples were collected using a properly decontaminated stainless steel hand auger. Soil/sediment was collected from zero to six inches below the base of each structure at three locations. Soils from each of the three grab samples within each structure were screened with a photo-ionization detector (PID); the grab sample exhibiting the highest PID response was collected for VOC analysis. Remaining soils collected from each of the three points were homogenized in a stainless steel mixing bowl prior to sample collection.

Storm water drainage structure locations are illustrated in **Figure 3**.

2.3.2 Industrial Discharge Structures

Only one structure (LP-01) was identified that appeared to have been used primarily for discharge of industrial wastewater. The structure received discharge from a floor drain located in the boiler room in the southern portion of the warehouse building. One shallow and one deep soil/sediment sample was collected from the structure.

The shallow sample was collected using a properly decontaminated stainless steel hand auger from zero to six inches below the base of the structure at three locations. Soils from each of the three grab samples were screened with a PID; the grab sample exhibiting the highest PID response was collected for VOC analysis. Remaining soils collected from each of the three points were homogenized in a stainless steel mixing bowl prior to sample collection.

The deep sample was collected using a properly decontaminated stainless steel hand auger advanced inside a PVC outer casing to prevent the boring from collapsing. The sample was collected from a depth corresponding to the two-foot interval (nine to 11 feet below grade) immediately above the clay layer present beneath the site, as determined by location specific field observations. Collected soils were field screened for the presence of VOCs using a PID.

Industrial wastewater discharge structure locations are illustrated in **Figure 3**.

2.4 Source Area Delineation

To further delineate the extent of the source area documented by the 2004 RI, soil borings were installed adjacent to the source area location to quantify the horizontal extent of subsurface impact. Six soil borings (SB-2008-09 through SB-2008-14) were installed around the perimeter of the suspected source area, both inside and outside the building. Delineation borings were concentrated in areas from which a sufficient number of samples were not previously collected during the ESI Phase II ESA and the March 2004 RI. Soil boring locations are illustrated in **Figure 4**; soil boring logs are included in **Appendix C**. Historic soil boring locations, from previous investigations, are illustrated in **Figure 5**.

Soil borings were installed utilizing a Geoprobe® direct-push drill rig outfitted with a macro-core sampler and dedicated acetate liners. Soils were collected continuously from ground surface to a depth corresponding to the top of the clay layer present beneath the site as determined by location specific field observations. Soils were field-screened for the presence of VOCs using a PID. Non-dedicated sampling equipment was decontaminated prior to the collection of each sample.

Two soil samples were collected at each boring location. Samples were collected from the interval within the vadose zone (approximately zero to nine feet below grade) exhibiting the highest PID response, and the interval immediately above the clay layer. If no PID response above background concentrations was observed in soils

collected from within the vadose zone, a sample was collected from the interval immediately above the water table interface.

The SRIWP included a provision to install step-out borings at boring locations where field observations and/or PID response identified the presence of impacted soil. However, no evidence of impacted soil was identified at boring locations SB-2008-09 through SB-2008-14; as such, the installation of step out borings was not warranted.

2.5 Soil and Groundwater Evaluation

To evaluate general soil and groundwater quality beneath the site, eight soil borings (SB-2008-01 through SB-2008-08) and nine temporary groundwater sampling points (GW-2008-01 through GW-2008-08 and GW-2008-15) were installed throughout the property. Boring locations were chosen to provide a representative sample of general soil and groundwater conditions at the subject property and were not biased towards any potential areas of concern.

In addition, groundwater samples were collected from each of the existing supply, diffusion and monitoring wells at the site. Soil borings, temporary groundwater sampling points, and supply, diffusion, and monitoring well locations are illustrated in **Figure 4** and **Figure 6**. Soil boring logs are included as **Appendix C**; well sampling logs are included as **Appendix D**. Historic groundwater sample locations, from previous investigations, are illustrated in **Figure 5**.

2.5.1 Soil Borings

A total of eight soil borings were installed utilizing a Geoprobe® direct-push drill rig outfitted with a macro-core sampler and dedicated acetate liners. Soils were collected continuously from ground surface to a depth corresponding to the top of the clay layer present beneath the site, as determined by location specific field observations. Soils were field-screened for the presence of VOCs using a PID. Non-dedicated sampling equipment was decontaminated prior to the collection of each sample.

One soil sample was collected at each boring location from the interval exhibiting the highest PID response. If no PID response above background concentrations was observed, a sample was collected from the interval immediately above the water table.

The SRIWP included a provision to install step-out borings at boring locations where field observations and/or PID response identified the presence of impacted soil. However, no evidence of impacted soil was identified at boring locations SB-2008-01 through SB-2008-08; as such, installation of step out borings was not warranted.

2.5.2 Groundwater Sampling Points

A total of nine temporary groundwater sampling points were installed at the site. Groundwater samples were collected from a depth of approximately three feet below the water table. At each sampling location, a four-foot long screen point sampler was driven to the desired depth (approximately one foot of screen above the water table, three feet below the water table) using a Geoprobe® direct-push drill rig. At the desired depth, dedicated polyethylene tubing fitted with a stainless steel check valve was inserted through the probe rods into

the water bearing zone. The tubing was oscillated by hand and/or connected to a peristaltic pump to draw water to the surface. Prior to sampling, approximately three to five times the volume of standing water within the probe rods was purged to reduce sample turbidity. Non-dedicated sampling equipment was decontaminated prior to the collection of each sample.

2.5.3 Supply, Diffusion and Monitoring Well Sampling

Prior to sampling, the depth to water and depth to bottom of each supply, diffusion, and monitoring well was measured. Water level measurements were obtained with an electronic water level probe. Three to five well casing volumes of standing water were removed from each well prior to sample collection. The wells were purged using a submersible pump fitted with dedicated polyethylene tubing. Field readings (pH, temperature and conductivity) were recorded during purging, initially and for each well volume. Groundwater samples were collected with a dedicated, disposable high-density polyethylene bailer suspended by a polypropylene cord. Non-dedicated sampling equipment was decontaminated prior to the collection of each sample.

Based on their total depths, supply wells SW-01 through SW-03 and diffusion wells DIFFW-01 through DIFFW-04 appear likely to be screened within and/or slightly below the clay layer (see **Table 2** for well measurement details), and as such analytical data from these wells have been included in the evaluation of water quality beneath the clay layer.

Previously installed monitoring well MW-3 could not be located during implementation of the Supplemental RI; as such, no sample was collected.

2.6 Evaluation of Groundwater Quality beneath Clay Layer

To evaluate groundwater quality in the deeper aquifer segment, four temporary vertical profile wells were installed throughout the southern and western portions of the property and three monitoring wells (MW-7, MW-8 and MW-9) were installed throughout the northern portion of the property. Deep groundwater sample locations are illustrated in **Figure 8**.

2.6.1 Temporary Vertical Profile Wells

Temporary vertical profile wells were installed using a track mounted Geoprobe® outfitted for both direct-push and rotary drilling. Three inch inside-diameter augers were advanced to approximately two feet into the top of the clay layer. A smaller diameter direct push rod, fitted with a four-foot, stainless steel, drop-down sampling screen, was inserted inside the hollow stem augers and advanced down through the clay layer using direct push technology to the required sampling depth. Installation of outer hollow augers into the top of the clay was intended to isolate potentially impacted soil and/or groundwater above the clay layer from the smaller diameter sampling equipment, minimizing the migration of impacted soil and groundwater downward through the penetration in the clay layer.

At each vertical profile location, groundwater samples were collected at 20 foot intervals beginning at 20 feet below grade and continuing to 100 feet below grade. Five groundwater samples were collected at each vertical profile location. At each location, samples were collected from the shallowest interval first and continued

progressively through the deeper intervals. At each sampling interval, a four-foot long screen point sampler was driven to the desired depth using a Geoprobe® direct-push drill rig. At the desired depth, dedicated polyethylene tubing fitted with a stainless steel check valve was inserted through the probe rods into the water bearing zone. The tubing was oscillated by hand and/or connected to a peristaltic pump to draw water to the surface. Prior to sampling, attempts were made to purge approximately three to five times the volume of standing water within the probe rods to reduce sample turbidity. However, in several of the sample locations and depths, the rods were pumped dry, due to poor recharge rates, and then sampled upon recharge. Many of the samples collected were visibly turbid, likely due to fine grained soils within the aquifer.

Following collection of groundwater samples from each vertical profile location, the groundwater sampler and direct-push rods were removed from the borehole. The penetration through the clay layer was sealed with bentonite pellets to a depth above the top of the clay layer and augers were removed from the borehole.

In addition to the four vertical profile locations, it appears, based on total well depths, that supply wells SW-01 through SW-03 and diffusion wells DIFFW-01 through DIFFW-04 are screened below the clay layer (see **Table 2** for well construction details), and as such have been included in the evaluation of water quality beneath the clay layer.

2.6.2 Deep Monitoring Wells (Northern Portion of Site)

Monitoring wells MW-7, MW-8, and MW-9 were installed in the northern portion of the site following a request from NYSDEC after a review of the SRI preliminary data. Installation of these three wells was not included in the SIWP, but was requested by NYSDEC in February 2009 following completion of initial field activities.

Monitoring wells MW-7, MW-8, and MW-9 were installed using a rotary drill rig outfitted for hollow stem auger (HSA) drilling. Monitoring wells were installed to a depth of approximately 46 feet bgs. Wells were constructed of 2-inch diameter, schedule 40 PVC casing and 0.010 inch slot screen. Wells consisted of a one foot sump, 10 feet of screen set at approximately 35 to 45 feet bgs and solid riser to surface. Screen intervals were set below the shallow clay layer. For each monitoring well, a gravel pack of No. 2 morie sand was installed to 4 feet above the top of the screen, with a minimum two-foot thick bentonite seal. Cement/bentonite grout was installed from the bentonite seal to approximately 5 feet below grade to fill remaining void space as the augers were removed from the borehole. Drill cuttings were containerized for proper disposal. Wells were finished flush to grade with limited access manholes and risers were fitted with water tight caps. Monitoring well construction logs are included as **Appendix E**.

Following installation, wells were left undisturbed for five days to allow the bentonite seal and grout to set after which, wells were developed using the overpurge method. Wells were purged until field parameters (pH, temperature and turbidity) stabilized. Development water was drummed for proper disposal. Following development, monitoring wells MW-7, MW-8 and MW-9 were surveyed to determine relative casing elevations and locations in reference to existing site structures. Elevations were tied in to the pre-existing monitoring well network.

Prior to sampling, the depth to water and depth to bottom of each monitoring well was measured. Water level measurements were obtained with an electronic water level probe. Three to five well casing volumes of standing water were removed from each well prior to sample collection. The wells were purged using a submersible pump fitted with dedicated polyethylene tubing. Field readings (pH, temperature and conductivity) were recorded during purging, initially and for each well volume. Groundwater samples were collected with a dedicated, disposable high-density polyethylene bailer suspended by a polypropylene cord. Non-dedicated sampling equipment was decontaminated prior to the collection of each sample.

2.7 Soil Vapor Evaluation

A total of twelve soil vapor sampling points, three within the northern portion of the warehouse, two within the southern portion of the warehouse and five within the asphalt paved parking areas surrounding the existing buildings, were installed throughout the property. Soil vapor sampling point locations are illustrated in **Figure 9**.

Soil vapor sampling point installation and sample collection was performed in accordance with New York State Department of Health (NYSDOH) *Guidance for Evaluating Soil Vapor Intrusion in the State of New York* (October 2006), and United States Environmental Protection Agency (USEPA) Standard Operating Procedure (SOP) 2042, *Soil Gas Sampling*.

Soil vapor sampling points were installed using a Geoprobe® direct-push drill rig to a depth of 5.5 feet below existing grade. Each sampling point was constructed of a dedicated stainless steel screen fitted with polyethylene tubing. Washed #1 crushed stone was added to create a sampling zone 1 to 2 feet in length. The sampling point was sealed above the sampling zone with bentonite slurry to grade to prevent outdoor air infiltration. Soil vapor samples were collected into SUMMA® canisters fitted with pre-set flow regulators. The laboratory provided certified-clean canisters with an initial vacuum of approximately -30 inches of mercury (inHg) for sample collection and flow regulators pre-set to provide uniform sample collection for a 2-hour sampling period.

2.8 Data Analysis

Soil, groundwater and soil-vapor samples were delivered to Alpha Analytical Labs (Alpha) of Westboro, Massachusetts for analysis. Analytical services provided by Alpha were performed in accordance with NYSDOH Analytical Sampling Protocol (ASP) with Category B deliverables (ASP-B). Analytical services included analysis of soil and groundwater samples for Target Compound List (TCL) VOCs by USEPA Method 8260, TCL SVOCs by USEPA Method 8270, Target Analyte List (TAL) Metals by USEPA Methods 6010/7000, pesticides by USEPA Method 8081, and PCBs by USEPA Method 8082 and analysis of soil-vapor samples for VOCs by USEPA method TO-15.

Laboratory analytical reports (results only) are included as **Appendix F**; full laboratory data packages are included on the enclosed CD-ROM.

3.0 HYDROGEOLOGIC ASSESSMENT AND PHYSICAL SETTING

3.1 Site Topography

The topography of the site and surrounding area was reviewed from the USGS 7.5 minute series topographic map for the Lynbrook, New York quadrangle. The subject property has an elevation of approximately 17 feet above National Geodetic Vertical datum (NGVD) at the north end of the site, sloping to an elevation of approximately 10 feet above NGVD at the southern end of the site. Paved areas slope locally to drainage structures positioned through out the property. There is little topographic relief on the subject property and surrounding area.

3.2 Surrounding Land Use

The site is situated in a mixed industrial, residential and commercial area of the Village of Rockville Centre. The adjacent land uses, as illustrated in **Figure 10**, include:

- North – multi-family housing complex
- South - vacant one-story building; Metropolitan Transit Authority (MTA) Long Island Bus Depot; Rockville Racquet Club
- East – church; four-story office building; one-story office/industrial building
- West - Morgan Day's Park; Smith Pond

3.3 Regional Geology/Hydrogeology

The hydrogeologic setting of Long Island is well documented and consists of impermeable bedrock composed of schist and gneiss, overlain by a series of unconsolidated glacial deposits. Thicknesses of these deposits range from zero in northern Queens, where the bedrock is exposed, to more than 2,000 feet in the southern parts of Nassau and Suffolk Counties. The glacial advance is marked by two terminal moraines, which form an east-west trending line of deposits with a maximum altitude of 400 feet. A gently sloping outwash plain composed of well-sorted and permeable sand and gravel extends south of the moraine to the shore, with a slope of approximately 20 feet/mile (Cohen).

The lowest unit in the sequence is the Raritan Formation, which overlies an erosional bedrock surface composed of granite, diorite, gneiss and schist (Lubke, 1964). The Raritan formation includes the Lloyd Sand Member, which consists of sands and gravels of moderate permeability forming the Lloyd Aquifer and the Raritan Clay Member, which consists of very low permeable clay known as the Raritan Confining unit.

The Raritan Formation is overlain by the Magothy Formation, which consists of up to 1,000 feet of highly stratified layers of sand, gravel, silt and clay, which dip gently to the southeast. The Magothy Formation is the principal aquifer for Long Island, and is the main source of water for public supply (Kilburn and Krulikas, 1987). The saturated thickness of the Magothy Aquifer in the vicinity of the site is 600 feet with an estimated hydraulic conductivity of 56 feet/day (McClymonds and Franke, 1972).

Along the south shore of Long Island, the Magothy is confined by a 40 to 90 foot thick low permeability sequence of clay, silty clay and fine sand known as the Gardiner's Clay. Although the Gardiner's Clay has been mapped north of Sunrise Highway in the Rockville Center area (Doriski, 1981), the clay appears to be absent along the Hempstead Lake - Mill River corridor. As such, it is not known if the Magothy Aquifer is confined by the Gardiner's Clay in the immediate vicinity of the site.

In this area of Nassau County, the Upper Glacial Aquifer overlies either the Magothy Aquifer, or the Gardiner's Clay, where present. Upper glacial deposits consist mainly of stratified beds of fine to coarse sand and gravel but also contain beds of silt and clay (Kilburn and Krulikas, 1987). The Upper Glacial Aquifer contains the water table in most of the area. The estimated hydraulic conductivity of the Upper Glacial Aquifer is 270 feet/day (McClymonds and Franke, 1972).

The site is situated some distance south of a regional groundwater divide located along the terminal moraine, where groundwater flows to the north, west and south. Located south of the divide, groundwater in the vicinity of the site generally flows in a southwesterly direction toward the Mill River and Hempstead Bay.

3.4 Site Geology/Hydrogeology

The site overlies an interconnected aquifer system consisting of the upper glacial deposits and the underlying Magothy Formation. Depth to groundwater in the underlying Upper Glacial Aquifer ranges from approximately 5 to 10 feet below ground surface (bgs). The lithologic description of the sediments from soil borings advanced during this and previous investigations at the site identifies the materials as fine to coarse sand with small amounts of gravel to a depth of 12 to 18 feet below surface. Below the sand is a silty clay layer, which was documented to be approximately nine feet thick in the MT&A geotechnical boring report. The presence of the clay layer was visually confirmed at soil boring locations PWG-SB-2008-01 through PWG-SB-2008-14 installed during the Supplemental RI. Geologic cross sections illustrating the depth of the clay layer are included as **Figure 11** and **Figure 12**.

Gamma geophysical logs completed at the four vertical profile locations indicate that the highest gamma readings were generally present from approximately 12 feet below grade to 30 feet below grade, followed by a zone of lower gamma readings from 30 feet below grade to approximately 55 feet below grade, and then followed by another increase in gamma readings from 55 feet below grade to 100 feet below grade. Elevated gamma readings are generally indicative of fine silt and clay containing soils. Soil samples were not collected at vertical profile locations; as such, the presence of the clay confining layer was not visually confirmed at these locations.

Groundwater elevation data, recorded on October 3, 2008, was used to prepare a shallow groundwater contour map, included as **Figure 13**. As illustrated in **Figure 13**, shallow groundwater flow is generally to the south-southwest with an average gradient of 0.01 foot/foot.

Groundwater elevation data for monitoring wells MW-7, MW-8 and MW-9 which were installed in the northern portion of the property and screened below the clay layer was used to generate a deep groundwater contour map, included as **Figure 14**. As illustrated in **Figure 14**, deep groundwater flow in the northern area of the site is toward the southwest with an average gradient of 0.002 foot/foot. Due to the lack of accurate construction details for supply and diffusion wells present at the site, these wells could not be used in determination of deep groundwater flow at the site.

Table 2 provides a summary of the monitoring well elevation data including total well depth, screened interval, casing elevation and the measured depth to water.

4.0 NATURE AND EXTENT OF CONTAMINATION

This section details the Supplemental RI findings and analytical data. Analytical data is compared to NYSDEC, NYSDOH and USEPA standards, cleanup objectives and guidance values, as appropriate. Regulatory standards and guidance values used to evaluate analytical data are detailed below.

Soil sample analytical data are compared to both the Unrestricted Use and Restricted Residential Soil Cleanup Objectives (SCO) specified in 6 NYCRR Part 375-6, Remedial Program Soil Cleanup Objectives (December 2006). SCOs specified in 6 NYCRR Part 375-6 were established for use in remediating Inactive Hazardous Waste Disposal Site Remedial Program, Brownfield Cleanup Program and Environmental Restoration Program sites and are based on the protection of health and ecological resources.

Typically, analytical data for soil samples collected from subsurface drainage structures (e.g., storm drains and leaching pools) compared to the Recommended Soil Cleanup Objectives (RSCO) specified in NYSDEC Technical Administrative and Guidance Memorandum (TAGM) 4046, Determination Of Soil Cleanup Objectives and Cleanup Levels (January 1994) in accordance with NCDH and USEPA UIC Program procedures. However, because the subject property has been accepted into the BCP, subsurface drainage structure soil sample analytical data are compared to the Unrestricted Use SCOs and Restricted Residential SCOs specified in 6 NYCRR Part 375-6, as required by the BCP. The RSCOs and Unrestricted Use SCOs are approximately equal for the VOCs of concern at the site.

Groundwater sample analytical data is compared to the NYSDEC Class GA Ambient Water Quality Standards (AWQS) as specified in Technical Operation and Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (June 1998, with January 1999 Errata Sheet and April 2000 and June 2004 Addendums).

Soil vapor analytical results were compared to the Deep Soil-Gas Target Levels as specified in USEPA Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soils (Subsurface Vapor Intrusion Guidance).

Based on the March 2004 RI findings, the primary chemicals of potential concern (COPC) to be encountered at the site are PCE and its degradation products: TCE, cis-1,2-dichloroethene, trans-1,2-dichloroethene, 1,1-dichloroethene and vinyl chloride.

Soil, groundwater and soil-vapor sample locations are illustrated in **Figure 4**, **Figure 6**, **Figure 8** and **Figure 9**; analytical data are summarized in **Table 3** through **Table 16**. Laboratory analytical reports are included as **Appendix F** (results only).

4.1 Identification of Source Areas

Results of previous soil sampling programs (see section 1.4) indicate that the primary source of residual VOC contamination is beneath the southwestern corner of the warehouse building. These impacted soils appear to act as a continuing source for VOC impact to groundwater at and downgradient of the subject property.

A secondary potential source area was identified in the northwest corner of the western parking area (soil boring location B-8) during the 2004 RI. The 2004 RI concluded that elevated PCE concentrations in this area may have been due to PCE discharges to storm drains in this area. However, based on samples collected from storm drains DW-01 and DW-02 during the supplemental RI, it does not appear that storm drains in this area have been significantly impacted by PCE discharges (see section 4.2.3).

4.2 Soil Impacts

4.2.1 Additional Source Area Delineation

At each boring installed adjacent to the previously identified source area (SB-2008-09 through SB-2008-14), soil samples were collected from both above and below the water table. Each sample was analyzed for TCL VOCs by USEPA Method 8260B; two samples were also analyzed for TCL SVOCs by USEPA Method 8270C, TAL metals by USEPA Method 6010, pesticides by USEPA Method 8081 and PCBs by USEPA Method 8082.

PCE was not detected at concentrations exceeding its Unrestricted Use SCO of 1,300 ppb in samples collected from borings SB-2008-09 through SB-2008-14. Low level (below Unrestricted Use SCO) PCE concentrations were detected in both shallow and deep samples collected from borings SB-2008-10, SB-2008-13 and SB-2008-14. Concentrations in shallow samples ranged from 5.5 ppb (SB-2008-10 @ 5-10) to 56 ppb (SB-2008-14 @ 0-5). Concentrations in deep samples ranged from 44 ppb (SB-2008-13 @ 10-15') to 290 ppb (SB-2008-14 @ 10-15'). At each source area delineation boring location at which PCE was detected, concentrations were higher in the deep sample (collected from below the water table). PCE was the sole VOC detected in the source area delineation soil samples.

Samples collected from borings SB-2008-10 (5-10') and SB-2008-14 (10-15') were also analyzed for SVOCs, metals, pesticides and PCBs. SVOCs, metals, pesticides and PCBs were not detected at concentrations exceeding their respective Unrestricted Use SCO in either sample.

Additional source area delineation sampling appears to confirm the conclusions of the March 2004 RI indicating that the source area for PCE contamination at the site is limited to the area beneath the southwest portion of the warehouse building.

Soil boring locations are illustrated in **Figure 4**; soil sample analytical data are summarized in **Table 3**, **Table 4** and **Table 5**.

4.2.2 General Soil Quality

At each boring installed throughout the northern portion of the subject site (SB-2008-01 through SB-2008-08), one soil sample was collected from above the water table. Each sample was analyzed for TCL VOCs by USEPA Method 8260B; two samples were also analyzed for TCL SVOCs by USEPA Method 8270C, TAL metals by USEPA Method 6010, pesticides by USEPA Method 8081 and PCBs by USEPA Method 8082.

VOCs were not detected at concentrations exceeding the laboratory method detection limit (MDL) in samples collected from soil borings SB-2008-01 through SB-2008-08.

Samples collected from borings SB-2008-01 (5-10') and SB-2008-08 (5-10') were also analyzed for SVOCs, metals, pesticides and PCBs. Lead and 4,4'-DDT were detected at concentrations exceeding their respective Unrestricted Use SCO in the sample collected from boring SB-2008-01; however, in both cases the compound was detected at a concentration below its Restricted Residential SCO. Additional metals, SVOCs, pesticides and PCBs were not detected at concentrations exceeding their respective Unrestricted Use SCO in the sample collected from boring location SB-2008-01. SVOCs, pesticides, PCBs and metals were not detected at concentrations exceeding their respective Unrestricted Use SCO in the sample collected from boring location SB-2008-08.

Based on soil sampling results, it does not appear that significant soil impacts are present at the site outside the presumed PCE source area beneath the southwest portion of the warehouse building. Although low level concentrations (below Restricted Residential SCOs) of lead and 4,4'-DDT were detected in the sample collected from boring SB-2008-01, it appears the sample contained non-native (fill) material. The presence of non-native material and the lack of elevated concentrations of these compounds elsewhere throughout the site indicates that their presence is likely related to the presence of non-native fill material, rather than a release or improper chemical disposal at the subject site.

Soil boring locations and PCE concentrations are illustrated in **Figure 4**; soil sample analytical data are summarized in **Table 3**, **Table 4** and **Table 5**.

4.2.3 Storm Water Drainage Structures

Samples were collected from 36 storm water drainage structures during the Supplemental RI and seven storm water drainage structures during the 2004 RI. Each sample collected during the Supplemental RI was analyzed for TCL VOCs by USEPA Method 8260B, TCL SVOCs by USEPA Method 8270C and TAL metals by USEPA Method 6010. Sample collected during the 2004 RI were analyzed for VOCs by USEPA Method 8260, SVOCs by USEPA Method 8270C and RCRA metals by USEPA Method 6010 in accordance with NCDH procedures.

PCE and its degradation products were detected in soil samples collected from nine (DW-03, 06, 07, 10, 15, 16, 17, 18, & 19) of 36 storm water drainage structures from which samples were collected during implementation of the Supplemental RI and two (SD-1 & SD-3) of seven storm water drainage structures from which samples were collected during implementation of the 2004 RI. It should be noted that drainage structures identified as DW-07 and SD-3 are the same structure. In each case, the concentrations detected were below the respective

Unrestricted Use SCO for each compound. PCE concentrations ranged from 6.4 ppb (DW-07) to 190 ppb (DW-17) during current sampling and from 20 ppb (SD-1) to 1,100 ppb (SD-3) during March 2004 sampling.

Storm water drainage structure DW-07 (identified as SD-03 during the 2004 RI) was the only structure from which a sample was collected during the 2004 RI and the Supplemental RI. PCE concentrations in this structure decreased from 1,100 ppb in 2004 to 6.4 ppb in 2008. Based upon PCE concentrations detected in this drainage structure during the 2004 RI, it was listed as a potential source area that may have received VOC contaminated process water from the building.

Storm water drainage structures in which PCE and its degradation products were detected were limited to the southwestern portion of the property. Based on the locations of the structures impacted with PCE, the concentrations detected and the shallow groundwater table at the site, it appears likely that PCE impact in these structures is related to groundwater impact at the site rather than improper discharges to individual structures.

VOCs other than PCE and its degradation products were detected in samples collected from 13 (DW-01, DW-02, DW-03, DW-07, DW-10, DW-11, DW-14, DW-30, DW-33, DW-34, DW-37, DW-38, & DW-39) of 36 storm water drainage structures from which samples were collected during implementation of the Supplemental RI and five (SD-1, SD-3, SD-4, SD-5, & SD-7) of seven storm water drainage structures from which samples were collected during implementation of the 2004 RI. The sole VOC detected at concentrations exceeding its Unrestricted Use SCO (50 ppb) was acetone in samples collected from drainage structures DW-30, DW-37, DW-38 and DW-39 during implementation of the Supplemental RI, and storm drain SD-1 during implementation of the 2004 RI. The Data Usability and Validation Report, detailed in Section 4.6.2, recommends that caution be used with acetone concentrations from these samples, because chromatographic peaks were observed in raw data for these compounds in associated method blanks, and acetone is a common laboratory contaminants and low concentrations observed in soil samples may no be site related.

SVOCs were detected at concentrations exceeding their respective Unrestricted Use SCOs and Restricted Residential SCOs in samples collected from storm water drainage structures DW-30, DW-38 and DW-39 during implementation of the Supplemental RI. SVOCs detected at elevated concentrations included benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene. The SVOCs detected are generally petroleum related and their presence in drainage structures receiving run-off from parking areas is typical. SVOCs were not detected at concentrations exceeding their respective Unrestricted Use SCOs in samples collected from storm water drainage structures SD-1 through SD-7 during implementation of the 2004 RI.

Metals were detected at concentrations exceeding their respective Unrestricted Use SCOs in samples collected from 22 (DW-01, DW-02, DW-07, DW-10, DW-11, DW-14, DW-17, DW-19, DW-20, DW-23, DW-24, DW-26 DW-28, DW-30, DW-31, DW-33, DW-34, DW-37, DW-38, DW-39, DW-40 & LP-01) of 36 storm water drainage structures from which samples were collected during implementation of the Supplemental RI; of those 20 pools, metals were detected at concentrations exceeding their respective Restricted Residential SCOs in samples collected from seven (DW-01, DW-20, DW-30, DW-31, DW-34, DW-37, & DW-40). Metals were detected at concentrations exceeding their

respective Unrestricted Use SCOs in samples collected from six (SD-1, SD-3, SD-4, SD-5, SD-6, & SD-7) of seven storm water drainage structures from which samples were collected during implementation of the 2004 RI; of those six pools, metals were detected at concentrations exceeding their respective Restricted Residential SCOs in samples collected from four (SD-1, SD-3, SD-4, & SD-6)..

Subsurface drainage structure locations are illustrated in **Figure 3**. Subsurface drainage structure soil sample analytical data are summarized in **Table 6**, **Table 7** and **Table 8**; historic storm water drainage structure analytical data are summarized in **Table 9**, **Table 10** and **Table 11**.

4.2.4 Industrial Leaching Pools

A shallow and deep sample were collected from the sole industrial leaching pool (LP-01) present at the site. Each sample was analyzed for TCL VOCs by USEPA Method 8260B, TCL SVOCs by USEPA Method 8270C and TAL metals by USEPA Method 6010.

PCE and its degradation products were detected in both the shallow and deep samples collected from industrial leaching pool LP-01. In each sample, the concentrations detected were below the respective Unrestricted Use SCO for each compound. PCE was detected at 120 ppb in the shallow sample and 4.9 ppb in the deep sample. VOCs other than PCE were not detected above the laboratory MDL.

SVOCs were not detected above their respective Unrestricted Use SCOs in either the shallow or deep sample collected from industrial leaching pool LP-01.

Copper and zinc were the only metals detected at concentrations exceeding their respective Unrestricted Use SCOs in the shallow sample collected from industrial leaching pool LP-01. Zinc was also detected at a concentration exceeding its Unrestricted Use SCO in the deep sample collected from industrial leaching pool LP-01.

Subsurface drainage structure locations are illustrated in **Figure 3**; subsurface drainage structure soil sample analytical data are summarized in **Table 6**, **Table 7** and **Table 8**.

4.3 Groundwater Impacts

4.3.1 Shallow Groundwater

Groundwater samples collected from temporary sampling points GW-2008-01 through GW-2008-08, GW-2008-13 through GW-2008-15 and monitoring wells MW-1, MW-2, MW-4, MW-5 and MW-6 were used to evaluate shallow groundwater quality. Each sample was analyzed for TCL VOCs by USEPA Method 8260B; five samples were also analyzed for TCL SVOCs by USEPA Method 8270C, TAL metals by USEPA Method 6010, pesticides by USEPA Method 8081 and PCBs by USEPA Method 8082. Well measurement details are summarized in **Table 2**.

PCE and its degradation products were detected at concentrations exceeding their respective NYSDEC AWQS in samples collected from three of eleven temporary groundwater sampling points (GW-2008-13, GW-2008-14 and GW-2008-15) and one of five monitoring wells (MW-6). Other than PCE and its degradation products, VOCs were not detected at concentrations above their respective AWQS in shallow groundwater samples collected from the site. Each of the samples in which PCE and its degradation products were detected was collected from the southwestern portion of the subject property.

Samples collected from each of the five monitoring wells present at the site (MW-1, MW-2, MW-4, MW-5 and MW-6) were also analyzed for SVOCs, metals, pesticides and PCBs. SVOCs, pesticides and PCBs were not detected at concentrations exceeding the laboratory MDL in shallow groundwater samples collected from the site. One or more metal was detected at a concentration exceeding its NYSDEC AWQS in each of the shallow groundwater samples submitted for analysis. Metals detected included aluminum, arsenic, beryllium, cadmium, chromium, iron, lead, magnesium, manganese, mercury and nickel. As noted in well sampling logs (Appendix C) groundwater samples collected from these monitoring wells were observed as turbid to very turbid. Due to the turbidity of the groundwater samples collected, it is possible that metals detected at elevated concentrations may have been related to suspended solids in the samples rather than actual dissolved metals impact. Elevated metals concentrations are commonly found in turbid groundwater samples due to nitric acid sample preservative leaching metals from suspended solids. Based upon elevated metals concentrations detected in samples from multiple storm water drainage structures throughout the site, an additional round of filtered samples were collected from monitoring wells MW-4, MW-5 and MW-6 in August 2009. Monitoring wells MW-1 and MW-2 appear to have been destroyed during demolition activities at the site between collection of initial samples and re-sampling, as such it was not possible to collect filtered samples from these wells. Samples were filtered by the analytical laboratory in accordance with the procedures detailed in USEPA SW-846.

Dissolved metals impact was not identified above NYSDEC AWQS in filtered samples collected from monitoring wells MW-4, MW-5 and MW-6. Although filtered samples were not collected from monitoring wells MW-1 and MW-2, based on the large reduction in metals concentrations between unfiltered and filtered samples collected from monitoring wells MW-4, MW-5 and MW-6, it appears likely that initial unfiltered samples collected from monitoring wells MW-1 and MW-2 were impacted by suspended solids within the samples.

Based on groundwater sampling results, shallow groundwater at the site is impacted with PCE and its degradation products. It appears that the plume of impacted groundwater originates from the source area beneath the southwestern portion of the warehouse building and is migrating south-southwest.

Shallow groundwater sample locations are illustrated in **Figure 6**; and shallow groundwater elevation contours are illustrated in **Figure 13**. Groundwater sample analytical data are summarized in **Table 12**, **Table 13** and **Table 14**.

4.3.2 Deep Groundwater

In addition to samples collected from temporary vertical profile wells VP-2008-01 through VP-2008-04, samples collected from supply wells SP-01 through SP-03, diffusion wells DIFFW-01 through DIFFW-04 and monitoring wells

MW-7, MW-8 and MW-9 were used to evaluate groundwater quality beneath the clay layer. Although specific well construction details for supply and diffusion wells are unknown, based on total well depths, it appears likely that these wells are screened within and/or slightly below the clay layer. Each sample was analyzed for TCL VOCs by USEPA Method 8260B; two samples were also analyzed for TCL SVOCs by USEPA Method 8270C, TAL metals by USEPA Method 6010, pesticides by USEPA Method 8081 and PCBs by USEPA Method 8082. Well measurement details are summarized in **Table 2**.

PCE and/or its degradation products were detected at concentrations exceeding their NYSDEC AWQS in each sample collected from vertical profile locations VP-01, VP-02 and VP-03 and diffusion wells DIFFW-01 through DIFFW-04. PCE and TCE were detected at concentrations below their respective NYSDEC AWQS in samples collected from two of three supply wells (SW-02 and SW-03). PCE and its degradation products were not detected above the laboratory MDL in samples collected from vertical profile location VP-04 and supply well SW-01. At vertical profile locations VP-01, VP-02 and VP-03, PCE and/or its degradation products were detected at concentrations exceeding their NYSDEC AWQS in samples collected as deep as 100 feet bgs.

At vertical profile location VP-01, PCE concentrations increased with sample depth with a peak concentration detected in the sample collected from the 96 to 100 foot bgs interval (200 ppb). At vertical profile location VP-02, PCE concentrations peaked in the sample collected from the 36 to 40 foot bgs interval (5,800 ppb); a second, much smaller peak was also detected in the sample collected from the 96 to 100 foot bgs interval (280 ppb). At vertical profile location VP-03, the peak PCE concentration was detected in the 56 to 60 foot bgs interval (91 ppb). At sample locations adjacent to the southern property boundary (i.e., VP-02, VP-03 and DIFFW-01 through DIFFW-04) the highest PCE concentrations were generally detected between 30 and 60 feet bgs. At vertical profile location VP-01, located adjacent to the western property boundary, the highest PCE concentration was detected at 100 feet bgs; a similar elevated concentration was also detected in the 100 foot sample collected from vertical profile location VP-02 (located adjacent to the southern property boundary).

Samples collected from monitoring wells MW-7, MW-8 and MW-9 were analyzed for VOCs. No VOCs, including PCE and its degradation products, were detected above the laboratory MDL in samples collected from these wells.

Samples collected from supply well SW-01 and diffusion well DIFFW-01 were also analyzed for SVOCs, metals, pesticides and PCBs. One SVOC (3-nitroaniline) was detected at a concentration exceeding its NYSDEC AWQS in the sample collected from suspected supply well SW-01; SVOCs were not detected at concentrations exceeding the laboratory MDL in the sample collected from diffusion well DIFFW-01. Iron, manganese and sodium were detected at concentrations exceeding their NYSDEC AWQS in samples collected from diffusion well DIFFW-01 and supply well SW-01; cadmium and copper were also detected at concentrations exceeding their respective NYSDEC AWQS in the sample collected from diffusion well DIFFW-01. As noted in well sampling logs (Appendix C) groundwater samples collected from these wells were observed as clear for SW-01 and slightly turbid for DIFFW-01. Due to the turbidity of the groundwater sample collected from DIFFW-01, it is possible that metals detected at elevated concentrations may have been related to suspended solids in the samples rather than actual dissolved

metals impact. Elevated metals concentrations are commonly found in turbid groundwater samples due to the nitric acid sample preservative leaching metals from suspended solids. Based upon the elevated level of copper detected in the sample from DIFFW-01 and the detection of elevated metals concentrations in soils collected from multiple storm water drainage structures throughout the site, filtered samples were collected from supply well SW-01 and diffusion well DIFFW-01. Dissolved metals impact was not identified above NYSDEC AWQS in filtered samples collected from these wells..

Pesticides and PCBs were not detected at concentrations exceeding the laboratory MDL in the samples collected from suspected supply well SW-01 and diffusion well DIFFW-01.

Deep groundwater sample locations are illustrated in **Figure 8**. Groundwater sample analytical data are summarized in **Table 12**, **Table 13** and **Table 14**; vertical profile sample analytical data are summarized in **Table 15**.

4.4 Soil-Vapor Impacts

Twelve soil vapor samples were collected from throughout the site. Each sample was analyzed for VOCs by USEPA Method TO-15.

Elevated PCE concentrations were detected in soil-vapor samples in the vicinity of and/or downgradient of the documented source area. PCE and/or its degradation products were detected at concentrations exceeding their respective USEPA Guidance Value (as listed for the 10^{-5} risk level) in soil-vapor samples collected at sampling points SG-2008-03, SG-2008-09, SG-2008-11 and SG-2008-12, which were the Sample collected in closest proximity to the presumed source area. Soil-vapor sample SG-2008-11, the soil-vapor sample collected nearest the proposed excavation area exhibited the highest PCE concentration detected at 1,680,000 ug/m³. The soil-vapor sample collected at location SG-2008-09, adjacent to the southern property boundary had a PCE concentration of 9,660 ug/m³.

PCE concentrations detected in soil-vapor samples collected from the remainder of the subject site were below its USEPA Guidance Value (as listed for the 10^{-5} risk level), ranging from non-detect (SG-2008-10) to a high of 62.2 ppb (SG-2008-07). PCE detected in upgradient soil-vapor samples is likely the result of dissipation of vapors from the source area. PCE was detected at 9,660 ppb at sample location SG-2008-09 which was located adjacent to the southern property boundary, indicating that soil-vapor impact in excess of USEPA guidance values likely extends off-site to the south of the subject property. Elevated PCE concentrations in soil vapor appear to roughly correlate with areas impacted with PCE in groundwater.

Soil-vapor sampling point locations are illustrated in **Figure 9**; soil-vapor sample analytical data are summarized in **Table 16**.

4.5 Qualitative Exposure Assessment

The objective of the qualitative exposure assessment under the Brownfield Cleanup Program (BCP) is to identify potential receptors to the contaminants of concern (COC) that are present at, or migrating from, the subject

property. The identification of exposure pathways describes the route that the COC takes to travel from the source to the receptor. An identified pathway indicates that the potential for exposure exists; it does not imply that exposures actually occur. Off-site investigation of contaminant plumes is not the responsibility of a party considered to be a volunteer under the BCP. Off-site investigation (OU2) will be completed under an Order on Consent between the NYSDEC and Darby Drug Group Companies, Inc. (Darby), the potential responsible party (PRP).

Based on the concentration of VOCs currently in the source area, the concentration of VOCs migrating off-site and the presumed length of time that the VOCs have been in transit (30 to 36 years) the following potential receptors and exposure pathways have been identified:

- Village of Rockville Centre water supply wells;
- Groundwater to vapor intrusion in residential and commercial structures, and,
- Smith Pond and Mill River

Each of the potential receptors and the exposure scenario is discussed in the following sections.

4.5.1 Water Supply Wells

A review of the NYSDEC inventory of documented wells (i.e. wells with permit numbers) and NCDH well records was performed to identify public water supply wells within 1 mile downgradient or ½ mile cross-gradient or upgradient of the site. These criteria was established to account for the high pumping rate and source water influence associated with public supply wells and is consistent with the New York State Source Water Assessment Program (SWAP) results.

Identified wells which met the specified distance and position criteria, were examined further to obtain specifics on the well's construction details (depth, diameter, screen interval), pumping capacity and the aquifer in which it was screened. Supply well construction details are summarized in **Table 17**.

Five wells were identified including three wells owned and operated by the Village of Rockville Centre in Lister Park, and two wells on Tanglewood Road which are owned and operated by Long Island American Water. One of the Rockville Centre Wells is no longer in use. The remaining four wells are all screened in the Magothy Aquifer at depths of approximately 450 feet. It is not known if the Magothy Aquifer is confined in this area, though the northern extent of the Gardiners Clay is present in the general area. Although a site specific seepage velocity was not be calculated, using a typical range of 0.5 to 2 ft per day, and a retardation factor of 1.3 for PCE, sufficient time would have elapsed since the release for the plume to encounter either wellfield, though no such impact has occurred.

The Village of Rockville Centre wells are located on the west side of Mill River about 1,500 feet south-southwest of the site, in the approximate direction of groundwater flow. Both of the RC wells are used on a routine basis by the Village along with a 0.75 million gallon (MG) storage tank also located at the well field. Water quality data

obtained from the NCDH for these wells indicate that PCE and its breakdown products have not been detected in well N5194 over the course of its available sampling history (11/77 - 3/01). Two detections of PCE have been noted in well N5195 over its available sample history (4/81- 12/02) which included 59 analysis rounds. PCE was detected once in 1983 and again in 1990 at a maximum concentration of 8 ppb. Based on the results, it appears that these detections are anomalous and not associated with an on-going source of contamination.

The two wells operated by Long Island American Water (LIAW) are located northwest of Smith Pond, approximately 1,800 feet from the site in an up-gradient (with respect to groundwater flow) direction. Water quality data obtained from the NCDH for these wells indicate that in the past 20 years (54 sampling rounds) PCE was detected once, (1 ppb - 12/19/77) and TCE was detected twice (11 ppb - 12/19/77, 2 ppb - 8/21/80) in Well N5556. During this same period of time Well N7521 also had one detection of PCE (2 ppb - 8/25/83) and two detections of TCE (2 ppb - 11/20/78, 1 ppb - 8/21/80). The appearance of one or two isolated detections of these compounds is inconsistent with a continuing source of contamination. In addition, the LIAW wells are positioned upgradient (northwest), of the site while the dissolved VOC plume is migrating in the opposite direction (south). All public supply wells in Nassau and Suffolk Counties are routinely tested for contaminants (including VOCs) to assure compliance with State and Federal water quality standards.

The planned off-site (OU2) investigation is intended to provide additional characterization to more accurately determine if significant exposure pathways exist.

4.5.2 Smith Pond and Mill River - Surface Water

A groundwater elevation map, which includes data from five monitoring wells present at the site, indicates that shallow groundwater at the site flows toward the south-southwest toward the southern end of Smith Pond. Shallow groundwater samples collected near the western and southern property boundaries, generally confirm that a shallow PCE plume is migrating off-site in a south-southwesterly direction. Assuming the plume continues migrating in a southwesterly direction, it appears likely that it will encounter Smith Pond and/or Mill River.

Based on limited groundwater elevation data for monitoring wells MW-7, MW-8 and MW-9, deep groundwater beneath the clay layer in the northern portion of the site flows southwest toward Smith Pond/Mill River. Due to the lack of accurate construction details for supply and diffusion wells present at the site, these wells could not be used in determination of deep groundwater flow at the site.

Further evaluation of both the shallow and the deep groundwater flow will be completed under the planned off-site (OU2) investigation to provide additional characterization to more accurately determine if significant exposure pathways exist.

4.5.3 Vapor Intrusion

The depth to groundwater at, and in the vicinity of, the subject property is relatively shallow; therefore potential vapor intrusion is a concern for downgradient properties affected by the shallow PCE plume migrating from the site. There are two potential shallow plume migration pathways downgradient of the subject property;

groundwater flow may shift slightly to the west and discharge to Smith Pond and/or Mill River or it may travel south-southwest, approximately parallel to Mill River. If the plume discharges to the pond or river, the only structures it will pass **under are the MTA Long Island Bus Depot, a vacant church building and commercial properties on the north side of Sunrise Highway.** If the plume continues southward parallel to the river, it may encounter a residential area south of S. Village Avenue, approximately 1,750 feet south of the subject property.

Although elevated PCE concentrations were detected in soil vapor samples collected at the southern property boundary, exposure from VOCs in groundwater to ambient air assumes that VOCs present in on-site and near-site groundwater migrate approximately 1,750 feet to the nearest residence with minimal attenuation, transfer to the vapor phase and enter residences through pores and cracks in their foundations.

The planned off-site (OU2) investigation is intended to provide additional characterization to more accurately determine if significant exposure pathways exist.

4.6 Quality Assurance/Quality Control

The overall quality assurance quality control (QA/QC) objective for the field investigation was to develop and implement procedures that provide data of known and documented quality. QA/QC characteristics for data include precision, accuracy, representativeness, completeness, and comparability. The purpose of the QA/QC activities developed for this site were to verify the integrity of the work performed and data collected is of the appropriate type and quality for the intended use.

4.6.1 QA/QC Samples

To assess the adequacy of the sample collection and decontamination procedures performed in the field, QA/QC samples were collected and analyzed throughout the field sampling program. In general, QA/QC samples confirmed that the procedures performed in the field were consistent and acceptable. Reported detections in the trip and field blanks did not impact the interpretation of sample data. QA/QC samples included trip blanks, field blanks, blind duplicates, matrix spike (MS), and matrix spike duplicates (MSD). Types and frequencies of field QA/QC samples are listed below.

| <u>Type</u> | <u>Frequency</u> |
|-------------------------------------|---|
| Trip Blank | One per cooler (when VOC samples collected) |
| Field Blank | One per day per matrix sampled |
| Blind Duplicate | One per 20 samples per matrix |
| Matrix Spike/Matrix Spike Duplicate | One per 20 samples per matrix |

During the project, a total of twelve trip blanks were submitted and analyzed. Trip blanks accompanied environmental samples whenever VOCs were collected.

Targeted analytes were not detected above the laboratory MDL in field blank or trip blank samples submitted for analysis, indicating that sample collection procedures and/or ambient conditions are unlikely to have impacted environmental samples collected from the site during implementation of the Supplemental RI.

QA/QC sample data are summarized in **Table 18** through **Table 24**.

4.6.2 Data Usability and Validation

A Data Validation Report and a Data Usability Summary Report (DUSR) were prepared by Stone Environmental, Inc. (Stone) of Montpelier, Vermont. A copy of the DUSR (with the Data Validation Report included as an attachment) is included as **Appendix G**.

Data Validation

Full data validation was performed on 5% of the data generated or one sample per Sample Delivery Group (SDG), whichever was greater. Remaining data received a summary validation as detailed in the DUSR. The findings and recommendations of the Data Validation Report (included as Attachment C to the DUSR) are summarized as follows:

Both vials for groundwater samples PWG-VP-2008-01 (96-100), PWG-VP-2008-02 (56-60), PWG-VP-2008-02 (96-100) and PWG-VP-2008-03 (96-100) were received with a large headspace. The validator recommended that results for all compounds in these samples be considered estimated (J, UJ qualifiers).

Due to unacceptable %D values in the associated calibration standards, the validator classified the following results as estimated (J, UJ qualifiers):

- Chloromethane, bromomethane, isopropyl benzene, 1,2,3-trichloropropane and naphthalene in samples PWG-VP-2008-02 (16-20) and PWG-VP-2008-04 (36-40).
- Dichlorodifluoromethane, chloromethane carbon disulfide, isopropyl benzene and p-diethyl benzene in samples PWG-GW-2008-04 and PWG-GW-2008-24 (PWG-GW-2008-24 was collected as a blind duplicate of PWG-GW-2008-04).
- Isophorone, 1,4-dichlorobenzene, 2,4-dinitrotoluene, 3-nitroaniline and 4-nitroaniline in samples PWG-SB-2008-01@5-10 and PWG-SB-2008-21@5-10 (PWG-SB-2008-21@5-10 was collected as a blind duplicate of PWG-SB-2008-21@5-10).
- Dichlorodifluoromethane and 1,2,3-trichloropropane in samples PWG-DW-2008-15@7-7.5 and PWG-DW-2008-100@7-7.5 (PWG-DW-2008-100@7-7.5 was collected as a blind duplicate of PWG-DW-2008-15@7-7.5).
- Dichlorodifluoromethane, carbon disulfide, vinyl acetate and 1,2,3-trichloropropane in sample PWG-DW-2008-34@5.5-6.
- Dichlorodifluoromethane, chloromethane, bromomethane and isopropyl benzene in sample DIFFW-01.
- Dichlorodifluoromethane, chloromethane, 2-butanone, acetone and isopropyl benzene in sample DIFFW-04.

Due to poor MS/MSD and duplicate recoveries in SDG L0813344 for metals and mercury analyses, several compounds exhibited recoveries outside the acceptance windows. The laboratory appropriately applied "N" and "*" qualifiers on compounds that exceeded the criteria. As a result of the recovery failures, results flagged by the laboratory with an "N" or "*" were classified as estimated (J, UJ qualifiers) by the validator in samples PWG-DW-2008-15@7-7.5 and PWG-DW-2008-100@7-7.5 (PWG-SB-2008-21@5-10 was collected as a blind duplicate of PWG-SB-2008-21@5-10).

Due to poor MS/MSD and duplicate recoveries in SDG L0813447 for metals and mercury analyses, several compounds exhibited recoveries outside the acceptance windows. The laboratory appropriately applied "N" qualifiers on compounds that exceeded the criteria. As a result of the recovery failures, results flagged by the laboratory with an "N" were classified as estimated (J, UJ qualifiers) by the validator in sample PWG-DW-2008-34@5.5-6.

Based on poor reproducibility in the organic field duplicate pairs, the validator classified the following results as estimated (J, UJ qualifiers):

- 4-4'-DDT in samples PWG-SB-2008-01@5-10 and PWG-SB-2008-21@5-10 (PWG-SB-2008-21@5-10 was collected as a blind duplicate of PWG-SB-2008-21@5-10).
- Cis-1,2-dichloroethene, trichloroethene, vinyl chloride, fluoranthene and pyrene in samples PWG-DW-2008-15@7-7.5 and PWG-DW-2008-100@7-7.5 (PWG-DW-2008-100@7-7.5 was collected as a blind duplicate of PWG-DW-2008-15@7-7.5).
- Acetone, 2-butanone, n-butylbenzene, isopropyl benzene and 2-methylnaphthalene in sample PWG-DW-2008-34@5.5 -6.
- Vinyl chloride in DIFFW-01.

Based on poor reproducibility in the inorganic field duplicate pairs, the validator classified the following results as estimated (J, UJ qualifiers):

- Aluminum, arsenic, barium, calcium, copper, lead, mercury, vanadium and zinc in samples PWG-SB-2008-01@5-10 and PWG-SB-2008-21@5-10 (PWG-SB-2008-21@5-10 was collected as a blind duplicate of PWG-SB-2008-21@5-10).
- Silver in sample PWG-DW-2008-34@5.5 -6.

Although acetone and methylene chloride were not detected above the reporting limit in volatile organic analysis (VOA) method blanks, chromatographic peaks were observed in raw data for these compounds in associated method blanks. As such, the validator recommends that caution be used in the results of these compounds as they are common laboratory contaminants and low concentrations observed in soil samples may not be site related.

Data Usability

The DUSR was prepared in accordance with USEPA Region II SOPs for validating organic and inorganic analyses and was based on a review of each SDG case narrative and full Data Validation Report (detailed above). The findings and recommendations of the DUSR are summarized as follows:

- Laboratory deliverables were received in accordance with the work plan and general reporting requirements of NYSDEC Analytical Services Protocol. Deviations from acceptable QC specifications were discussed in detail in case narratives and data were flagged with laboratory qualifiers, where appropriate.
- Due to the need for dilutions or reanalysis due to QC outliers, multiple data sets were provided for some samples. Per the DUSR, in the case of dilution analyses, the more concentrated analysis is replaced with the appropriate concentration from the dilution analysis; in the case of reanalysis original results are considered for use as estimated values (U, UJ qualifiers).
- The completeness level attained for the analysis of field samples was greater than 95%. For all data, the overall quality of data is acceptable and all results, as qualified, are considered usable.

5.0 CONCLUSIONS AND RECOMMENDATIONS

5.1 Conclusions

5.1.1 Source Areas

Previous investigations performed at the site have identified PCE and its degradation products in soils beneath the southwest portion of the warehouse building. The results of the March 2004 RI confirmed the findings of previous investigations identifying significant shallow soil contamination limited to an area approximately 40 feet by 60 feet and deeper contamination covering an area roughly 180 feet by 160 feet beneath the southwest portion of the southern warehouse building. PCE impacted soil was also identified at the surface of the clay layer outside of the building at the north end of the western parking area.

Analytical data for soil samples collected from six source area delineation soil borings installed as part of this Supplemental RI appears to confirm the conclusions of the March 2004 RI indicating that the source area for PCE contamination at the site is limited to the area beneath the southwest portion of the warehouse building. Based upon field observations, installation of additional step out borings was not warranted. PCE and its degradation products were not detected at concentrations in excess of their respective Unrestricted Use SCOs in soil samples collected from outside the perimeter of the presumed source area (SB-2008-09 through SB-2008-14).

The presence of elevated PCE concentrations in soil beneath the southwest portion of the warehouse building is acting as a continuing source of contamination to the shallow groundwater. Based upon a review of the recent and historic data, no source area was located in the northern portion, to the north of the Parcel Line (N83°50'53"E), of the property.

5.1.2 Soil

The geophysical survey, test pit excavation and dye/flush testing performed as part of the Supplemental RI identified twenty previously unknown storm water drainage structures and one previously unknown industrial leaching pool. No evidence indicating the storm water drainage structures had received discharges from within the build was identified.

PCE and its degradation products were detected at concentrations below their respective Unrestricted Use SCOs in samples collected from ten storm water drainage structures (DW-03, 06, 07(SD_3), 10, 15, 16, 17, 18, 19 & SD-1) and one industrial leaching pool (LP-01). With the exception of LP-01, all of these structures are classified as storm water drainage structures that received surface runoff and were not connected to drains from within the building. Leaching pool LP-01 was a buried structure, with no cover to grade, and it only received discharge from a drain within the southwestern corner of the building. Based on the locations of the structures impacted with PCE, in the western and southern parking lot areas, the fairly low concentrations of PCE detected and the shallow groundwater table at the site, it appears likely that low level PCE impact in these structures is related to groundwater impact at the site. PCE and its degradation products were not detected at concentrations exceeding their respective Unrestricted Use SCOs in samples collected from subsurface drainage structures at the subject site.

A total 26 storm water (DW-01, DW-02, DW-07, DW-10, DW-11, DW-14, DW-17, DW-19, DW-20, DW-21, DW-23, DW-24, DW-26, DW-28, DW-30, DW-31, DW-32, DW-33, DW-34, DW-35, DW-36, DW-37, DW-38, DW-39, DW-40, & DW-43) drainage structures and one industrial leaching pool (LP-1) at the site were determined to be impacted with VOCs other than PCE and its degradation products, SVOCs and/or metals at concentrations exceeding their respective Unrestricted Use SCOs. The compounds detected are typically associated with run-off from parking areas.

5.1.3 Groundwater

The March 2004 RI identified a shallow groundwater plume of PCE and its degradation products emanating from the source area beneath the southwestern portion of the warehouse building. PCE concentrations in the source area were reported at or above the pure product solubility, providing evidence of DNAPL in this area. At that time, the plume appeared to be migrating south toward the MTA Long Island Bus Depot. PCE was detected at concentrations as high as 28,000 ppb at the southern property boundary and 8,600 ppb at the western property boundary.

Analytical data for fourteen shallow groundwater samples collected as part of this Supplemental RI confirmed the findings of the March 2004 RI, identifying a plume of PCE and its degradation products in shallow groundwater at the site.

It appears that the plume of impacted shallow groundwater originating from the source area beneath the southwestern portion of the warehouse building may currently be migrating off-site to the south.

Elevated concentrations of PCE and/or its degradation products were detected in nineteen of 30 groundwater samples collected from below the clay layer present at the site. In deep groundwater, peak concentrations of PCE were detected at a depth of approximately 36 to 40 feet below grade at VP-02, adjacent to the southern property boundary. PCE was not detected in groundwater samples from VP-04, which was the vertical profile located furthest to the east. PCE and its degradation products were not detected in monitoring wells (MW-7, MW-8 and MW-9) located in the northern portion of the site, which were screened beneath the clay layer.

Based on the historic use of the property, plume(s) originating at the site may have been in transit for 30 to 36 years, starting sometime prior to 1978. The extent of off site groundwater impact will be determined by the off-site (OU2) investigation.

In addition to VOCs, samples collected from each of the five monitoring wells present at the site (MW-1, MW-2, MW-4, MW-5 and MW-6) were also analyzed for SVOCs, metals, pesticides and PCBs. SVOCs, pesticides and PCBs were not detected at concentrations exceeding the laboratory MDL in shallow groundwater samples collected from the site. One or more metal, including aluminum, arsenic, beryllium, cadmium, chromium, iron, lead, magnesium, manganese, mercury and nickel, were detected at a concentration exceeding its NYSDEC AWQS in each of the shallow groundwater samples submitted for analysis. Due to the turbidity of the groundwater samples

collected, and the possibility that metals detected at elevated concentrations were related to suspended solids in the samples rather than actual dissolved metals impact, monitoring wells MW-4, MW-5 and MW-6 were re-sampled and laboratory filtered samples were analyzed for dissolved metals content. Elevated metals concentrations were not detected in filtered samples, indicating that previously identified metals impact was likely related to suspended solids in the samples rather than actual dissolved metals impact.

5.1.4 Soil Vapor

Elevated PCE concentrations were detected in four of twelve soil-vapor samples collected from the site. PCE and/or its degradation products were detected at concentrations exceeding their respective USEPA Guidance Value (as listed for the 10^{-5} risk level) in soil-vapor samples collected at sampling points SG-2008-03, SG-2008-09, SG-2008-11 and SG-2008-12. With the exception of SG-2008-12, each of the soil-vapor samples was collected adjacent to the proposed IRM excavation area. Soil-vapor sample SG-2008-11, the soil-vapor sample collected nearest the proposed excavation area exhibited the highest PCE concentration detected at 1,680,000 ug/m³.

5.2 Recommendations

The Brownfield Cleanup Program defines the investigation/cleanup responsibilities required of the volunteer applicant and those assigned to the responsible party and/or the NYSDEC. Recommendations for further investigation and remediation, as detailed below, are grouped accordingly.

Potential remedial activities to address on-site soil and groundwater impact will be detailed in a Remedial Work Plan for the site, to be prepared in accordance with the NYSDEC Draft Brownfield Cleanup Program Guide (May 2004), NYSDEC 6 NYCRR Part 375-1 (December 14, 2006), and NYSDEC Draft DER-10 Technical Guidance for Site Investigation and Remediation (December 25, 2002).

5.2.1 Responsible Party

Delineation of Off-Site Groundwater Impact

The results of this Supplemental RI demonstrate that groundwater impact in excess of NYSDEC AWQS extends off site to the south and west of the subject property both above and, to a lesser extent below the clay confining layer. Based on the historic use of the property, impacted groundwater may have been in transit for 30 to 36 years, starting sometime prior to 1978. The off-site downgradient extent of the plume will be investigated under the OUIII off-site Remedial Investigation.

Delineation of Off-Site Soil Vapor Impact

PCE was detected in soil vapor in samples collected adjacent to the southern property boundary. The off site extent of soil vapor impact should be further investigated under the OU II Off-Site Remedial Investigation.

5.2.2 Volunteer

Subsurface Drainage Structure Remediation and Closure

VOCs, SVOCs and/or metals were detected at concentrations exceeding their respective Unrestricted Use SCOs in samples collected from 25 of 42 storm water drainage structures and the sole industrial wastewater leaching

pool present at the subject property. Impacted structures should be remediated in accordance with USEPA Underground Injection Control (UIC) Program procedures and abandoned if no longer needed.

Groundwater

VOCs, SVOCs and/or metals were detected at concentrations exceeding their respective NYSDEC AWQS at 16 locations throughout the southwestern corner of the site, both above and, and to a lesser extent, below the clay. However, no VOCs were detected above AWQS in samples collected from the northern portion of the property, to the north of the Parcel Line (see **Figure 7**), and a second round of laboratory filtered groundwater samples showed a decrease in metals concentrations below AWQS. The upcoming IRM will address VOC impacted groundwater through extensive dewatering and chemical oxidant treatment. The need for additional treatment, of impacted groundwater in the southwestern corner of the site, will be evaluated under the Remedial Action Work Plan for the site.

Interim Remedial Measure

Based on previous characterizations of the source area beneath the building, which identified DNAPL and sorbed phase VOCs below the water table, the RI report recommended implementation of an Interim Remedial Measure (IRM) to remove the source of groundwater impact from the southwestern corner of the site. PWGC submitted to NYSDEC a proposed IRM consisting of the installation extraction of product recovery wells to recover mobile DNAPL on top of the clay layer, followed by soil excavation within the primary source area. The IRM was approved by the NYSDEC in May 2006 and later amended with NYSDEC approval in April 2009.

Based on previous investigations, it appeared that the topography of the clay surface beneath the building formed a bowl shape in the vicinity of soil boring B3, which could potentially restrict the movement of mobile DNAPL away from the source area. As such, the IRM called for the installation of DNAPL recovery wells in this area. Since it was expected that the amount of mobile DNAPL would be limited, event based recovery methods (e.g., product bailing) were recommended rather than the installation of an automated recovery system. The intended purpose of removing mobile DNAPL was to reduce the possibility of DNAPL migration during soil excavation.

The IRM specified the excavation and disposal of approximately 9,000 cubic yards of impacted soil from the site (in conjunction with dewatering activities) to eliminate the bulk of the presumed source area followed by the application of chemical oxidants to treat residual PCE impact.

To date, six DNAPL recovery wells have been installed within the source area beneath the southwestern portion of the warehouse building and product recovery has been implemented. The following phases of the IRM, including dewatering, soil excavation and off-site disposal, chemical oxidant injections, and backfilling are scheduled to be implemented in the coming months. Following the completion of the IRM, field observations, endpoint analytical results and site activities will be summarized in a Remedial Action Work Plan (RAWP). The RAWP will also detail remedial technologies and methods to address any residual PCE impact or newly identified environmental areas if concern as detailed in this Supplemental Remedial Investigation Report.

Future Site Development Activities

The results of the investigation indicate that there are no areas of contaminated soil, groundwater or soil vapor impact in the northern portion of the site (north of the Parcel Line). In light of these findings, there is no evidence from an engineering standpoint as to why, upon NYSDEC approval of this Supplemental Remedial Investigation Report, site development activities, including the start of construction of the planned garage structure and other components of the planned development, including the residential apartment building, should not commence in the northern portion of the site at the same time that remediation is taking place in the southern portion of the site. Consistent with sound engineering practice, **a vapor mitigation system will be incorporated into the building design.** Any subsurface drainage structures which may be disturbed during or otherwise need to be abandoned for upcoming construction activities, will be properly remediated, if necessary, and abandoned in accordance with USEPA UIC Program procedures.

Following completion of the IRM, additional information will be available to determine what if any, additional remedial activities and/or engineering controls may be warranted in the southwestern portion of the site. Based upon the contaminants observed during this and previous investigations, it is anticipated that additional remedial measures may be warranted in the southern portion of the site. Appropriate remedial alternatives will be detailed in the RAWP to be submitted to the Department after completion of the IRM.

6.0 REFERENCES

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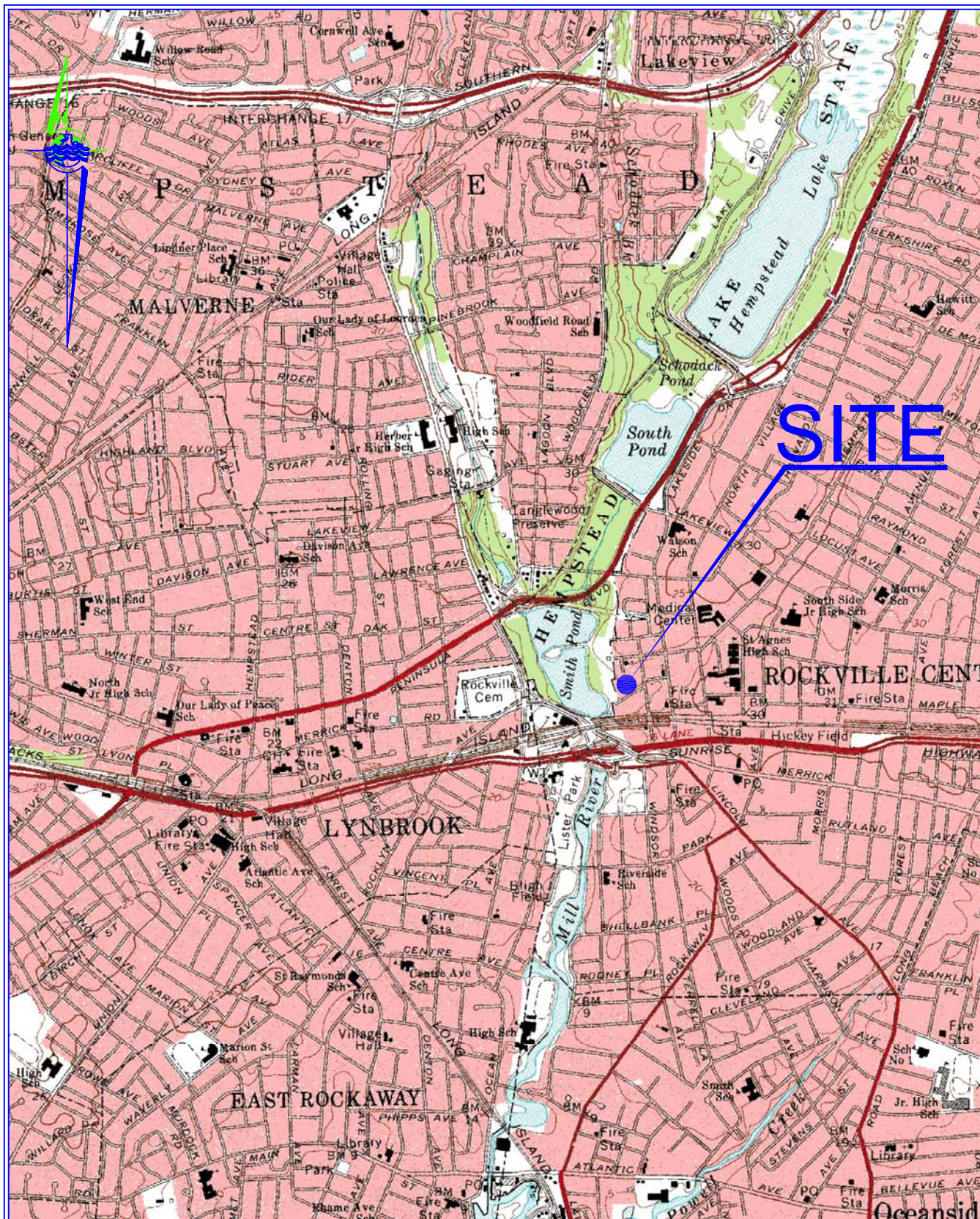
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NYSDEC, Division of Water, Technical and Operational Guidance Series (TOGS) 1:1:1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, June 1998, April 2000 Addendum

P.W. Grosser Consulting, Inc. September, 2004. Remedial Investigation Report, 80-100 Banks Avenue, Rockville Centre, New York

P.W. Grosser Consulting, Inc. September, 2004. Proposed Interim Remedial Measure, 80-100 Banks Avenue, Rockville Centre, New York.

FIGURES

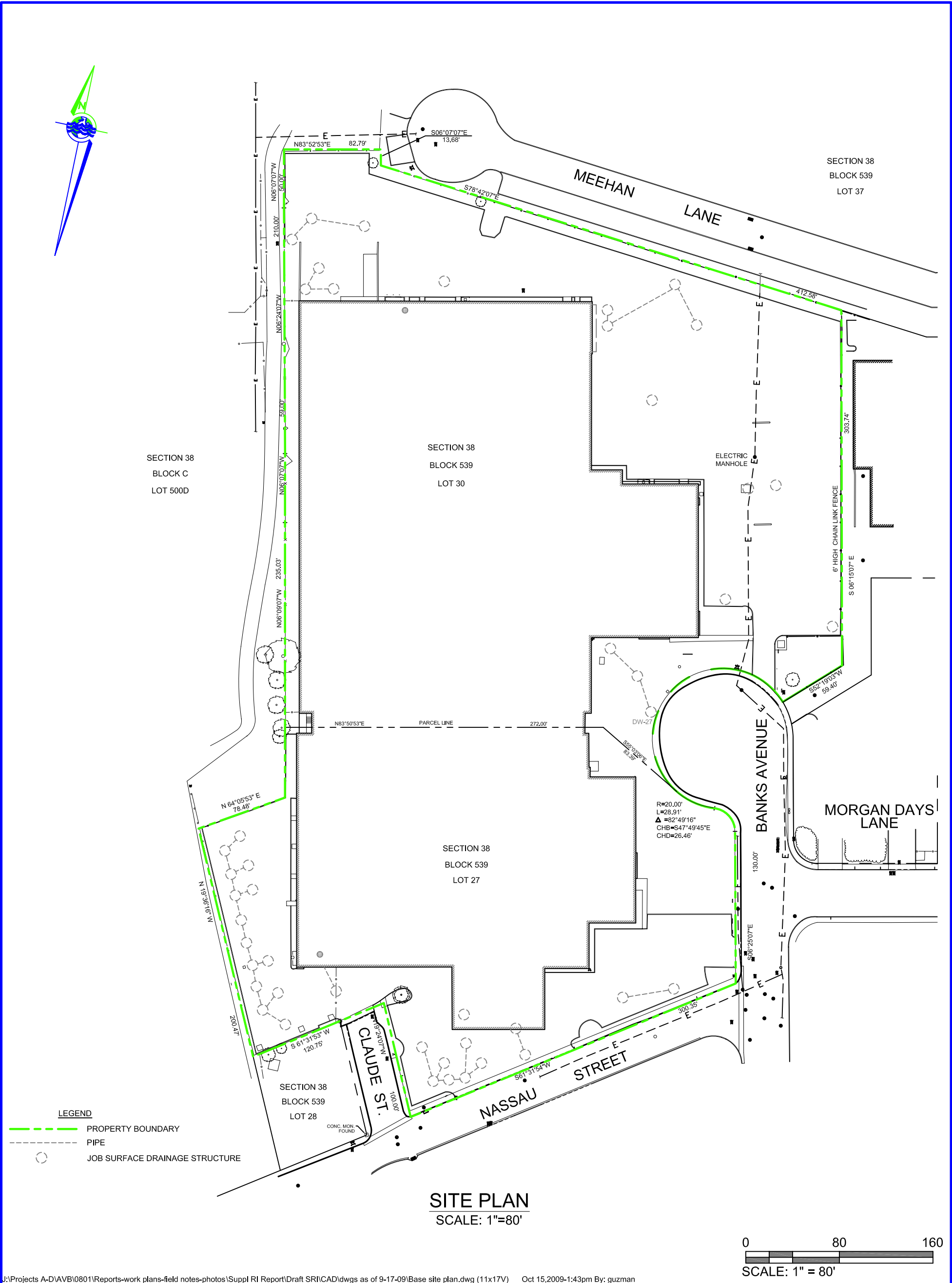


VICINITY MAP

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Mapped, edited, and published by the Geological Survey
Revised in cooperation with New York
Department of Transportation
Control by USGS, USCGS, and New Jersey Geodetic Survey

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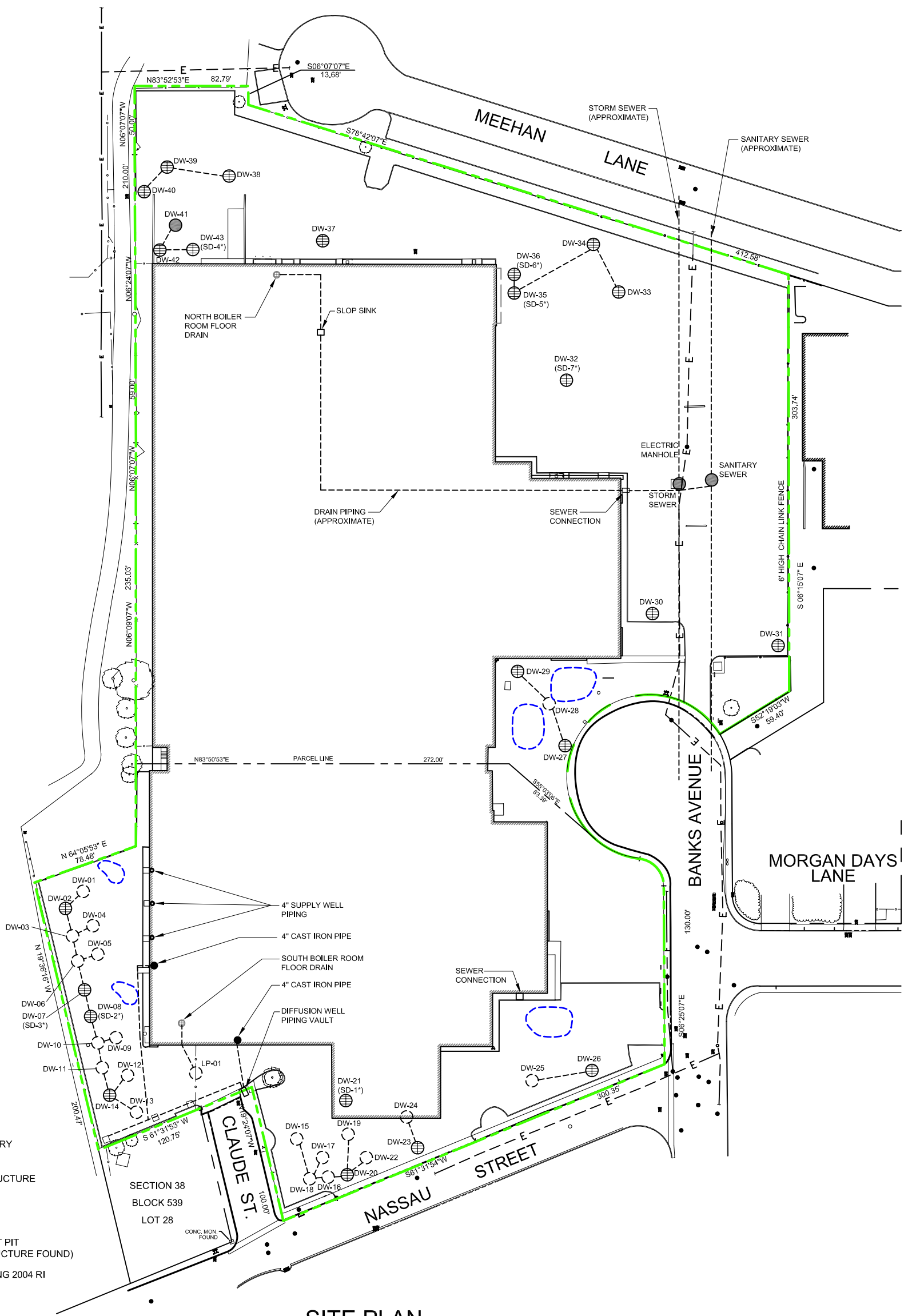
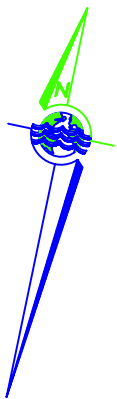
80-100 BANKS AVENUE
ROCKVILLE CENTRE, NY

FIGURE NO

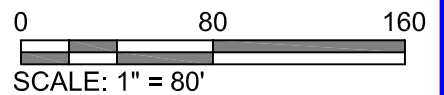
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SHEET

OF



SITE PLAN
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SUBSURFACE DRAINAGE
STRUCTURE LOCATIONS

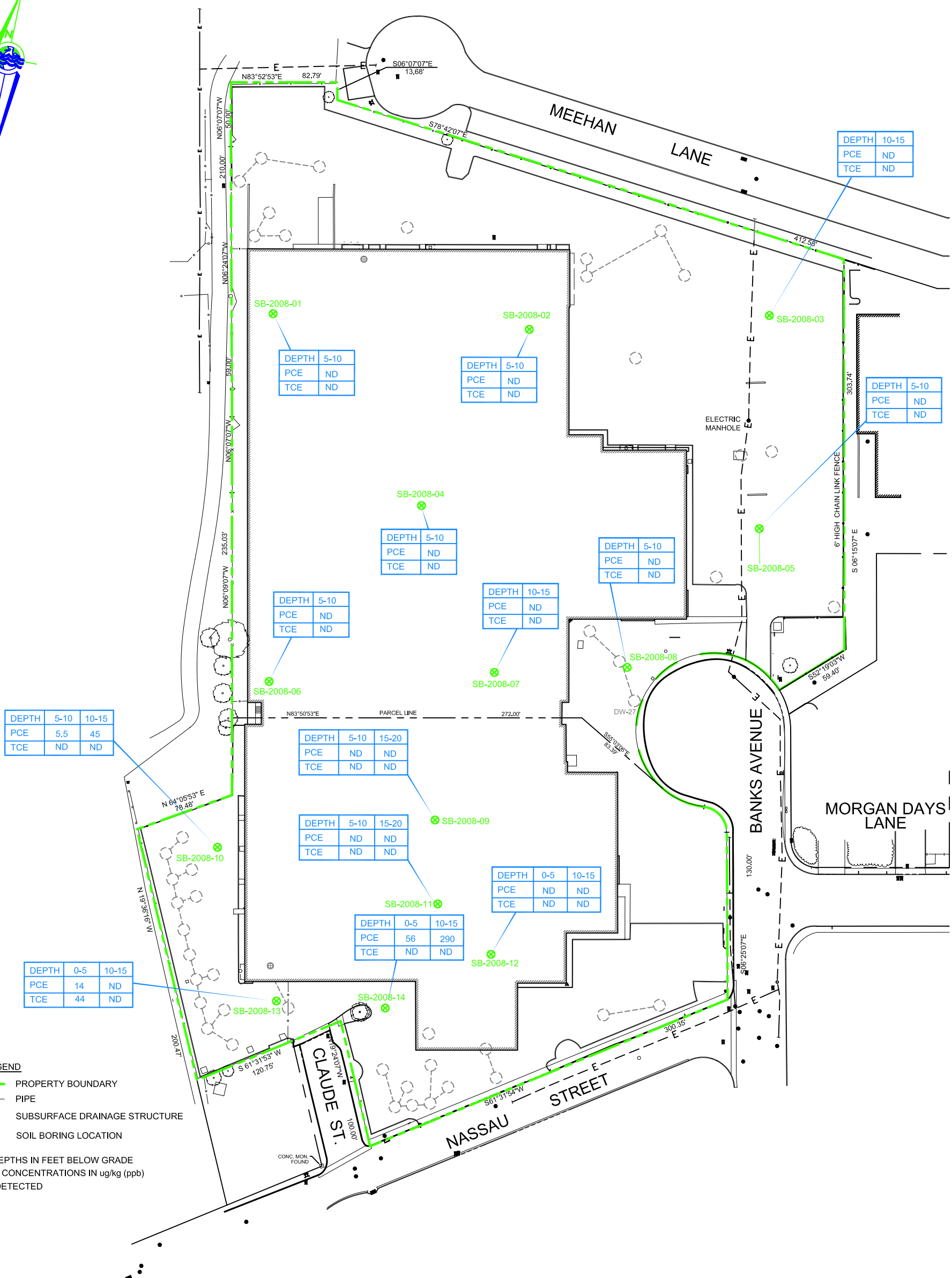
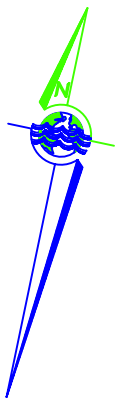
80-100 BANKS AVENUE
ROCKVILLE CENTRE, NY

FIGURE NO

3

SHEET

OF



| DEPTH | 5-10 | 10-15 |
|-------|------|-------|
| PCE | 5.5 | 45 |
| TCE | ND | ND |

| DEPTH | 5-10 |
|-------|------|
| PCE | ND |
| TCE | ND |

| DEPTH | 5-10 |
|-------|------|
| PCE | ND |
| TCE | ND |

| DEPTH | 5-10 |
|-------|------|
| PCE | ND |
| TCE | ND |

| DEPTH | 5-10 |
|-------|------|
| PCE | ND |
| TCE | ND |

| DEPTH | 10-15 |
|-------|-------|
| PCE | ND |
| TCE | ND |

| DEPTH | 5-10 |
|-------|------|
| PCE | ND |
| TCE | ND |

| DEPTH | 5-10 | 15-20 |
|-------|------|-------|
| PCE | ND | ND |
| TCE | ND | ND |

| DEPTH | 5-10 | 15-20 |
|-------|------|-------|
| PCE | ND | ND |
| TCE | ND | ND |

| DEPTH | 0-5 | 10-15 |
|-------|-----|-------|
| PCE | ND | ND |
| TCE | ND | ND |

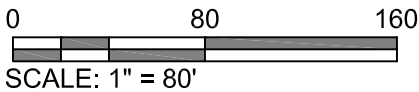
| DEPTH | 0-5 | 10-15 |
|-------|-----|-------|
| PCE | 56 | 290 |
| TCE | ND | ND |

| DEPTH | 0-5 | 10-15 |
|-------|-----|-------|
| PCE | 14 | ND |
| TCE | 44 | ND |

- LEGEND**
- PROPERTY BOUNDARY
 - PIPE
 - SUBSURFACE DRAINAGE STRUCTURE
 - SOIL BORING LOCATION

SAMPLE DEPTHS IN FEET BELOW GRADE
PCE + TCE CONCENTRATIONS IN ug/kg (ppb)
ND - NOT DETECTED

SITE PLAN
SCALE: 1"=80'



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| SOIL BORING LOCATIONS | |
| 80-100 BANKS AVENUE ROCKVILLE CENTRE, NY | |
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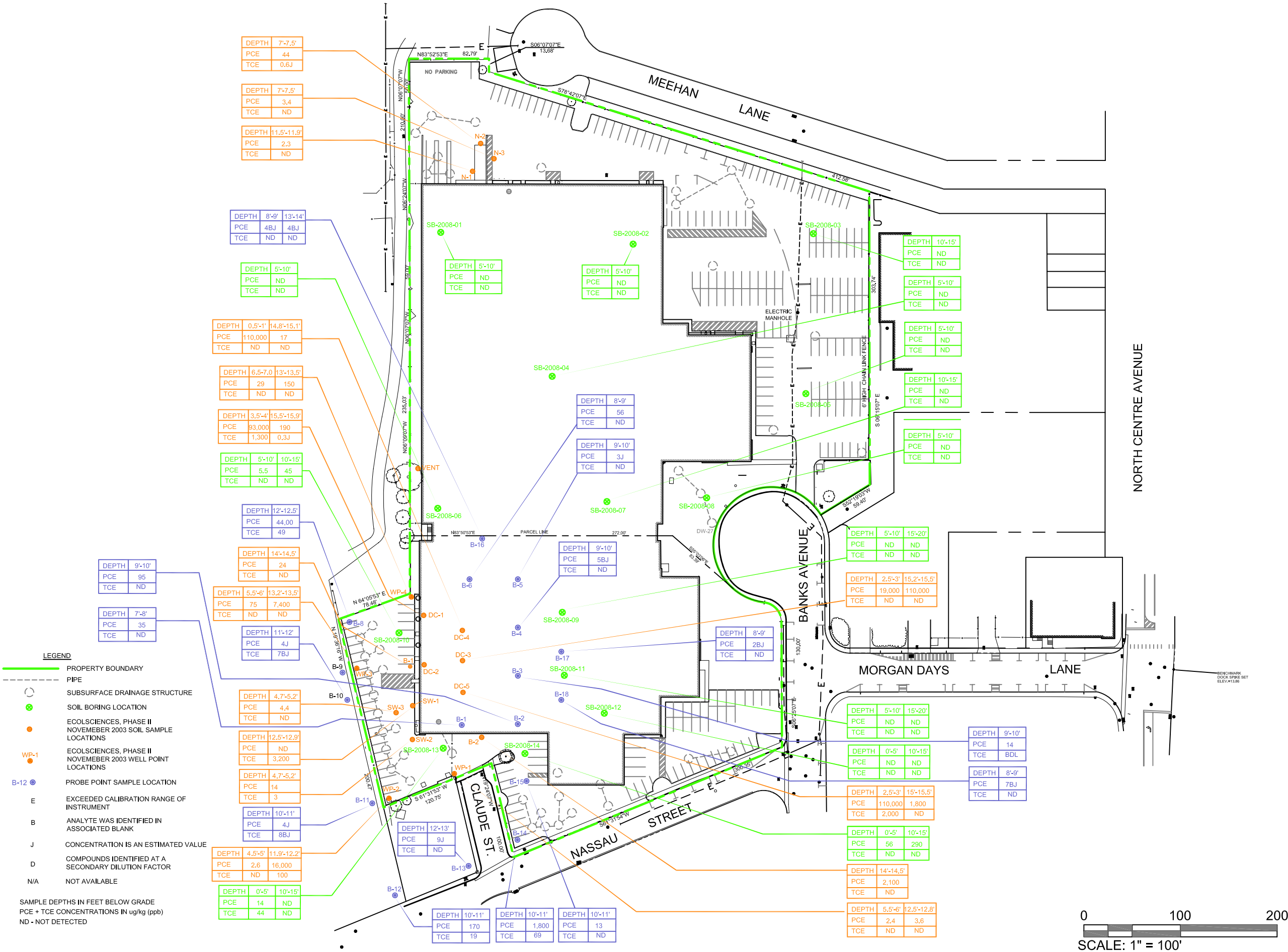
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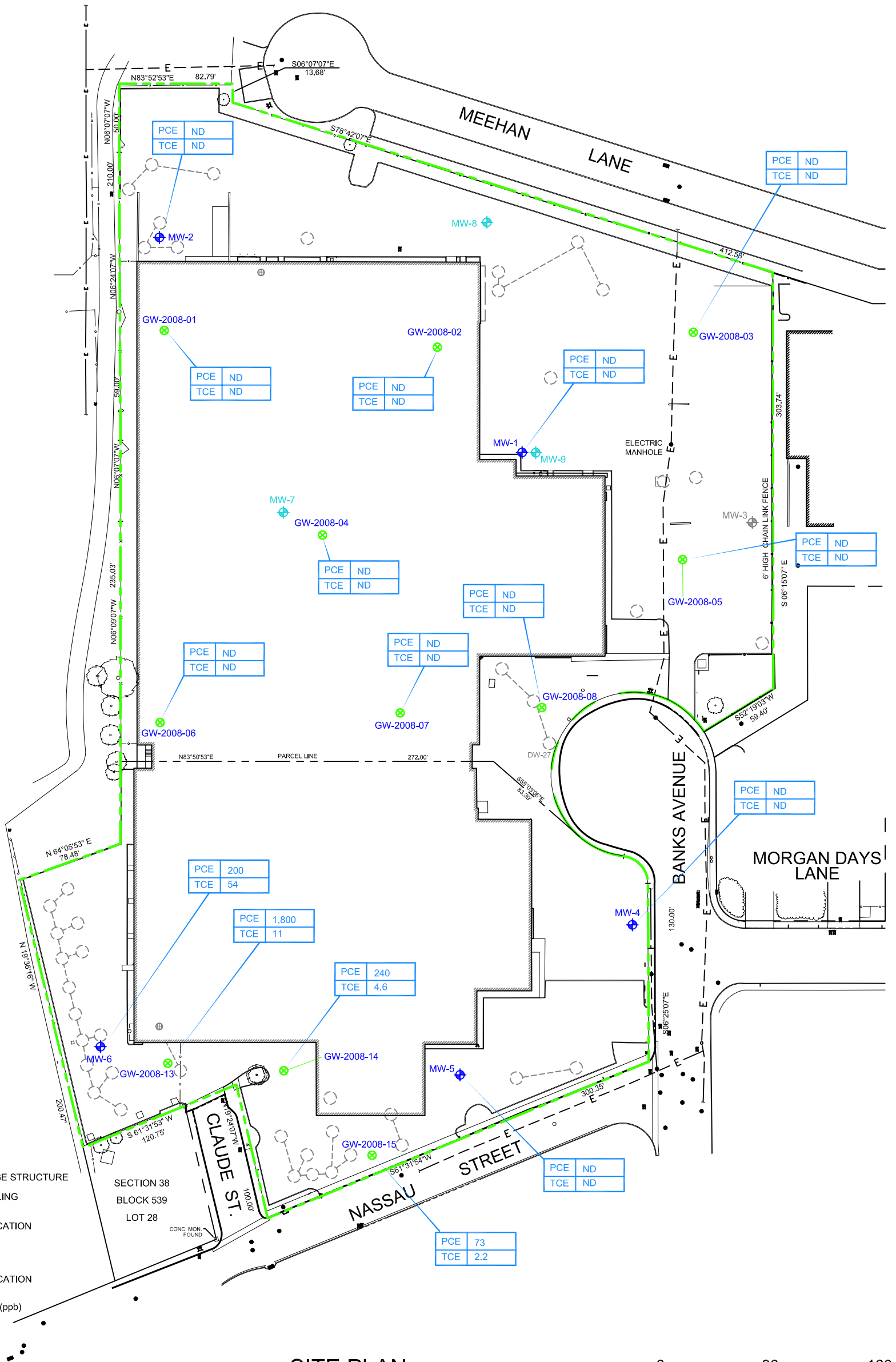
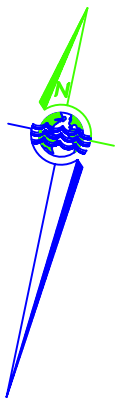
HISTORIC SOIL SAMPLE LOCATIONS AND RESULTS

80-100 BANKS AVENUE
ROCKVILLE CENTRE, NY

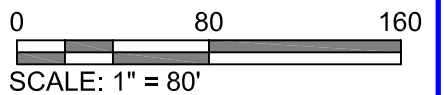
FIGURE NO
5

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SITE PLAN
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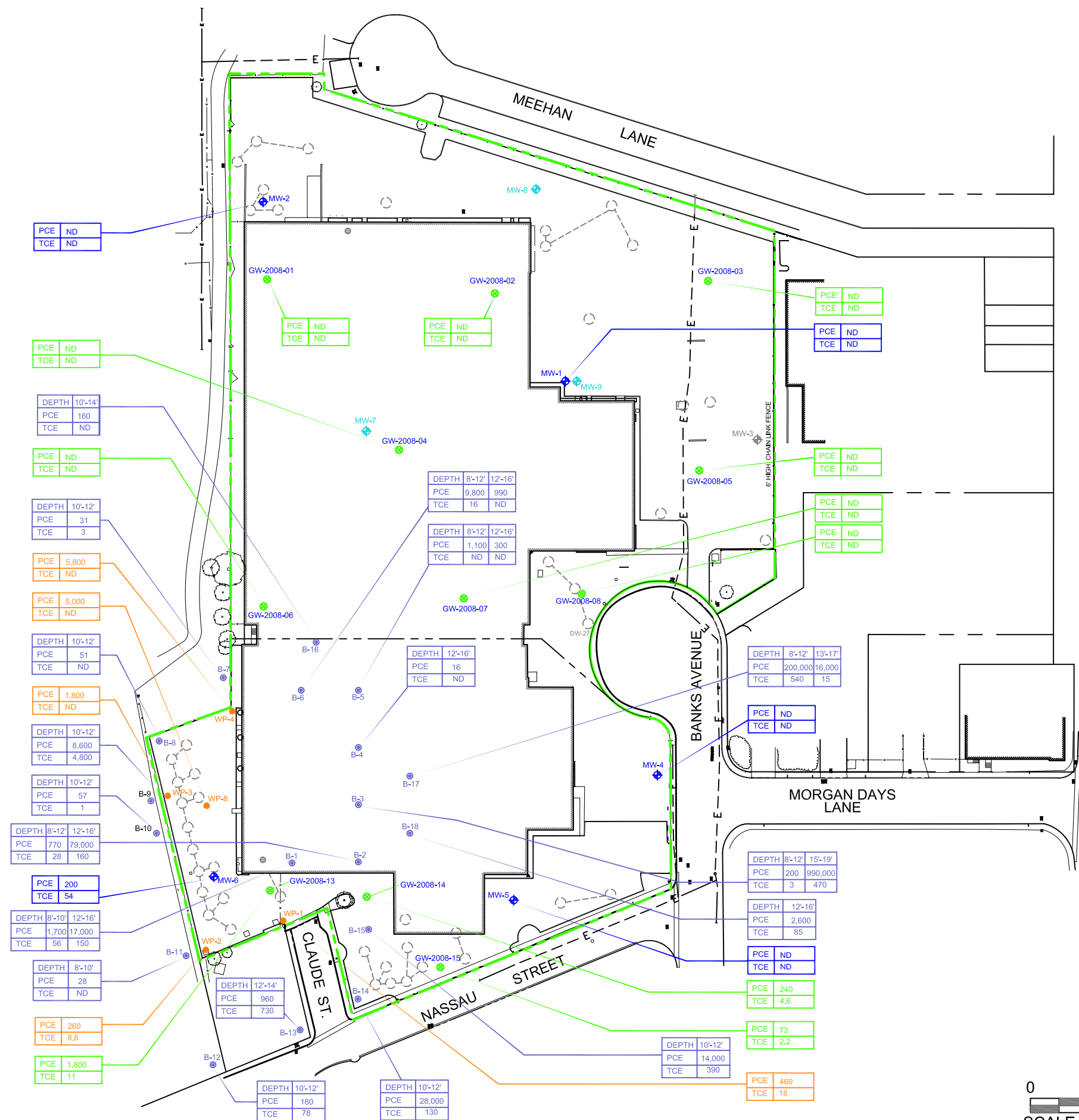
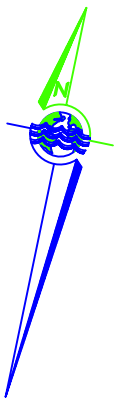
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| SHALLOW GROUNDWATER SAMPLE LOCATIONS | |
| 80-100 BANKS AVENUE ROCKVILLE CENTRE, NY | |
| FIGURE NO | 6 |
| SHEET | OF |



- LEGEND**
- PROPERTY BOUNDARY
 - PIPE
 - SUBSURFACE DRAINAGE STRUCTURE
 - GROUNDWATER SAMPLING POINT LOCATION
 - NOVEMBER 2003 GROUNDWATER SAMPLE LOCATIONS
 - MARCH 2004 GROUNDWATER SAMPLE LOCATION
 - MONITORING WELL LOCATION
 - MISSING / DESTROYED MONITORING WELL
 - DEEP (BELOW CLAY) MONITORING WELL LOCATION

SAMPLE DEPTHS IN FEET BELOW GRADE
PCE + TCE CONCENTRATIONS IN ug/L (ppb) (2008)
ND - NOT DETECTED

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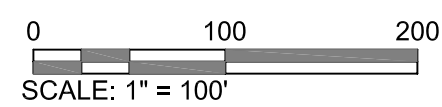
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**HISTORIC GROUNDWATER
SAMPLE LOCATIONS AND
RESULTS**

**80-100 BANKS AVENUE
ROCKVILLE CENTRE, NY**

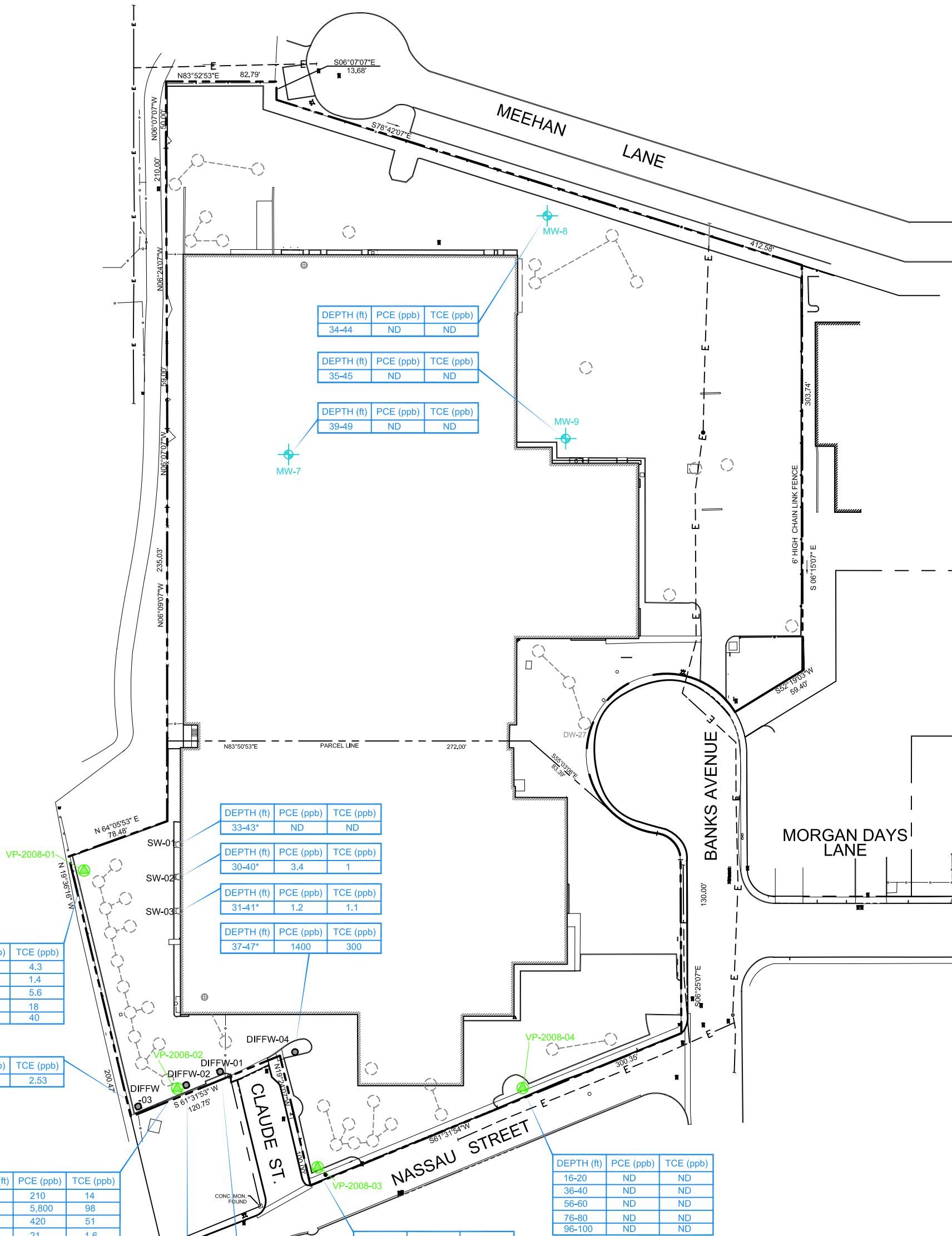
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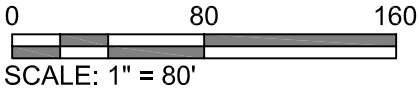


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- LEGEND**
- MW-8 DEEP (BELOW CLAY) MONITORING WELL LOCATION
 - SUBSURFACE DRAINAGE STRUCTURE
 - DIFFUSION WELL
 - SUPPLY WELL
 - PIPE
 - DRAIN
 - VERTICAL PROFILE GROUNDWATER SAMPLE LOCATIONS
 - * APPROXIMATE SCREEN DEPTH



DEEP GROUNDWATER SAMPLING LOCATIONS

SCALE: 1"=80'



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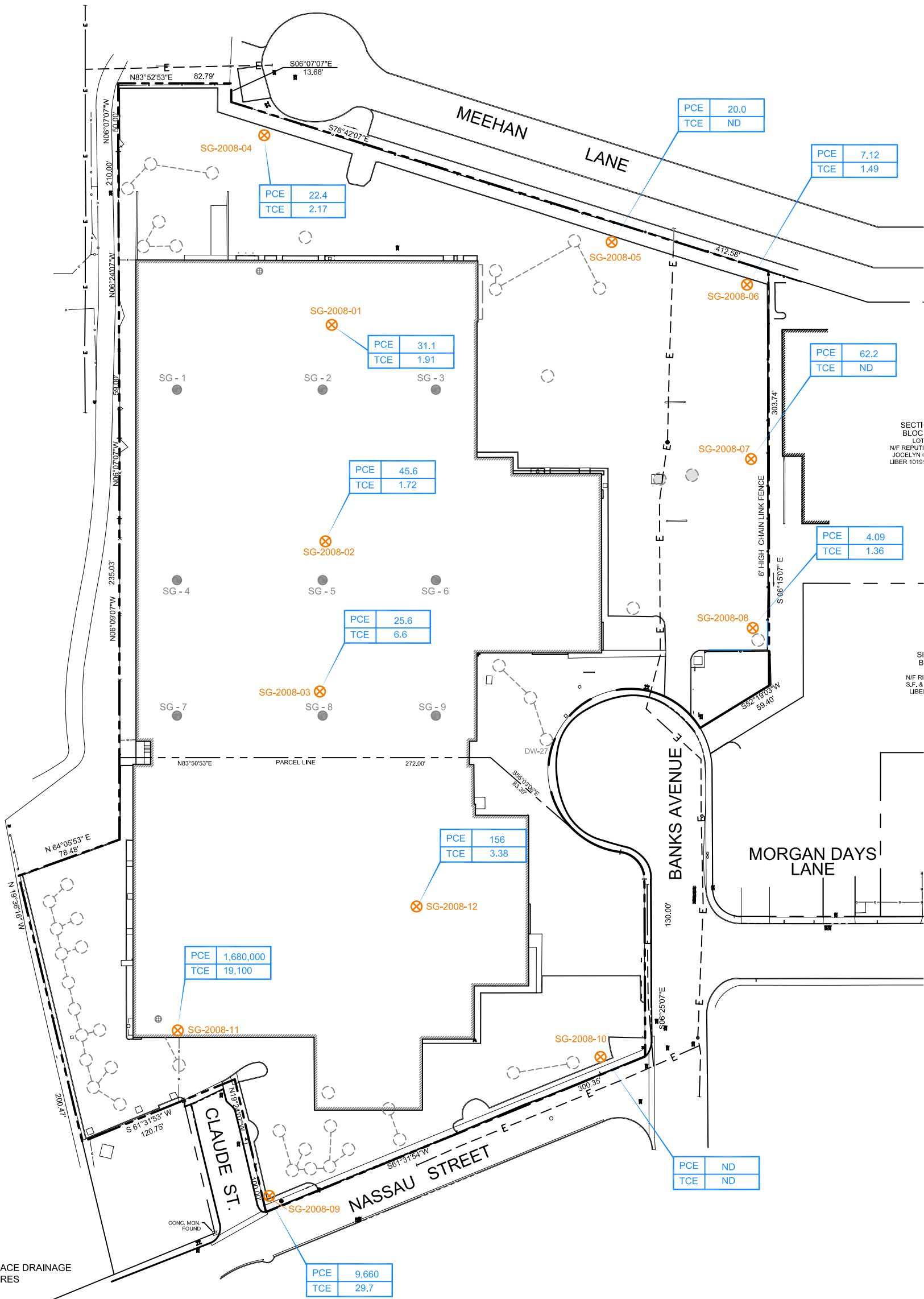
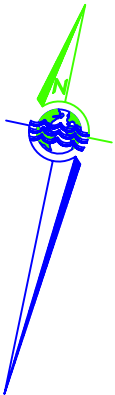
DEEP GROUNDWATER SAMPLE LOCATIONS
80-100 BANKS AVENUE
ROCKVILLE CENTRE, NY

FIGURE NO

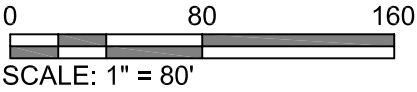
8

SHEET

OF



SOIL GAS SAMPLE LOCATIONS
SCALE: 1"=80'



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BOHEMIA • NY • 11716-2618
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SOIL GAS SAMPLING
LOCATIONS

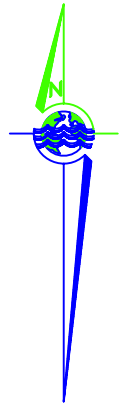
80-100 BANKS AVENUE
ROCKVILLE CENTRE, NY

FIGURE NO

9

SHEET

OF



AERIAL MAP
SCALE: 1"=500'

AERIAL MAP PROVIDED BY:
GOOGLE MAPS

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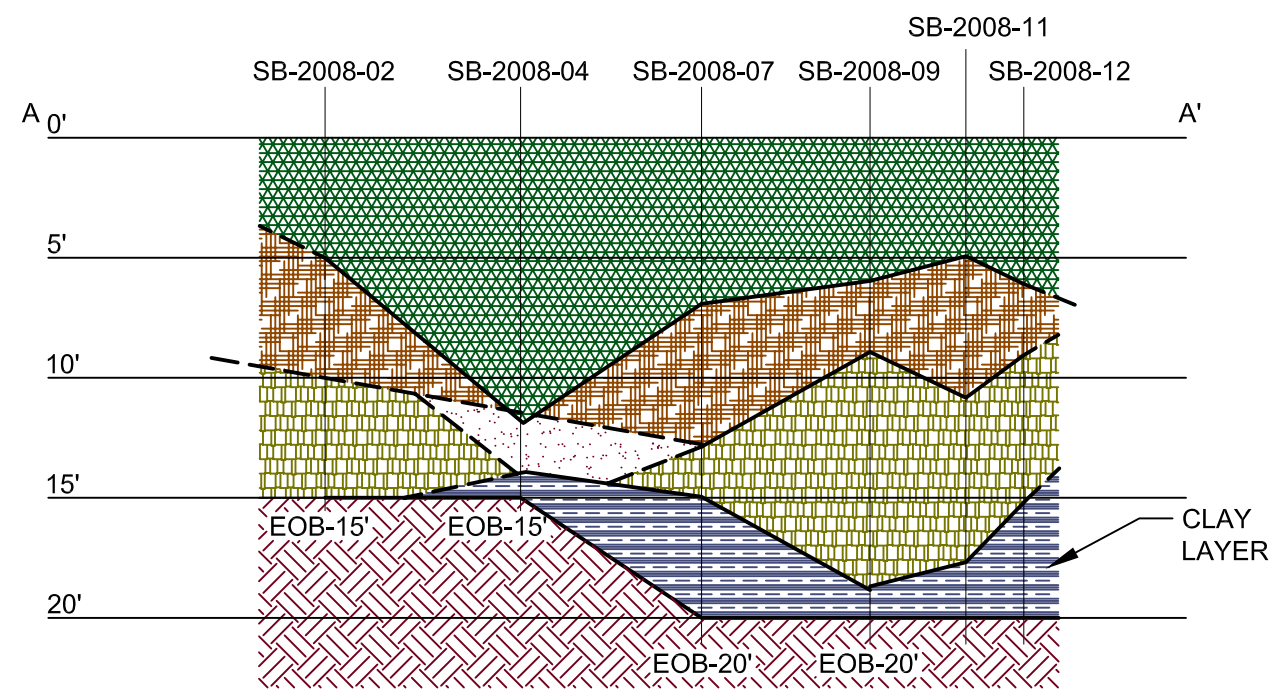
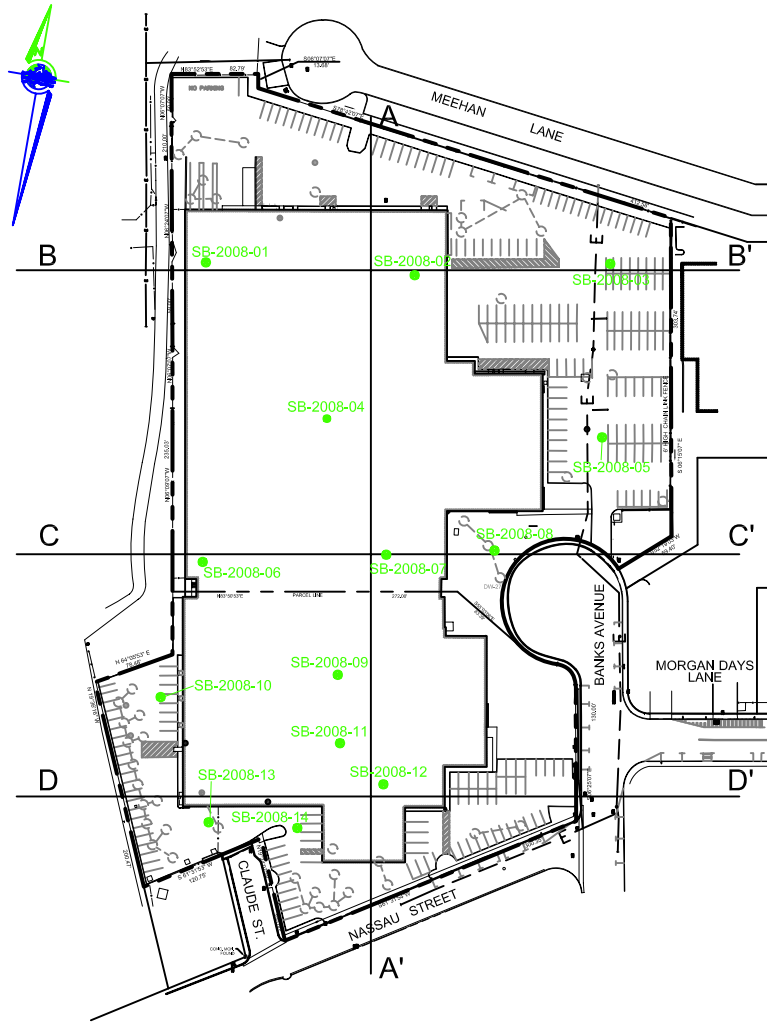
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SURROUNDING
LAND USE

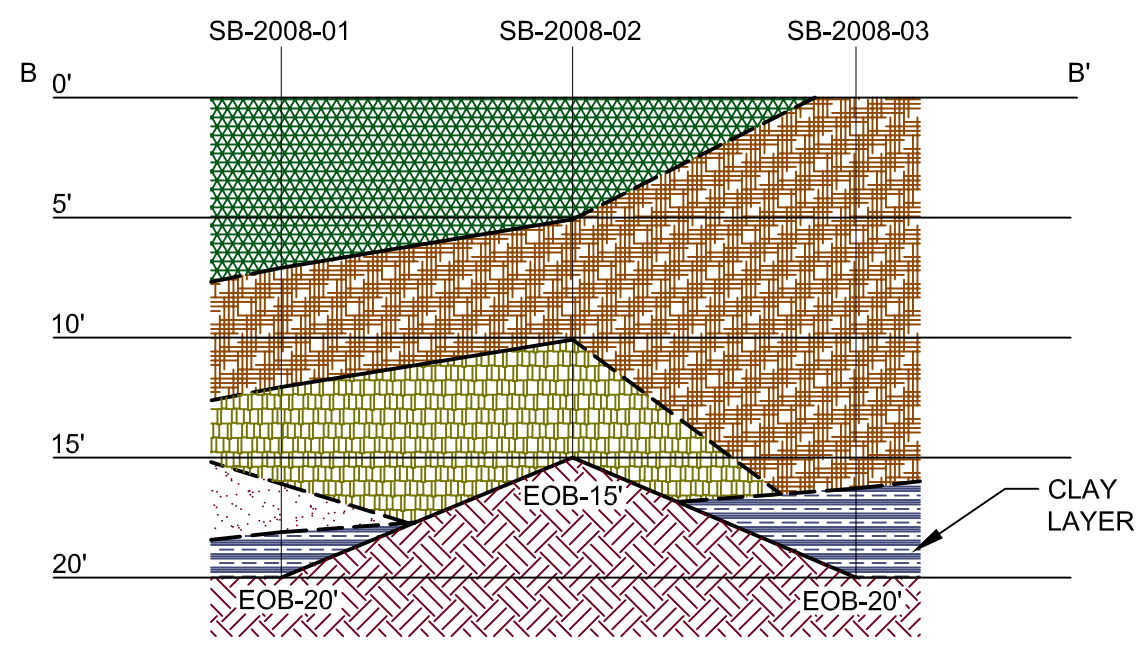
80-100 BANKS AVENUE
ROCKVILLE CENTRE, NY

FIGURE NO
10

SHEET
OF



CROSS SECTION A-A'
SCALE = 1:8



CROSS SECTION B-B'
SCALE = 1:8

LEGEND

- GRAVEL/SAND/SILT MIXTURE
- SILTY SAND
- POORLY GRADED SAND
- WELL GRADED SAND
- CLAY
- NOT SAMPLED
- EOB END OF BORING

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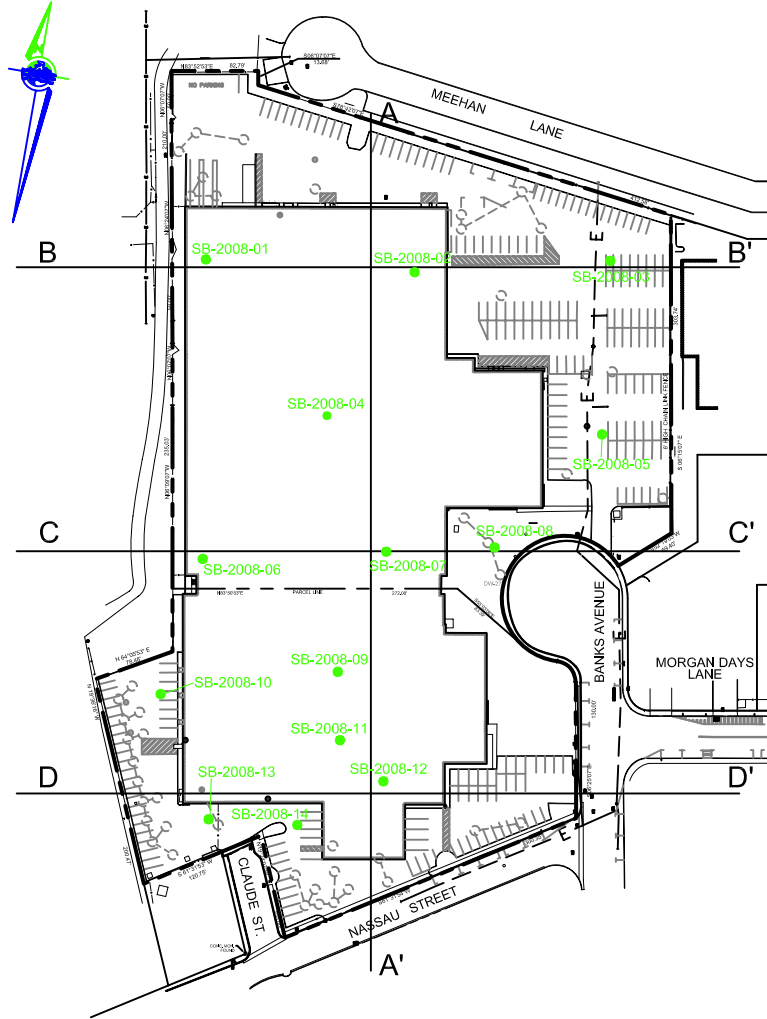
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| REVISION | DATE | INITIALS | COMMENTS |
|---------------------|---------|--------------|----------|
| DRAWING INFORMATION | | | |
| PROJECT: | AVB0801 | APPROVED BY: | PWG |
| DESIGNED BY: | TM | DATE: | 9/14/09 |
| DRAWN BY: | LLG | SCALE: | AS SHOWN |
| SHEET TITLE | | | |

GEOLOGIC
CROSS SECTIONS

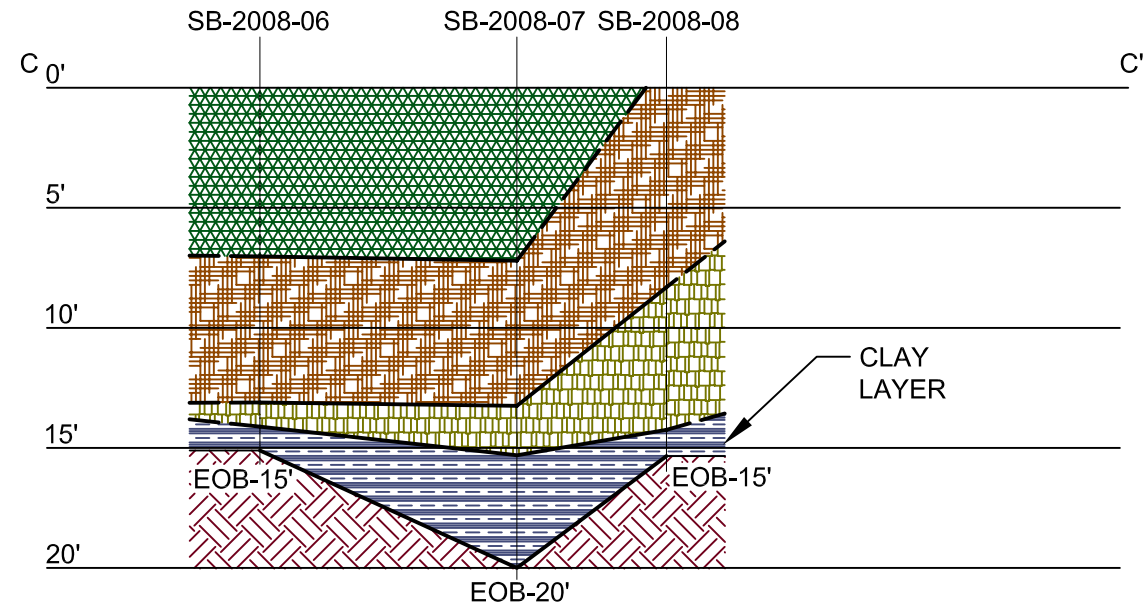
80-100 BANKS AVENUE
ROCKVILLE CENTER, NY

J:\Projects A-D\AVB0801\Reports-work\plans-field notes-photos\Suppl R1 Report\Draft SRICAD\dwgs as of 9-17-09\CROSS SECTIONS.dwg (fig 11) Oct 26, 2009 9:19am By: guzman

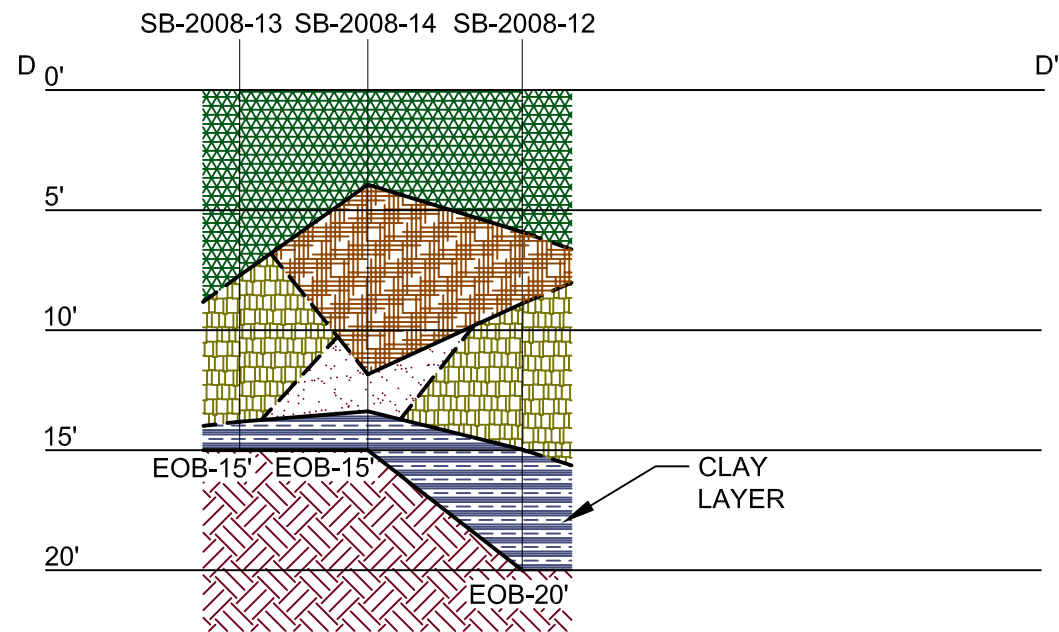


LEGEND

- GRAVEL/SAND/SILT MIXTURE
- SILTY SAND
- POORLY GRADED SAND
- WELL GRADED SAND
- CLAY
- NOT SAMPLED
- EOB END OF BORING



CROSS SECTION C-C'
SCALE = 1:8



CROSS SECTION D-D'
SCALE = 1:8

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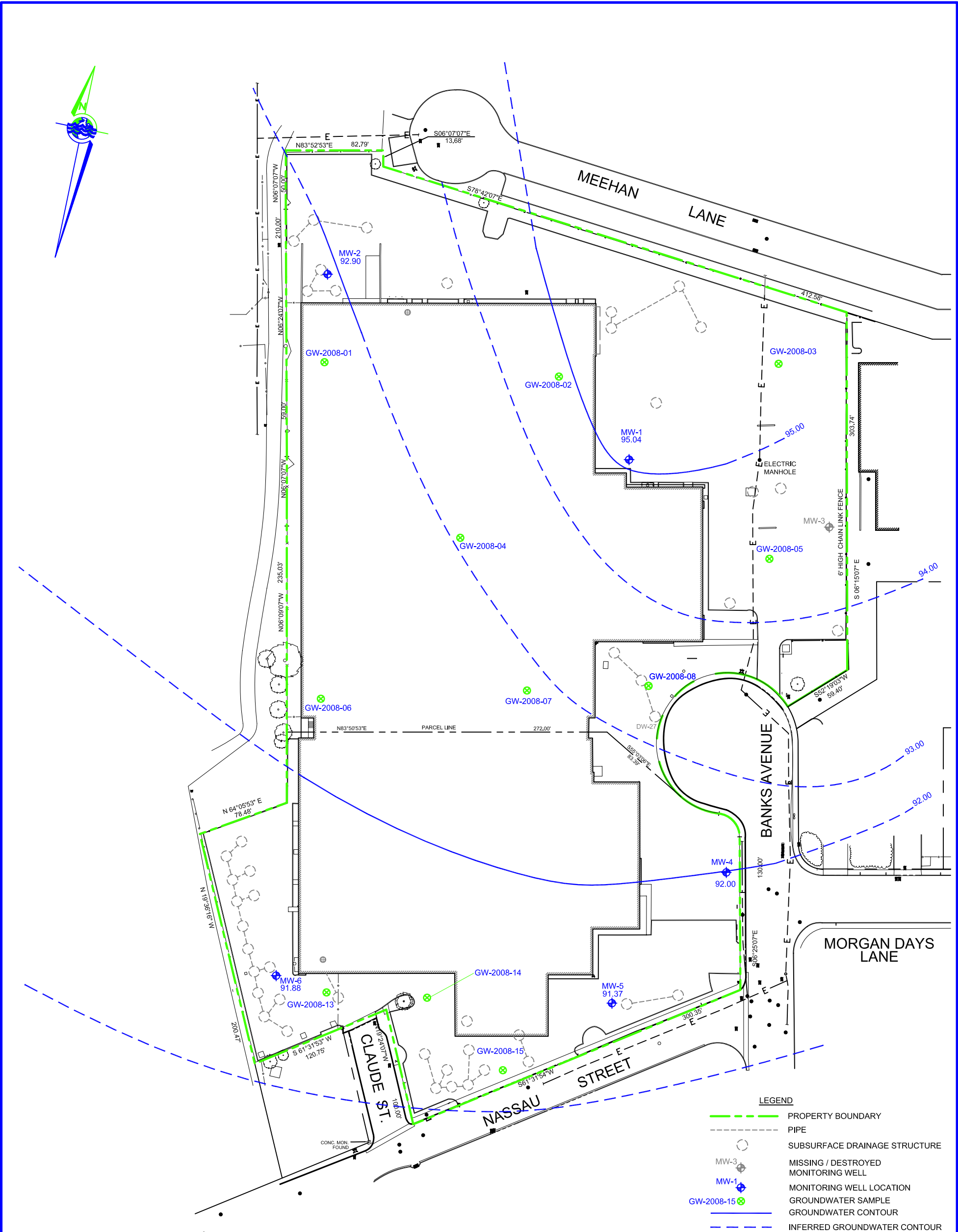
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| SHEET TITLE | | | |

GEOLOGIC
CROSS SECTIONS

80-100 BANKS AVENUE
ROCKVILLE CENTER, NY

FIGURE NO
12

SHEET
OF



SHALLOW GROUNDWATER CONTOUR MAP

SCALE: 1"=80'

SCALE: 1" = 80'

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630 JOHNSON AVE. • SUITE 7
BOHEMIA • NY • 11716-2618
PH: (631)589-6353 • FX: (631)589-8705
E-MAIL: INFO@PWGROSSER.COM

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DRAWN BY: LLG

APPROVED BY: PWG

DATE: 9/15/08

SCALE: AS SHOWN

SHEET TITLE

SHALLOW GROUNDWATER
CONTOUR MAP
(10/3/08)

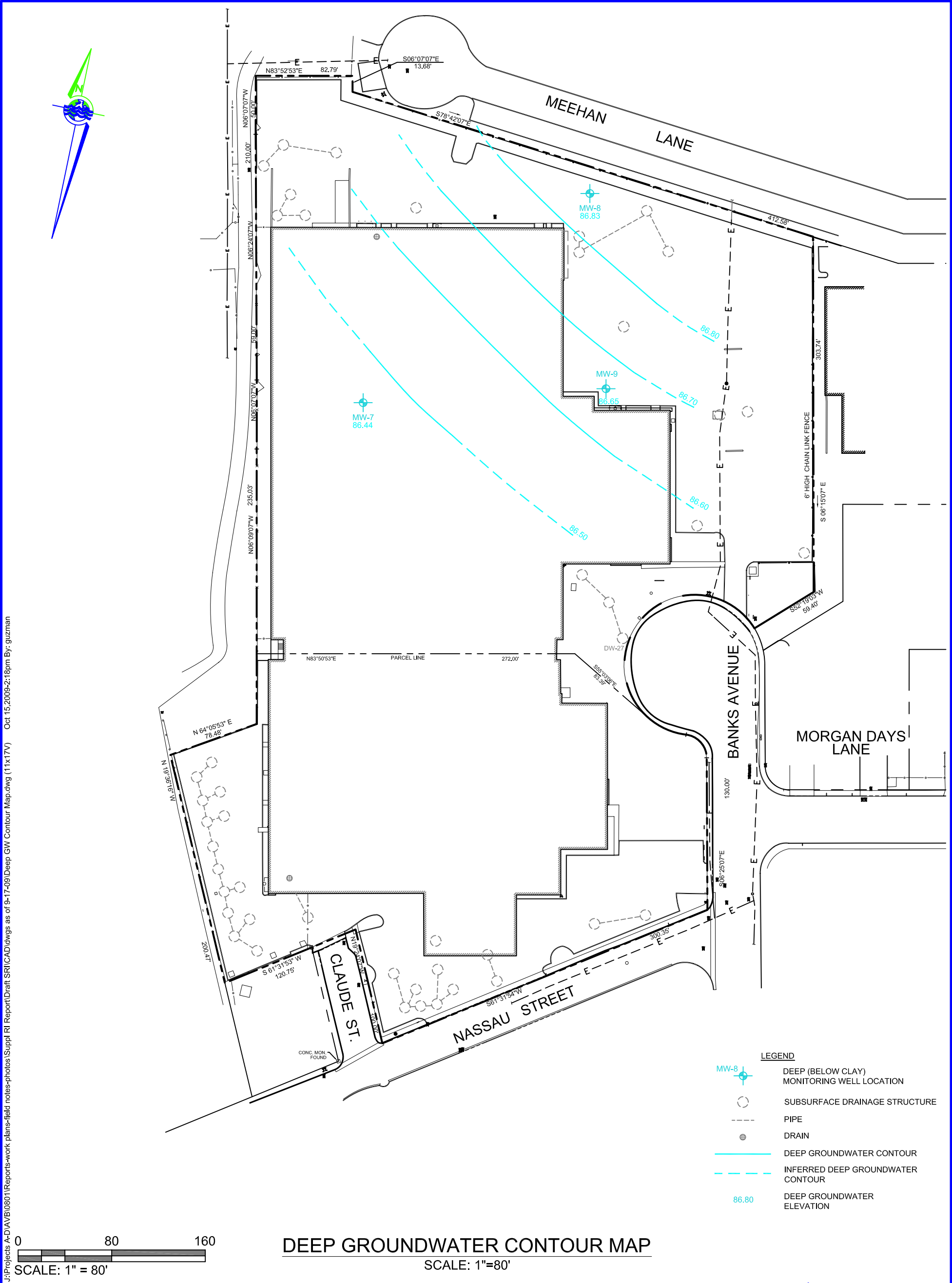
80-100 BANKS AVENUE
ROCKVILLE CENTRE, NY

FIGURE NO

13

SHEET

OF



J:\Projects A-DAVB\0801\Reports-work plans-field notes-photos\Suppl RI Report\Draft SR\CAD\dwgs as of 8-17-09\Deep GW Contour Map.dwg (11x17V) Oct 15, 2009-2:18pm By: guzman

DEEP GROUNDWATER CONTOUR MAP
SCALE: 1"=80'

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BOHEMIA • NY • 11716-2618
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PROJECT: AVB0801

DESIGNED BY: KEA

DRAWN BY: LLG

APPROVED BY: PWG

DATE: 10/15/09

SCALE: AS SHOWN

SHEET TITLE

DEEP GROUNDWATER
CONTOUR MAP
AUGUST 20, 2009
80-100 BANKS AVENUE
ROCKVILLE CENTRE, NY

FIGURE NO

14

SHEET

OF

TABLES

Table 1
Subsurface Drainage Structure Construction Details
Former Darby Drugs Distribution Center

| Structure ID | Alternate ID ⁽¹⁾ | Finished to Grade | Depth to Buried Cover (feet) | Depth to Bottom from Buried Cover (feet) | Total Depth to Bottom from Grade (feet) | Inside Diameter of Structure (feet) | Liquids Present ⁽²⁾ (feet) | Solid Bottom | PID Response ⁽³⁾ (ppm) |
|--------------|-----------------------------|-------------------|------------------------------|--|---|-------------------------------------|---------------------------------------|--------------|-----------------------------------|
| DW-01 | | No | 2.5 | 4.75 | 7.25 | 8 | 3 | No | 0.0 |
| DW-02 | | Yes | - | - | 5.25 | 8 | 3 | No | 0.0 |
| DW-03 | | No | 3 | 5.25 | 8.75 | 8 | 4 | No | 0.0 |
| DW-04 | | No | 1.75 | 5.5 | 7.25 | 8 | 3 | No | 0.0 |
| DW-05 | | No | 2.75 | 4 | 6.75 | 10 | 2.25 | No | 0.0 |
| DW-06 | | No | 2.25 | 4.5 | 6.75 | 8 | 2.5 | No | 0.0 |
| DW-07 | SD-3 | Yes | - | - | 6.75 | 8 ⁽⁴⁾ | 3 | No | 0.0 |
| DW-08 | SD-2 | Yes | - | - | 5.25 | 8 ⁽⁴⁾ | 1.75 | No | 0.0 |
| DW-09 | | No | 1.75 | 5 | 6.75 | 10 | 2.25 | No | 0.0 |
| DW-10 | | No | 1.5 | 4.75 | 6.25 | 10 | 1.75 | No | 0.0 |
| DW-11 | | No | 2.25 | 4.5 | 6.75 | 10 | 2.5 | No | 0.0 |
| DW-12 | | No | 2.25 | 5 | 7.25 | 10 | 2.75 | No | 0.0 |
| DW-13 | | No | 3.25 | 4 | 7.25 | 10 | 3 | No | 0.0 |
| DW-14 | | Yes | - | - | 6 | 8 ⁽⁴⁾ | 2.5 | No | 0.0 |
| DW-15 | | No | 3.25 | 3.75 | 7 | 10 | 3.25 | No | 0.0 |
| DW-16 | | No | 2.5 | 3 | 5.5 | 8 | 1 | No | 0.0 |
| DW-17 | | No | 2 | 3.5 | 5.5 | 10 | 1.25 | No | 0.0 |
| DW-18 | | Yes | - | - | 4 | 8 | 0.5 | No | 0.0 |
| DW-19 | | No | 1.5 | 3 | 4.5 | 8 | 0.5 | No | 0.0 |
| DW-20 | | Yes | - | - | 4.5 | 8 ⁽⁴⁾ | 0.75 | No | 0.0 |
| DW-21 | SD-1 | Yes | - | - | 5 | 4 | 1 | No | NS |
| DW-22 | | No | 3.5 | 1.75 | 5.25 | 8 | 0.75 | No | 0.0 |
| DW-23 | | Yes | - | - | 3 | 8 | 0.5 | No | 0.0 |
| DW-24 | | No | 2 | 4 | 6 | 8 | 1.25 | No | 0.0 |
| DW-25 | | No | 2.5 | 3.25 | 5.75 | 8 | 1.75 | No | 0.0 |
| DW-26 | | Yes | - | - | 4.25 | 10 | 1.75 | No | 0.0 |
| DW-27 | | Yes | - | - | 12.5 | 8 ⁽⁴⁾ | 9.5 | No | 0.0 |
| DW-28 | | No | 3 | 9 | 12 | 8 ⁽⁴⁾ | 7 | No | 0.4 |
| DW-29 | | Yes | - | - | 10 | 8 ⁽⁴⁾ | 5 | No | 0.0 |
| DW-30 | | Yes | - | - | 8.5 | 8 ⁽⁴⁾ | 2 | No | 0.0 |
| DW-31 | | Yes | - | - | 8 | 8 ⁽⁴⁾ | 3 | No | 0.0 |
| DW-32 | SD-7 | Yes | - | - | 10 | 8 ⁽⁴⁾ | 2 | No | NS |
| DW-33 | | Yes | - | - | 7 | 10 | 0.5 | No | 0.0 |
| DW-34 | | Yes | - | - | 5.5 | 8 ⁽⁴⁾ | 1 | No | 1.0 |
| DW-35 | SD-5 | Yes | - | - | 4 | 8 ⁽⁴⁾ | 0.5 | No | NS |
| DW-36 | SD-6 | Yes | - | - | 3 | 8 ⁽⁴⁾ | 0 | No | NS |
| DW-37 | | Yes | - | - | 11 | 8 ⁽⁴⁾ | 5.5 | No | 0.0 |
| DW-38 | | Yes | - | - | 7 | 8 ⁽⁴⁾ | 2 | No | 1.0 |
| DW-39 | | Yes | - | - | 8.5 | 10 | 0.5 | No | 0.0 |
| DW-40 | | Yes | - | - | 6 | 8 | 0 | No | 0.0 |
| DW-41 | | Yes | - | - | 9 | 8 | 0 | No | 0.0 |
| DW-42 | | Yes | - | - | 5 | 2 | 0 | Yes | 0.0 |
| DW-43 | SD-4 | Yes | - | - | 6 | 8 ⁽⁴⁾ | 1 | No | NS |
| LP-01 | | No | 3 | 4.75 | 7.75 | 10 | 1.75 | No | 0.0 |

Notes:

⁽¹⁾Structure ID during implementation of 2004 Remedial Investigation

⁽²⁾Approximate volume of liquids present within structure during sample collection (9/8/08 & 9/10/08)

⁽³⁾Highest PID response recorded during sample collection (9/8/08 & 9/10/08)

⁽⁴⁾Estimated diameter

Table 2
Monitoring/Supply/Diffusion Well Elevation and Construction Details
Former Darby Drugs Distribution Center

| Well Designation | Well Use | Well Diameter (inches) | Total Depth (feet) | Casing Elevation (feet) | 10/3/2008 DTW (feet) | 10/3/2008 GW Elevation (feet) | 8/20/2009 DTW (feet) | 8/20/2009 GW Elevation (feet) |
|------------------|--------------------------|---------------------------|--------------------------|-------------------------------|----------------------------|-------------------------------------|----------------------------|-------------------------------------|
| MW-1 | Monitoing/Observation | 2 | 18.06 | 103.56 | 8.52 | 95.04 | ** | ** |
| MW-2 | Monitoing/Observation | 2 | 18.04 | 99.47 | 6.57 | 92.90 | ** | ** |
| MW-3 | Monitoing/Observation | 2 | NA | 102.97 | ** | ** | ** | ** |
| MW-4 | Monitoing/Observation | 2 | 19.39 | 99.08 | 7.08 | 92.00 | 7.24 | 91.84 |
| MW-5 | Monitoing/Observation | 2 | 19.89 | 97.76 | 6.39 | 91.37 | 6.79 | 90.97 |
| MW-6 | Monitoing/Observation | 2 | 19.40 | 97.39 | 5.51 | 91.88 | 5.93 | 91.46 |
| MW-7 | Monitoing/Observation | 2 | 50.92 | 96.83 | ** | ** | 10.39 | 86.44 |
| MW-8 | Monitoing/Observation | 2 | 44.24 | 96.85 | ** | ** | 10.02 | 86.83 |
| MW-9 | Monitoing/Observation | 2 | 46.35 | 96.79 | ** | ** | 10.14 | 86.65 |
| GW-2008-01 | Temporary Sampling Point | 0.5 | 15.00* | NA | 11.00* | NA | NA | NA |
| GW-2008-02 | Temporary Sampling Point | 0.5 | 14.00* | NA | 11.00* | NA | NA | NA |
| GW-2008-03 | Temporary Sampling Point | 0.5 | 16.00* | NA | 12.00* | NA | NA | NA |
| GW-2008-04 | Temporary Sampling Point | 0.5 | 15.00* | NA | 11.00* | NA | NA | NA |
| GW-2008-05 | Temporary Sampling Point | 0.5 | 15.00* | NA | 11.00* | NA | NA | NA |
| GW-2008-06 | Temporary Sampling Point | 0.5 | 15.00* | NA | 11.00* | NA | NA | NA |
| GW-2008-07 | Temporary Sampling Point | 0.5 | 19.00* | NA | 11.00* | NA | NA | NA |
| GW-2008-08 | Temporary Sampling Point | 0.5 | 14.00* | NA | 12.00* | NA | NA | NA |
| GW-2008-13 | Temporary Sampling Point | 0.5 | 13.00* | NA | 9.00* | NA | NA | NA |
| GW-2008-14 | Temporary Sampling Point | 0.5 | 13.00* | NA | 9.00* | NA | NA | NA |
| GW-2008-15 | Temporary Sampling Point | 0.5 | 13.00* | NA | 9.00* | NA | NA | NA |
| SW-01 | Supply | 8 | 43.30 | NA | 3.80 | NA | 3.85 | NA |
| SW-02 | Supply | 8 | 40.04 | NA | 4.20 | NA | NA | NA |
| SW-03 | Supply | 8 | 41.64 | NA | 3.74 | NA | NA | NA |
| DIFFW-01 | Diffusion | 4 | 19.82 | NA | 6.78 | NA | 6.81 | NA |
| DIFFW-02 | Diffusion | 4 | 25.40 | NA | 5.73 | NA | NA | NA |
| DIFFW-03 | Diffusion | 4 | 25.11 | NA | 6.34 | NA | NA | NA |
| DIFFW-04 | Diffusion | 4 | 47.00 | NA | 7.40 | NA | NA | NA |

Notes:

NA - Not available

* Approximate measurement

** Well missing/destroyed/not installed

Table 3
Soil Sample Analytical Data Summary
Volatile Organic Compounds
Former Darby Drugs Distribution Center

| SAMPLE ID LAB SAMPLE ID SAMPLING DATE SAMPLE DEPTH (ft.) | Unrestricted SCO¹ | Restricted Residential SCO² | PWG-SB-2008-01 L0813196-20 9/4/2008 5-10 | PWG-SB-2008-02 L0813196-08 9/3/2008 5-10 | PWG-SB-2008-03 L0813196-03 9/3/2008 10-15 | PWG-SB-2008-04 L0813196-10 9/3/2008 5-10 | PWG-SB-2008-05 L0813196-01 9/3/2008 5-10 |
|---|----------------------|-----------------------------------|---|---|--|---|---|
| Volatile Organics by EPA 8260B | | | | | | | |
| Tetrachloroethene | 1,300 | 19,000 | 3.1 U | 2.6 U | 3.2 U | 2.6 U | 3 U |
| Trichloroethene | 470 | 21,000 | 3.1 U | 2.6 U | 3.2 U | 2.6 U | 3 U |
| cis-1,2-Dichloroethene | 250 | 100,000 | 3.1 U | 2.6 U | 3.2 U | 2.6 U | 3 U |
| trans-1,2-Dichloroethene | 190 | 100,000 | 4.6 U | 3.8 U | 4.7 U | 3.8 U | 4.5 U |
| 1,1-Dichloroethene | 330 | 100,000 | 3.1 U | 2.6 U | 3.2 U | 2.6 U | 3 U |
| Vinyl chloride | 20 | 900 | 6.2 U | 5.1 U | 6.3 U | 5.1 U | 6 U |

| | | | | | | | |
|-----------------------------|--------|---------|-------|-------|-------|-------|-------|
| 1,1,1,2-Tetrachloroethane | NS | NS | 3.1 U | 2.6 U | 3.2 U | 2.6 U | 3 U |
| 1,1,1-Trichloroethane | 680 | 100,000 | 3.1 U | 2.6 U | 3.2 U | 2.6 U | 3 U |
| 1,1,2,2-Tetrachloroethane | NS | NS | 3.1 U | 2.6 U | 3.2 U | 2.6 U | 3 U |
| 1,1,2-Trichloroethane | NS | NS | 4.6 U | 3.8 U | 4.7 U | 3.8 U | 4.5 U |
| 1,1-Dichloroethane | 270 | 26,000 | 4.6 U | 3.8 U | 4.7 U | 3.8 U | 4.5 U |
| 1,1-Dichloropropene | NS | NS | 15 U | 13 U | 16 U | 13 U | 15 U |
| 1,2,3-Trichlorobenzene | NS | NS | 15 U | 13 U | 16 U | 13 U | 15 U |
| 1,2,3-Trichloropropane | NS | NS | 31 U | 26 U | 32 U | 26 U | 30 U |
| 1,2,4,5-Tetramethylbenzene | NS | NS | 12 U | 10 U | 13 U | 10 U | 12 U |
| 1,2,4-Trichlorobenzene | NS | NS | 15 U | 13 U | 16 U | 13 U | 15 U |
| 1,2,4-Trimethylbenzene | 3,600 | 52,000 | 15 U | 13 U | 16 U | 13 U | 15 U |
| 1,2-Dibromo-3-chloropropane | NS | NS | 15 U | 13 U | 16 U | 13 U | 15 U |
| 1,2-Dibromoethane | NS | NS | 12 U | 10 U | 13 U | 10 U | 12 U |
| 1,2-Dichlorobenzene | 1,100 | 100,000 | 15 U | 13 U | 16 U | 13 U | 15 U |
| 1,2-Dichloroethane | 20 | 3,100 | 3.1 U | 2.6 U | 3.2 U | 2.6 U | 3 U |
| 1,2-Dichloropropane | NS | NS | 11 U | 8.9 U | 11 U | 8.9 U | 10 U |
| 1,3,5-Trimethylbenzene | 8,400 | 52,000 | 15 U | 13 U | 16 U | 13 U | 15 U |
| 1,3-Dichlorobenzene | 2,400 | 49,000 | 15 U | 13 U | 16 U | 13 U | 15 U |
| 1,3-Dichloropropane | NS | NS | 15 U | 13 U | 16 U | 13 U | 15 U |
| 1,4-Dichlorobenzene | 1,800 | 13,000 | 15 U | 13 U | 16 U | 13 U | 15 U |
| 1,4-Diethylbenzene | NS | NS | 12 U | 10 U | 13 U | 10 U | 12 U |
| 2,2-Dichloropropane | NS | NS | 15 U | 13 U | 16 U | 13 U | 15 U |
| 2-Butanone | 120 | 100,000 | 31 U | 26 U | 32 U | 26 U | 30 U |
| 2-Hexanone | NS | NS | 31 U | 26 U | 32 U | 26 U | 30 U |
| 4-Ethyltoluene | NS | NS | 12 U | 10 U | 13 U | 10 U | 12 U |
| 4-Methyl-2-pentanone | NS | NS | 31 U | 26 U | 32 U | 26 U | 30 U |
| Acetone | 50 | 100,000 | 31 U | 26 U | 32 U | 26 U | 30 U |
| Acrylonitrile | NS | NS | 31 U | 26 U | 32 U | 26 U | 30 U |
| Benzene | 60 | 4,800 | 3.1 U | 2.6 U | 3.2 U | 2.6 U | 3 U |
| Bromobenzene | NS | NS | 15 U | 13 U | 16 U | 13 U | 15 U |
| Bromochloromethane | NS | NS | 15 U | 13 U | 16 U | 13 U | 15 U |
| Bromodichloromethane | NS | NS | 3.1 U | 2.6 U | 3.2 U | 2.6 U | 3 U |
| Bromoform | NS | NS | 12 U | 10 U | 13 U | 10 U | 12 U |
| Bromomethane | NS | NS | 6.2 U | 5.1 U | 6.3 U | 5.1 U | 6 U |
| Carbon disulfide | NS | NS | 31 U | 26 U | 32 U | 26 U | 30 U |
| Carbon tetrachloride | 760 | 2,400 | 3.1 U | 2.6 U | 3.2 U | 2.6 U | 3 U |
| Chlorobenzene | 1,100 | 100,000 | 3.1 U | 2.6 U | 3.2 U | 2.6 U | 3 U |
| Chloroethane | NS | NS | 6.2 U | 5.1 U | 6.3 U | 5.1 U | 6 U |
| Chloroform | 370 | 49,000 | 4.6 U | 3.8 U | 4.7 U | 3.8 U | 4.5 U |
| Chloromethane | NS | NS | 15 U | 13 U | 16 U | 13 U | 15 U |
| cis-1,3-Dichloropropene | NS | NS | 3.1 U | 2.6 U | 3.2 U | 2.6 U | 3 U |
| Dibromochloromethane | NS | NS | 3.1 U | 2.6 U | 3.2 U | 2.6 U | 3 U |
| Dibromomethane | NS | NS | 31 U | 26 U | 32 U | 26 U | 30 U |
| Dichlorodifluoromethane | NS | NS | 31 U | 26 U | 32 U | 26 U | 30 U |
| Ethylbenzene | 1,000 | 41,000 | 3.1 U | 2.6 U | 3.2 U | 2.6 U | 3 U |
| Hexachlorobutadiene | NS | NS | 15 U | 13 U | 16 U | 13 U | 15 U |
| Isopropylbenzene | NS | NS | 3.1 U | 2.6 U | 3.2 U | 2.6 U | 3 U |
| Methyl tert butyl ether | 930 | 100,000 | 6.2 U | 5.1 U | 6.3 U | 5.1 U | 6 U |
| Methylene chloride | 50 | 100,000 | 31 U | 26 U | 32 U | 26 U | 30 U |
| Naphthalene | NS | NS | 3.1 U | 2.6 U | 3.2 U | 2.6 U | 3 U |
| n-Butylbenzene | 12,000 | NS | 3.1 U | 2.6 U | 3.2 U | 2.6 U | 3 U |
| n-Propylbenzene | 3,900 | 100,000 | 15 U | 13 U | 16 U | 13 U | 15 U |
| o-Chlorotoluene | NS | NS | 15 U | 13 U | 16 U | 13 U | 15 U |
| o-Xylene | 260 | 100,000 | 6.2 U | 5.1 U | 6.3 U | 5.1 U | 6 U |
| p/m-Xylene | 260 | 100,000 | 15 U | 13 U | 16 U | 13 U | 15 U |
| p-Chlorotoluene | NS | NS | 3.1 U | 2.6 U | 3.2 U | 2.6 U | 3 U |
| p-Isopropyltoluene | NS | NS | 6.2 U | 5.1 U | 6.3 U | 5.1 U | 6 U |
| sec-Butylbenzene | 11,000 | 100,000 | 3.1 U | 2.6 U | 3.2 U | 2.6 U | 3 U |
| Styrene | NS | NS | 6.2 U | 5.1 U | 6.3 U | 5.1 U | 6 U |
| tert-Butylbenzene | 5,900 | NS | 15 U | 13 U | 16 U | 13 U | 15 U |
| Toluene | 700 | 100,000 | 4.6 U | 3.8 U | 4.7 U | 3.8 U | 4.5 U |
| trans-1,3-Dichloropropene | NS | 100,000 | 3.1 U | 2.6 U | 3.2 U | 2.6 U | 3 U |
| Trichlorofluoromethane | NS | NS | 15 U | 13 U | 16 U | 13 U | 15 U |
| Vinyl acetate | NS | NS | 31 U | 26 U | 32 U | 26 U | 30 U |

Notes:

All concentrations are µg/kg (ppb)

¹Unrestricted Use Soil Cleanup Objectives (SCO) 6 NYCRR Part 375, Environmental Remediation Programs, December 2006

²Restricted-Residential Soil Cleanup Objectives (SCO) 6 NYCRR Part 375, Environmental Remediation Programs, December 2006

U - Analyte not detected above the laboratory MDL

J - Estimated value

NS - No standard established

Bold text indicates compounds above the laboratory MDL

Green highlighting indicates exceedance of Unrestricted Use SCO

Yellow highlighting indicates exceedance of Restricted Residential SCO

Table 3
Soil Sample Analytical Data Summary
Volatile Organic Compounds
Former Darby Drugs Distribution Center

| SAMPLE ID LAB SAMPLE ID SAMPLING DATE SAMPLE DEPTH (ft.) | Unrestricted SCO ¹ | Restricted Residential SCO ² | PWG-SB-2008-06 L0813196-13 9/3/2008 5-10 | PWG-SB-2008-07 L0813196-18 9/4/2008 10-15 | PWG-SB-2008-08 L0813196-05 9/3/2008 5-10 | PWG-SB-2008-09 L0813196-32 9/5/2008 5-10 | PWG-SB-2008-09 L0813196-33 9/5/2008 15-20 |
|---|----------------------------------|---|---|--|---|---|--|
| Volatile Organics by EPA 8260B | | | | | | | |
| Tetrachloroethene | 1,300 | 19,000 | 3.1 U | 3 U | 2.9 U | 2.7 U | 3 U |
| Trichloroethene | 470 | 21,000 | 3.1 U | 3 U | 2.9 U | 2.7 U | 3 U |
| cis-1,2-Dichloroethene | 250 | 100,000 | 3.1 U | 3 U | 2.9 U | 2.7 U | 3 U |
| trans-1,2-Dichloroethene | 190 | 100,000 | 4.6 U | 4.5 U | 4.4 U | 4.1 U | 4.5 U |
| 1,1-Dichloroethene | 330 | 100,000 | 3.1 U | 3 U | 2.9 U | 2.7 U | 3 U |
| Vinyl chloride | 20 | 900 | 6.2 U | 6 U | 5.8 U | 5.4 U | 6 U |

| | | | | | | | |
|-----------------------------|--------|---------|-------|-------|-------|-------|-------|
| 1,1,1,2-Tetrachloroethane | NS | NS | 3.1 U | 3 U | 2.9 U | 2.7 U | 3 U |
| 1,1,1-Trichloroethane | 680 | 100,000 | 3.1 U | 3 U | 2.9 U | 2.7 U | 3 U |
| 1,1,2,2-Tetrachloroethane | NS | NS | 3.1 U | 3 U | 2.9 U | 2.7 U | 3 U |
| 1,1,2-Trichloroethane | NS | NS | 4.6 U | 4.5 U | 4.4 U | 4.1 U | 4.5 U |
| 1,1-Dichloroethane | 270 | 26,000 | 4.6 U | 4.5 U | 4.4 U | 4.1 U | 4.5 U |
| 1,1-Dichloropropene | NS | NS | 15 U | 15 U | 14 U | 14 U | 15 U |
| 1,2,3-Trichlorobenzene | NS | NS | 15 U | 15 U | 14 U | 14 U | 15 U |
| 1,2,3-Trichloropropane | NS | NS | 31 U | 30 U | 29 U | 27 U | 30 U |
| 1,2,4,5-Tetramethylbenzene | NS | NS | 12 U | 12 U | 12 U | 11 U | 12 U |
| 1,2,4-Trichlorobenzene | NS | NS | 15 U | 15 U | 14 U | 14 U | 15 U |
| 1,2,4-Trimethylbenzene | 3,600 | 52,000 | 15 U | 15 U | 14 U | 14 U | 15 U |
| 1,2-Dibromo-3-chloropropane | NS | NS | 15 U | 15 U | 14 U | 14 U | 15 U |
| 1,2-Dibromoethane | NS | NS | 12 U | 12 U | 12 U | 11 U | 12 U |
| 1,2-Dichlorobenzene | 1,100 | 100,000 | 15 U | 15 U | 14 U | 14 U | 15 U |
| 1,2-Dichloroethane | 20 | 3,100 | 3.1 U | 3 U | 2.9 U | 2.7 U | 3 U |
| 1,2-Dichloropropane | NS | NS | 11 U | 10 U | 10 U | 9.5 U | 10 U |
| 1,3,5-Trimethylbenzene | 8,400 | 52,000 | 15 U | 15 U | 14 U | 14 U | 15 U |
| 1,3-Dichlorobenzene | 2,400 | 49,000 | 15 U | 15 U | 14 U | 14 U | 15 U |
| 1,3-Dichloropropane | NS | NS | 15 U | 15 U | 14 U | 14 U | 15 U |
| 1,4-Dichlorobenzene | 1,800 | 13,000 | 15 U | 15 U | 14 U | 14 U | 15 U |
| 1,4-Diethylbenzene | NS | NS | 12 U | 12 U | 12 U | 11 U | 12 U |
| 2,2-Dichloropropane | NS | NS | 15 U | 15 U | 14 U | 14 U | 15 U |
| 2-Butanone | 120 | 100,000 | 31 U | 30 U | 29 U | 27 U | 30 U |
| 2-Hexanone | NS | NS | 31 U | 30 U | 29 U | 27 U | 30 U |
| 4-Ethyltoluene | NS | NS | 12 U | 12 U | 12 U | 11 U | 12 U |
| 4-Methyl-2-pentanone | NS | NS | 31 U | 30 U | 29 U | 27 U | 30 U |
| Acetone | 50 | 100,000 | 31 U | 30 U | 29 U | 27 U | 30 U |
| Acrylonitrile | NS | NS | 31 U | 30 U | 29 U | 27 U | 30 U |
| Benzene | 60 | 4,800 | 3.1 U | 3 U | 2.9 U | 2.7 U | 3 U |
| Bromobenzene | NS | NS | 15 U | 15 U | 14 U | 14 U | 15 U |
| Bromochloromethane | NS | NS | 15 U | 15 U | 14 U | 14 U | 15 U |
| Bromodichloromethane | NS | NS | 3.1 U | 3 U | 2.9 U | 2.7 U | 3 U |
| Bromoform | NS | NS | 12 U | 12 U | 12 U | 11 U | 12 U |
| Bromomethane | NS | NS | 6.2 U | 6 U | 5.8 U | 5.4 U | 6 U |
| Carbon disulfide | NS | NS | 31 U | 30 U | 29 U | 27 U | 30 U |
| Carbon tetrachloride | 760 | 2,400 | 3.1 U | 3 U | 2.9 U | 2.7 U | 3 U |
| Chlorobenzene | 1,100 | 100,000 | 3.1 U | 3 U | 2.9 U | 2.7 U | 3 U |
| Chloroethane | NS | NS | 6.2 U | 6 U | 5.8 U | 5.4 U | 6 U |
| Chloroform | 370 | 49,000 | 4.6 U | 4.5 U | 4.4 U | 4.1 U | 4.5 U |
| Chloromethane | NS | NS | 15 U | 15 U | 14 U | 14 U | 15 U |
| cis-1,3-Dichloropropene | NS | NS | 3.1 U | 3 U | 2.9 U | 2.7 U | 3 U |
| Dibromochloromethane | NS | NS | 3.1 U | 3 U | 2.9 U | 2.7 U | 3 U |
| Dibromomethane | NS | NS | 31 U | 30 U | 29 U | 27 U | 30 U |
| Dichlorodifluoromethane | NS | NS | 31 U | 30 U | 29 U | 27 U | 30 U |
| Ethylbenzene | 1,000 | 41,000 | 3.1 U | 3 U | 2.9 U | 2.7 U | 3 U |
| Hexachlorobutadiene | NS | NS | 15 U | 15 U | 14 U | 14 U | 15 U |
| Isopropylbenzene | NS | NS | 3.1 U | 3 U | 2.9 U | 2.7 U | 3 U |
| Methyl tert butyl ether | 930 | 100,000 | 6.2 U | 6 U | 5.8 U | 5.4 U | 6 U |
| Methylene chloride | 50 | 100,000 | 31 U | 30 U | 29 U | 27 U | 30 U |
| Naphthalene | NS | NS | 3.1 U | 3 U | 2.9 U | 2.7 U | 3 U |
| n-Butylbenzene | 12,000 | NS | 3.1 U | 3 U | 2.9 U | 2.7 U | 3 U |
| n-Propylbenzene | 3,900 | 100,000 | 15 U | 15 U | 14 U | 14 U | 15 U |
| o-Chlorotoluene | NS | NS | 15 U | 15 U | 14 U | 14 U | 15 U |
| o-Xylene | 260 | 100,000 | 6.2 U | 6 U | 5.8 U | 5.4 U | 6 U |
| p/m-Xylene | 260 | 100,000 | 15 U | 15 U | 14 U | 14 U | 15 U |
| p-Chlorotoluene | NS | NS | 3.1 U | 3 U | 2.9 U | 2.7 U | 3 U |
| p-Isopropyltoluene | NS | NS | 6.2 U | 6 U | 5.8 U | 5.4 U | 6 U |
| sec-Butylbenzene | 11,000 | 100,000 | 3.1 U | 3 U | 2.9 U | 2.7 U | 3 U |
| Styrene | NS | NS | 6.2 U | 6 U | 5.8 U | 5.4 U | 6 U |
| tert-Butylbenzene | 5,900 | NS | 15 U | 15 U | 14 U | 14 U | 15 U |
| Toluene | 700 | 100,000 | 4.6 U | 4.5 U | 4.4 U | 4.1 U | 4.5 U |
| trans-1,3-Dichloropropene | NS | 100,000 | 3.1 U | 3 U | 2.9 U | 2.7 U | 3 U |
| Trichlorofluoromethane | NS | NS | 15 U | 15 U | 14 U | 14 U | 15 U |
| Vinyl acetate | NS | NS | 31 U | 30 U | 29 U | 27 U | 30 U |

Notes:

All concentrations are µg/kg (ppb)

¹Unrestricted Use Soil Cleanup Objectives (SCO) 6 NYCRR Part 375, Enviro

²Restricted-Residential Soil Cleanup Objectives (SCO) 6 NYCRR Part 375, I

U - Analyte not detected above the laboratory MDL

J - Estimated value

NS - No standard established

Bold text indicates compounds above the laboratory MDL

Green highlighting indicates exceedance of Unrestricted Use SCO

Yellow highlighting indicates exceedance of Restricted Residential SCO

Table 3
Soil Sample Analytical Data Summary
Volatile Organic Compounds
Former Darby Drugs Distribution Center

| SAMPLE ID LAB SAMPLE ID SAMPLING DATE SAMPLE DEPTH (ft.) | Unrestricted SCO ¹ | Restricted Residential SCO ² | PWG-SB-2008-10 L0813196-30 9/5/2008 5-10 | PWG-SB-2008-10 L0813196-31 9/5/2008 10-15 | PWG-SB-2008-11 L0813196-34 9/5/2008 5-10 | PWG-SB-2008-11 L0813196-35 9/5/2008 15-20 | PWG-SB-2008-12 L0813196-36 9/5/2008 5-10 |
|---|----------------------------------|---|---|--|---|--|---|
| Volatile Organics by EPA 8260B | | | | | | | |
| Tetrachloroethene | 1,300 | 19,000 | 5.5 | 45 | 2.6 U | 3.3 U | 2.8 U |
| Trichloroethene | 470 | 21,000 | 3.2 U | 3.1 U | 2.6 U | 3.3 U | 2.8 U |
| cis-1,2-Dichloroethene | 250 | 100,000 | 3.2 U | 3.1 U | 2.6 U | 3.3 U | 2.8 U |
| trans-1,2-Dichloroethene | 190 | 100,000 | 4.8 U | 4.6 U | 4 U | 4.9 U | 4.3 U |
| 1,1-Dichloroethene | 330 | 100,000 | 3.2 U | 3.1 U | 2.6 U | 3.3 U | 2.8 U |
| Vinyl chloride | 20 | 900 | 6.4 U | 6.2 U | 5.3 U | 6.6 U | 5.7 U |

| | | | | | | | |
|-----------------------------|--------|---------|-------|-------|-------|-------|-------|
| 1,1,1,2-Tetrachloroethane | NS | NS | 3.2 U | 3.1 U | 2.6 U | 3.3 U | 2.8 U |
| 1,1,1-Trichloroethane | 680 | 100,000 | 3.2 U | 3.1 U | 2.6 U | 3.3 U | 2.8 U |
| 1,1,2,2-Tetrachloroethane | NS | NS | 3.2 U | 3.1 U | 2.6 U | 3.3 U | 2.8 U |
| 1,1,2-Trichloroethane | NS | NS | 4.8 U | 4.6 U | 4 U | 4.9 U | 4.3 U |
| 1,1-Dichloroethane | 270 | 26,000 | 4.8 U | 4.6 U | 4 U | 4.9 U | 4.3 U |
| 1,1-Dichloropropene | NS | NS | 16 U | 15 U | 13 U | 16 U | 14 U |
| 1,2,3-Trichlorobenzene | NS | NS | 16 U | 15 U | 13 U | 16 U | 14 U |
| 1,2,3-Trichloropropane | NS | NS | 32 U | 31 U | 26 U | 33 U | 28 U |
| 1,2,4,5-Tetramethylbenzene | NS | NS | 13 U | 12 U | 11 U | 13 U | 11 U |
| 1,2,4-Trichlorobenzene | NS | NS | 16 U | 15 U | 13 U | 16 U | 14 U |
| 1,2,4-Trimethylbenzene | 3,600 | 52,000 | 16 U | 15 U | 13 U | 16 U | 14 U |
| 1,2-Dibromo-3-chloropropane | NS | NS | 16 U | 15 U | 13 U | 16 U | 14 U |
| 1,2-Dibromoethane | NS | NS | 13 U | 12 U | 11 U | 13 U | 11 U |
| 1,2-Dichlorobenzene | 1,100 | 100,000 | 16 U | 15 U | 13 U | 16 U | 14 U |
| 1,2-Dichloroethane | 20 | 3,100 | 3.2 U | 3.1 U | 2.6 U | 3.3 U | 2.8 U |
| 1,2-Dichloropropane | NS | NS | 11 U | 11 U | 9.3 U | 12 U | 9.9 U |
| 1,3,5-Trimethylbenzene | 8,400 | 52,000 | 16 U | 15 U | 13 U | 16 U | 14 U |
| 1,3-Dichlorobenzene | 2,400 | 49,000 | 16 U | 15 U | 13 U | 16 U | 14 U |
| 1,3-Dichloropropane | NS | NS | 16 U | 15 U | 13 U | 16 U | 14 U |
| 1,4-Dichlorobenzene | 1,800 | 13,000 | 16 U | 15 U | 13 U | 16 U | 14 U |
| 1,4-Diethylbenzene | NS | NS | 13 U | 12 U | 11 U | 13 U | 11 U |
| 2,2-Dichloropropane | NS | NS | 16 U | 15 U | 13 U | 16 U | 14 U |
| 2-Butanone | 120 | 100,000 | 32 U | 31 U | 26 U | 33 U | 28 U |
| 2-Hexanone | NS | NS | 32 U | 31 U | 26 U | 33 U | 28 U |
| 4-Ethyltoluene | NS | NS | 13 U | 12 U | 11 U | 13 U | 11 U |
| 4-Methyl-2-pentanone | NS | NS | 32 U | 31 U | 26 U | 33 U | 28 U |
| Acetone | 50 | 100,000 | 32 U | 31 U | 26 U | 33 U | 28 U |
| Acrylonitrile | NS | NS | 32 U | 31 U | 26 U | 33 U | 28 U |
| Benzene | 60 | 4,800 | 3.2 U | 3.1 U | 2.6 U | 3.3 U | 2.8 U |
| Bromobenzene | NS | NS | 16 U | 15 U | 13 U | 16 U | 14 U |
| Bromochloromethane | NS | NS | 16 U | 15 U | 13 U | 16 U | 14 U |
| Bromodichloromethane | NS | NS | 3.2 U | 3.1 U | 2.6 U | 3.3 U | 2.8 U |
| Bromoform | NS | NS | 13 U | 12 U | 11 U | 13 U | 11 U |
| Bromomethane | NS | NS | 6.4 U | 6.2 U | 5.3 U | 6.6 U | 5.7 U |
| Carbon disulfide | NS | NS | 32 U | 31 U | 26 U | 33 U | 28 U |
| Carbon tetrachloride | 760 | 2,400 | 3.2 U | 3.1 U | 2.6 U | 3.3 U | 2.8 U |
| Chlorobenzene | 1,100 | 100,000 | 3.2 U | 3.1 U | 2.6 U | 3.3 U | 2.8 U |
| Chloroethane | NS | NS | 6.4 U | 6.2 U | 5.3 U | 6.6 U | 5.7 U |
| Chloroform | 370 | 49,000 | 4.8 U | 4.6 U | 4 U | 4.9 U | 4.3 U |
| Chloromethane | NS | NS | 16 U | 15 U | 13 U | 16 U | 14 U |
| cis-1,3-Dichloropropene | NS | NS | 3.2 U | 3.1 U | 2.6 U | 3.3 U | 2.8 U |
| Dibromochloromethane | NS | NS | 3.2 U | 3.1 U | 2.6 U | 3.3 U | 2.8 U |
| Dibromomethane | NS | NS | 32 U | 31 U | 26 U | 33 U | 28 U |
| Dichlorodifluoromethane | NS | NS | 32 U | 31 U | 26 U | 33 U | 28 U |
| Ethylbenzene | 1,000 | 41,000 | 3.2 U | 3.1 U | 2.6 U | 3.3 U | 2.8 U |
| Hexachlorobutadiene | NS | NS | 16 U | 15 U | 13 U | 16 U | 14 U |
| Isopropylbenzene | NS | NS | 3.2 U | 3.1 U | 2.6 U | 3.3 U | 2.8 U |
| Methyl tert butyl ether | 930 | 100,000 | 6.4 U | 6.2 U | 5.3 U | 6.6 U | 5.7 U |
| Methylene chloride | 50 | 100,000 | 32 U | 31 U | 26 U | 33 U | 28 U |
| Naphthalene | NS | NS | 3.2 U | 3.1 U | 2.6 U | 3.3 U | 2.8 U |
| n-Butylbenzene | 12,000 | NS | 3.2 U | 3.1 U | 2.6 U | 3.3 U | 2.8 U |
| n-Propylbenzene | 3,900 | 100,000 | 16 U | 15 U | 13 U | 16 U | 14 U |
| o-Chlorotoluene | NS | NS | 16 U | 15 U | 13 U | 16 U | 14 U |
| o-Xylene | 260 | 100,000 | 6.4 U | 6.2 U | 5.3 U | 6.6 U | 5.7 U |
| p/m-Xylene | 260 | 100,000 | 16 U | 15 U | 13 U | 16 U | 14 U |
| p-Chlorotoluene | NS | NS | 3.2 U | 3.1 U | 2.6 U | 3.3 U | 2.8 U |
| p-Isopropyltoluene | NS | NS | 6.4 U | 6.2 U | 5.3 U | 6.6 U | 5.7 U |
| sec-Butylbenzene | 11,000 | 100,000 | 3.2 U | 3.1 U | 2.6 U | 3.3 U | 2.8 U |
| Styrene | NS | NS | 6.4 U | 6.2 U | 5.3 U | 6.6 U | 5.7 U |
| tert-Butylbenzene | 5,900 | NS | 16 U | 15 U | 13 U | 16 U | 14 U |
| Toluene | 700 | 100,000 | 4.8 U | 4.6 U | 4 U | 4.9 U | 4.3 U |
| trans-1,3-Dichloropropene | NS | 100,000 | 3.2 U | 3.1 U | 2.6 U | 3.3 U | 2.8 U |
| Trichlorofluoromethane | NS | NS | 16 U | 15 U | 13 U | 16 U | 14 U |
| Vinyl acetate | NS | NS | 32 U | 31 U | 26 U | 33 U | 28 U |

Notes:

All concentrations are µg/kg (ppb)

¹Unrestricted Use Soil Cleanup Objectives (SCO) 6 NYCRR Part 375, Enviro

²Restricted-Residential Soil Cleanup Objectives (SCO) 6 NYCRR Part 375, I

U - Analyte not detected above the laboratory MDL

J - Estimated value

NS - No standard established

Bold text indicates compounds above the laboratory MDL

Green highlighting indicates exceedance of Unrestricted Use SCO

Yellow highlighting indicates exceedance of Restricted Residential SCO

Table 3
Soil Sample Analytical Data Summary
Volatile Organic Compounds
Former Darby Drugs Distribution Center

| SAMPLE ID LAB SAMPLE ID SAMPLING DATE SAMPLE DEPTH (ft.) | Unrestricted SCO ¹ | Restricted Residential SCO ² | PWG-SB-2008-12 L0813196-38 9/5/2008 10-15 | PWG-SB-2008-13 L0813196-24 9/4/2008 5-10 | PWG-SB-2008-13 L0813196-25 9/4/2008 10-15 | PWG-SB-2008-14 L0813196-27 9/4/2008 0-5 | PWG-SB-2008-14 L0813196-28 9/4/2008 10-15 |
|---|----------------------------------|---|--|---|--|--|--|
| Volatile Organics by EPA 8260B | | | | | | | |
| Tetrachloroethene | 1,300 | 19,000 | 3.1 U | 14 | 44 | 56 | 290 |
| Trichloroethene | 470 | 21,000 | 3.1 U | 3.2 U | 3.2 U | 2.6 U | 6.6 U |
| cis-1,2-Dichloroethene | 250 | 100,000 | 3.1 U | 3.2 U | 3.2 U | 2.6 U | 6.6 U |
| trans-1,2-Dichloroethene | 190 | 100,000 | 4.6 U | 4.8 U | 4.8 U | 4 U | 9.9 U |
| 1,1-Dichloroethene | 330 | 100,000 | 3.1 U | 3.2 U | 3.2 U | 2.6 U | 6.6 U |
| Vinyl chloride | 20 | 900 | 6.2 U | 6.4 U | 6.4 U | 5.3 U | 13 U |

| | | | | | | | |
|-----------------------------|--------|---------|-------|-------|-------|-------|-------|
| 1,1,1,2-Tetrachloroethane | NS | NS | 3.1 U | 3.2 U | 3.2 U | 2.6 U | 6.6 U |
| 1,1,1-Trichloroethane | 680 | 100,000 | 3.1 U | 3.2 U | 3.2 U | 2.6 U | 6.6 U |
| 1,1,2,2-Tetrachloroethane | NS | NS | 3.1 U | 3.2 U | 3.2 U | 2.6 U | 6.6 U |
| 1,1,2-Trichloroethane | NS | NS | 4.6 U | 4.8 U | 4.8 U | 4 U | 9.9 U |
| 1,1-Dichloroethane | 270 | 26,000 | 4.6 U | 4.8 U | 4.8 U | 4 U | 9.9 U |
| 1,1-Dichloropropene | NS | NS | 15 U | 16 U | 16 U | 13 U | 33 U |
| 1,2,3-Trichlorobenzene | NS | NS | 15 U | 16 U | 16 U | 13 U | 33 U |
| 1,2,3-Trichloropropane | NS | NS | 31 U | 32 U | 32 U | 26 U | 66 U |
| 1,2,4,5-Tetramethylbenzene | NS | NS | 12 U | 13 U | 13 U | 11 U | 26 U |
| 1,2,4-Trichlorobenzene | NS | NS | 15 U | 16 U | 16 U | 13 U | 33 U |
| 1,2,4-Trimethylbenzene | 3,600 | 52,000 | 15 U | 16 U | 16 U | 13 U | 33 U |
| 1,2-Dibromo-3-chloropropane | NS | NS | 15 U | 16 U | 16 U | 13 U | 33 U |
| 1,2-Dibromoethane | NS | NS | 12 U | 13 U | 13 U | 11 U | 26 U |
| 1,2-Dichlorobenzene | 1,100 | 100,000 | 15 U | 16 U | 16 U | 13 U | 33 U |
| 1,2-Dichloroethane | 20 | 3,100 | 3.1 U | 3.2 U | 3.2 U | 2.6 U | 6.6 U |
| 1,2-Dichloropropane | NS | NS | 11 U | 11 U | 11 U | 9.3 U | 23 U |
| 1,3,5-Trimethylbenzene | 8,400 | 52,000 | 15 U | 16 U | 16 U | 13 U | 33 U |
| 1,3-Dichlorobenzene | 2,400 | 49,000 | 15 U | 16 U | 16 U | 13 U | 33 U |
| 1,3-Dichloropropane | NS | NS | 15 U | 16 U | 16 U | 13 U | 33 U |
| 1,4-Dichlorobenzene | 1,800 | 13,000 | 15 U | 16 U | 16 U | 13 U | 33 U |
| 1,4-Diethylbenzene | NS | NS | 12 U | 13 U | 13 U | 11 U | 26 U |
| 2,2-Dichloropropane | NS | NS | 15 U | 16 U | 16 U | 13 U | 33 U |
| 2-Butanone | 120 | 100,000 | 31 U | 32 U | 32 U | 26 U | 66 U |
| 2-Hexanone | NS | NS | 31 U | 32 U | 32 U | 26 U | 66 U |
| 4-Ethyltoluene | NS | NS | 12 U | 13 U | 13 U | 11 U | 26 U |
| 4-Methyl-2-pentanone | NS | NS | 31 U | 32 U | 32 U | 26 U | 66 U |
| Acetone | 50 | 100,000 | 31 U | 32 U | 32 U | 26 U | 66 U |
| Acrylonitrile | NS | NS | 31 U | 32 U | 32 U | 26 U | 66 U |
| Benzene | 60 | 4,800 | 3.1 U | 3.2 U | 3.2 U | 2.6 U | 6.6 U |
| Bromobenzene | NS | NS | 15 U | 16 U | 16 U | 13 U | 33 U |
| Bromochloromethane | NS | NS | 15 U | 16 U | 16 U | 13 U | 33 U |
| Bromodichloromethane | NS | NS | 3.1 U | 3.2 U | 3.2 U | 2.6 U | 6.6 U |
| Bromoform | NS | NS | 12 U | 13 U | 13 U | 11 U | 26 U |
| Bromomethane | NS | NS | 6.2 U | 6.4 U | 6.4 U | 5.3 U | 13 U |
| Carbon disulfide | NS | NS | 31 U | 32 U | 32 U | 26 U | 66 U |
| Carbon tetrachloride | 760 | 2,400 | 3.1 U | 3.2 U | 3.2 U | 2.6 U | 6.6 U |
| Chlorobenzene | 1,100 | 100,000 | 3.1 U | 3.2 U | 3.2 U | 2.6 U | 6.6 U |
| Chloroethane | NS | NS | 6.2 U | 6.4 U | 6.4 U | 5.3 U | 13 U |
| Chloroform | 370 | 49,000 | 4.6 U | 4.8 U | 4.8 U | 4 U | 9.9 U |
| Chloromethane | NS | NS | 15 U | 16 U | 16 U | 13 U | 33 U |
| cis-1,3-Dichloropropene | NS | NS | 3.1 U | 3.2 U | 3.2 U | 2.6 U | 6.6 U |
| Dibromochloromethane | NS | NS | 3.1 U | 3.2 U | 3.2 U | 2.6 U | 6.6 U |
| Dibromomethane | NS | NS | 31 U | 32 U | 32 U | 26 U | 66 U |
| Dichlorodifluoromethane | NS | NS | 31 U | 32 U | 32 U | 26 U | 66 U |
| Ethylbenzene | 1,000 | 41,000 | 3.1 U | 3.2 U | 3.2 U | 2.6 U | 6.6 U |
| Hexachlorobutadiene | NS | NS | 15 U | 16 U | 16 U | 13 U | 33 U |
| Isopropylbenzene | NS | NS | 3.1 U | 3.2 U | 3.2 U | 2.6 U | 6.6 U |
| Methyl tert butyl ether | 930 | 100,000 | 6.2 U | 6.4 U | 6.4 U | 5.3 U | 13 U |
| Methylene chloride | 50 | 100,000 | 31 U | 32 U | 32 U | 26 U | 66 U |
| Naphthalene | NS | NS | 3.1 U | 3.2 U | 3.2 U | 2.6 U | 6.6 U |
| n-Butylbenzene | 12,000 | NS | 3.1 U | 3.2 U | 3.2 U | 2.6 U | 6.6 U |
| n-Propylbenzene | 3,900 | 100,000 | 15 U | 16 U | 16 U | 13 U | 33 U |
| o-Chlorotoluene | NS | NS | 15 U | 16 U | 16 U | 13 U | 33 U |
| o-Xylene | 260 | 100,000 | 6.2 U | 6.4 U | 6.4 U | 5.3 U | 13 U |
| p/m-Xylene | 260 | 100,000 | 15 U | 16 U | 16 U | 13 U | 33 U |
| p-Chlorotoluene | NS | NS | 3.1 U | 3.2 U | 3.2 U | 2.6 U | 6.6 U |
| p-Isopropyltoluene | NS | NS | 6.2 U | 6.4 U | 6.4 U | 5.3 U | 13 U |
| sec-Butylbenzene | 11,000 | 100,000 | 3.1 U | 3.2 U | 3.2 U | 2.6 U | 6.6 U |
| Styrene | NS | NS | 6.2 U | 6.4 U | 6.4 U | 5.3 U | 13 U |
| tert-Butylbenzene | 5,900 | NS | 15 U | 16 U | 16 U | 13 U | 33 U |
| Toluene | 700 | 100,000 | 4.6 U | 4.8 U | 4.8 U | 4 U | 9.9 U |
| trans-1,3-Dichloropropene | NS | 100,000 | 3.1 U | 3.2 U | 3.2 U | 2.6 U | 6.6 U |
| Trichlorofluoromethane | NS | NS | 15 U | 16 U | 16 U | 13 U | 33 U |
| Vinyl acetate | NS | NS | 31 U | 32 U | 32 U | 26 U | 66 U |

Notes:

All concentrations are µg/kg (ppb)

¹Unrestricted Use Soil Cleanup Objectives (SCO) 6 NYCRR Part 375, Enviro

²Restricted-Residential Soil Cleanup Objectives (SCO) 6 NYCRR Part 375, I

U - Analyte not detected above the laboratory MDL

J - Estimated value

NS - No standard established

Bold text indicates compounds above the laboratory MDL

Green highlighting indicates exceedance of Unrestricted Use SCO

Yellow highlighting indicates exceedance of Restricted Residential SCO

Table 4
Soil Sample Analytical Data Summary
Semi-Volatile Organic Compounds
Former Darby Drugs Distribution Center

| SAMPLE ID LAB SAMPLE ID SAMPLING DATE SAMPLE DEPTH (ft.) | Unrestricted SCO* | Restricted Residential SCO* | PWG-SB-2008-01 L0813196-20 9/4/2008 5-10 | PWG-SB-2008-08 L0813196-05 9/3/2008 5-10 | PWG-SB-2008-10 L0813196-30 9/5/2008 5-10 | PWG-SB-2008-14 L0813196-28 9/4/2008 10-15 |
|---|----------------------|-----------------------------------|---|---|---|--|
| Semivolatile Organics by EPA 8270C | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | NS | NS | 1600 U | 1600 U | 1700 U | 1400 U |
| 1,2,4-Trichlorobenzene | NS | NS | 410 U | 390 U | 430 U | 350 U |
| 1,2-Dichlorobenzene | NS | NS | 410 U | 390 U | 430 U | 350 U |
| 1,3-Dichlorobenzene | NS | NS | 410 U | 390 U | 430 U | 350 U |
| 1,4-Dichlorobenzene | NS | NS | 410 U | 390 U | 430 U | 350 U |
| 2,4,5-Trichlorophenol | NS | NS | 410 U | 390 U | 430 U | 350 U |
| 2,4,6-Trichlorophenol | NS | NS | 410 U | 390 U | 430 U | 350 U |
| 2,4-Dichlorophenol | NS | NS | 820 U | 780 U | 850 U | 710 U |
| 2,4-Dimethylphenol | NS | NS | 410 U | 390 U | 430 U | 350 U |
| 2,4-Dinitrophenol | NS | NS | 1600 U | 1600 U | 1700 U | 1400 U |
| 2,4-Dinitrotoluene | NS | NS | 410 U | 390 U | 430 U | 350 U |
| 2,6-Dinitrotoluene | NS | NS | 410 U | 390 U | 430 U | 350 U |
| 2-Chloronaphthalene | NS | NS | 490 U | 460 U | 510 U | 420 U |
| 2-Chlorophenol | NS | NS | 490 U | 460 U | 510 U | 420 U |
| 2-Methylnaphthalene | NS | NS | 410 U | 390 U | 430 U | 350 U |
| 2-Methylphenol | NS | NS | 490 U | 460 U | 510 U | 420 U |
| 2-Nitroaniline | NS | NS | 410 U | 390 U | 430 U | 350 U |
| 2-Nitrophenol | NS | NS | 1600 U | 1600 U | 1700 U | 1400 U |
| 3,3'-Dichlorobenzidine | NS | NS | 820 U | 780 U | 850 U | 710 U |
| 3-Methylphenol/4-Methylphenol | NS | NS | 490 U | 460 U | 510 U | 420 U |
| 3-Nitroaniline | NS | NS | 410 U | 390 U | 430 U | 350 U |
| 4,6-Dinitro-o-cresol | NS | NS | 1600 U | 1600 U | 1700 U | 1400 U |
| 4-Bromophenyl phenyl ether | NS | NS | 410 U | 390 U | 430 U | 350 U |
| 4-Chloroaniline | NS | NS | 410 U | 390 U | 430 U | 350 U |
| 4-Chlorophenyl phenyl ether | NS | NS | 410 U | 390 U | 430 U | 350 U |
| 4-Nitroaniline | NS | NS | 580 U | 540 U | 600 U | 500 U |
| 4-Nitrophenol | NS | NS | 820 U | 780 U | 850 U | 710 U |
| Acenaphthene | 20,000 | 100,000 | 410 U | 390 U | 430 U | 350 U |
| Acenaphthylene | 100,000 | 100,000 | 410 U | 390 U | 430 U | 350 U |
| Acetophenone | NS | NS | 1600 U | 1600 U | 1700 U | 1400 U |
| Anthracene | 100,000 | 100,000 | 410 U | 390 U | 430 U | 350 U |
| Benzo(a)anthracene | 1,000 | 1,000 | 410 U | 390 U | 430 U | 350 U |
| Benzo(a)pyrene | 1,000 | 1,000 | 410 U | 390 U | 430 U | 350 U |
| Benzo(b)fluoranthene | 1,000 | 1,000 | 410 U | 390 U | 430 U | 350 U |
| Benzo(ghi)perylene | 100,000 | 100,000 | 410 U | 390 U | 430 U | 350 U |
| Benzo(k)fluoranthene | 800 | 3,900 | 410 U | 390 U | 430 U | 350 U |
| Benzoic Acid | NS | NS | 4100 U | 3900 U | 4300 U | 3500 U |
| Benzyl Alcohol | NS | NS | 820 U | 780 U | 850 U | 710 U |
| Biphenyl | NS | NS | 410 U | 390 U | 430 U | 350 U |
| Bis(2-chloroethoxy)methane | NS | NS | 410 U | 390 U | 430 U | 350 U |
| Bis(2-chloroethyl)ether | NS | NS | 410 U | 390 U | 430 U | 350 U |
| Bis(2-chloroisopropyl)ether | NS | NS | 410 U | 390 U | 430 U | 350 U |
| Bis(2-Ethylhexoxy)phthalate | NS | NS | 820 U | 780 U | 850 U | 710 U |
| Butyl benzyl phthalate | NS | NS | 410 U | 390 U | 430 U | 350 U |
| Carbazole | NS | NS | 410 U | 390 U | 430 U | 350 U |
| Chrysene | 1,000 | 3,900 | 410 U | 390 U | 430 U | 350 U |
| Di-n-butylphthalate | NS | NS | 410 U | 390 U | 430 U | 350 U |
| Di-n-octylphthalate | NS | NS | 410 U | 390 U | 430 U | 350 U |
| Dibenzo(a,h)anthracene | 330 | 330 | 410 U | 390 U | 430 U | 350 U |
| Dibenzofuran | NS | NS | 410 U | 390 U | 430 U | 350 U |
| Diethyl phthalate | NS | NS | 410 U | 390 U | 430 U | 350 U |
| Dimethyl phthalate | NS | NS | 410 U | 390 U | 430 U | 350 U |
| Fluoranthene | 100,000 | 100,000 | 410 U | 390 U | 430 U | 350 U |
| Fluorene | 30,000 | 100,000 | 410 U | 390 U | 430 U | 350 U |
| Hexachlorobenzene | NS | NS | 410 U | 390 U | 430 U | 350 U |
| Hexachlorobutadiene | NS | NS | 820 U | 780 U | 850 U | 710 U |
| Hexachlorocyclopentadiene | NS | NS | 820 U | 780 U | 850 U | 710 U |
| Hexachloroethane | NS | NS | 410 U | 390 U | 430 U | 350 U |
| Indeno(1,2,3-cd)Pyrene | 500 | 500 | 410 U | 390 U | 430 U | 350 U |
| Isophorone | NS | NS | 410 U | 390 U | 430 U | 350 U |
| n-Nitrosodi-n-propylamine | NS | NS | 410 U | 390 U | 430 U | 350 U |
| Naphthalene | 12,000 | 100,000 | 410 U | 390 U | 430 U | 350 U |
| Nitrobenzene | NS | NS | 410 U | 390 U | 430 U | 350 U |
| NitrosoDiPhenylAmine(NDPA)/DPA | NS | NS | 1200 U | 1200 U | 1300 U | 1100 U |
| P-Chloro-M-Cresol | NS | NS | 410 U | 390 U | 430 U | 350 U |
| Pentachlorophenol | 800 | 6,700 | 1600 U | 1600 U | 1700 U | 1400 U |
| Phenanthrene | 100,000 | 100,000 | 410 U | 390 U | 430 U | 350 U |
| Phenol | 330 | 100,000 | 580 U | 540 U | 600 U | 500 U |
| Pyrene | 100,000 | 100,000 | 410 U | 390 U | 430 U | 350 U |
| Semivolatile Organics by EPA 8270C-SIM | | | | | | |
| 2-Chloronaphthalene | NS | NS | 16 U | 16 U | 17 U | 14 U |
| 2-Methylnaphthalene | NS | NS | 16 U | 16 U | 17 U | 14 U |
| Acenaphthene | 20,000 | 100,000 | 16 U | 16 U | 17 U | 14 U |
| Acenaphthylene | 100,000 | 100,000 | 16 U | 16 U | 17 U | 14 U |
| Anthracene | 100,000 | 100,000 | 16 U | 16 U | 17 U | 14 U |
| Benzo(a)anthracene | 1,000 | 1,000 | 48 | 16 U | 17 U | 14 U |
| Benzo(a)pyrene | 1,000 | 1,000 | 64 | 16 U | 17 U | 14 U |
| Benzo(b)fluoranthene | 1,000 | 1,000 | 58 | 16 U | 17 U | 14 U |
| Benzo(ghi)perylene | 100,000 | 100,000 | 51 | 16 U | 17 U | 14 U |
| Benzo(k)fluoranthene | 800 | 3,900 | 58 | 16 U | 17 U | 14 U |
| Chrysene | 1,000 | 3,900 | 55 | 16 U | 17 U | 14 U |
| Dibenzo(a,h)anthracene | 3,300 | 330 | 16 U | 16 U | 17 U | 14 U |
| Fluoranthene | 100,000 | 100,000 | 120 | 16 U | 17 U | 14 U |
| Fluorene | 30,000 | 100,000 | 16 U | 16 U | 17 U | 14 U |
| Hexachlorobenzene | NS | NS | 66 U | 62 U | 68 U | 57 U |
| Hexachlorobutadiene | NS | NS | 41 U | 39 U | 43 U | 35 U |
| Hexachlorocyclopentadiene | NS | NS | 66 U | 62 U | 68 U | 57 U |
| Hexachloroethane | NS | NS | 66 U | 62 U | 68 U | 57 U |
| Indeno(1,2,3-cd)Pyrene | 500 | 500 | 52 | 16 U | 17 U | 14 U |
| Naphthalene | 12,000 | 100,000 | 16 U | 16 U | 17 U | 14 U |
| Pentachlorophenol | 800 | 6,700 | 66 U | 62 U | 68 U | 57 U |
| Phenanthrene | 100,000 | 100,000 | 47 | 16 U | 17 U | 14 U |
| Pyrene | 100,000 | 100,000 | 120 | 16 U | 17 U | 14 U |

Notes:

All concentrations are µg/kg (ppb)

*Unrestricted Use Soil Cleanup Objectives (SCO) 6 NYCRR Part 375, Environmental Remediation Programs, December 2006

*Restricted-Residential Soil Cleanup Objectives (SCO) 6 NYCRR Part 375, Environmental Remediation Programs, December 2006

U - Analyte not detected above the laboratory MDL

J - Estimated value

NS - No standard established

Bold text indicates compounds above the laboratory MDL

Green highlighting indicates exceedance of Unrestricted Use SCO

Yellow highlighting indicates exceedance of Restricted Residential SCO

Table 5
Soil Sample Analytical Data Summary
Pesticides/PCBs/Metals
Former Darby Drugs Distribution Center

| SAMPLE ID LAB SAMPLE ID SAMPLING DATE SAMPLE DEPTH (ft.) | Unrestricted SCO ¹ | Restricted Residential SCO ² | PWG-SB-2008-01 L0813196-20 9/4/2008 5-10 | PWG-SB-2008-08 L0813196-05 9/3/2008 5-10 | PWG-SB-2008-10 L0813196-30 9/5/2008 5-10 | PWG-SB-2008-14 L0813196-28 9/4/2008 10-15 |
|---|----------------------------------|---|---|---|---|--|
| Organochlorine Pesticides by EPA 8081A | | | | | | |
| 4,4'-DDD | 3.3 | 13000 | 4.12 U | 3.88 U | 4.27 U | 3.55 U |
| 4,4'-DDE | 3.3 | 8900 | 4.12 U | 3.88 U | 4.27 U | 3.55 U |
| 4,4'-DDT | 3.3 | 7900 | 4.73 J | 3.88 U | 4.27 U | 3.55 U |
| Aldrin | 5 | 97 | 4.12 U | 3.88 U | 4.27 U | 3.55 U |
| Alpha-BHC | 20 | 480 | 4.12 U | 3.88 U | 4.27 U | 3.55 U |
| Beta-BHC | 36 | 360 | 4.12 U | 3.88 U | 4.27 U | 3.55 U |
| Chlordane | 94 | 4200 | 4.12 U | 3.88 U | 4.27 U | 3.55 U |
| Delta-BHC | 40 | 100000 | 4.12 U | 3.88 U | 4.27 U | 3.55 U |
| Dieldrin | 5 | 200 | 4.12 U | 3.88 U | 4.27 U | 3.55 U |
| Endosulfan I | 2400 | 24000 | 4.12 U | 3.88 U | 4.27 U | 3.55 U |
| Endosulfan II | 2400 | 24000 | 4.12 U | 3.88 U | 4.27 U | 3.55 U |
| Endosulfan sulfate | 2400 | 24000 | 4.12 U | 3.88 U | 4.27 U | 3.55 U |
| Endrin | 14 | 11000 | 4.12 U | 3.88 U | 4.27 U | 3.55 U |
| Endrin ketone | NS | NS | 4.12 U | 3.88 U | 4.27 U | 3.55 U |
| Heptachlor | 42 | 2100 | 4.12 U | 3.88 U | 4.27 U | 3.55 U |
| Heptachlor epoxide | NS | NS | 4.12 U | 3.88 U | 4.27 U | 3.55 U |
| Lindane | 100 | 1300 | 4.12 U | 3.88 U | 4.27 U | 3.55 U |
| Methoxychlor | NS | NS | 16.5 U | 15.5 U | 17.1 U | 14.2 U |
| trans-Chlordane | NS | NS | 4.12 U | 3.88 U | 4.27 U | 3.55 U |
| Polychlorinated Biphenyls by EPA 8082 | | | | | | |
| Aroclor 1016 | 100 | 1000 | 41.2 U | 38.8 U | 42.7 U | 35.5 U |
| Aroclor 1221 | 100 | 1000 | 41.2 U | 38.8 U | 42.7 U | 35.5 U |
| Aroclor 1232 | 100 | 1000 | 41.2 U | 38.8 U | 42.7 U | 35.5 U |
| Aroclor 1242 | 100 | 1000 | 41.2 U | 38.8 U | 42.7 U | 35.5 U |
| Aroclor 1248 | 100 | 1000 | 41.2 U | 38.8 U | 42.7 U | 35.5 U |
| Aroclor 1254 | 100 | 1000 | 41.2 U | 38.8 U | 42.7 U | 35.5 U |
| Aroclor 1260 | 100 | 1000 | 41.2 U | 38.8 U | 42.7 U | 35.5 U |
| Total Metals | | | | | | |
| Aluminum | NS | NS | 4700 | 2500 | 1100 | 4000 |
| Antimony | NS | NS | 2.9 UJ | 2.8 U | 3 U | 2.5 U |
| Arsenic | 13 | 16 | 2.2 | 1.8 | 1 | 1.1 |
| Barium | 350 | 400 | 40 | 14 | 3 | 19 |
| Beryllium | 7.2 | 72 | 0.29 U | 0.28 U | 0.3 U | 0.25 U |
| Cadmium | 2.5 | 4.3 | 0.58 U | 0.56 U | 0.6 U | 0.5 U |
| Calcium | NS | NS | 1000 J | 92 | 64 | 350 |
| Chromium | 30 | 180 | 6.4 J | 4.7 | 3.2 | 4.2 |
| Cobalt | NS | NS | 2.8 | 9 | 1.2 U | 1 U |
| Copper | 50 | 270 | 9.4 | 5.8 | 1.2 | 3.3 |
| Iron | NS | NS | 7500 | 6900 | 2500 | 3800 |
| Lead | 63 | 400 | 87 J | 2.8 U | 3 U | 21 |
| Magnesium | NS | NS | 690 J | 340 | 80 | 380 |
| Manganese | 1600 | 2000 | 100 J | 650 | 7.8 | 55 |
| Mercury | 0.18 | 0.81 | 0.1 J | 0.09 U | 0.09 U | 0.09 U |
| Nickel | 30 | 310 | 5.2 | 5.6 | 1.5 U | 2.3 |
| Potassium | NS | NS | 320 | 240 | 150 U | 150 |
| Selenium | 3.9 | 180 | 1.2 U | 1.1 U | 1.2 U | 1 U |
| Silver | 2 | 180 | 0.58 U | 0.56 U | 0.6 U | 0.5 U |
| Sodium | NS | NS | 120 U | 110 U | 120 U | 100 U |
| Thallium | NS | NS | 1.2 U | 1.1 U | 1.2 U | 1 U |
| Vanadium | NS | NS | 9.3 | 7.5 | 3.4 | 6.2 |
| Zinc | 109 | 10000 | 58 J | 25 | 6.5 | 26 |

Notes:

Pesticides & PCBs concentrations are µg/kg (ppb)

Metals concentrations are mg/kg (ppm)

¹Unrestricted Use Soil Cleanup Objectives (SCO) 6 NYCRR Part 375, Environmental Remediation Programs, December 2006

²Restricted-Residential Soil Cleanup Objectives (SCO) 6 NYCRR Part 375, Environmental Remediation Programs, December 2006

U - Analyte not detected above the laboratory MDL

J - Estimated value

NS - No standard established

Bold text indicates compounds above the laboratory MDL

Green highlighting indicates exceedance of Unrestricted Use SCO

Yellow highlighting indicates exceedance of Restricted Residential SCO

Table 6
Leaching Structure Soil/Sediment Sample Analytical Data Summary
Volatile Organic Compounds
Former Darby Drugs Distribution Center

| SAMPLE ID LAB SAMPLE ID SAMPLING DATE SAMPLE DEPTH (ft.) | Unrestricted SCO ¹ | Restricted Residential SCO ² | PWG-DW-2008-01 L0813344-04 9/8/2008 7.25-7.75 | PWG-DW-2008-02 L0813344-05 9/8/2008 5.25-5.75 | PWG-DW-2008-03 L0813344-06 9/8/2008 8.75-9.25 | PWG-DW-2008-04 L0813344-07 9/8/2008 7.25-7.75 | PWG-DW-2008-05 L0813344-08 9/8/2008 6.75-7.25 | PWG-DW-2008-06 L0813344-09 9/8/2008 6.75-7.25 | PWG-DW-2008-07 L0813344-10 9/8/2008 6.75-7.25 | PWG-DW-2008-09 L0813344-12 9/8/2008 6.75-7.25 |
|---|----------------------------------|---|--|--|--|--|--|--|--|--|
| Volatile Organics by EPA 8260B | | | | | | | | | | |
| Tetrachloroethene | 1,300 | 19,000 | 3 U | 3.2 U | 7.6 | 3.2 U | 2.9 U | 6.6 | 6.4 | 3.1 U |
| Trichloroethene | 470 | 21,000 | 3 U | 3.2 U | 3.1 U | 3.2 U | 2.9 U | 3 U | 3.4 U | 3.1 U |
| cis-1,2-Dichloroethene | 250 | 100,000 | 3 U | 3.2 U | 4.4 | 3.2 U | 2.9 U | 3 U | 3.4 U | 3.1 U |
| trans-1,2-Dichloroethene | 190 | 100,000 | 4.5 U | 4.7 U | 4.7 U | 4.9 U | 4.4 U | 4.5 U | 5.1 U | 4.6 U |
| 1,1-Dichloroethene | 330 | 100,000 | 3 U | 3.2 U | 3.1 U | 3.2 U | 2.9 U | 3 U | 3.4 U | 3.1 U |
| Vinyl chloride | 20 | 900 | 6 U | 6.3 U | 6.2 U | 6.5 U | 5.8 U | 6 U | 6.8 U | 6.2 U |
| 1,1,1,2-Tetrachloroethane | NS | NS | 3 U | 3.2 U | 3.1 U | 3.2 U | 2.9 U | 3 U | 3.4 U | 3.1 U |
| 1,1,1-Trichloroethane | 680 | 100,000 | 7.5 | 9.5 | 13 | 3.2 U | 2.9 U | 3 U | 3.4 U | 3.1 U |
| 1,1,2,2-Tetrachloroethane | NS | NS | 3 U | 3.2 U | 3.1 U | 3.2 U | 2.9 U | 3 U | 3.4 U | 3.1 U |
| 1,1,2-Trichloroethane | NS | NS | 4.5 U | 4.7 U | 4.7 U | 4.9 U | 4.4 U | 4.5 U | 5.1 U | 4.6 U |
| 1,1-Dichloroethane | 270 | 26,000 | 4.5 U | 5.1 | 7.2 | 4.9 U | 4.4 U | 4.5 U | 5.1 U | 4.6 U |
| 1,1-Dichloropropene | NS | NS | 15 U | 16 U | 16 U | 16 U | 14 U | 15 U | 17 U | 15 U |
| 1,2,3-Trichlorobenzene | NS | NS | 15 U | 16 U | 16 U | 16 U | 14 U | 15 U | 17 U | 15 U |
| 1,2,3-Trichloropropane | NS | NS | 30 U | 32 U | 31 U | 32 U | 29 U | 30 U | 34 U | 31 U |
| 1,2,4,5-Tetramethylbenzene | NS | NS | 12 U | 13 U | 12 U | 13 U | 12 U | 12 U | 24 | 12 U |
| 1,2,4-Trichlorobenzene | NS | NS | 15 U | 16 U | 16 U | 16 U | 14 U | 15 U | 17 U | 15 U |
| 1,2,4-Trimethylbenzene | 3,600 | 52,000 | 15 U | 16 U | 16 U | 16 U | 14 U | 15 U | 60 | 15 U |
| 1,2-Dibromo-3-chloropropane | NS | NS | 15 U | 16 U | 16 U | 16 U | 14 U | 15 U | 17 U | 15 U |
| 1,2-Dibromoethane | NS | NS | 12 U | 13 U | 12 U | 13 U | 12 U | 12 U | 14 U | 12 U |
| 1,2-Dichlorobenzene | 1,100 | 100,000 | 15 U | 16 U | 16 U | 16 U | 14 U | 15 U | 17 U | 15 U |
| 1,2-Dichloroethane | 20 | 3,100 | 3 U | 3.2 U | 3.1 U | 3.2 U | 2.9 U | 3 U | 3.4 U | 3.1 U |
| 1,2-Dichloropropane | NS | NS | 10 U | 11 U | 11 U | 11 U | 10 U | 10 U | 12 U | 11 U |
| 1,3,5-Trimethylbenzene | 8,400 | 52,000 | 15 U | 16 U | 16 U | 16 U | 14 U | 15 U | 62 | 15 U |
| 1,3-Dichlorobenzene | 2,400 | 49,000 | 15 U | 16 U | 16 U | 16 U | 14 U | 15 U | 17 U | 15 U |
| 1,3-Dichloropropane | NS | NS | 15 U | 16 U | 16 U | 16 U | 14 U | 15 U | 17 U | 15 U |
| 1,4-Dichlorobenzene | 1,800 | 13,000 | 15 U | 16 U | 16 U | 16 U | 14 U | 15 U | 17 U | 15 U |
| 1,4-Diethylbenzene | NS | NS | 12 U | 13 U | 12 U | 13 U | 12 U | 12 U | 16 | 12 U |
| 2,2-Dichloropropane | NS | NS | 15 U | 16 U | 16 U | 16 U | 14 U | 15 U | 17 U | 15 U |
| 2-Butanone | 120 | 100,000 | 30 U | 32 U | 31 U | 32 U | 29 U | 30 U | 34 U | 31 U |
| 2-Hexanone | NS | NS | 30 U | 32 U | 31 U | 32 U | 29 U | 30 U | 34 U | 31 U |
| 4-Ethyltoluene | NS | NS | 12 U | 13 U | 12 U | 13 U | 12 U | 12 U | 48 | 12 U |
| 4-Methyl-2-pentanone | NS | NS | 30 U | 32 U | 31 U | 32 U | 29 U | 30 U | 34 U | 31 U |
| Acetone | 50 | 100,000 | 30 U | 32 U | 31 U | 32 U | 29 U | 30 U | 48 | 31 U |
| Acrylonitrile | NS | NS | 30 U | 32 U | 31 U | 32 U | 29 U | 30 U | 34 U | 31 U |
| Benzene | 60 | 4,800 | 3 U | 3.2 U | 3.1 U | 3.2 U | 2.9 U | 3 U | 3.4 U | 3.1 U |
| Bromobenzene | NS | NS | 15 U | 16 U | 16 U | 16 U | 14 U | 15 U | 17 U | 15 U |
| Bromochloromethane | NS | NS | 15 U | 16 U | 16 U | 16 U | 14 U | 15 U | 17 U | 15 U |
| Bromodichloromethane | NS | NS | 3 U | 3.2 U | 3.1 U | 3.2 U | 2.9 U | 3 U | 3.4 U | 3.1 U |
| Bromoform | NS | NS | 12 U | 13 U | 12 U | 13 U | 12 U | 12 U | 14 U | 12 U |
| Bromomethane | NS | NS | 6 U | 6.3 U | 6.2 U | 6.5 U | 5.8 U | 6 U | 6.8 U | 6.2 U |
| Carbon disulfide | NS | NS | 30 U | 32 U | 31 U | 32 U | 29 U | 30 U | 34 U | 31 U |
| Carbon tetrachloride | 760 | 2,400 | 3 U | 3.2 U | 3.1 U | 3.2 U | 2.9 U | 3 U | 3.4 U | 3.1 U |
| Chlorobenzene | 1,100 | 100,000 | 3 U | 3.2 U | 3.1 U | 3.2 U | 2.9 U | 3 U | 3.4 U | 3.1 U |
| Chloroethane | NS | NS | 6 U | 6.3 U | 6.2 U | 6.5 U | 5.8 U | 6 U | 6.8 U | 6.2 U |
| Chloroform | 370 | 49,000 | 4.5 U | 4.7 U | 4.7 U | 4.9 U | 4.4 U | 4.5 U | 5.1 U | 4.6 U |
| Chloromethane | NS | NS | 15 U | 16 U | 16 U | 16 U | 14 U | 15 U | 17 U | 15 U |
| cis-1,3-Dichloropropene | NS | NS | 3 U | 3.2 U | 3.1 U | 3.2 U | 2.9 U | 3 U | 3.4 U | 3.1 U |
| Dibromochloromethane | NS | NS | 3 U | 3.2 U | 3.1 U | 3.2 U | 2.9 U | 3 U | 3.4 U | 3.1 U |
| Dibromomethane | NS | NS | 30 U | 32 U | 31 U | 32 U | 29 U | 30 U | 34 U | 31 U |
| Dichlorodifluoromethane | NS | NS | 30 U | 32 U | 31 U | 32 U | 29 U | 30 U | 34 U | 31 U |
| Ethylbenzene | 1,000 | 41,000 | 3 U | 3.2 U | 3.1 U | 3.2 U | 2.9 U | 3 U | 3.4 U | 3.1 U |
| Hexachlorobutadiene | NS | NS | 15 U | 16 U | 16 U | 16 U | 14 U | 15 U | 17 U | 15 U |
| Isopropylbenzene | NS | NS | 3 U | 3.2 U | 3.1 U | 3.2 U | 2.9 U | 3 U | 39 | 3.1 U |
| Methyl tert butyl ether | 930 | 100,000 | 6 U | 6.3 U | 6.2 U | 6.5 U | 5.8 U | 6 U | 6.8 U | 6.2 U |
| Methylene chloride | 50 | 100,000 | 30 U | 32 U | 31 U | 32 U | 29 U | 30 U | 34 U | 31 U |
| Naphthalene | NS | NS | 3 U | 3.2 U | 3.1 U | 3.2 U | 2.9 U | 3 U | 3.4 U | 3.1 U |
| n-Butylbenzene | 12,000 | NS | 3 U | 3.2 U | 3.1 U | 3.2 U | 2.9 U | 3 U | 37 | 3.1 U |
| n-Propylbenzene | 3,900 | 100,000 | 15 U | 16 U | 16 U | 16 U | 14 U | 15 U | 17 U | 15 U |
| o-Chlorotoluene | NS | NS | 15 U | 16 U | 16 U | 16 U | 14 U | 15 U | 17 U | 15 U |
| o-Xylene | 260 | 100,000 | 6 U | 6.3 U | 6.2 U | 6.5 U | 5.8 U | 6 U | 6.8 U | 6.2 U |
| p/m-Xylene | 260 | 100,000 | 15 U | 16 U | 16 U | 16 U | 14 U | 15 U | 17 U | 15 U |
| p-Chlorotoluene | NS | NS | 3 U | 3.2 U | 3.1 U | 3.2 U | 2.9 U | 3 U | 3.4 U | 3.1 U |
| p-Isopropyltoluene | NS | NS | 6 U | 6.3 U | 6.2 U | 6.5 U | 5.8 U | 6 U | 230 | 6.2 U |
| sec-Butylbenzene | 11,000 | 100,000 | 3 U | 3.2 U | 3.1 U | 3.2 U | 2.9 U | 3 U | 3.4 U | 3.1 U |
| Styrene | NS | NS | 6 U | 6.3 U | 6.2 U | 6.5 U | 5.8 U | 6 U | 6.8 U | 6.2 U |
| tert-Butylbenzene | 5,900 | NS | 15 U | 16 U | 16 U | 16 U | 14 U | 15 U | 17 U | 15 U |
| Toluene | 700 | 100,000 | 4.5 U | 4.7 U | 4.7 U | 4.9 U | 4.4 U | 4.5 U | 5.1 U | 4.6 U |
| trans-1,3-Dichloropropene | NS | 100,000 | 3 U | 3.2 U | 3.1 U | 3.2 U | 2.9 U | 3 U | 3.4 U | 3.1 U |
| Trichlorofluoromethane | NS | NS | 15 U | 16 U | 16 U | 16 U | 14 U | 15 U | 17 U | 15 U |
| Vinyl acetate | NS | NS | 30 U | 32 U | 31 U | 32 U | 29 U | 30 U | 34 U | 31 U |

Notes:

All concentrations are µg/kg (ppb)

¹Unrestricted Use Soil Cleanup Objectives (SCO) 6 NYCRR Part 375, Environmental Remediation Programs, December 2006

²Restricted-Residential Soil Cleanup Objectives (SCO) 6 NYCRR Part 375, Environmental Remediation Programs, December 2006

U - Analyte not detected above the laboratory MDL

J - Estimated value

NS - No standard established

Bold text indicates compounds above the laboratory MDL

Green highlighting indicates exceedance of Unrestricted Use SCO

Yellow highlighting indicates exceedance of Restricted Residential SCO

Table 6
Leaching Structure Soil/Sediment Sample Analytical Data Summary
Volatile Organic Compounds
Former Darby Drugs Distribution Center

| SAMPLE ID | Unrestricted SCO ¹ | Restricted Residential SCO ² | PWG-DW-2008-10 L0813344-13 9/8/2008 6.25-6.75 | PWG-DW-2008-11 L0813344-14 9/8/2008 6.75-7.25 | PWG-DW-2008-12 L0813344-15 9/8/2008 7.25-7.75 | PWG-DW-2008-13 L0813344-16 9/8/2008 7.25-7.75 | PWG-DW-2008-14 L0813344-17 9/8/2008 6-6.5 | PWG-DW-2008-15 L0813344-18 9/8/2008 7-7.5 | PWG-DW-2008-16 L0813344-21 9/8/2008 5.5-6 | PWG-DW-2008-17 L0813344-22 9/8/2008 5.5-6 |
|--------------------------------|----------------------------------|---|--|--|--|--|--|--|--|--|
| Volatile Organics by EPA 8260B | | | | | | | | | | |
| Tetrachloroethene | 1,300 | 19,000 | 20 | 3.1 U | 3 U | 2.9 U | 3.6 U | 120 | 30 | 190 |
| Trichloroethene | 470 | 21,000 | 3.5 U | 3.1 U | 3 U | 2.9 U | 3.6 U | 11 J | 2.9 U | 14 |
| cis-1,2-Dichloroethene | 250 | 100,000 | 3.5 U | 3.1 U | 3 U | 2.9 U | 3.6 U | 28 J | 3.0 | 86 |
| trans-1,2-Dichloroethene | 190 | 100,000 | 5.3 U | 4.7 U | 4.5 U | 4.4 U | 5.4 U | 4.5 U | 4.4 U | 4.6 U |
| 1,1-Dichloroethene | 330 | 100,000 | 3.5 U | 3.1 U | 3 U | 2.9 U | 3.6 U | 3 U | 2.9 U | 3 U |
| Vinyl chloride | 20 | 900 | 7 U | 6.2 U | 6 U | 5.8 U | 7.2 U | 26 J | 5.8 U | 6.1 U |
| 1,1,1,2-Tetrachloroethane | NS | NS | 3.5 U | 3.1 U | 3 U | 2.9 U | 3.6 U | 3 U | 2.9 U | 3 U |
| 1,1,1-Trichloroethane | 680 | 100,000 | 3.5 U | 5.3 | 3 U | 2.9 U | 3.6 U | 3 U | 2.9 U | 3 U |
| 1,1,2,2-Tetrachloroethane | NS | NS | 3.5 U | 3.1 U | 3 U | 2.9 U | 3.6 U | 3 U | 2.9 U | 3 U |
| 1,1,2-Trichloroethane | NS | NS | 5.3 U | 4.7 U | 4.5 U | 4.4 U | 5.4 U | 4.5 U | 4.4 U | 4.6 U |
| 1,1-Dichloroethane | 270 | 26,000 | 5.3 U | 4.7 U | 4.5 U | 4.4 U | 5.4 U | 4.5 U | 4.4 U | 4.6 U |
| 1,1-Dichloropropene | NS | NS | 18 U | 16 U | 15 U | 14 U | 18 U | 15 U | 14 U | 15 U |
| 1,2,3-Trichlorobenzene | NS | NS | 18 U | 16 U | 15 U | 14 U | 18 U | 15 U | 14 U | 15 U |
| 1,2,3-Trichloropropane | NS | NS | 35 U | 31 U | 30 U | 29 U | 36 U | 30 UJ | 29 U | 30 U |
| 1,2,4,5-Tetramethylbenzene | NS | NS | 14 U | 12 U | 12 U | 12 U | 14 U | 12 U | 12 U | 12 U |
| 1,2,4-Trichlorobenzene | NS | NS | 18 U | 16 U | 15 U | 14 U | 18 U | 15 U | 14 U | 15 U |
| 1,2,4-Trimethylbenzene | 3,600 | 52,000 | 18 U | 16 U | 15 U | 14 U | 18 U | 15 U | 14 U | 15 U |
| 1,2-Dibromo-3-chloropropane | NS | NS | 18 U | 16 U | 15 U | 14 U | 18 U | 15 U | 14 U | 15 U |
| 1,2-Dibromoethane | NS | NS | 14 U | 12 U | 12 U | 12 U | 14 U | 12 U | 12 U | 12 U |
| 1,2-Dichlorobenzene | 1,100 | 100,000 | 18 U | 16 U | 15 U | 14 U | 18 U | 15 U | 14 U | 15 U |
| 1,2-Dichloroethane | 20 | 3,100 | 3.5 U | 3.1 U | 3 U | 2.9 U | 3.6 U | 3 U | 2.9 U | 3 U |
| 1,2-Dichloropropane | NS | NS | 12 U | 11 U | 10 U | 10 U | 13 U | 10 U | 10 U | 11 U |
| 1,3,5-Trimethylbenzene | 8,400 | 52,000 | 18 U | 16 U | 15 U | 14 U | 18 U | 15 U | 14 U | 15 U |
| 1,3-Dichlorobenzene | 2,400 | 49,000 | 18 U | 16 U | 15 U | 14 U | 18 U | 15 U | 14 U | 15 U |
| 1,3-Dichloropropane | NS | NS | 18 U | 16 U | 15 U | 14 U | 18 U | 15 U | 14 U | 15 U |
| 1,4-Dichlorobenzene | 1,800 | 13,000 | 18 U | 16 U | 15 U | 14 U | 18 U | 15 U | 14 U | 15 U |
| 1,4-Diethylbenzene | NS | NS | 14 U | 12 U | 12 U | 12 U | 14 U | 12 U | 12 U | 12 U |
| 2,2-Dichloropropane | NS | NS | 18 U | 16 U | 15 U | 14 U | 18 U | 15 U | 14 U | 15 U |
| 2-Butanone | 120 | 100,000 | 35 U | 31 U | 30 U | 29 U | 36 U | 30 U | 29 U | 30 U |
| 2-Hexanone | NS | NS | 35 U | 31 U | 30 U | 29 U | 36 U | 30 U | 29 U | 30 U |
| 4-Ethyltoluene | NS | NS | 14 U | 12 U | 12 U | 12 U | 14 U | 12 U | 12 U | 12 U |
| 4-Methyl-2-pentanone | NS | NS | 35 U | 31 U | 30 U | 29 U | 36 U | 30 U | 29 U | 30 U |
| Acetone | 50 | 100,000 | 67 | 31 U | 30 U | 29 U | 42 | 30 U | 29 U | 30 U |
| Acrylonitrile | NS | NS | 35 U | 31 U | 30 U | 29 U | 36 U | 30 U | 29 U | 30 U |
| Benzene | 60 | 4,800 | 3.5 U | 3.1 U | 3 U | 2.9 U | 3.6 U | 3 U | 2.9 U | 3 U |
| Bromobenzene | NS | NS | 18 U | 16 U | 15 U | 14 U | 18 U | 15 U | 14 U | 15 U |
| Bromochloromethane | NS | NS | 18 U | 16 U | 15 U | 14 U | 18 U | 15 U | 14 U | 15 U |
| Bromodichloromethane | NS | NS | 3.5 U | 3.1 U | 3 U | 2.9 U | 3.6 U | 3 U | 2.9 U | 3 U |
| Bromoform | NS | NS | 14 U | 12 U | 12 U | 12 U | 14 U | 12 U | 12 U | 12 U |
| Bromomethane | NS | NS | 7 U | 6.2 U | 6 U | 5.8 U | 7.2 U | 6 U | 5.8 U | 6.1 U |
| Carbon disulfide | NS | NS | 35 U | 31 U | 30 U | 29 U | 36 U | 30 U | 29 U | 30 U |
| Carbon tetrachloride | 760 | 2,400 | 3.5 U | 3.1 U | 3 U | 2.9 U | 3.6 U | 3 U | 2.9 U | 3 U |
| Chlorobenzene | 1,100 | 100,000 | 3.5 U | 3.1 U | 3 U | 2.9 U | 3.6 U | 3 U | 2.9 U | 3 U |
| Chloroethane | NS | NS | 7 U | 6.2 U | 6 U | 5.8 U | 7.2 U | 6 U | 5.8 U | 6.1 U |
| Chloroform | 370 | 49,000 | 5.3 U | 4.7 U | 4.5 U | 4.4 U | 5.4 U | 4.5 U | 4.4 U | 4.6 U |
| Chloromethane | NS | NS | 18 U | 16 U | 15 U | 14 U | 18 U | 15 U | 14 U | 15 U |
| cis-1,3-Dichloropropene | NS | NS | 3.5 U | 3.1 U | 3 U | 2.9 U | 3.6 U | 3 U | 2.9 U | 3 U |
| Dibromochloromethane | NS | NS | 3.5 U | 3.1 U | 3 U | 2.9 U | 3.6 U | 3 U | 2.9 U | 3 U |
| Dibromomethane | NS | NS | 35 U | 31 U | 30 U | 29 U | 36 U | 30 U | 29 U | 30 U |
| Dichlorodifluoromethane | NS | NS | 35 U | 31 U | 30 U | 29 U | 36 U | 30 UJ | 29 U | 30 U |
| Ethylbenzene | 1,000 | 41,000 | 3.5 U | 3.1 U | 3 U | 2.9 U | 3.6 U | 3 U | 2.9 U | 3 U |
| Hexachlorobutadiene | NS | NS | 18 U | 16 U | 15 U | 14 U | 18 U | 15 U | 14 U | 15 U |
| Isopropylbenzene | NS | NS | 3.5 U | 3.1 U | 3 U | 2.9 U | 3.6 U | 3 U | 2.9 U | 3 U |
| Methyl tert butyl ether | 930 | 100,000 | 7 U | 6.2 U | 6 U | 5.8 U | 7.2 U | 6 U | 5.8 U | 6.1 U |
| Methylene chloride | 50 | 100,000 | 35 U | 31 U | 30 U | 29 U | 36 U | 30 U | 29 U | 30 U |
| Naphthalene | NS | NS | 3.5 U | 3.1 U | 3 U | 2.9 U | 3.6 U | 3 U | 2.9 U | 3 U |
| n-Butylbenzene | 12,000 | NS | 3.5 U | 3.1 U | 3 U | 2.9 U | 3.6 U | 3 U | 2.9 U | 3 U |
| n-Propylbenzene | 3,900 | 100,000 | 18 U | 16 U | 15 U | 14 U | 18 U | 15 U | 14 U | 15 U |
| o-Chlorotoluene | NS | NS | 18 U | 16 U | 15 U | 14 U | 18 U | 15 U | 14 U | 15 U |
| o-Xylene | 260 | 100,000 | 7 U | 6.2 U | 6 U | 5.8 U | 7.2 U | 6 U | 5.8 U | 6.1 U |
| p/m-Xylene | 260 | 100,000 | 18 U | 16 U | 15 U | 14 U | 18 U | 15 U | 14 U | 15 U |
| p-Chlorotoluene | NS | NS | 3.5 U | 3.1 U | 3 U | 2.9 U | 3.6 U | 3 U | 2.9 U | 3 U |
| p-Isopropyltoluene | NS | NS | 7 U | 6.2 U | 6 U | 5.8 U | 7.2 U | 6 U | 5.8 U | 6.1 U |
| sec-Butylbenzene | 11,000 | 100,000 | 3.5 U | 3.1 U | 3 U | 2.9 U | 3.6 U | 3 U | 2.9 U | 3 U |
| Styrene | NS | NS | 7 U | 6.2 U | 6 U | 5.8 U | 7.2 U | 6 U | 5.8 U | 6.1 U |
| tert-Butylbenzene | 5,900 | NS | 18 U | 16 U | 15 U | 14 U | 18 U | 15 U | 14 U | 15 U |
| Toluene | 700 | 100,000 | 5.3 U | 4.7 U | 4.5 U | 4.4 U | 25 | 4.5 U | 4.4 U | 4.6 U |
| trans-1,3-Dichloropropene | NS | 100,000 | 3.5 U | 3.1 U | 3 U | 2.9 U | 3.6 U | 3 U | 2.9 U | 3 U |
| Trichlorofluoromethane | NS | NS | 18 U | 16 U | 15 U | 14 U | 18 U | 15 U | 14 U | 15 U |
| Vinyl acetate | NS | NS | 35 U | 31 U | 30 U | 29 U | 36 U | 30 U | 29 U | 30 U |

Notes:

All concentrations are µg/kg (ppb)

¹Unrestricted Use Soil Cleanup Objectives (SCO) 6 NYCRR Part 375, Environ

²Restricted-Residential Soil Cleanup Objectives (SCO) 6 NYCRR Part 375, Ei

U - Analyte not detected above the laboratory MDL

J - Estimated value

NS - No standard established

Bold text indicates compounds above the laboratory MDL

Green highlighting indicates exceedance of Unrestricted Use SCO

Yellow highlighting indicates exceedance of Restricted Residential SCO

Table 6
Leaching Structure Soil/Sediment Sample Analytical Data Summary
Volatile Organic Compounds
Former Darby Drugs Distribution Center

| SAMPLE ID | Unrestricted SCO ¹ | Restricted Residential SCO ² | PWG-DW-2008-18 L0813344-23 9/8/2008 4-4.5 | PWG-DW-2008-19 L0813344-24 9/8/2008 4.5-5 | PWG-DW-2008-20 L0813344-25 9/8/2008 4.5-5 | PWG-DW-2008-22 L0813344-26 9/8/2008 5.25-5.75 | PWG-DW-2008-23 L0813344-27 9/8/2008 3-3.5 | PWG-DW-2008-24 L0813344-28 9/8/2008 6-6.5 | PWG-DW-2008-25 L0813344-29 9/8/2008 5.75-6.25 | PWG-DW-2008-26 L0813344-30 9/8/2008 4.25-4.75 |
|--------------------------------|----------------------------------|---|--|--|--|--|--|--|--|--|
| Volatile Organics by EPA 8260B | | | | | | | | | | |
| Tetrachloroethene | 1,300 | 19,000 | 18 | 82 | 3.5 | 2.9 | 3.2 | 3.3 | 3.1 | 3 |
| Trichloroethene | 470 | 21,000 | 3.2 | 3 | 3.5 | 2.9 | 3.2 | 3.3 | 3.1 | 3 |
| cis-1,2-Dichloroethene | 250 | 100,000 | 3.2 | 3 | 3.5 | 2.9 | 3.2 | 3.3 | 3.1 | 3 |
| trans-1,2-Dichloroethene | 190 | 100,000 | 4.8 | 4.5 | 5.3 | 4.3 | 4.7 | 5 | 4.7 | 4.5 |
| 1,1-Dichloroethene | 330 | 100,000 | 3.2 | 3 | 3.5 | 2.9 | 3.2 | 3.3 | 3.1 | 3 |
| Vinyl chloride | 20 | 900 | 6.4 | 6 | 7 | 5.7 | 6.3 | 6.7 | 6.2 | 6 |
| 1,1,1,2-Tetrachloroethane | NS | NS | 3.2 | 3 | 3.5 | 2.9 | 3.2 | 3.3 | 3.1 | 3 |
| 1,1,1-Trichloroethane | 680 | 100,000 | 3.2 | 3 | 3.5 | 2.9 | 3.2 | 3.3 | 3.1 | 3 |
| 1,1,2,2-Tetrachloroethane | NS | NS | 3.2 | 3 | 3.5 | 2.9 | 3.2 | 3.3 | 3.1 | 3 |
| 1,1,2-Trichloroethane | NS | NS | 4.8 | 4.5 | 5.3 | 4.3 | 4.7 | 5 | 4.7 | 4.5 |
| 1,1-Dichloroethane | 270 | 26,000 | 4.8 | 4.5 | 5.3 | 4.3 | 4.7 | 5 | 4.7 | 4.5 |
| 1,1-Dichloropropene | NS | NS | 16 | 15 | 18 | 14 | 16 | 17 | 16 | 15 |
| 1,2,3-Trichlorobenzene | NS | NS | 16 | 15 | 18 | 14 | 16 | 17 | 16 | 15 |
| 1,2,3-Trichloropropane | NS | NS | 32 | 30 | 35 | 29 | 32 | 33 | 31 | 30 |
| 1,2,4,5-Tetramethylbenzene | NS | NS | 13 | 12 | 14 | 11 | 13 | 13 | 12 | 12 |
| 1,2,4-Trichlorobenzene | NS | NS | 16 | 15 | 18 | 14 | 16 | 17 | 16 | 15 |
| 1,2,4-Trimethylbenzene | 3,600 | 52,000 | 16 | 15 | 18 | 14 | 16 | 17 | 16 | 15 |
| 1,2-Dibromo-3-chloropropane | NS | NS | 16 | 15 | 18 | 14 | 16 | 17 | 16 | 15 |
| 1,2-Dibromoethane | NS | NS | 13 | 12 | 14 | 11 | 13 | 13 | 12 | 12 |
| 1,2-Dichlorobenzene | 1,100 | 100,000 | 16 | 15 | 18 | 14 | 16 | 17 | 16 | 15 |
| 1,2-Dichloroethane | 20 | 3,100 | 3.2 | 3 | 3.5 | 2.9 | 3.2 | 3.3 | 3.1 | 3 |
| 1,2-Dichloropropane | NS | NS | 11 | 10 | 12 | 10 | 11 | 12 | 11 | 10 |
| 1,3,5-Trimethylbenzene | 8,400 | 52,000 | 16 | 15 | 18 | 14 | 16 | 17 | 16 | 15 |
| 1,3-Dichlorobenzene | 2,400 | 49,000 | 16 | 15 | 18 | 14 | 16 | 17 | 16 | 15 |
| 1,3-Dichloropropane | NS | NS | 16 | 15 | 18 | 14 | 16 | 17 | 16 | 15 |
| 1,4-Dichlorobenzene | 1,800 | 13,000 | 16 | 15 | 18 | 14 | 16 | 17 | 16 | 15 |
| 1,4-Diethylbenzene | NS | NS | 13 | 12 | 14 | 11 | 13 | 13 | 12 | 12 |
| 2,2-Dichloropropane | NS | NS | 16 | 15 | 18 | 14 | 16 | 17 | 16 | 15 |
| 2-Butanone | 120 | 100,000 | 32 | 30 | 35 | 29 | 32 | 33 | 31 | 30 |
| 2-Hexanone | NS | NS | 32 | 30 | 35 | 29 | 32 | 33 | 31 | 30 |
| 4-Ethyltoluene | NS | NS | 13 | 12 | 14 | 11 | 13 | 13 | 12 | 12 |
| 4-Methyl-2-pentanone | NS | NS | 32 | 30 | 35 | 29 | 32 | 33 | 31 | 30 |
| Acetone | 50 | 100,000 | 32 | 30 | 35 | 29 | 32 | 33 | 31 | 30 |
| Acrylonitrile | NS | NS | 32 | 30 | 35 | 29 | 32 | 33 | 31 | 30 |
| Benzene | 60 | 4,800 | 3.2 | 3 | 3.5 | 2.9 | 3.2 | 3.3 | 3.1 | 3 |
| Bromobenzene | NS | NS | 16 | 15 | 18 | 14 | 16 | 17 | 16 | 15 |
| Bromochloromethane | NS | NS | 16 | 15 | 18 | 14 | 16 | 17 | 16 | 15 |
| Bromodichloromethane | NS | NS | 3.2 | 3 | 3.5 | 2.9 | 3.2 | 3.3 | 3.1 | 3 |
| Bromoform | NS | NS | 13 | 12 | 14 | 11 | 13 | 13 | 12 | 12 |
| Bromomethane | NS | NS | 6.4 | 6 | 7 | 5.7 | 6.3 | 6.7 | 6.2 | 6 |
| Carbon disulfide | NS | NS | 32 | 30 | 35 | 29 | 32 | 33 | 31 | 30 |
| Carbon tetrachloride | 760 | 2,400 | 3.2 | 3 | 3.5 | 2.9 | 3.2 | 3.3 | 3.1 | 3 |
| Chlorobenzene | 1,100 | 100,000 | 3.2 | 3 | 3.5 | 2.9 | 3.2 | 3.3 | 3.1 | 3 |
| Chloroethane | NS | NS | 6.4 | 6 | 7 | 5.7 | 6.3 | 6.7 | 6.2 | 6 |
| Chloroform | 370 | 49,000 | 4.8 | 4.5 | 5.3 | 4.3 | 4.7 | 5 | 4.7 | 4.5 |
| Chloromethane | NS | NS | 16 | 15 | 18 | 14 | 16 | 17 | 16 | 15 |
| cis-1,3-Dichloropropene | NS | NS | 3.2 | 3 | 3.5 | 2.9 | 3.2 | 3.3 | 3.1 | 3 |
| Dibromochloromethane | NS | NS | 3.2 | 3 | 3.5 | 2.9 | 3.2 | 3.3 | 3.1 | 3 |
| Dibromomethane | NS | NS | 32 | 30 | 35 | 29 | 32 | 33 | 31 | 30 |
| Dichlorodifluoromethane | NS | NS | 32 | 30 | 35 | 29 | 32 | 33 | 31 | 30 |
| Ethylbenzene | 1,000 | 41,000 | 3.2 | 3 | 3.5 | 2.9 | 3.2 | 3.3 | 3.1 | 3 |
| Hexachlorobutadiene | NS | NS | 16 | 15 | 18 | 14 | 16 | 17 | 16 | 15 |
| Isopropylbenzene | NS | NS | 3.2 | 3 | 3.5 | 2.9 | 3.2 | 3.3 | 3.1 | 3 |
| Methyl tert butyl ether | 930 | 100,000 | 6.4 | 6 | 7 | 5.7 | 6.3 | 6.7 | 6.2 | 6 |
| Methylene chloride | 50 | 100,000 | 32 | 30 | 35 | 29 | 32 | 33 | 31 | 30 |
| Naphthalene | NS | NS | 3.2 | 3 | 3.5 | 2.9 | 3.2 | 3.3 | 3.1 | 3 |
| n-Butylbenzene | 12,000 | NS | 3.2 | 3 | 3.5 | 2.9 | 3.2 | 3.3 | 3.1 | 3 |
| n-Propylbenzene | 3,900 | 100,000 | 16 | 15 | 18 | 14 | 16 | 17 | 16 | 15 |
| o-Chlorotoluene | NS | NS | 16 | 15 | 18 | 14 | 16 | 17 | 16 | 15 |
| o-Xylene | 260 | 100,000 | 6.4 | 6 | 7 | 5.7 | 6.3 | 6.7 | 6.2 | 6 |
| p/m-Xylene | 260 | 100,000 | 16 | 15 | 18 | 14 | 16 | 17 | 16 | 15 |
| p-Chlorotoluene | NS | NS | 3.2 | 3 | 3.5 | 2.9 | 3.2 | 3.3 | 3.1 | 3 |
| p-Isopropyltoluene | NS | NS | 6.4 | 6 | 7 | 5.7 | 6.3 | 6.7 | 6.2 | 6 |
| sec-Butylbenzene | 11,000 | 100,000 | 3.2 | 3 | 3.5 | 2.9 | 3.2 | 3.3 | 3.1 | 3 |
| Styrene | NS | NS | 6.4 | 6 | 7 | 5.7 | 6.3 | 6.7 | 6.2 | 6 |
| tert-Butylbenzene | 5,900 | NS | 16 | 15 | 18 | 14 | 16 | 17 | 16 | 15 |
| Toluene | 700 | 100,000 | 4.8 | 4.5 | 5.3 | 4.3 | 4.7 | 5 | 4.7 | 4.5 |
| trans-1,3-Dichloropropene | NS | 100,000 | 3.2 | 3 | 3.5 | 2.9 | 3.2 | 3.3 | 3.1 | 3 |
| Trichlorofluoromethane | NS | NS | 16 | 15 | 18 | 14 | 16 | 17 | 16 | 15 |
| Vinyl acetate | NS | NS | 32 | 30 | 35 | 29 | 32 | 33 | 31 | 30 |

Notes:

All concentrations are µg/kg (ppb)

¹Unrestricted Use Soil Cleanup Objectives (SCO) 6 NYCRR Part 375, Environ

²Restricted-Residential Soil Cleanup Objectives (SCO) 6 NYCRR Part 375, Ei

U - Analyte not detected above the laboratory MDL

J - Estimated value

NS - No standard established

Bold text indicates compounds above the laboratory MDL

Green highlighting indicates exceedance of Unrestricted Use SCO

Yellow highlighting indicates exceedance of Restricted Residential SCO

Table 6
Leaching Structure Soil/Sediment Sample Analytical Data Summary
Volatile Organic Compounds
Former Darby Drugs Distribution Center

| SAMPLE ID LAB SAMPLE ID SAMPLING DATE SAMPLE DEPTH (ft.) | Unrestricted SCO ¹ | Restricted Residential SCO ² | PWG-DW-2008-27 L0813447-02 9/10/2008 12.5-13 | PWG-DW-2008-28 L0813447-03 9/10/2008 12-12.5 | PWG-DW-2008-29 L0813447-04 9/10/2008 10-10.5 | PWG-DW-2008-30 L0813447-05 9/10/2008 8-5.9 | PWG-DW-2008-31 L0813447-06 9/10/2008 8-8.5 | PWG-DW-2008-33 L0813447-07 9/10/2008 7-7.5 | PWG-DW-2008-34 L0813447-08 9/10/2008 5.5-6 | PWG-DW-2008-37 L0813447-09 9/10/2008 11-11.5 |
|---|----------------------------------|---|---|---|---|---|---|---|---|---|
| Volatile Organics by EPA 8260B | | | | | | | | | | |
| Tetrachloroethene | 1,300 | 19,000 | 3.2 U | 3.7 U | 3.3 U | 5.1 U | 3.7 U | 3.6 U | 3.8 U | 4.6 U |
| Trichloroethene | 470 | 21,000 | 3.2 U | 3.7 U | 3.3 U | 5.1 U | 3.7 U | 3.6 U | 3.8 U | 4.6 U |
| cis-1,2-Dichloroethene | 250 | 100,000 | 3.2 U | 3.7 U | 3.3 U | 5.1 U | 3.7 U | 3.6 U | 3.8 U | 4.6 U |
| trans-1,2-Dichloroethene | 190 | 100,000 | 4.8 U | 5.5 U | 4.9 U | 7.6 U | 5.5 U | 5.4 U | 5.7 U | 6.9 U |
| 1,1-Dichloroethene | 330 | 100,000 | 3.2 U | 3.7 U | 3.3 U | 5.1 U | 3.7 U | 3.6 U | 3.8 U | 4.6 U |
| Vinyl chloride | 20 | 900 | 6.4 U | 7.4 U | 6.6 U | 10 U | 7.4 U | 7.2 U | 7.6 U | 9.2 U |
| 1,1,1,2-Tetrachloroethane | NS | NS | 3.2 U | 3.7 U | 3.3 U | 5.1 U | 3.7 U | 3.6 U | 3.8 U | 4.6 U |
| 1,1,1-Trichloroethane | 680 | 100,000 | 3.2 U | 3.7 U | 3.3 U | 5.1 U | 3.7 U | 3.6 U | 3.8 U | 4.6 U |
| 1,1,2,2-Tetrachloroethane | NS | NS | 3.2 U | 3.7 U | 3.3 U | 5.1 U | 3.7 U | 3.6 U | 3.8 U | 4.6 U |
| 1,1,2-Trichloroethane | NS | NS | 4.8 U | 5.5 U | 4.9 U | 7.6 U | 5.5 U | 5.4 U | 5.7 U | 6.9 U |
| 1,1-Dichloroethane | 270 | 26,000 | 4.8 U | 5.5 U | 4.9 U | 7.6 U | 5.5 U | 5.4 U | 5.7 U | 6.9 U |
| 1,1-Dichloropropene | NS | NS | 16 U | 18 U | 16 U | 26 U | 18 U | 18 U | 19 U | 23 U |
| 1,2,3-Trichlorobenzene | NS | NS | 16 U | 18 U | 16 U | 26 U | 18 U | 18 U | 19 U | 23 U |
| 1,2,3-Trichloropropane | NS | NS | 32 U | 37 U | 33 U | 51 U | 37 U | 36 U | 38 U | 46 U |
| 1,2,4,5-Tetramethylbenzene | NS | NS | 13 U | 15 U | 13 U | 20 U | 15 U | 14 U | 15 U | 18 U |
| 1,2,4-Trichlorobenzene | NS | NS | 16 U | 18 U | 16 U | 26 U | 18 U | 18 U | 19 U | 23 U |
| 1,2,4-Trimethylbenzene | 3,600 | 52,000 | 16 U | 18 U | 16 U | 26 U | 18 U | 18 U | 19 U | 23 U |
| 1,2-Dibromo-3-chloropropane | NS | NS | 16 U | 18 U | 16 U | 26 U | 18 U | 18 U | 19 U | 23 U |
| 1,2-Dibromomethane | NS | NS | 13 U | 15 U | 13 U | 20 U | 15 U | 14 U | 15 U | 18 U |
| 1,2-Dichlorobenzene | 1,100 | 100,000 | 16 U | 18 U | 16 U | 26 U | 18 U | 18 U | 19 U | 23 U |
| 1,2-Dichloroethane | 20 | 3,100 | 3.2 U | 3.7 U | 3.3 U | 5.1 U | 3.7 U | 3.6 U | 3.8 U | 4.6 U |
| 1,2-Dichloropropane | NS | NS | 11 U | 13 U | 12 U | 18 U | 13 U | 13 U | 13 U | 16 U |
| 1,3,5-Trimethylbenzene | 8,400 | 52,000 | 16 U | 18 U | 16 U | 26 U | 18 U | 18 U | 19 U | 23 U |
| 1,3-Dichlorobenzene | 2,400 | 49,000 | 16 U | 18 U | 16 U | 26 U | 18 U | 18 U | 19 U | 23 U |
| 1,3-Dichloropropane | NS | NS | 16 U | 18 U | 16 U | 26 U | 18 U | 18 U | 19 U | 23 U |
| 1,4-Dichlorobenzene | 1,800 | 13,000 | 16 U | 18 U | 16 U | 26 U | 18 U | 18 U | 19 U | 23 U |
| 1,4-Diethylbenzene | NS | NS | 13 U | 15 U | 13 U | 20 U | 15 U | 14 U | 15 U | 18 U |
| 2,2-Dichloropropane | NS | NS | 16 U | 18 U | 16 U | 26 U | 18 U | 18 U | 19 U | 23 U |
| 2-Butanone | 120 | 100,000 | 32 U | 37 U | 33 U | 51 U | 37 U | 36 U | 38 U | 46 U |
| 2-Hexanone | NS | NS | 32 U | 37 U | 33 U | 51 U | 37 U | 36 U | 38 U | 46 U |
| 4-Ethyltoluene | NS | NS | 13 U | 15 U | 13 U | 20 U | 15 U | 14 U | 15 U | 18 U |
| 4-Methyl-2-pentanone | NS | NS | 32 U | 37 U | 33 U | 51 U | 37 U | 36 U | 38 U | 46 U |
| Acetone | 50 | 100,000 | 32 U | 37 U | 33 U | 70 | 37 U | 43 | 48 | 67 |
| Acrylonitrile | NS | NS | 32 U | 37 U | 33 U | 51 U | 37 U | 36 U | 38 U | 46 U |
| Benzene | 60 | 4,800 | 3.2 U | 3.7 U | 3.3 U | 5.1 U | 3.7 U | 3.6 U | 3.8 U | 4.6 U |
| Bromobenzene | NS | NS | 16 U | 18 U | 16 U | 26 U | 18 U | 18 U | 19 U | 23 U |
| Bromochloromethane | NS | NS | 16 U | 18 U | 16 U | 26 U | 18 U | 18 U | 19 U | 23 U |
| Bromodichloromethane | NS | NS | 3.2 U | 3.7 U | 3.3 U | 5.1 U | 3.7 U | 3.6 U | 3.8 U | 4.6 U |
| Bromoform | NS | NS | 13 U | 15 U | 13 U | 20 U | 15 U | 14 U | 15 U | 18 U |
| Bromomethane | NS | NS | 6.4 U | 7.4 U | 6.6 U | 10 U | 7.4 U | 7.2 U | 7.6 U | 9.2 U |
| Carbon disulfide | NS | NS | 32 U | 37 U | 33 U | 51 U | 37 U | 36 U | 38 U | 46 U |
| Carbon tetrachloride | 760 | 2,400 | 3.2 U | 3.7 U | 3.3 U | 5.1 U | 3.7 U | 3.6 U | 3.8 U | 4.6 U |
| Chlorobenzene | 1,100 | 100,000 | 3.2 U | 3.7 U | 3.3 U | 5.1 U | 3.7 U | 3.6 U | 3.8 U | 4.6 U |
| Chloroethane | NS | NS | 6.4 U | 7.4 U | 6.6 U | 10 U | 7.4 U | 7.2 U | 7.6 U | 9.2 U |
| Chloroform | 370 | 49,000 | 4.8 U | 5.5 U | 4.9 U | 7.6 U | 5.5 U | 5.4 U | 5.7 U | 6.9 U |
| Chloromethane | NS | NS | 16 U | 18 U | 16 U | 26 U | 18 U | 18 U | 19 U | 23 U |
| cis-1,3-Dichloropropene | NS | NS | 3.2 U | 3.7 U | 3.3 U | 5.1 U | 3.7 U | 3.6 U | 3.8 U | 4.6 U |
| Dibromochloromethane | NS | NS | 3.2 U | 3.7 U | 3.3 U | 5.1 U | 3.7 U | 3.6 U | 3.8 U | 4.6 U |
| Dibromomethane | NS | NS | 32 U | 37 U | 33 U | 51 U | 37 U | 36 U | 38 U | 46 U |
| Dichlorodifluoromethane | NS | NS | 32 U | 37 U | 33 U | 51 U | 37 U | 36 U | 38 U | 46 U |
| Ethylbenzene | 1,000 | 41,000 | 3.2 U | 3.7 U | 3.3 U | 5.1 U | 3.7 U | 3.6 U | 3.8 U | 4.6 U |
| Hexachlorobutadiene | NS | NS | 16 U | 18 U | 16 U | 26 U | 18 U | 18 U | 19 U | 23 U |
| Isopropylbenzene | NS | NS | 3.2 U | 3.7 U | 3.3 U | 5.1 U | 3.7 U | 3.6 U | 3.8 U | 4.6 U |
| Methyl tert butyl ether | 930 | 100,000 | 6.4 U | 7.4 U | 6.6 U | 10 U | 7.4 U | 7.2 U | 7.6 U | 9.2 U |
| Methylene chloride | 50 | 100,000 | 32 U | 37 U | 33 U | 51 U | 37 U | 36 U | 38 U | 46 U |
| Naphthalene | NS | NS | 3.2 U | 3.7 U | 3.3 U | 5.1 U | 3.7 U | 3.6 U | 3.8 U | 4.6 U |
| n-Butylbenzene | 12,000 | NS | 3.2 U | 3.7 U | 3.3 U | 5.1 U | 3.7 U | 3.6 U | 3.8 U | 4.6 U |
| n-Propylbenzene | 3,900 | 100,000 | 16 U | 18 U | 16 U | 26 U | 18 U | 18 U | 19 U | 23 U |
| o-Chlorotoluene | NS | NS | 16 U | 18 U | 16 U | 26 U | 18 U | 18 U | 19 U | 23 U |
| o-Xylene | 260 | 100,000 | 6.4 U | 7.4 U | 6.6 U | 10 U | 7.4 U | 7.2 U | 7.6 U | 9.2 U |
| p/m-Xylene | 260 | 100,000 | 16 U | 18 U | 16 U | 26 U | 18 U | 18 U | 19 U | 23 U |
| p-Chlorotoluene | NS | NS | 3.2 U | 3.7 U | 3.3 U | 11 | 3.7 U | 3.6 U | 3.8 U | 4.6 U |
| p-Isopropyltoluene | NS | NS | 6.4 U | 7.4 U | 6.6 U | 10 U | 7.4 U | 7.2 U | 7.6 U | 9.2 U |
| sec-Butylbenzene | 11,000 | 100,000 | 3.2 U | 3.7 U | 3.3 U | 5.1 U | 3.7 U | 3.6 U | 3.8 U | 4.6 U |
| Styrene | NS | NS | 6.4 U | 7.4 U | 6.6 U | 10 U | 7.4 U | 7.2 U | 7.6 U | 9.2 U |
| tert-Butylbenzene | 5,900 | NS | 16 U | 18 U | 16 U | 26 U | 18 U | 18 U | 19 U | 23 U |
| Toluene | 700 | 100,000 | 4.8 U | 5.5 U | 4.9 U | 7.6 U | 5.5 U | 5.4 U | 5.7 U | 6.9 U |
| trans-1,3-Dichloropropene | NS | 100,000 | 3.2 U | 3.7 U | 3.3 U | 5.1 U | 3.7 U | 3.6 U | 3.8 U | 4.6 U |
| Trichlorofluoromethane | NS | NS | 16 U | 18 U | 16 U | 26 U | 18 U | 18 U | 19 U | 23 U |
| Vinyl acetate | NS | NS | 32 U | 37 U | 33 U | 51 U | 37 U | 36 U | 38 U | 46 U |

Notes:

All concentrations are µg/kg (ppb)

¹Unrestricted Use Soil Cleanup Objectives (SCO) 6 NYCRR Part 375, Environ

²Restricted-Residential Soil Cleanup Objectives (SCO) 6 NYCRR Part 375, Ei

U - Analyte not detected above the laboratory MDL

J - Estimated value

NS - No standard established

Bold text indicates compounds above the laboratory MDL

Green highlighting indicates exceedance of Unrestricted Use SCO

Yellow highlighting indicates exceedance of Restricted Residential SCO

Table 6
Leaching Structure Soil/Sediment Sample Analytical Data Summary
Volatile Organic Compounds
Former Darby Drugs Distribution Center

| SAMPLE ID | Unrestricted SCO ¹ | Restricted Residential SCO ² | PWG-DW-2008-38 L0813447-11 9/10/2008 7-7.5 | PWG-DW-2008-39 L0813447-12 9/10/2008 8.5-9 | PWG-DW-2008-40 L0813447-13 9/10/2008 6-6.5 | PWG-DW-2008-41 L0813447-14 9/10/2008 9-9.5 | PWG-LP-2008-01 L0813344-20 9/8/2008 7.75-8.25 | PWG-LP-2008-01 L0814755-01 10/3/2008 9-11 |
|--------------------------------|----------------------------------|---|---|---|---|---|--|--|
| Volatile Organics by EPA 8260B | | | | | | | | |
| Tetrachloroethene | 1,300 | 19,000 | 15 U | 3.6 U | 2.7 U | 3.2 U | 120 | 4.9 |
| Trichloroethene | 470 | 21,000 | 15 U | 3.6 U | 2.7 U | 3.2 U | 8.7 | 3.3 U |
| cis-1,2-Dichloroethene | 250 | 100,000 | 15 U | 3.6 U | 2.7 U | 3.2 U | 5.3 | 3.3 U |
| trans-1,2-Dichloroethene | 190 | 100,000 | 22 U | 5.4 U | 4.1 U | 4.7 U | 4.4 U | 4.9 U |
| 1,1-Dichloroethene | 330 | 100,000 | 15 U | 3.6 U | 2.7 U | 3.2 U | 2.9 U | 3.3 U |
| Vinyl chloride | 20 | 900 | 29 U | 7.1 U | 5.5 U | 6.3 U | 5.9 U | 6.6 U |
| 1,1,1,2-Tetrachloroethane | NS | NS | 15 U | 3.6 U | 2.7 U | 3.2 U | 2.9 U | 3.3 U |
| 1,1,1-Trichloroethane | 680 | 100,000 | 15 U | 3.6 U | 2.7 U | 3.2 U | 2.9 U | 3.3 U |
| 1,1,2,2-Tetrachloroethane | NS | NS | 15 U | 3.6 U | 2.7 U | 3.2 U | 2.9 U | 3.3 U |
| 1,1,2-Trichloroethane | NS | NS | 22 U | 5.4 U | 4.1 U | 4.7 U | 4.4 U | 4.9 U |
| 1,1-Dichloroethane | 270 | 26,000 | 22 U | 5.4 U | 4.1 U | 4.7 U | 4.4 U | 4.9 U |
| 1,1-Dichloropropene | NS | NS | 74 U | 18 U | 14 U | 16 U | 15 U | 16 U |
| 1,2,3-Trichlorobenzene | NS | NS | 74 U | 18 U | 14 U | 16 U | 15 U | 16 U |
| 1,2,3-Trichloropropane | NS | NS | 150 U | 36 U | 27 U | 32 U | 29 U | 33 U |
| 1,2,4,5-Tetramethylbenzene | NS | NS | 230 | 14 U | 11 U | 13 U | 12 U | 13 U |
| 1,2,4-Trichlorobenzene | NS | NS | 74 U | 18 U | 14 U | 16 U | 15 U | 16 U |
| 1,2,4-Trimethylbenzene | 3,600 | 52,000 | 74 U | 18 U | 14 U | 16 U | 15 U | 16 U |
| 1,2-Dibromo-3-chloropropane | NS | NS | 74 U | 18 U | 14 U | 16 U | 15 U | 16 U |
| 1,2-Dibromomethane | NS | NS | 59 U | 14 U | 11 U | 13 U | 12 U | 13 U |
| 1,2-Dichlorobenzene | 1,100 | 100,000 | 74 U | 18 U | 14 U | 16 U | 15 U | 16 U |
| 1,2-Dichloroethane | 20 | 3,100 | 15 U | 3.6 U | 2.7 U | 3.2 U | 2.9 U | 3.3 U |
| 1,2-Dichloropropane | NS | NS | 51 U | 12 U | 9.6 U | 11 U | 10 U | 12 U |
| 1,3,5-Trimethylbenzene | 8,400 | 52,000 | 74 U | 18 U | 14 U | 16 U | 15 U | 16 U |
| 1,3-Dichlorobenzene | 2,400 | 49,000 | 74 U | 18 U | 14 U | 16 U | 15 U | 16 U |
| 1,3-Dichloropropane | NS | NS | 74 U | 18 U | 14 U | 16 U | 15 U | 16 U |
| 1,4-Dichlorobenzene | 1,800 | 13,000 | 74 U | 18 U | 14 U | 16 U | 15 U | 16 U |
| 1,4-Diethylbenzene | NS | NS | 340 | 14 U | 11 U | 13 U | 12 U | 13 U |
| 2,2-Dichloropropane | NS | NS | 74 U | 18 U | 14 U | 16 U | 15 U | 16 U |
| 2-Butanone | 120 | 100,000 | 150 U | 36 U | 27 U | 32 U | 29 U | 33 U |
| 2-Hexanone | NS | NS | 150 U | 36 U | 27 U | 32 U | 29 U | 33 U |
| 4-Ethyltoluene | NS | NS | 59 U | 14 U | 11 U | 13 U | 12 U | 13 U |
| 4-Methyl-2-pentanone | NS | NS | 150 U | 36 U | 27 U | 32 U | 29 U | 33 U |
| Acetone | 50 | 100,000 | 320 | 74 | 27 U | 32 U | 29 U | 33 U |
| Acrylonitrile | NS | NS | 150 U | 36 U | 27 U | 32 U | 29 U | 33 U |
| Benzene | 60 | 4,800 | 15 U | 3.6 U | 2.7 U | 3.2 U | 2.9 U | 3.3 U |
| Bromobenzene | NS | NS | 74 U | 18 U | 14 U | 16 U | 15 U | 16 U |
| Bromochloromethane | NS | NS | 74 U | 18 U | 14 U | 16 U | 15 U | 16 U |
| Bromodichloromethane | NS | NS | 15 U | 3.6 U | 2.7 U | 3.2 U | 2.9 U | 3.3 U |
| Bromoform | NS | NS | 59 U | 14 U | 11 U | 13 U | 12 U | 13 U |
| Bromomethane | NS | NS | 29 U | 7.1 U | 5.5 U | 6.3 U | 5.9 U | 6.6 U |
| Carbon disulfide | NS | NS | 150 U | 36 U | 27 U | 32 U | 29 U | 33 U |
| Carbon tetrachloride | 760 | 2,400 | 15 U | 3.6 U | 2.7 U | 3.2 U | 2.9 U | 3.3 U |
| Chlorobenzene | 1,100 | 100,000 | 15 U | 3.6 U | 2.7 U | 3.2 U | 2.9 U | 3.3 U |
| Chloroethane | NS | NS | 29 U | 7.1 U | 5.5 U | 6.3 U | 5.9 U | 6.6 U |
| Chloroform | 370 | 49,000 | 22 U | 5.4 U | 4.1 U | 4.7 U | 4.4 U | 4.9 U |
| Chloromethane | NS | NS | 74 U | 18 U | 14 U | 16 U | 15 U | 16 U |
| cis-1,3-Dichloropropene | NS | NS | 15 U | 3.6 U | 2.7 U | 3.2 U | 2.9 U | 3.3 U |
| Dibromochloromethane | NS | NS | 15 U | 3.6 U | 2.7 U | 3.2 U | 2.9 U | 3.3 U |
| Dibromomethane | NS | NS | 150 U | 36 U | 27 U | 32 U | 29 U | 33 U |
| Dichlorodifluoromethane | NS | NS | 150 U | 36 U | 27 U | 32 U | 29 U | 33 U |
| Ethylbenzene | 1,000 | 41,000 | 15 U | 5 | 2.7 U | 3.2 U | 2.9 U | 3.3 U |
| Hexachlorobutadiene | NS | NS | 74 U | 18 U | 14 U | 16 U | 15 U | 16 U |
| Isopropylbenzene | NS | NS | 15 U | 3.6 U | 2.7 U | 3.2 U | 2.9 U | 3.3 U |
| Methyl tert butyl ether | 930 | 100,000 | 29 U | 7.1 U | 5.5 U | 6.3 U | 5.9 U | 6.6 U |
| Methylene chloride | 50 | 100,000 | 150 U | 36 U | 27 U | 32 U | 29 U | 33 U |
| Naphthalene | NS | NS | 140 | 3.6 U | 2.7 U | 3.2 U | 2.9 U | 3.3 U |
| n-Butylbenzene | 12,000 | NS | 15 U | 3.6 U | 2.7 U | 3.2 U | 2.9 U | 3.3 U |
| n-Propylbenzene | 3,900 | 100,000 | 370 | 18 U | 14 U | 16 U | 15 U | 16 U |
| o-Chlorotoluene | NS | NS | 74 U | 18 U | 14 U | 16 U | 15 U | 16 U |
| o-Xylene | 260 | 100,000 | 29 U | 7.1 U | 5.5 U | 6.3 U | 5.9 U | 6.6 U |
| p/m-Xylene | 260 | 100,000 | 74 U | 18 U | 14 U | 16 U | 15 U | 16 U |
| p-Chlorotoluene | NS | NS | 110 | 3.6 U | 2.7 U | 3.2 U | 2.9 U | 3.3 U |
| p-Isopropyltoluene | NS | NS | 29 U | 7.1 U | 5.5 U | 6.3 U | 5.9 U | 6.6 U |
| sec-Butylbenzene | 11,000 | 100,000 | 57 | 3.6 U | 2.7 U | 3.2 U | 2.9 U | 3.3 U |
| Styrene | NS | NS | 29 U | 7.1 U | 5.5 U | 6.3 U | 5.9 U | 6.6 U |
| tert-Butylbenzene | 5,900 | NS | 74 U | 18 U | 14 U | 16 U | 15 U | 16 U |
| Toluene | 700 | 100,000 | 42 | 5.4 U | 4.1 U | 4.7 U | 4.4 U | 4.9 U |
| trans-1,3-Dichloropropene | NS | 100,000 | 15 U | 3.6 U | 2.7 U | 3.2 U | 2.9 U | 3.3 U |
| Trichlorofluoromethane | NS | NS | 74 U | 18 U | 14 U | 16 U | 15 U | 16 U |
| Vinyl acetate | NS | NS | 150 U | 36 U | 27 U | 32 U | 29 U | 33 U |

Notes:

All concentrations are µg/kg (ppb)

¹Unrestricted Use Soil Cleanup Objectives (SCO) 6 NYCRR Part 375, Environ

²Restricted-Residential Soil Cleanup Objectives (SCO) 6 NYCRR Part 375, E

U - Analyte not detected above the laboratory MDL

J - Estimated value

NS - No standard established

Bold text indicates compounds above the laboratory MDL

Green highlighting indicates exceedance of Unrestricted Use SCO

Yellow highlighting indicates exceedance of Restricted Residential SCO

Table 7
Leaching Structure Soil/Sediment Sample Analytical Data Summary
Semi-Volatile Organic Compounds
Former Darby Drugs Distribution Center

| SAMPLE ID | Unrestricted SCO ¹ | Restricted Residential SCO ² | PWG-DW-2008-01 L0813344-04 9/8/2008 7.25-7.75 | PWG-DW-2008-02 L0813344-05 9/8/2008 5.25-5.75 | PWG-DW-2008-03 L0813344-06 9/8/2008 8.75-9.25 | PWG-DW-2008-04 L0813344-07 9/8/2008 7.25-7.75 | PWG-DW-2008-05 L0813344-08 9/8/2008 6.75-7.25 | PWG-DW-2008-06 L0813344-09 9/8/2008 6.75-7.25 | PWG-DW-2008-07 L0813344-10 9/8/2008 6.75-7.25 | PWG-DW-2008-09 L0813344-12 9/8/2008 6.75-7.25 |
|--|----------------------------------|---|--|--|--|--|--|--|--|--|
| SAMPLING DATE | | | | | | | | | | |
| SAMPLE DEPTH (ft.) | | | | | | | | | | |
| Semi-volatile Organics by EPA 8270C | | | | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | NS | NS | 1,600 U | 8,400 U | 1,700 U | 1,700 U | 1,600 U | 1,600 U | 18,000 U | 8,200 U |
| 1,2,4-Trichlorobenzene | NS | NS | 400 U | 2,100 U | 420 U | 430 U | 390 U | 400 U | 4,600 U | 2,000 U |
| 1,2-Dichlorobenzene | NS | NS | 400 U | 2,100 U | 420 U | 430 U | 390 U | 400 U | 4,600 U | 2,000 U |
| 1,3-Dichlorobenzene | NS | NS | 400 U | 2,100 U | 420 U | 430 U | 390 U | 400 U | 4,600 U | 2,000 U |
| 1,4-Dichlorobenzene | NS | NS | 400 U | 2,100 U | 420 U | 430 U | 390 U | 400 U | 4,600 U | 2,000 U |
| 2,4,5-Trichlorophenol | NS | NS | 400 U | 2,100 U | 420 U | 430 U | 390 U | 400 U | 4,600 U | 2,000 U |
| 2,4,6-Trichlorophenol | NS | NS | 400 U | 2,100 U | 420 U | 430 U | 390 U | 400 U | 4,600 U | 2,000 U |
| 2,4-Dichlorophenol | NS | NS | 790 U | 4,200 U | 830 U | 860 U | 780 U | 790 U | 9,100 U | 4,100 U |
| 2,4-Dimethylphenol | NS | NS | 400 U | 2,100 U | 420 U | 430 U | 390 U | 400 U | 4,600 U | 2,000 U |
| 2,4-Dinitrophenol | NS | NS | 1,600 U | 8,400 U | 1,700 U | 1,700 U | 1,600 U | 1,600 U | 18,000 U | 8,200 U |
| 2,4-Dinitrotoluene | NS | NS | 400 U | 2,100 U | 420 U | 430 U | 390 U | 400 U | 4,600 U | 2,000 U |
| 2,6-Dinitrotoluene | NS | NS | 400 U | 2,100 U | 420 U | 430 U | 390 U | 400 U | 4,600 U | 2,000 U |
| 2-Chloronaphthalene | NS | NS | 480 U | 2,500 U | 500 U | 520 U | 460 U | 480 U | 5,500 U | 2,500 U |
| 2-Chlorophenol | NS | NS | 480 U | 2,500 U | 500 U | 520 U | 460 U | 480 U | 5,500 U | 2,500 U |
| 2-Methylnaphthalene | NS | NS | 400 U | 2,100 U | 420 U | 430 U | 390 U | 400 U | 4,600 U | 2,000 U |
| 2-Methylphenol | NS | NS | 480 U | 2,500 U | 500 U | 520 U | 460 U | 480 U | 5,500 U | 2,500 U |
| 2-Nitroaniline | NS | NS | 400 U | 2,100 U | 420 U | 430 U | 390 U | 400 U | 4,600 U | 2,000 U |
| 2-Nitrophenol | NS | NS | 1,600 U | 8,400 U | 1,700 U | 1,700 U | 1,600 U | 1,600 U | 18,000 U | 8,200 U |
| 3,3'-Dichlorobenzidine | NS | NS | 790 U | 4,200 U | 830 U | 860 U | 780 U | 790 U | 9,100 U | 4,100 U |
| 3-Methylphenol/4-Methylphenol | NS | NS | 480 U | 2,500 U | 500 U | 520 U | 460 U | 480 U | 5,500 U | 2,500 U |
| 3-Nitroaniline | NS | NS | 400 U | 2,100 U | 420 U | 430 U | 390 U | 400 U | 4,600 U | 2,000 U |
| 4,6-Dinitro-o-cresol | NS | NS | 1,600 U | 8,400 U | 1,700 U | 1,700 U | 1,600 U | 1,600 U | 18,000 U | 8,200 U |
| 4-Bromophenyl phenyl ether | NS | NS | 400 U | 2,100 U | 420 U | 430 U | 390 U | 400 U | 4,600 U | 2,000 U |
| 4-Chloroaniline | NS | NS | 400 U | 2,100 U | 420 U | 430 U | 390 U | 400 U | 4,600 U | 2,000 U |
| 4-Chlorophenyl phenyl ether | NS | NS | 400 U | 2,100 U | 420 U | 430 U | 390 U | 400 U | 4,600 U | 2,000 U |
| 4-Nitroaniline | NS | NS | 560 U | 3,000 U | 580 U | 610 U | 540 U | 560 U | 6,400 U | 2,900 U |
| 4-Nitrophenol | NS | NS | 790 U | 4,200 U | 830 U | 860 U | 780 U | 790 U | 9,100 U | 4,100 U |
| Acenaphthene | 20000 | 100000 | 400 U | 2,100 U | 420 U | 430 U | 390 U | 400 U | 4,600 U | 2,000 U |
| Acenaphthylene | 100000 | 100000 | 400 U | 2,100 U | 420 U | 430 U | 390 U | 400 U | 4,600 U | 2,000 U |
| Acetophenone | NS | NS | 1,600 U | 8,400 U | 1,700 U | 1,700 U | 1,600 U | 1,600 U | 18,000 U | 8,200 U |
| Anthracene | 100000 | 100000 | 400 U | 2,100 U | 420 U | 430 U | 390 U | 400 U | 4,600 U | 2,000 U |
| Benzo(a)anthracene | 1000 | 1000 | 400 U | 2,100 U | 420 U | 430 U | 390 U | 400 U | 4,600 U | 2,000 U |
| Benzo(a)pyrene | 1000 | 1000 | 400 U | 2,100 U | 420 U | 430 U | 390 U | 400 U | 4,600 U | 2,000 U |
| Benzo(b)fluoranthene | 1000 | 1000 | 400 U | 2,100 U | 420 U | 430 U | 390 U | 400 U | 4,600 U | 2,000 U |
| Benzo(g,h)perylene | 100000 | 100000 | 400 U | 2,100 U | 420 U | 430 U | 390 U | 400 U | 4,600 U | 2,000 U |
| Benzo(k)fluoranthene | 800 | 3900 | 400 U | 2,100 U | 420 U | 430 U | 390 U | 400 U | 4,600 U | 2,000 U |
| Benzoic Acid | NS | NS | 4,000 U | 21,000 U | 4,200 U | 4,300 U | 3,900 U | 4,000 U | 46,000 U | 20,000 U |
| Benzyl Alcohol | NS | NS | 790 U | 4,200 U | 830 U | 860 U | 780 U | 790 U | 9,100 U | 4,100 U |
| Biphenyl | NS | NS | 400 U | 2,100 U | 420 U | 430 U | 390 U | 400 U | 4,600 U | 2,000 U |
| Bis(2-chloroethoxy)methane | NS | NS | 400 U | 2,100 U | 420 U | 430 U | 390 U | 400 U | 4,600 U | 2,000 U |
| Bis(2-chloroethyl)ether | NS | NS | 400 U | 2,100 U | 420 U | 430 U | 390 U | 400 U | 4,600 U | 2,000 U |
| Bis(2-chloroisopropyl)ether | NS | NS | 400 U | 2,100 U | 420 U | 430 U | 390 U | 400 U | 4,600 U | 2,000 U |
| Bis(2-ethylhexyl)phthalate | NS | NS | 790 U | 4,200 U | 830 U | 860 U | 780 U | 790 U | 9,100 U | 4,100 U |
| Butyl benzyl phthalate | NS | NS | 400 U | 2,100 U | 420 U | 430 U | 390 U | 400 U | 4,600 U | 2,000 U |
| Carbazole | NS | NS | 400 U | 2,100 U | 420 U | 430 U | 390 U | 400 U | 4,600 U | 2,000 U |
| Chrysene | 1000 | 3900 | 400 U | 2,100 U | 420 U | 430 U | 390 U | 400 U | 4,600 U | 2,000 U |
| Di-n-butylphthalate | NS | NS | 400 U | 2,100 U | 420 U | 430 U | 390 U | 400 U | 4,600 U | 2,000 U |
| Di-n-octylphthalate | NS | NS | 400 U | 2,100 U | 420 U | 430 U | 390 U | 400 U | 4,600 U | 2,000 U |
| Dibenzo(a,h)anthracene | 330 | 330 | 400 U | 2,100 U | 420 U | 430 U | 390 U | 400 U | 4,600 U | 2,000 U |
| Dibenzofuran | NS | NS | 400 U | 2,100 U | 420 U | 430 U | 390 U | 400 U | 4,600 U | 2,000 U |
| Diethyl phthalate | NS | NS | 400 U | 2,100 U | 420 U | 430 U | 390 U | 400 U | 4,600 U | 2,000 U |
| Dimethyl phthalate | NS | NS | 400 U | 2,100 U | 420 U | 430 U | 390 U | 400 U | 4,600 U | 2,000 U |
| Fluoranthene | 100000 | 100000 | 400 U | 2,100 U | 420 U | 430 U | 390 U | 400 U | 4,600 U | 2,000 U |
| Fluorene | 30000 | 100000 | 400 U | 2,100 U | 420 U | 430 U | 390 U | 400 U | 4,600 U | 2,000 U |
| Hexachlorobenzene | NS | NS | 400 U | 2,100 U | 420 U | 430 U | 390 U | 400 U | 4,600 U | 2,000 U |
| Hexachlorobutadiene | NS | NS | 790 U | 4,200 U | 830 U | 860 U | 780 U | 790 U | 9,100 U | 4,100 U |
| Hexachlorocyclopentadiene | NS | NS | 790 U | 4,200 U | 830 U | 860 U | 780 U | 790 U | 9,100 U | 4,100 U |
| Hexachloroethane | NS | NS | 400 U | 2,100 U | 420 U | 430 U | 390 U | 400 U | 4,600 U | 2,000 U |
| Indeno(1,2,3-cd)Pyrene | 500 | 500 | 400 U | 2,100 U | 420 U | 430 U | 390 U | 400 U | 4,600 U | 2,000 U |
| Isophorone | NS | NS | 400 U | 2,100 U | 420 U | 430 U | 390 U | 400 U | 4,600 U | 2,000 U |
| n-Nitrosodi-n-propylamine | NS | NS | 400 U | 2,100 U | 420 U | 430 U | 390 U | 400 U | 4,600 U | 2,000 U |
| Naphthalene | 12000 | 100000 | 400 U | 2,100 U | 420 U | 430 U | 390 U | 400 U | 4,600 U | 2,000 U |
| Nitrobenzene | NS | NS | 400 U | 2,100 U | 420 U | 430 U | 390 U | 400 U | 4,600 U | 2,000 U |
| NitrosoDiPhenylAmine(NDPA)/DPA | NS | NS | 1,200 U | 6,300 U | 1,200 U | 1,300 U | 1,200 U | 1,200 U | 14,000 U | 6,200 U |
| P-Chloro-M-Cresol | NS | NS | 400 U | 2,100 U | 420 U | 430 U | 390 U | 400 U | 4,600 U | 2,000 U |
| Pentachlorophenol | 800 | 6700 | 1,600 U | 8,400 U | 1,700 U | 1,700 U | 1,600 U | 1,600 U | 18,000 U | 8,200 U |
| Phenanthrene | 100000 | 100000 | 400 U | 2,100 U | 420 U | 430 U | 390 U | 400 U | 4,600 U | 2,000 U |
| Phenol | 330 | 100000 | 560 U | 3,000 U | 580 U | 610 U | 540 U | 560 U | 6,400 U | 2,900 U |
| Pyrene | 100000 | 100000 | 400 U | 2,100 U | 420 U | 430 U | 390 U | 400 U | 4,600 U | 2,000 U |
| Semi-volatile Organics by EPA 8270C-SIM | | | | | | | | | | |
| 2-Chloronaphthalene | NS | NS | 79 U | 840 U | 83 U | 86 U | 78 U | 16 U | 1,800 U | 820 U |
| 2-Methylnaphthalene | NS | NS | 79 U | 840 U | 83 U | 86 U | 78 U | 16 U | 1,800 U | 820 U |
| Acenaphthene | 20000 | 100000 | 79 U | 840 U | 83 U | 86 U | 78 U | 16 U | 1,800 U | 820 U |
| Acenaphthylene | 100000 | 100000 | 79 U | 840 U | 83 U | 86 U | 78 U | 16 U | 1,800 U | 820 U |
| Anthracene | 100000 | 100000 | 79 U | 840 U | 83 U | 86 U | 78 U | 16 U | 1,800 U | 820 U |
| Benzo(a)anthracene | 1000 | 1000 | 79 U | 840 U | 83 U | 86 U | 78 U | 16 U | 1,800 U | 820 U |
| Benzo(a)pyrene | 1000 | 1000 | 79 U | 840 U | 83 U | 86 U | 78 U | 16 U | 1,800 U | 820 U |
| Benzo(b)fluoranthene | 1000 | 1000 | 79 U | 840 U | 83 U | 86 U | 78 U | 16 U | 1,800 U | 820 U |
| Benzo(g,h)perylene | 100000 | 100000 | 79 U | 840 U | 83 U | 86 U | 78 U | 16 U | 1,800 U | 820 U |
| Benzo(k)fluoranthene | 800 | 3900 | 79 U | 840 U | 83 U | 86 U | 78 U | 16 U | 1,800 U | 820 U |
| Chrysene | 1000 | 3900 | 79 U | 840 U | 83 U | 86 U | 78 U | 16 U | 1,800 U | 820 U |
| Dibenzo(a,h)anthracene | 3300 | 330 | 79 U | 840 U | 83 U | 86 U | 78 U | 16 U | 1,800 U | 820 U |
| Fluoranthene | 100000 | 100000 | 79 U | 840 U | 83 U | 86 U | 78 U | 30 U | 1,800 U | 820 U |
| Fluorene | 30000 | 100000 | 79 U | 840 U | 83 U | 86 U | 78 U | 16 U | 1,800 U | 820 U |
| Hexachlorobenzene | NS | NS | 320 U | 3,400 U | 330 U | 350 U | 310 U | 63 U | 7,300 U | 3,300 U |
| Hexachlorobutadiene | NS | NS | 200 U | 2,100 U | 210 U | 220 U | 190 U | 40 U | 4,600 U | 2,000 U |
| Hexachloroethane | NS | NS | 320 U | 3,400 U | 330 U | 350 U | 310 U | 63 U | 7,300 U | 3,300 U |
| Indeno(1,2,3-cd)Pyrene | 500 | 500 | 79 U | 840 U | 83 U | 86 U | 78 U | 16 U | 1,800 U | 820 U |
| Naphthalene | 12000 | 100000 | 79 U | 840 U | 83 U | 86 U | 78 U | 16 U | 1,800 U | 820 U |
| Pentachlorophenol | 800 | 6700 | 320 U | 3,400 U | 330 U | 350 U | 310 U | 63 U | 7,300 U | 3,300 U |
| Phenanthrene | 100000 | 100000 | 79 U | 840 U | 83 U | 86 U | 78 U | 16 U | 1,800 U | 820 U |
| Pyrene | 100000 | 100000 | 79 U | 840 U | 83 U | 86 U | 78 U | 32 U | 1,800 U | 820 U |

Notes:
 All concentrations are µg/kg (ppb)
¹Unrestricted Use Soil Cleanup Objectives (SCO) 6 NYCRR Part 375, Environmental Remediation Programs, December 2006
²Restricted-Residential Soil Cleanup Objectives (SCO) 6 NYCRR Part 375, Environmental Remediation Programs, December 2006
 U - Analyte not detected above the laboratory MDL
 J - Estimated value
 NS - No standard established
 Bold text indicates compounds above the laboratory MDL
 Green highlighting indicates exceedance of Unrestricted Use SCO
 Yellow highlighting indicates exceedance of Restricted Residential SCO

Table 7
Leaching Structure Soil/Sediment Sample Analytical Data Summary
Semi-Volatile Organic Compounds
Former Darby Drugs Distribution Center

| SAMPLE ID LAB SAMPLE ID SAMPLING DATE SAMPLE DEPTH (ft.) | Unrestricted SCO ¹ | Restricted Residential SCO ² | PWG-DW-2008-10 L0813344-13 9/8/2008 6.25-6.75 | PWG-DW-2008-11 L0813344-14 9/8/2008 6.75-7.25 | PWG-DW-2008-12 L0813344-15 9/8/2008 7.25-7.75 | PWG-DW-2008-13 L0813344-16 9/8/2008 7.25-7.75 | PWG-DW-2008-14 L0813344-17 9/8/2008 6-6.5 | PWG-DW-2008-15 L0813344-18 9/8/2008 7-7.5 | PWG-DW-2008-16 L0813344-21 9/8/2008 5.5-6 | PWG-DW-2008-17 L0813344-22 9/8/2008 5.5-6 |
|---|----------------------------------|---|--|--|--|--|--|--|--|--|
| Semi-volatile Organics by EPA 8270C | | | | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | NS | NS | 9,400 U | 1,700 U | 1,600 U | 1,600 U | 3,900 U | 1,600 U | 1,600 U | 3,200 U |
| 1,2,4-Trichlorobenzene | NS | NS | 2,300 U | 420 U | 400 U | 390 U | 970 U | 400 U | 390 U | 810 U |
| 1,2-Dichlorobenzene | NS | NS | 2,300 U | 420 U | 400 U | 390 U | 970 U | 400 U | 390 U | 810 U |
| 1,3-Dichlorobenzene | NS | NS | 2,300 U | 420 U | 400 U | 390 U | 970 U | 400 U | 390 U | 810 U |
| 1,4-Dichlorobenzene | NS | NS | 2,300 U | 420 U | 400 U | 390 U | 970 U | 400 U | 390 U | 810 U |
| 2,4,5-Trichlorophenol | NS | NS | 2,300 U | 420 U | 400 U | 390 U | 970 U | 400 U | 390 U | 810 U |
| 2,4,6-Trichlorophenol | NS | NS | 2,300 U | 420 U | 400 U | 390 U | 970 U | 400 U | 390 U | 810 U |
| 2,4-Dichlorophenol | NS | NS | 4,700 U | 830 U | 800 U | 780 U | 1,900 U | 790 U | 780 U | 1,600 U |
| 2,4-Dimethylphenol | NS | NS | 2,300 U | 420 U | 400 U | 390 U | 970 U | 400 U | 390 U | 810 U |
| 2,4-Dinitrophenol | NS | NS | 9,400 U | 1,700 U | 1,600 U | 1,600 U | 3,900 U | 1,600 U | 1,600 U | 3,200 U |
| 2,4-Dinitrotoluene | NS | NS | 2,300 U | 420 U | 400 U | 390 U | 970 U | 400 U | 390 U | 810 U |
| 2,6-Dinitrotoluene | NS | NS | 2,300 U | 420 U | 400 U | 390 U | 970 U | 400 U | 390 U | 810 U |
| 2-Chloronaphthalene | NS | NS | 2,800 U | 500 U | 480 U | 460 U | 1,200 U | 480 U | 460 U | 980 U |
| 2-Chlorophenol | NS | NS | 2,800 U | 500 U | 480 U | 460 U | 1,200 U | 480 U | 460 U | 980 U |
| 2-Methylnaphthalene | NS | NS | 2,300 U | 420 U | 400 U | 390 U | 970 U | 400 U | 390 U | 810 U |
| 2-Methylphenol | NS | NS | 2,800 U | 500 U | 480 U | 460 U | 1,200 U | 480 U | 460 U | 980 U |
| 2-Nitroaniline | NS | NS | 2,300 U | 420 U | 400 U | 390 U | 970 U | 400 U | 390 U | 810 U |
| 2-Nitrophenol | NS | NS | 9,400 U | 1,700 U | 1,600 U | 1,600 U | 3,900 U | 1,600 U | 1,600 U | 3,200 U |
| 3,3'-Dichlorobenzidine | NS | NS | 4,700 U | 830 U | 800 U | 780 U | 1,900 U | 790 U | 780 U | 1,600 U |
| 3-Methylphenol/4-Methylphenol | NS | NS | 2,800 U | 500 U | 480 U | 460 U | 1,200 U | 480 U | 460 U | 980 U |
| 3-Nitroaniline | NS | NS | 2,300 U | 420 U | 400 U | 390 U | 970 U | 400 U | 390 U | 810 U |
| 4,6-Dinitro-o-cresol | NS | NS | 9,400 U | 1,700 U | 1,600 U | 1,600 U | 3,900 U | 1,600 U | 1,600 U | 3,200 U |
| 4-Bromophenyl phenyl ether | NS | NS | 2,300 U | 420 U | 400 U | 390 U | 970 U | 400 U | 390 U | 810 U |
| 4-Chloroaniline | NS | NS | 2,300 U | 420 U | 400 U | 390 U | 970 U | 400 U | 390 U | 810 U |
| 4-Chlorophenyl phenyl ether | NS | NS | 2,300 U | 420 U | 400 U | 390 U | 970 U | 400 U | 390 U | 810 U |
| 4-Nitroaniline | NS | NS | 3,300 U | 580 U | 560 U | 540 U | 1,400 U | 560 U | 540 U | 1,100 U |
| 4-Nitrophenol | NS | NS | 4,700 U | 830 U | 800 U | 780 U | 1,900 U | 790 U | 780 U | 1,600 U |
| Acenaphthene | 20000 | 100000 | 2,300 U | 420 U | 400 U | 390 U | 970 U | 400 U | 390 U | 810 U |
| Acenaphthylene | 100000 | 100000 | 2,300 U | 420 U | 400 U | 390 U | 970 U | 400 U | 390 U | 810 U |
| Acetophenone | NS | NS | 9,400 U | 1,700 U | 1,600 U | 1,600 U | 3,900 U | 1,600 U | 1,600 U | 3,200 U |
| Anthracene | 100000 | 100000 | 2,300 U | 420 U | 400 U | 390 U | 970 U | 400 U | 390 U | 810 U |
| Benzo(a)anthracene | 1000 | 1000 | 2,300 U | 420 U | 400 U | 390 U | 970 U | 400 U | 390 U | 810 U |
| Benzo(a)pyrene | 1000 | 1000 | 2,300 U | 420 U | 400 U | 390 U | 970 U | 400 U | 390 U | 810 U |
| Benzo(b)fluoranthene | 1000 | 1000 | 2,300 U | 420 U | 400 U | 390 U | 970 U | 400 U | 390 U | 810 U |
| Benzo(ghi)perylene | 100000 | 100000 | 2,300 U | 420 U | 400 U | 390 U | 970 U | 400 U | 390 U | 810 U |
| Benzo(k)fluoranthene | 800 | 3900 | 2,300 U | 420 U | 400 U | 390 U | 970 U | 400 U | 390 U | 810 U |
| Benzoic Acid | NS | NS | 23,000 U | 4,200 U | 4,000 U | 3,900 U | 9,700 U | 4,000 U | 3,900 U | 8,100 U |
| Benzyl Alcohol | NS | NS | 4,700 U | 830 U | 800 U | 780 U | 1,900 U | 790 U | 780 U | 1,600 U |
| Biphenyl | NS | NS | 2,300 U | 420 U | 400 U | 390 U | 970 U | 400 U | 390 U | 810 U |
| Bis(2-chloroethoxy)methane | NS | NS | 2,300 U | 420 U | 400 U | 390 U | 970 U | 400 U | 390 U | 810 U |
| Bis(2-chloroethyl)ether | NS | NS | 2,300 U | 420 U | 400 U | 390 U | 970 U | 400 U | 390 U | 810 U |
| Bis(2-chloroisopropyl)ether | NS | NS | 2,300 U | 420 U | 400 U | 390 U | 970 U | 400 U | 390 U | 810 U |
| Bis(2-Ethylhexyl)phthalate | NS | NS | 4,700 U | 830 U | 800 U | 780 U | 1,900 U | 790 U | 780 U | 2,000 |
| Butyl benzyl phthalate | NS | NS | 2,300 U | 420 U | 400 U | 390 U | 970 U | 400 U | 390 U | 810 U |
| Carbazole | NS | NS | 2,300 U | 420 U | 400 U | 390 U | 970 U | 400 U | 390 U | 810 U |
| Chrysene | 1000 | 3900 | 2,300 U | 420 U | 400 U | 390 U | 970 U | 400 U | 390 U | 810 U |
| Di-n-butylphthalate | NS | NS | 2,300 U | 420 U | 400 U | 390 U | 970 U | 400 U | 390 U | 810 U |
| Di-n-octylphthalate | NS | NS | 2,300 U | 420 U | 400 U | 390 U | 970 U | 400 U | 390 U | 810 U |
| Dibenzo(a,h)anthracene | 330 | 330 | 2,300 U | 420 U | 400 U | 390 U | 970 U | 400 U | 390 U | 810 U |
| Dibenzofuran | NS | NS | 2,300 U | 420 U | 400 U | 390 U | 970 U | 400 U | 390 U | 810 U |
| Diethyl phthalate | NS | NS | 2,300 U | 420 U | 400 U | 390 U | 970 U | 400 U | 390 U | 810 U |
| Dimethyl phthalate | NS | NS | 2,300 U | 420 U | 400 U | 390 U | 970 U | 400 U | 390 U | 810 U |
| Fluoranthene | 100000 | 100000 | 2,300 U | 420 U | 400 U | 390 U | 970 U | 400 U | 390 U | 810 U |
| Fluorene | 30000 | 100000 | 2,300 U | 420 U | 400 U | 390 U | 970 U | 400 U | 390 U | 810 U |
| Hexachlorobenzene | NS | NS | 2,300 U | 420 U | 400 U | 390 U | 970 U | 400 U | 390 U | 810 U |
| Hexachlorobutadiene | NS | NS | 4,700 U | 830 U | 800 U | 780 U | 1,900 U | 790 U | 780 U | 1,600 U |
| Hexachlorocyclopentadiene | NS | NS | 4,700 U | 830 U | 800 U | 780 U | 1,900 U | 790 U | 780 U | 1,600 U |
| Hexachloroethane | NS | NS | 2,300 U | 420 U | 400 U | 390 U | 970 U | 400 U | 390 U | 810 U |
| Indeno(1,2,3-cd)Pyrene | 500 | 500 | 2,300 U | 420 U | 400 U | 390 U | 970 U | 400 U | 390 U | 810 U |
| Isophorone | NS | NS | 2,300 U | 420 U | 400 U | 390 U | 970 U | 400 U | 390 U | 810 U |
| n-Nitrosodi-n-propylamine | NS | NS | 2,300 U | 420 U | 400 U | 390 U | 970 U | 400 U | 390 U | 810 U |
| Naphthalene | 12000 | 100000 | 2,300 U | 420 U | 400 U | 390 U | 970 U | 400 U | 390 U | 810 U |
| Nitrobenzene | NS | NS | 2,300 U | 420 U | 400 U | 390 U | 970 U | 400 U | 390 U | 810 U |
| NitrosoDiPhenyl(Amine)(NDPA)/DPA | NS | NS | 7,000 U | 1,200 U | 1,200 U | 1,200 U | 2,900 U | 1,200 U | 1,200 U | 2,400 U |
| P-Chloro-M-Cresol | NS | NS | 2,300 U | 420 U | 400 U | 390 U | 970 U | 400 U | 390 U | 810 U |
| Pentachlorophenol | 800 | 6700 | 9,400 U | 1,700 U | 1,600 U | 1,600 U | 3,900 U | 1,600 U | 1,600 U | 3,200 U |
| Phenanthrene | 100000 | 100000 | 2,300 U | 420 U | 400 U | 390 U | 970 U | 400 U | 390 U | 810 U |
| Phenol | 330 | 100000 | 3,300 U | 580 U | 560 U | 540 U | 1,400 U | 560 U | 540 U | 1,100 U |
| Pyrene | 100000 | 100000 | 2,300 U | 420 U | 400 U | 390 U | 970 U | 400 U | 390 U | 810 U |
| Semi-volatile Organics by EPA 8270C-SIM | | | | | | | | | | |
| 2-Chloronaphthalene | NS | NS | 190 U | 33 U | 32 U | 16 U | 970 U | 79 U | 78 U | 810 U |
| 2-Methylnaphthalene | NS | NS | 190 U | 33 U | 32 U | 16 U | 970 U | 79 U | 78 U | 810 U |
| Acenaphthene | 20000 | 100000 | 190 U | 33 U | 32 U | 16 U | 970 U | 79 U | 78 U | 810 U |
| Acenaphthylene | 100000 | 100000 | 190 U | 33 U | 32 U | 16 U | 970 U | 79 U | 78 U | 810 U |
| Anthracene | 100000 | 100000 | 190 U | 33 U | 32 U | 16 U | 970 U | 79 U | 78 U | 810 U |
| Benzo(a)anthracene | 1000 | 1000 | 190 U | 33 U | 32 U | 16 U | 970 U | 79 U | 78 U | 810 U |
| Benzo(a)pyrene | 1000 | 1000 | 190 U | 33 U | 32 U | 16 U | 970 U | 79 U | 78 U | 810 U |
| Benzo(b)fluoranthene | 1000 | 1000 | 190 U | 33 U | 32 U | 16 U | 970 U | 79 U | 78 U | 810 U |
| Benzo(ghi)perylene | 100000 | 100000 | 190 U | 33 U | 32 U | 16 U | 970 U | 79 U | 78 U | 810 U |
| Benzo(k)fluoranthene | 800 | 3900 | 190 U | 33 U | 32 U | 16 U | 970 U | 79 U | 78 U | 810 U |
| Chrysene | 1000 | 3900 | 190 U | 33 U | 32 U | 16 U | 970 U | 79 U | 78 U | 810 U |
| Dibenzo(a,h)anthracene | 3300 | 330 | 190 U | 33 U | 32 U | 16 U | 970 U | 79 U | 78 U | 810 U |
| Fluoranthene | 100000 | 100000 | 190 U | 33 U | 64 | 32 | 970 U | 79 U | 160 | 810 U |
| Fluorene | 30000 | 100000 | 190 U | 33 U | 32 U | 16 U | 970 U | 79 U | 78 U | 810 U |
| Hexachlorobenzene | NS | NS | 750 U | 130 U | 130 U | 62 U | 3,900 U | 320 U | 310 U | 3,200 U |
| Hexachlorobutadiene | NS | NS | 470 U | 83 U | 80 U | 39 U | 2,400 U | 200 U | 190 U | 2,000 U |
| Hexachloroethane | NS | NS | 750 U | 130 U | 130 U | 62 U | 3,900 U | 320 U | 310 U | 3,200 U |
| Indeno(1,2,3-cd)Pyrene | 500 | 500 | 190 U | 33 U | 32 U | 16 U | 970 U | 79 U | 78 U | 810 U |
| Naphthalene | 12000 | 100000 | 190 U | 33 U | 32 U | 16 U | 970 U | 79 U | 78 U | 810 U |
| Pentachlorophenol | 800 | 6700 | 750 U | 130 U | 130 U | 62 U | 3,900 U | 320 U | 310 U | 3,200 U |
| Phenanthrene | 100000 | 100000 | 190 U | 33 U | 32 U | 16 U | 970 U | 79 U | 78 U | 810 U |
| Pyrene | 100000 | 100000 | 190 U | 33 U | 67 | 33 | 970 U | 79 U | 160 | 810 U |

Notes:
 All concentrations are µg/kg (ppb)
¹Unrestricted Use Soil Cleanup Objectives (SCO) 6 NYCRR Part 375, Envr
²Restricted-Residential Soil Cleanup Objectives (SCO) 6 NYCRR Part 375
 U - Analyte not detected above the laboratory MDL
 J - Estimated value
 NS - No standard established
 Bold text indicates compounds above the laboratory MDL
 Green highlighting indicates exceedance of Unrestricted Use SCO
 Yellow highlighting indicates exceedance of Restricted Residential SC

Table 7
Leaching Structure Soil/Sediment Sample Analytical Data Summary
Semi-Volatile Organic Compounds
Former Darby Drugs Distribution Center

| SAMPLE ID LAB SAMPLE ID SAMPLING DATE SAMPLE DEPTH (ft.) | Unrestricted SCO ¹ | Restricted Residential SCO ² | PWG-DW-2008-18 L0813344-23 9/8/2008 4-4.5 | PWG-DW-2008-19 L0813344-24 9/8/2008 4.5-5 | PWG-DW-2008-20 L0813344-25 9/8/2008 4.5-5 | PWG-DW-2008-22 L0813344-26 9/8/2008 5.25-5.75 | PWG-DW-2008-23 L0813344-27 9/8/2008 3-3.5 | PWG-DW-2008-24 L0813344-28 9/8/2008 6-6.5 | PWG-DW-2008-25 L0813344-29 9/8/2008 5.75-6.25 | PWG-DW-2008-26 L0813344-30 9/8/2008 4.25-4.75 |
|---|----------------------------------|---|--|--|--|--|--|--|--|--|
| Semi-volatile Organics by EPA 8270C | | | | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | NS | NS | 3,400 U | 3,200 U | 19,000 U | 1,500 U | 8,400 U | 1,800 U | 1,700 U | 7,900 U |
| 1,2,4-Trichlorobenzene | NS | NS | 850 U | 790 U | 4,700 U | 380 U | 2,100 U | 440 U | 420 U | 2,000 U |
| 1,2-Dichlorobenzene | NS | NS | 850 U | 790 U | 4,700 U | 380 U | 2,100 U | 440 U | 420 U | 2,000 U |
| 1,3-Dichlorobenzene | NS | NS | 850 U | 790 U | 4,700 U | 380 U | 2,100 U | 440 U | 420 U | 2,000 U |
| 1,4-Dichlorobenzene | NS | NS | 850 U | 790 U | 4,700 U | 380 U | 2,100 U | 440 U | 420 U | 2,000 U |
| 2,4,5-Trichlorophenol | NS | NS | 850 U | 790 U | 4,700 U | 380 U | 2,100 U | 440 U | 420 U | 2,000 U |
| 2,4,6-Trichlorophenol | NS | NS | 850 U | 790 U | 4,700 U | 380 U | 2,100 U | 440 U | 420 U | 2,000 U |
| 2,4-Dichlorophenol | NS | NS | 1,700 U | 1,600 U | 9,400 U | 770 U | 4,200 U | 890 U | 830 U | 4,000 U |
| 2,4-Dimethylphenol | NS | NS | 850 U | 790 U | 4,700 U | 380 U | 2,100 U | 440 U | 420 U | 2,000 U |
| 2,4-Dinitrophenol | NS | NS | 3,400 U | 3,200 U | 19,000 U | 1,500 U | 8,400 U | 1,800 U | 1,700 U | 7,900 U |
| 2,4-Dinitrotoluene | NS | NS | 850 U | 790 U | 4,700 U | 380 U | 2,100 U | 440 U | 420 U | 2,000 U |
| 2,6-Dinitrotoluene | NS | NS | 850 U | 790 U | 4,700 U | 380 U | 2,100 U | 440 U | 420 U | 2,000 U |
| 2-Chloronaphthalene | NS | NS | 1,000 U | 950 U | 5,600 U | 460 U | 2,500 U | 530 U | 500 U | 2,400 U |
| 2-Chlorophenol | NS | NS | 1,000 U | 950 U | 5,600 U | 460 U | 2,500 U | 530 U | 500 U | 2,400 U |
| 2-Methylnaphthalene | NS | NS | 850 U | 790 U | 4,700 U | 380 U | 2,100 U | 440 U | 420 U | 2,000 U |
| 2-Methylphenol | NS | NS | 1,000 U | 950 U | 5,600 U | 460 U | 2,500 U | 530 U | 500 U | 2,400 U |
| 2-Nitroaniline | NS | NS | 850 U | 790 U | 4,700 U | 380 U | 2,100 U | 440 U | 420 U | 2,000 U |
| 2-Nitrophenol | NS | NS | 3,400 U | 3,200 U | 19,000 U | 1,500 U | 8,400 U | 1,800 U | 1,700 U | 7,900 U |
| 3,3'-Dichlorobenzidine | NS | NS | 1,700 U | 1,600 U | 9,400 U | 770 U | 4,200 U | 890 U | 830 U | 4,000 U |
| 3-Methylphenol/4-Methylphenol | NS | NS | 1,000 U | 950 U | 5,600 U | 460 U | 2,500 U | 530 U | 500 U | 2,400 U |
| 3-Nitroaniline | NS | NS | 850 U | 790 U | 4,700 U | 380 U | 2,100 U | 440 U | 420 U | 2,000 U |
| 4,6-Dinitro-o-cresol | NS | NS | 3,400 U | 3,200 U | 19,000 U | 1,500 U | 8,400 U | 1,800 U | 1,700 U | 7,900 U |
| 4-Bromophenyl phenyl ether | NS | NS | 850 U | 790 U | 4,700 U | 380 U | 2,100 U | 440 U | 420 U | 2,000 U |
| 4-Chloroaniline | NS | NS | 850 U | 790 U | 4,700 U | 380 U | 2,100 U | 440 U | 420 U | 2,000 U |
| 4-Chlorophenyl phenyl ether | NS | NS | 850 U | 790 U | 4,700 U | 380 U | 2,100 U | 440 U | 420 U | 2,000 U |
| 4-Nitroaniline | NS | NS | 1,200 U | 1,100 U | 6,600 U | 540 U | 3,000 U | 620 U | 580 U | 2,800 U |
| 4-Nitrophenol | NS | NS | 1,700 U | 1,600 U | 9,400 U | 770 U | 4,200 U | 890 U | 830 U | 4,000 U |
| Acenaphthene | 20000 | 100000 | 850 U | 790 U | 4,700 U | 380 U | 2,100 U | 440 U | 420 U | 2,000 U |
| Acenaphthylene | 100000 | 100000 | 850 U | 790 U | 4,700 U | 380 U | 2,100 U | 440 U | 420 U | 2,000 U |
| Acetophenone | NS | NS | 3,400 U | 3,200 U | 19,000 U | 1,500 U | 8,400 U | 1,800 U | 1,700 U | 7,900 U |
| Anthracene | 100000 | 100000 | 850 U | 790 U | 4,700 U | 380 U | 2,100 U | 440 U | 420 U | 2,000 U |
| Benzo(a)anthracene | 1000 | 1000 | 850 U | 790 U | 4,700 U | 380 U | 2,100 U | 440 U | 420 U | 2,000 U |
| Benzo(a)pyrene | 1000 | 1000 | 850 U | 790 U | 4,700 U | 380 U | 2,100 U | 440 U | 420 U | 2,000 U |
| Benzo(b)fluoranthene | 1000 | 1000 | 850 U | 790 U | 4,700 U | 380 U | 2,100 U | 440 U | 420 U | 2,000 U |
| Benzo(ghi)perylene | 100000 | 100000 | 850 U | 790 U | 4,700 U | 380 U | 2,100 U | 440 U | 420 U | 2,000 U |
| Benzo(k)fluoranthene | 800 | 3900 | 850 U | 790 U | 4,700 U | 380 U | 2,100 U | 440 U | 420 U | 2,000 U |
| Benzoic Acid | NS | NS | 8,500 U | 7,900 U | 47,000 U | 3,800 U | 21,000 U | 4,400 U | 4,200 U | 20,000 U |
| Benzyl Alcohol | NS | NS | 1,700 U | 1,600 U | 9,400 U | 770 U | 4,200 U | 890 U | 830 U | 4,000 U |
| Biphenyl | NS | NS | 850 U | 790 U | 4,700 U | 380 U | 2,100 U | 440 U | 420 U | 2,000 U |
| Bis(2-chloroethoxy)methane | NS | NS | 850 U | 790 U | 4,700 U | 380 U | 2,100 U | 440 U | 420 U | 2,000 U |
| Bis(2-chloroethylether | NS | NS | 850 U | 790 U | 4,700 U | 380 U | 2,100 U | 440 U | 420 U | 2,000 U |
| Bis(2-chloroisopropylether | NS | NS | 850 U | 790 U | 4,700 U | 380 U | 2,100 U | 440 U | 420 U | 2,000 U |
| Bis(2-Ethylethoxy)phthalate | NS | NS | 1,700 U | 1,600 U | 12,000 U | 770 U | 4,200 U | 890 U | 830 U | 4,000 U |
| Butyl benzyl phthalate | NS | NS | 850 U | 790 U | 4,700 U | 380 U | 2,100 U | 440 U | 420 U | 2,000 U |
| Carbazole | NS | NS | 850 U | 790 U | 4,700 U | 380 U | 2,100 U | 440 U | 420 U | 2,000 U |
| Chrysene | 1000 | 3900 | 850 U | 790 U | 4,700 U | 380 U | 2,100 U | 440 U | 420 U | 2,000 U |
| Di-n-butylphthalate | NS | NS | 850 U | 790 U | 4,700 U | 380 U | 2,100 U | 440 U | 420 U | 2,000 U |
| Di-n-octylphthalate | NS | NS | 850 U | 790 U | 4,700 U | 380 U | 2,100 U | 440 U | 420 U | 2,000 U |
| Dibenzo(a,h)anthracene | 330 | 330 | 850 U | 790 U | 4,700 U | 380 U | 2,100 U | 440 U | 420 U | 2,000 U |
| Dibenzofuran | NS | NS | 850 U | 790 U | 4,700 U | 380 U | 2,100 U | 440 U | 420 U | 2,000 U |
| Diethyl phthalate | NS | NS | 850 U | 790 U | 4,700 U | 380 U | 2,100 U | 440 U | 420 U | 2,000 U |
| Dimethyl phthalate | NS | NS | 850 U | 790 U | 4,700 U | 380 U | 2,100 U | 440 U | 420 U | 2,000 U |
| Fluoranthene | 100000 | 100000 | 850 U | 790 U | 4,700 U | 380 U | 2,100 U | 440 U | 420 U | 2,000 U |
| Fluorene | 30000 | 100000 | 850 U | 790 U | 4,700 U | 380 U | 2,100 U | 440 U | 420 U | 2,000 U |
| Hexachlorobenzene | NS | NS | 850 U | 790 U | 4,700 U | 380 U | 2,100 U | 440 U | 420 U | 2,000 U |
| Hexachlorobutadiene | NS | NS | 1,700 U | 1,600 U | 9,400 U | 770 U | 4,200 U | 890 U | 830 U | 4,000 U |
| Hexachlorocyclopentadiene | NS | NS | 1,700 U | 1,600 U | 9,400 U | 770 U | 4,200 U | 890 U | 830 U | 4,000 U |
| Hexachloroethane | NS | NS | 850 U | 790 U | 4,700 U | 380 U | 2,100 U | 440 U | 420 U | 2,000 U |
| Indeno(1,2,3-cd)Pyrene | 500 | 500 | 850 U | 790 U | 4,700 U | 380 U | 2,100 U | 440 U | 420 U | 2,000 U |
| Isophorone | NS | NS | 850 U | 790 U | 4,700 U | 380 U | 2,100 U | 440 U | 420 U | 2,000 U |
| n-Nitrosodi-n-propylamine | NS | NS | 850 U | 790 U | 4,700 U | 380 U | 2,100 U | 440 U | 420 U | 2,000 U |
| Naphthalene | 12000 | 100000 | 850 U | 790 U | 4,700 U | 380 U | 2,100 U | 440 U | 420 U | 2,000 U |
| Nitrobenzene | NS | NS | 850 U | 790 U | 4,700 U | 380 U | 2,100 U | 440 U | 420 U | 2,000 U |
| NitrosoDiPhenyl(Amine)(NDPA)/DPA | NS | NS | 2,600 U | 2,400 U | 14,000 U | 1,100 U | 6,300 U | 1,300 U | 1,200 U | 6,000 U |
| P-Chloro-M-Cresol | NS | NS | 850 U | 790 U | 4,700 U | 380 U | 2,100 U | 440 U | 420 U | 2,000 U |
| Pentachlorophenol | 800 | 6700 | 3,400 U | 3,200 U | 19,000 U | 1,500 U | 8,400 U | 1,800 U | 1,700 U | 7,900 U |
| Phenanthrene | 100000 | 100000 | 850 U | 790 U | 4,700 U | 380 U | 2,100 U | 440 U | 420 U | 2,000 U |
| Phenol | 330 | 100000 | 1,200 U | 1,100 U | 6,600 U | 540 U | 3,000 U | 620 U | 580 U | 2,800 U |
| Pyrene | 100000 | 100000 | 850 U | 790 U | 4,700 U | 380 U | 2,100 U | 440 U | 420 U | 2,000 U |
| Semi-volatile Organics by EPA 8270C-SIM | | | | | | | | | | |
| 2-Chloronaphthalene | NS | NS | 850 U | 16 U | 1,900 U | 31 U | 840 U | 89 U | 17 U | 790 U |
| 2-Methylnaphthalene | NS | NS | 850 U | 16 U | 1,900 U | 31 U | 840 U | 89 U | 17 U | 790 U |
| Acenaphthene | 20000 | 100000 | 850 U | 16 U | 1,900 U | 31 U | 840 U | 89 U | 17 U | 790 U |
| Acenaphthylene | 100000 | 100000 | 850 U | 16 U | 1,900 U | 31 U | 840 U | 89 U | 17 U | 790 U |
| Anthracene | 100000 | 100000 | 850 U | 16 U | 1,900 U | 31 U | 840 U | 89 U | 17 U | 790 U |
| Benzo(a)anthracene | 1000 | 1000 | 850 U | 18 | 1,900 U | 31 U | 840 U | 89 U | 17 U | 790 U |
| Benzo(a)pyrene | 1000 | 1000 | 850 U | 36 | 1,900 U | 31 U | 840 U | 89 U | 17 U | 790 U |
| Benzo(b)fluoranthene | 1000 | 1000 | 850 U | 32 | 1,900 U | 31 U | 840 U | 89 U | 17 U | 790 U |
| Benzo(ghi)perylene | 100000 | 100000 | 850 U | 16 U | 1,900 U | 31 U | 840 U | 89 U | 17 U | 790 U |
| Benzo(k)fluoranthene | 800 | 3900 | 850 U | 34 | 1,900 U | 31 U | 840 U | 89 U | 17 U | 790 U |
| Chrysene | 1000 | 3900 | 850 U | 16 | 1,900 U | 31 U | 840 U | 89 U | 17 U | 790 U |
| Dibenzo(a,h)anthracene | 3300 | 330 | 850 U | 16 U | 1,900 U | 31 U | 840 U | 89 U | 17 U | 790 U |
| Fluoranthene | 100000 | 100000 | 850 U | 53 | 1,900 U | 31 U | 840 U | 170 | 17 U | 790 U |
| Fluorene | 30000 | 100000 | 850 U | 16 U | 1,900 U | 31 U | 840 U | 89 U | 17 U | 790 U |
| Hexachlorobenzene | NS | NS | 3,400 U | 63 U | 7,500 U | 120 U | 3,400 U | 360 U | 67 U | 3,200 U |
| Hexachlorobutadiene | NS | NS | 2,100 U | 40 U | 4,700 U | 77 U | 2,100 U | 220 U | 42 U | 2,000 U |
| Hexachloroethane | NS | NS | 3,400 U | 63 U | 7,500 U | 120 U | 3,400 U | 360 U | 67 U | 3,200 U |
| Indeno(1,2,3-cd)Pyrene | 500 | 500 | 850 U | 16 U | 1,900 U | 31 U | 840 U | 89 U | 17 U | 790 U |
| Naphthalene | 12000 | 100000 | 850 U | 16 U | 1,900 U | 31 U | 840 U | 89 U | 17 U | 790 U |
| Pentachlorophenol | 800 | 6700 | 3,400 U | 63 U | 7,500 U | 120 U | 3,400 U | 360 U | 67 U | 3,200 U |
| Phenanthrene | 100000 | 100000 | 850 U | 16 | 1,900 U | 31 U | 840 U | 89 U | 17 U | 790 U |
| Pyrene | 100000 | 100000 | 850 U | 49 | 1,900 U | 31 U | 840 U | 210 | 17 U | 790 U |

Notes:

All concentrations are µg/kg (ppb)

¹Unrestricted Use Soil Cleanup Objectives (SCO) 6 NYCRR Part 375, Envr

²Restricted-Residential Soil Cleanup Objectives (SCO) 6 NYCRR Part 375

U - Analyte not detected above the laboratory MDL

J - Estimated value

NS - No standard established

Bold text indicates compounds above the laboratory MDL

Green highlighting indicates exceedance of Unrestricted Use SCO

Yellow highlighting indicates exceedance of Restricted Residential SCT

Table 7
Leaching Structure Soil/Sediment Sample Analytical Data Summary
Semi-Volatile Organic Compounds
Former Darby Drugs Distribution Center

| SAMPLE ID | Unrestricted SCO ¹ | Restricted Residential SCO ² | PWG-DW-2008-27 L0813447-02 9/10/2008 12.5-13 | PWG-DW-2008-28 L0813447-03 9/10/2008 12-12.5 | PWG-DW-2008-29 L0813447-04 9/10/2008 10-10.5 | PWG-DW-2008-30 L0813447-05 9/10/2008 8.5-9 | PWG-DW-2008-31 L0813447-06 9/10/2008 8.8-5 | PWG-DW-2008-33 L0813447-07 9/10/2008 7-7.5 | PWG-DW-2008-34 L0813447-08 9/10/2008 5.5-6 | PWG-DW-2008-37 L0813447-09 9/10/2008 11-11.5 |
|--|----------------------------------|---|---|---|---|---|---|---|---|---|
| LAB SAMPLE ID | | | | | | | | | | |
| SAMPLING DATE | | | | | | | | | | |
| SAMPLE DEPTH (ft.) | | | | | | | | | | |
| Semi-volatile Organics by EPA 8270C | | | | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | NS | NS | 1,700 U | 2,000 U | 1,800 U | 41,000 U | 20,000 U | 29,000 U | 30,000 U | 120,000 U |
| 1,2,4-Trichlorobenzene | NS | NS | 430 U | 490 U | 440 U | 10,000 U | 4,900 U | 7,200 U | 7,600 U | 31,000 U |
| 1,2-Dichlorobenzene | NS | NS | 430 U | 490 U | 440 U | 10,000 U | 4,900 U | 7,200 U | 7,600 U | 31,000 U |
| 1,3-Dichlorobenzene | NS | NS | 430 U | 490 U | 440 U | 10,000 U | 4,900 U | 7,200 U | 7,600 U | 31,000 U |
| 1,4-Dichlorobenzene | NS | NS | 430 U | 490 U | 440 U | 10,000 U | 4,900 U | 7,200 U | 7,600 U | 31,000 U |
| 2,4,5-Trichlorophenol | NS | NS | 430 U | 490 U | 440 U | 10,000 U | 4,900 U | 7,200 U | 7,600 U | 31,000 U |
| 2,4,6-Trichlorophenol | NS | NS | 430 U | 490 U | 440 U | 10,000 U | 4,900 U | 7,200 U | 7,600 U | 31,000 U |
| 2,4-Dichlorophenol | NS | NS | 850 U | 980 U | 880 U | 20,000 U | 9,800 U | 14,000 U | 15,000 U | 62,000 U |
| 2,4-Dimethylphenol | NS | NS | 430 U | 490 U | 440 U | 10,000 U | 4,900 U | 7,200 U | 7,600 U | 31,000 U |
| 2,4-Dinitrophenol | NS | NS | 1,700 U | 2,000 U | 1,800 U | 41,000 U | 20,000 U | 29,000 U | 30,000 U | 120,000 U |
| 2,4-Dinitrotoluene | NS | NS | 430 U | 490 U | 440 U | 10,000 U | 4,900 U | 7,200 U | 7,600 U | 31,000 U |
| 2,6-Dinitrotoluene | NS | NS | 430 U | 490 U | 440 U | 10,000 U | 4,900 U | 7,200 U | 7,600 U | 31,000 U |
| 2-Chloronaphthalene | NS | NS | 510 U | 590 U | 530 U | 12,000 U | 5,900 U | 8,700 U | 9,100 U | 37,000 U |
| 2-Chlorophenol | NS | NS | 510 U | 590 U | 530 U | 12,000 U | 5,900 U | 8,700 U | 9,100 U | 37,000 U |
| 2-Methylnaphthalene | NS | NS | 430 U | 490 U | 440 U | 10,000 U | 4,900 U | 7,200 U | 7,600 U | 31,000 U |
| 2-Methylphenol | NS | NS | 510 U | 590 U | 530 U | 12,000 U | 5,900 U | 8,700 U | 9,100 U | 37,000 U |
| 2-Nitroaniline | NS | NS | 430 U | 490 U | 440 U | 10,000 U | 4,900 U | 7,200 U | 7,600 U | 31,000 U |
| 2-Nitrophenol | NS | NS | 1,700 U | 2,000 U | 1,800 U | 41,000 U | 20,000 U | 29,000 U | 30,000 U | 120,000 U |
| 3,3'-Dichlorobenzidine | NS | NS | 850 U | 980 U | 880 U | 20,000 U | 9,800 U | 14,000 U | 15,000 U | 62,000 U |
| 3-Methylphenol/4-Methylphenol | NS | NS | 510 U | 590 U | 530 U | 12,000 U | 5,900 U | 8,700 U | 9,100 U | 37,000 U |
| 3-Nitroaniline | NS | NS | 430 U | 490 U | 440 U | 10,000 U | 4,900 U | 7,200 U | 7,600 U | 31,000 U |
| 4,6-Dinitro-o-cresol | NS | NS | 1,700 U | 2,000 U | 1,800 U | 41,000 U | 20,000 U | 29,000 U | 30,000 U | 120,000 U |
| 4-Bromophenyl phenyl ether | NS | NS | 430 U | 490 U | 440 U | 10,000 U | 4,900 U | 7,200 U | 7,600 U | 31,000 U |
| 4-Chloroaniline | NS | NS | 430 U | 490 U | 440 U | 10,000 U | 4,900 U | 7,200 U | 7,600 U | 31,000 U |
| 4-Chlorophenyl phenyl ether | NS | NS | 430 U | 490 U | 440 U | 10,000 U | 4,900 U | 7,200 U | 7,600 U | 31,000 U |
| 4-Nitroaniline | NS | NS | 600 U | 690 U | 610 U | 14,000 U | 6,900 U | 10,000 U | 11,000 U | 43,000 U |
| 4-Nitrophenol | NS | NS | 850 U | 980 U | 880 U | 20,000 U | 9,800 U | 14,000 U | 15,000 U | 62,000 U |
| Acenaphthene | 20000 | 100000 | 430 U | 490 U | 440 U | 10,000 U | 4,900 U | 7,200 U | 7,600 U | 31,000 U |
| Acenaphthylene | 100000 | 100000 | 430 U | 490 U | 440 U | 10,000 U | 4,900 U | 7,200 U | 7,600 U | 31,000 U |
| Acetophenone | NS | NS | 1,700 U | 2,000 U | 1,800 U | 41,000 U | 20,000 U | 29,000 U | 30,000 U | 120,000 U |
| Anthracene | 100000 | 100000 | 430 U | 490 U | 440 U | 10,000 U | 4,900 U | 7,200 U | 7,600 U | 31,000 U |
| Benzo(a)anthracene | 1000 | 1000 | 430 U | 490 U | 440 U | 10,000 U | 4,900 U | 7,200 U | 7,600 U | 31,000 U |
| Benzo(a)pyrene | 1000 | 1000 | 430 U | 490 U | 440 U | 10,000 U | 4,900 U | 7,200 U | 7,600 U | 31,000 U |
| Benzo(b)fluoranthene | 1000 | 1000 | 430 U | 490 U | 440 U | 10,000 U | 4,900 U | 7,200 U | 7,600 U | 31,000 U |
| Benzo(g,h)perylene | 100000 | 100000 | 430 U | 490 U | 440 U | 10,000 U | 4,900 U | 7,200 U | 7,600 U | 31,000 U |
| Benzo(k)fluoranthene | 800 | 3900 | 430 U | 490 U | 440 U | 10,000 U | 4,900 U | 7,200 U | 7,600 U | 31,000 U |
| Benzoic Acid | NS | NS | 4,300 U | 4,900 U | 4,400 U | 100,000 U | 49,000 U | 72,000 U | 76,000 U | 310,000 U |
| Benzyl Alcohol | NS | NS | 850 U | 980 U | 880 U | 20,000 U | 9,800 U | 14,000 U | 15,000 U | 62,000 U |
| Biphenyl | NS | NS | 430 U | 490 U | 440 U | 10,000 U | 4,900 U | 7,200 U | 7,600 U | 31,000 U |
| Bis(2-chloroethoxy)methane | NS | NS | 430 U | 490 U | 440 U | 10,000 U | 4,900 U | 7,200 U | 7,600 U | 31,000 U |
| Bis(2-chloroethoxy)ether | NS | NS | 430 U | 490 U | 440 U | 10,000 U | 4,900 U | 7,200 U | 7,600 U | 31,000 U |
| Bis(2-chloroisopropoxy)ether | NS | NS | 430 U | 490 U | 440 U | 10,000 U | 4,900 U | 7,200 U | 7,600 U | 31,000 U |
| Bis(2-Ethylhexoxy)phthalate | NS | NS | 850 U | 980 U | 880 U | 23,000 | 9,800 U | 19,000 | 15,000 U | 62,000 U |
| Butyl benzyl phthalate | NS | NS | 430 U | 490 U | 440 U | 10,000 U | 4,900 U | 7,200 U | 7,600 U | 31,000 U |
| Carbazole | NS | NS | 430 U | 490 U | 440 U | 10,000 U | 4,900 U | 7,200 U | 7,600 U | 31,000 U |
| Chrysene | 1000 | 3900 | 430 U | 490 U | 440 U | 10,000 U | 4,900 U | 7,200 U | 7,600 U | 31,000 U |
| Di-n-butylphthalate | NS | NS | 430 U | 490 U | 440 U | 10,000 U | 4,900 U | 7,200 U | 7,600 U | 31,000 U |
| Di-n-octylphthalate | NS | NS | 430 U | 490 U | 440 U | 10,000 U | 4,900 U | 7,200 U | 7,600 U | 31,000 U |
| Dibenzo(a,h)anthracene | 330 | 330 | 430 U | 490 U | 440 U | 10,000 U | 4,900 U | 7,200 U | 7,600 U | 31,000 U |
| Dibenzofuran | NS | NS | 430 U | 490 U | 440 U | 10,000 U | 4,900 U | 7,200 U | 7,600 U | 31,000 U |
| Diethyl phthalate | NS | NS | 430 U | 490 U | 440 U | 10,000 U | 4,900 U | 7,200 U | 7,600 U | 31,000 U |
| Dimethyl phthalate | NS | NS | 430 U | 490 U | 440 U | 10,000 U | 4,900 U | 7,200 U | 7,600 U | 31,000 U |
| Fluoranthene | 100000 | 100000 | 430 U | 490 U | 440 U | 10,000 U | 4,900 U | 7,200 U | 7,600 U | 31,000 U |
| Fluorene | 30000 | 100000 | 430 U | 490 U | 440 U | 10,000 U | 4,900 U | 7,200 U | 7,600 U | 31,000 U |
| Hexachlorobenzene | NS | NS | 430 U | 490 U | 440 U | 10,000 U | 4,900 U | 7,200 U | 7,600 U | 31,000 U |
| Hexachlorobutadiene | NS | NS | 850 U | 980 U | 880 U | 20,000 U | 9,800 U | 14,000 U | 15,000 U | 62,000 U |
| Hexachlorocyclopentadiene | NS | NS | 850 U | 980 U | 880 U | 20,000 U | 9,800 U | 14,000 U | 15,000 U | 62,000 U |
| Hexachloroethane | NS | NS | 430 U | 490 U | 440 U | 10,000 U | 4,900 U | 7,200 U | 7,600 U | 31,000 U |
| Indeno(1,2,3-cd)Pyrene | 500 | 500 | 430 U | 490 U | 440 U | 10,000 U | 4,900 U | 7,200 U | 7,600 U | 31,000 U |
| Isophorone | NS | NS | 430 U | 490 U | 440 U | 10,000 U | 4,900 U | 7,200 U | 7,600 U | 31,000 U |
| n-Nitrosodi-n-propylamine | NS | NS | 430 U | 490 U | 440 U | 10,000 U | 4,900 U | 7,200 U | 7,600 U | 31,000 U |
| Naphthalene | 12000 | 100000 | 430 U | 490 U | 440 U | 10,000 U | 4,900 U | 7,200 U | 7,600 U | 31,000 U |
| Nitrobenzene | NS | NS | 430 U | 490 U | 440 U | 10,000 U | 4,900 U | 7,200 U | 7,600 U | 31,000 U |
| NitrosoDiPhenyl(Amine)(NDPA)/DPA | NS | NS | 1,300 U | 1,500 U | 1,300 U | 31,000 U | 15,000 U | 22,000 U | 23,000 U | 92,000 U |
| P-Chloro-M-Cresol | NS | NS | 430 U | 490 U | 440 U | 10,000 U | 4,900 U | 7,200 U | 7,600 U | 31,000 U |
| Pentachlorophenol | 800 | 6700 | 1,700 U | 2,000 U | 1,800 U | 41,000 U | 20,000 U | 29,000 U | 30,000 U | 120,000 U |
| Phenanthrene | 100000 | 100000 | 430 U | 490 U | 440 U | 10,000 U | 4,900 U | 7,200 U | 7,600 U | 31,000 U |
| Phenol | 330 | 100000 | 600 U | 690 U | 610 U | 14,000 U | 6,900 U | 10,000 U | 11,000 U | 43,000 U |
| Pyrene | 100000 | 100000 | 430 U | 490 U | 440 U | 10,000 U | 4,900 U | 7,200 U | 7,600 U | 31,000 U |
| Semi-volatile Organics by EPA 8270C-SIM | | | | | | | | | | |
| 2-Chloronaphthalene | NS | NS | 17 U | 98 U | 88 U | 2,700 U | 2,000 U | 1,900 U | 2,000 U | 2,500 U |
| 2-Methylnaphthalene | NS | NS | 17 U | 98 U | 88 U | 2,700 U | 2,000 U | 1,900 U | 11,000 | 2,500 U |
| Acenaphthene | 20000 | 100000 | 17 U | 98 U | 88 U | 2,700 U | 2,000 U | 1,900 U | 2,000 U | 2,500 U |
| Acenaphthylene | 100000 | 100000 | 17 U | 98 U | 88 U | 2,700 U | 2,000 U | 1,900 U | 2,000 U | 2,500 U |
| Anthracene | 100000 | 100000 | 17 U | 98 U | 88 U | 2,700 U | 2,000 U | 1,900 U | 2,000 U | 2,500 U |
| Benzo(a)anthracene | 1000 | 1000 | 17 U | 98 U | 88 U | 2,700 U | 2,000 U | 1,900 U | 2,000 U | 2,500 U |
| Benzo(a)pyrene | 1000 | 1000 | 17 U | 210 | 88 U | 5,400 | 2,000 U | 1,900 U | 2,000 U | 2,500 U |
| Benzo(b)fluoranthene | 1000 | 1000 | 17 U | 180 | 88 U | 5,000 | 2,000 U | 1,900 U | 2,000 U | 2,500 U |
| Benzo(g,h)perylene | 100000 | 100000 | 17 U | 98 U | 88 U | 5,900 | 2,000 U | 1,900 U | 2,000 U | 2,500 U |
| Benzo(k)fluoranthene | 800 | 3900 | 17 U | 180 | 88 U | 4,900 | 2,000 U | 1,900 U | 2,000 U | 2,500 U |
| Chrysene | 1000 | 3900 | 17 U | 98 U | 88 U | 2,700 U | 2,000 U | 1,900 U | 2,000 U | 2,500 U |
| Dibenzo(a,h)anthracene | 3300 | 330 | 17 U | 98 U | 88 U | 2,700 U | 2,000 U | 1,900 U | 2,000 U | 2,500 U |
| Fluoranthene | 100000 | 100000 | 17 U | 220 | 88 U | 6,700 | 3,900 | 1,900 U | 2,000 U | 4,800 |
| Fluorene | 30000 | 100000 | 17 U | 98 U | 88 U | 2,700 U | 2,000 U | 1,900 U | 2,000 U | 2,500 U |
| Hexachlorobenzene | NS | NS | 68 U | 390 U | 350 U | 11,000 U | 7,000 U | 7,700 U | 8,100 U | 9,900 U |
| Hexachlorobutadiene | NS | NS | 43 U | 240 U | 220 U | 6,800 U | 4,900 U | 4,800 U | 5,000 U | 6,200 U |
| Hexachloroethane | NS | NS | 68 U | 390 U | 350 U | 11,000 U | 7,000 U | 7,700 U | 8,100 U | 9,900 U |
| Indeno(1,2,3-cd)Pyrene | 500 | 500 | 17 U | 98 U | 88 U | 2,700 U | 2,000 U | 1,900 U | 2,000 U | 2,500 U |
| Naphthalene | 12000 | 100000 | 17 U | 98 U | 88 U | 2,700 U | 2,000 U | 1,900 U | 2,000 U | 2,500 U |
| Pentachlorophenol | 800 | 6700 | 68 U | 390 U | 350 U | 11,000 U | 7,000 U | 7,700 U | 8,100 U | 9,900 U |
| Phenanthrene | 100000 | 100000 | 17 U | 98 U | 88 U | 2,700 U | 2,000 U | 1,900 U | 2,000 | 2,500 U |
| Pyrene | 100000 | 100000 | 17 U | 240 | 88 U | 6,500 | 4,100 | 1,900 U | 2,000 U | 5,000 |

Notes:
 All concentrations are µg/kg (ppb)
¹Unrestricted Use Soil Cleanup Objectives (SCO) 6 NYCRR Part 375, Envr
²Restricted-Residential Soil Cleanup Objectives (SCO) 6 NYCRR Part 375
 U - Analyte not detected above the laboratory MDL
 J - Estimated value
 NS - No standard established
 Bold text indicates compounds above the laboratory MDL
 Green highlighting indicates exceedance of Unrestricted Use SCO
 Yellow highlighting indicates exceedance of Restricted Residential SCT

Table 7
Leaching Structure Soil/Sediment Sample Analytical Data Summary
Semi-Volatile Organic Compounds
Former Darby Drugs Distribution Center

| SAMPLE ID LAB SAMPLE ID SAMPLING DATE SAMPLE DEPTH (ft.) | Unrestricted SCO* | Restricted Residential SCO* | PWG-DW-2008-38 L0813447-11 9/10/2008 7-7.5 | PWG-DW-2008-39 L0813447-12 9/10/2008 8.5-9 | PWG-DW-2008-40 L0813447-13 9/10/2008 6-6.5 | PWG-DW-2008-41 L0813447-14 9/10/2008 9-9.5 | PWG-LP-2008-01 L0813344-20 9/8/2008 7.75-8.25 | PWG-LP-2008-01 L0814755-01 10/3/2008 9-11 |
|---|----------------------|-----------------------------------|---|---|---|---|--|--|
| Semivolatile Organics by EPA 8270C | | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | NS | NS | 29,000 U | 28,000 U | 7,300 U | 1,700 U | 1,600 U | 1,800 U |
| 1,2,4-Trichlorobenzene | NS | NS | 7,400 U | 7,100 U | 1,800 U | 420 U | 390 U | 440 U |
| 1,2-Dichlorobenzene | NS | NS | 7,400 U | 7,100 U | 1,800 U | 420 U | 390 U | 440 U |
| 1,3-Dichlorobenzene | NS | NS | 7,400 U | 7,100 U | 1,800 U | 420 U | 390 U | 440 U |
| 1,4-Dichlorobenzene | NS | NS | 7,400 U | 7,100 U | 1,800 U | 420 U | 390 U | 440 U |
| 2,4,5-Trichlorophenol | NS | NS | 7,400 U | 7,100 U | 1,800 U | 420 U | 390 U | 440 U |
| 2,4,6-Trichlorophenol | NS | NS | 7,400 U | 7,100 U | 1,800 U | 420 U | 390 U | 440 U |
| 2,4-Dichlorophenol | NS | NS | 15,000 U | 14,000 U | 3,700 U | 840 U | 780 U | 880 U |
| 2,4-Dimethylphenol | NS | NS | 7,400 U | 7,100 U | 1,800 U | 420 U | 390 U | 440 U |
| 2,4-Dinitrophenol | NS | NS | 29,000 U | 28,000 U | 7,300 U | 1,700 U | 1,600 U | 1,800 U |
| 2,4-Dinitrotoluene | NS | NS | 7,400 U | 7,100 U | 1,800 U | 420 U | 390 U | 440 U |
| 2,6-Dinitrotoluene | NS | NS | 7,400 U | 7,100 U | 1,800 U | 420 U | 390 U | 440 U |
| 2-Chloronaphthalene | NS | NS | 8,800 U | 8,600 U | 2,200 U | 510 U | 470 U | 530 U |
| 2-Chlorophenol | NS | NS | 8,800 U | 8,600 U | 2,200 U | 510 U | 470 U | 530 U |
| 2-Methylnaphthalene | NS | NS | 7,400 U | 7,100 U | 1,800 U | 420 U | 390 U | 440 U |
| 2-Methylphenol | NS | NS | 8,800 U | 8,600 U | 2,200 U | 510 U | 470 U | 530 U |
| 2-Nitroaniline | NS | NS | 7,400 U | 7,100 U | 1,800 U | 420 U | 390 U | 440 U |
| 2-Nitrophenol | NS | NS | 29,000 U | 28,000 U | 7,300 U | 1,700 U | 1,600 U | 1,800 U |
| 3,3'-Dichlorobenzidine | NS | NS | 15,000 U | 14,000 U | 3,700 U | 840 U | 780 U | 880 U |
| 3-Methylphenol/4-Methylphenol | NS | NS | 8,800 U | 8,600 U | 2,200 U | 510 U | 470 U | 530 U |
| 3-Nitroaniline | NS | NS | 7,400 U | 7,100 U | 1,800 U | 420 U | 390 U | 440 U |
| 4,6-Dinitro-o-cresol | NS | NS | 29,000 U | 28,000 U | 7,300 U | 1,700 U | 1,600 U | 1,800 U |
| 4-Bromophenyl phenyl ether | NS | NS | 7,400 U | 7,100 U | 1,800 U | 420 U | 390 U | 440 U |
| 4-Chloroaniline | NS | NS | 7,400 U | 7,100 U | 1,800 U | 420 U | 390 U | 440 U |
| 4-Chlorophenyl phenyl ether | NS | NS | 7,400 U | 7,100 U | 1,800 U | 420 U | 390 U | 440 U |
| 4-Nitroaniline | NS | NS | 10,000 U | 10,000 U | 2,600 U | 590 U | 550 U | 610 U |
| 4-Nitrophenol | NS | NS | 15,000 U | 14,000 U | 3,700 U | 840 U | 780 U | 880 U |
| Acenaphthene | 20000 | 100000 | 7,400 U | 7,100 U | 1,800 U | 420 U | 390 U | 440 U |
| Acenaphthylene | 100000 | 100000 | 7,400 U | 7,100 U | 1,800 U | 420 U | 390 U | 440 U |
| Acetophenone | NS | NS | 29,000 U | 28,000 U | 7,300 U | 1,700 U | 1,600 U | 1,800 U |
| Anthracene | 100000 | 100000 | 7,400 U | 7,100 U | 1,800 U | 420 U | 390 U | 440 U |
| Benzo(a)anthracene | 1000 | 1000 | 7,400 U | 7,100 U | 1,800 U | 420 U | 390 U | 440 U |
| Benzo(a)pyrene | 1000 | 1000 | 7,400 U | 7,100 U | 1,800 U | 420 U | 390 U | 440 U |
| Benzo(b)fluoranthene | 1000 | 1000 | 7,400 U | 7,100 U | 1,800 U | 420 U | 390 U | 440 U |
| Benzo(ghi)perylene | 100000 | 100000 | 7,400 U | 7,100 U | 1,800 U | 420 U | 390 U | 440 U |
| Benzo(k)fluoranthene | 800 | 3900 | 7,400 U | 7,100 U | 1,800 U | 420 U | 390 U | 440 U |
| Benzoic Acid | NS | NS | 74,000 U | 71,000 U | 18,000 U | 4,200 U | 3,900 U | 4,400 U |
| Benzyl Alcohol | NS | NS | 15,000 U | 14,000 U | 3,700 U | 840 U | 780 U | 880 U |
| Biphenyl | NS | NS | 7,400 U | 7,100 U | 1,800 U | 420 U | 390 U | 440 U |
| Bis(2-chloroethoxy)methane | NS | NS | 7,400 U | 7,100 U | 1,800 U | 420 U | 390 U | 440 U |
| Bis(2-chloroethoxy)ether | NS | NS | 7,400 U | 7,100 U | 1,800 U | 420 U | 390 U | 440 U |
| Bis(2-chloroisopropoxy)ether | NS | NS | 7,400 U | 7,100 U | 1,800 U | 420 U | 390 U | 440 U |
| Bis(2-Ethylhexyloxy)phthalate | NS | NS | 15,000 U | 200,000 | 3,700 U | 840 U | 780 U | 880 U |
| Butyl benzyl phthalate | NS | NS | 7,400 U | 7,100 U | 1,800 U | 420 U | 390 U | 440 U |
| Carbazole | NS | NS | 7,400 U | 7,100 U | 1,800 U | 420 U | 390 U | 440 U |
| Chrysene | 1000 | 3900 | 7,400 U | 7,100 U | 1,800 U | 420 U | 390 U | 440 U |
| Di-n-butylphthalate | NS | NS | 7,400 U | 7,100 U | 1,800 U | 420 U | 390 U | 440 U |
| Di-n-octylphthalate | NS | NS | 7,400 U | 7,100 U | 1,800 U | 420 U | 390 U | 440 U |
| Dibenzo(a,h)anthracene | 330 | 330 | 7,400 U | 7,100 U | 1,800 U | 420 U | 390 U | 440 U |
| Dibenzofuran | NS | NS | 7,400 U | 7,100 U | 1,800 U | 420 U | 390 U | 440 U |
| Diethyl phthalate | NS | NS | 7,400 U | 7,100 U | 1,800 U | 420 U | 390 U | 440 U |
| Dimethyl phthalate | NS | NS | 7,400 U | 7,100 U | 1,800 U | 420 U | 390 U | 440 U |
| Fluoranthene | 100000 | 100000 | 7,400 U | 7,100 U | 1,800 U | 420 U | 390 U | 440 U |
| Fluorene | 30000 | 100000 | 7,400 U | 7,100 U | 1,800 U | 420 U | 390 U | 440 U |
| Hexachlorobenzene | NS | NS | 7,400 U | 7,100 U | 1,800 U | 420 U | 390 U | 440 U |
| Hexachlorobutadiene | NS | NS | 15,000 U | 14,000 U | 3,700 U | 840 U | 780 U | 880 U |
| Hexachlorocyclopentadiene | NS | NS | 15,000 U | 14,000 U | 3,700 U | 840 U | 780 U | 880 U |
| Hexachloroethane | NS | NS | 7,400 U | 7,100 U | 1,800 U | 420 U | 390 U | 440 U |
| Indeno(1,2,3-cd)Pyrene | 500 | 500 | 7,400 U | 7,100 U | 1,800 U | 420 U | 390 U | 440 U |
| Isophorone | NS | NS | 7,400 U | 7,100 U | 1,800 U | 420 U | 390 U | 440 U |
| n-Nitrosodi-n-propylamine | NS | NS | 7,400 U | 7,100 U | 1,800 U | 420 U | 390 U | 440 U |
| Naphthalene | 12000 | 100000 | 7,400 U | 7,100 U | 1,800 U | 420 U | 390 U | 440 U |
| Nitrobenzene | NS | NS | 7,400 U | 7,100 U | 1,800 U | 420 U | 390 U | 440 U |
| NitrosoDiPhenyl(Amine)(NDPA)/DPA | NS | NS | 22,000 U | 21,000 U | 5,500 U | 1,300 U | 1,200 U | 1,300 U |
| p-Chloro-M-Cresol | NS | NS | 7,400 U | 7,100 U | 1,800 U | 420 U | 390 U | 440 U |
| Pentachlorophenol | 800 | 6700 | 29,000 U | 28,000 U | 7,300 U | 1,700 U | 1,600 U | 1,800 U |
| Phenanthrene | 100000 | 100000 | 7,400 U | 7,100 U | 1,800 U | 420 U | 390 U | 440 U |
| Phenol | 330 | 100000 | 10,000 U | 10,000 U | 2,400 U | 590 U | 550 U | 610 U |
| Pyrene | 100000 | 100000 | 7,400 U | 7,100 U | 1,800 U | 420 U | 390 U | 440 U |
| Semivolatile Organics by EPA 8270C-SM | | | | | | | | |
| 2-Chloronaphthalene | NS | NS | 2,000 U | 1,900 U | 1,500 U | 84 U | 16 U | 18 U |
| 2-Methylnaphthalene | NS | NS | 2,400 | 1,900 U | 1,500 U | 84 U | 16 U | 18 U |
| Acenaphthene | 20000 | 100000 | 2,000 U | 1,900 U | 1,500 U | 84 U | 16 U | 18 U |
| Acenaphthylene | 100000 | 100000 | 2,000 U | 1,900 U | 1,500 U | 84 U | 47 | 18 U |
| Anthracene | 100000 | 100000 | 2,000 U | 1,900 U | 1,500 U | 84 U | 17 | 18 U |
| Benzo(a)anthracene | 1000 | 1000 | 2,000 U | 1,900 U | 1,500 U | 84 U | 96 | 18 U |
| Benzo(a)pyrene | 1000 | 1000 | 4,200 | 1,900 U | 1,500 U | 84 U | 120 | 18 U |
| Benzo(b)fluoranthene | 1000 | 1000 | 3,900 | 3,300 | 1,500 U | 84 U | 110 | 18 U |
| Benzo(ghi)perylene | 100000 | 100000 | 4,500 | 1,900 U | 1,500 U | 84 U | 100 | 18 U |
| Benzo(k)fluoranthene | 800 | 3900 | 4,000 | 3,300 | 1,500 U | 84 U | 100 | 18 U |
| Chrysene | 1000 | 3900 | 2,000 | 1,900 U | 1,500 U | 84 U | 77 | 18 U |
| Dibenzo(a,h)anthracene | 3300 | 330 | 2,000 U | 1,900 U | 1,500 U | 84 U | 49 | 18 U |
| Fluoranthene | 100000 | 100000 | 5,700 | 4,300 | 1,500 U | 84 U | 75 | 18 U |
| Fluorene | 30000 | 100000 | 2,000 U | 1,900 U | 1,500 U | 84 U | 16 U | 18 U |
| Hexachlorobenzene | NS | NS | 7,800 U | 7,600 U | 5,900 U | 340 U | 63 U | 70 U |
| Hexachlorobutadiene | NS | NS | 4,900 U | 4,800 U | 3,700 U | 210 U | 39 U | 44 U |
| Hexachloroethane | NS | NS | 7,800 U | 7,600 U | 5,900 U | 340 U | 63 U | 70 U |
| Indeno(1,2,3-cd)Pyrene | 500 | 500 | 4,800 | 1,900 U | 1,500 U | 84 U | 91 | 18 U |
| Naphthalene | 12000 | 100000 | 2,000 U | 1,900 U | 1,500 U | 84 U | 16 U | 18 U |
| Pentachlorophenol | 800 | 6700 | 7,800 U | 7,600 U | 5,900 U | 340 U | 63 U | 70 U |
| Phenanthrene | 100000 | 100000 | 2,600 | 1,900 U | 1,500 U | 84 U | 16 U | 18 U |
| Pyrene | 100000 | 100000 | 5,800 | 4,500 | 1,500 U | 84 U | 75 | 18 U |

Notes:
All concentrations are µg/kg (ppb)
*Unrestricted Use Soil Cleanup Objectives (SCO) 6 NYCRR Part 375, Envir
*Restricted-Residential Soil Cleanup Objectives (SCO) 6 NYCRR Part 375
U - Analyte not detected above the laboratory MDL
J - Estimated value
NS - No standard established
Bold text indicates compounds above the laboratory MDL
Green highlighting indicates exceedance of Unrestricted Use SCO
Yellow highlighting indicates exceedance of Restricted Residential SCC

Table 8
Leaching Structure Soil/Sediment Sample Analytical Data Summary
Total Metals
Former Darby Drugs Distribution Center

| SAMPLE ID | Unrestricted SCO ¹ | Restricted Residential SCO ² | PWG-DW-2008-01 | PWG-DW-2008-02 | PWG-DW-2008-03 | PWG-DW-2008-04 | PWG-DW-2008-05 | PWG-DW-2008-06 | PWG-DW-2008-07 | PWG-DW-2008-09 |
|---------------------|----------------------------------|---|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| LAB SAMPLE ID | | | 9/8/2008 | 9/8/2008 | 9/8/2008 | 9/8/2008 | 9/8/2008 | 9/8/2008 | 9/8/2008 | 9/8/2008 |
| SAMPLING DATE | | | L0813344-04 | L0813344-05 | L0813344-06 | L0813344-07 | L0813344-08 | L0813344-09 | L0813344-10 | L0813344-12 |
| SAMPLE DEPTH (ft.) | | | 7.25-7.75 | 5.25-5.75 | 8.75-9.25 | 7.25-7.75 | 6.75-7.25 | 6.75-7.25 | 6.75-7.25 | 6.75-7.25 |
| Total Metals | | | | | | | | | | |
| Aluminum | NS | NS | 4,300 | 2,600 | 1,300 | 1,400 | 1,200 | 1,100 | 1,400 | 2,500 |
| Antimony | NS | NS | 2.7 U | 2.9 U | 2.9 U | 3.2 U | 2.7 U | 2.9 U | 3.2 U | 3 U |
| Arsenic | 13 | 16 | 3.6 | 0.83 | 0.69 | 0.84 | 1.1 | 0.8 | 0.82 | 0.77 |
| Barium | 350 | 400 | 28 | 9.8 | 5.2 | 9.7 | 17 | 12 | 7.8 | 9.7 |
| Beryllium | 7.2 | 72 | 0.27 U | 0.29 U | 0.29 U | 0.32 U | 0.27 U | 0.29 U | 0.32 U | 0.3 U |
| Cadmium | 2.5 | 4.3 | 2.5 | 0.58 U | 0.58 U | 0.64 U | 0.53 U | 0.57 U | 0.64 U | 0.59 U |
| Calcium | NS | NS | 6,700 | 24,000 | 560 | 3,600 | 8,900 | 14,000 | 13,000 | 230 |
| Chromium | 30 | 180 | 14 | 2.3 | 2.7 | 3.6 | 2.3 | 2 | 9.2 | 6.3 |
| Cobalt | NS | NS | 2.6 | 3.3 | 1.2 U | 1.3 U | 1.1 U | 1.1 U | 1.3 U | 1.2 U |
| Copper | 50 | 270 | 54 | 18 | 4.6 | 5.1 | 3.1 | 5.6 | 14 | 4.9 |
| Iron | NS | NS | 5,300 | 6,700 | 1,800 | 3,000 | 2,400 | 2,000 | 2,400 | 3,600 |
| Lead | 63 | 400 | 470 | 20 | 30 | 35 | 32 | 26 | 60 | 21 |
| Magnesium | NS | NS | 4,400 | 15,000 | 520 | 2,100 | 5,700 | 8,600 | 8,800 | 460 |
| Manganese | 1600 | 2000 | 37 | 58 | 13 | 20 | 34 | 29 | 26 | 13 |
| Mercury | 0.18 | 0.81 | 0.21 | 0.1 U | 0.09 U | 0.09 U | 0.09 U | 0.09 U | 0.11 U | 0.1 U |
| Nickel | 30 | 310 | 11 | 3.6 | 2 | 2.1 | 1.4 | 1.6 | 3.7 | 3 |
| Potassium | NS | NS | 260 | 220 | 140 U | 160 U | 130 U | 140 U | 170 | 150 U |
| Selenium | 3.9 | 180 | 1.1 U | 1.2 U | 1.2 U | 1.3 U | 1.1 U | 1.1 U | 1.3 U | 1.2 U |
| Silver | 2 | 180 | 1.2 | 0.58 U | 0.58 U | 0.64 U | 0.53 U | 0.57 U | 0.64 U | 0.59 U |
| Sodium | NS | NS | 110 U | 150 | 120 U | 130 U | 110 U | 110 U | 130 U | 120 U |
| Thallium | NS | NS | 1.1 U | 1.2 U | 1.2 U | 1.3 U | 1.1 U | 1.1 U | 1.3 U | 1.2 U |
| Vanadium | NS | NS | 31 | 24 | 4.1 | 5.6 | 3.2 | 3.1 | 9.3 | 9.9 |
| Zinc | 109 | 10000 | 250 | 120 | 29 | 45 | 21 | 31 | 110 | 78 |

Notes:

All concentrations are mg/kg (ppm)

¹Unrestricted Use Soil Cleanup Objectives (SCO) 6 NYCRR Part 375, Environmental Remediation Programs, December 2006

²Restricted-Residential Soil Cleanup Objectives (SCO) 6 NYCRR Part 375, Environmental Remediation Programs, December 2006

U - Analyte not detected above the laboratory MDL

J - Estimated value

NS - No standard established

Bold text indicates compounds above the laboratory MDL

Green highlighting indicates exceedance of Unrestricted Use SCO

Yellow highlighting indicates exceedance of Restricted Residential SCO

Table 8
Leaching Structure Soil/Sediment Sample Analytical Data Summary
Total Metals
Former Darby Drugs Distribution Center

| SAMPLE ID | Unrestricted SCO ¹ | Restricted Residential SCO ² | PWG-DW-2008-10 9/8/2008 L0813344-13 6.25-6.75 | PWG-DW-2008-11 9/8/2008 L0813344-14 6.75-7.25 | PWG-DW-2008-12 9/8/2008 L0813344-15 7.25-7.75 | PWG-DW-2008-13 9/8/2008 L0813344-16 7.25-7.75 | PWG-DW-2008-14 9/8/2008 L0813344-17 6-6.5 | PWG-DW-2008-15 9/8/2008 L0813344-18 7-7.5 | PWG-DW-2008-16 9/8/2008 L0813344-21 5.5-6 | PWG-DW-2008-17 9/8/2008 L0813344-22 5.5-6 |
|--------------|----------------------------------|---|--|--|--|--|--|--|--|--|
| Total Metals | | | | | | | | | | |
| Aluminum | NS | NS | 3,000 | 1,900 | 3,000 | 1,500 | 2,300 | 1,700 J | 1,600 | 3,700 |
| Antimony | NS | NS | 3.3 U | 2.9 U | 3 U | 2.8 U | 3.5 U | 2.8 J | 2.7 U | 2.8 U |
| Arsenic | 13 | 16 | 1.3 | 1.6 | 1.2 | 1.1 | 0.95 | 1.3 J | 1.5 | 3.2 |
| Barium | 350 | 400 | 18 | 15 | 48 | 16 | 13 | 16 J | 20 | 32 |
| Beryllium | 7.2 | 72 | 0.33 U | 0.29 U | 0.3 U | 0.28 U | 0.35 U | 0.28 U | 0.27 U | 0.28 U |
| Cadmium | 2.5 | 4.3 | 1 | 0.58 U | 0.59 U | 0.57 U | 0.7 U | 0.57 U | 0.54 U | 0.56 U |
| Calcium | NS | NS | 53,000 | 14,000 | 17,000 | 7,000 | 10,000 | 6,600 J | 33,000 | 8,200 |
| Chromium | 30 | 180 | 7.3 | 6.5 | 5.7 | 2.5 | 6.4 | 5.2 | 3.1 | 12 |
| Cobalt | NS | NS | 1.5 | 1.2 | 1.5 | 1.1 U | 2.8 | 1.1 U | 1.4 | 2.1 |
| Copper | 50 | 270 | 25 | 14 | 6 | 3.1 | 22 | 4.7 J | 5.8 | 20 |
| Iron | NS | NS | 5,000 | 2,700 | 4,600 | 2,400 | 6,200 | 4,600 J | 3,200 | 7,700 |
| Lead | 63 | 400 | 82 | 70 | 42 | 26 | 65 | 36 J | 51 | 160 |
| Magnesium | NS | NS | 32,000 | 8,500 | 12,000 | 3,900 | 6,300 | 2,900 J | 19,000 | 5,400 |
| Manganese | 1600 | 2000 | 87 | 29 | 47 | 31 | 43 | 47 | 53 | 58 |
| Mercury | 0.18 | 0.81 | 0.42 | 0.31 | 0.1 U | 0.09 U | 0.13 | 0.09 UJ | 0.08 U | 0.17 |
| Nickel | 30 | 310 | 5.9 | 3.8 | 2.6 | 1.4 | 4.7 | 2 J | 2.8 | 6 |
| Potassium | NS | NS | 210 | 160 | 620 | 140 U | 180 U | 140 U | 220 | 240 |
| Selenium | 3.9 | 180 | 1.3 U | 1.2 U | 1.2 U | 1.1 U | 1.4 U | 1.1 U | 1.1 U | 1.1 U |
| Silver | 2 | 180 | 0.65 U | 0.58 U | 0.59 U | 0.57 U | 0.7 U | 0.57 U | 0.54 U | 0.56 U |
| Sodium | NS | NS | 130 U | 120 U | 120 U | 110 U | 170 | 110 U | 110 U | 110 U |
| Thallium | NS | NS | 1.3 U | 1.2 U | 1.2 U | 1.1 U | 1.4 U | 1.1 UJ | 1.1 U | 1.1 U |
| Vanadium | NS | NS | 12 | 8.9 | 8.6 | 3.8 | 21 | 5.9 J | 4.8 | 14 |
| Zinc | 109 | 10000 | 170 | 69 | 42 | 24 | 100 | 35 J | 47 | 140 |

Notes:

All concentrations are mg/kg (ppm)

¹Unrestricted Use Soil Cleanup Objectives (SCO) 6 NYCRR P:

²Restricted-Residential Soil Cleanup Objectives (SCO) 6 NYC

U - Analyte not detected above the laboratory MDL

J - Estimated value

NS - No standard established

Bold text indicates compounds above the laboratory MDL

Green highlighting indicates exceedance of Unrestricted U

Yellow highlighting indicates exceedance of Restricted Re:

Table 8
Leaching Structure Soil/Sediment Sample Analytical Data Summary
Total Metals
Former Darby Drugs Distribution Center

| SAMPLE ID | Unrestricted SCO ¹ | Restricted Residential SCO ² | PWG-DW-2008-18 9/8/2008 L0813344-23 4-4.5 | PWG-DW-2008-19 9/8/2008 L0813344-24 4.5-5 | PWG-DW-2008-20 9/8/2008 L0813344-25 4.5-5 | PWG-DW-2008-22 9/8/2008 L0813344-26 5.25-5.75 | PWG-DW-2008-23 9/8/2008 L0813344-27 3-3.5 | PWG-DW-2008-24 9/8/2008 L0813344-28 6-6.5 | PWG-DW-2008-25 9/8/2008 L0813344-29 5.75-6.25 | PWG-DW-2008-26 9/8/2008 L0813344-30 4.25-4.75 |
|---------------------|----------------------------------|---|--|--|--|--|--|--|--|--|
| LAB SAMPLE ID | | | | | | | | | | |
| SAMPLING DATE | | | | | | | | | | |
| SAMPLE DEPTH (ft.) | | | | | | | | | | |
| Total Metals | | | | | | | | | | |
| Aluminum | NS | NS | 1,500 | 2,500 | 4,500 | 2,200 | 1,400 | 2,800 | 16,000 | 1,100 |
| Antimony | NS | NS | 3 U | 2.8 U | 3.4 U | 2.6 U | 3 U | 3.1 U | 3 U | 2.9 U |
| Arsenic | 13 | 16 | 0.76 | 1.6 | 1.6 | 7.2 | 1 | 1.4 | 3 | 0.58 U |
| Barium | 350 | 400 | 7.9 | 24 | 46 | 6.9 | 10 | 6.2 | 43 | 7.3 |
| Beryllium | 7.2 | 72 | 0.3 U | 0.28 U | 0.34 U | 0.34 | 0.3 U | 0.31 U | 0.3 U | 0.29 U |
| Cadmium | 2.5 | 4.3 | 0.6 U | 0.56 U | 3.3 | 0.53 U | 0.61 U | 0.61 U | 0.6 U | 0.58 U |
| Calcium | NS | NS | 31,000 | 7,200 | 10,000 | 11,000 | 13,000 | 3,400 | 3,900 | 6,400 |
| Chromium | 30 | 180 | 7.8 | 6.8 | 22 | 26 | 10 | 7.2 | 20 | 4.7 |
| Cobalt | NS | NS | 2.3 | 1.4 | 4.6 | 1.7 | 2 | 1.2 U | 4.4 | 1.6 |
| Copper | 50 | 270 | 42 | 12 | 73 | 6.1 | 170 | 13 | 14 | 11 |
| Iron | NS | NS | 6,000 | 5,000 | 10,000 | 15,000 | 7,600 | 4,400 | 24,000 | 3,600 |
| Lead | 63 | 400 | 44 | 120 | 960 | 12 | 67 | 37 | 13 | 14 |
| Magnesium | NS | NS | 18,000 | 4,000 | 6,700 | 7,200 | 8,300 | 2,300 | 5,200 | 4,000 |
| Manganese | 1600 | 2000 | 64 | 38 | 89 | 34 | 58 | 15 | 130 | 34 |
| Mercury | 0.18 | 0.81 | 0.1 U | 0.09 U | 1.1 | 0.09 U | 0.13 | 0.29 | 0.1 U | 0.1 U |
| Nickel | 30 | 310 | 5.4 | 3.5 | 17 | 3.8 | 13 | 4 | 12 | 2.3 |
| Potassium | NS | NS | 150 U | 180 | 320 | 130 | 180 | 150 U | 1300 | 150 U |
| Selenium | 3.9 | 180 | 1.2 U | 1.1 U | 1.3 U | 1 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U |
| Silver | 2 | 180 | 0.6 U | 0.56 U | 0.67 U | 0.53 U | 0.61 U | 0.61 U | 0.6 U | 0.58 U |
| Sodium | NS | NS | 120 U | 110 U | 300 | 100 U | 120 U | 120 U | 120 U | 120 U |
| Thallium | NS | NS | 1.2 U | 1.1 U | 1.3 U | 2.1 U | 1.2 U | 1.2 U | 2.4 U | 1.2 U |
| Vanadium | NS | NS | 19 | 8.4 | 43 | 14 | 12 | 10 | 31 | 17 |
| Zinc | 109 | 10000 | 50 | 110 | 340 | 24 | 180 | 54 | 37 | 54 |

Notes:

All concentrations are mg/kg (ppm)

¹Unrestricted Use Soil Cleanup Objectives (SCO) 6 NYCRR P:

²Restricted-Residential Soil Cleanup Objectives (SCO) 6 NYC

U - Analyte not detected above the laboratory MDL

J - Estimated value

NS - No standard established

Bold text indicates compounds above the laboratory MDL

Green highlighting indicates exceedance of Unrestricted U

Yellow highlighting indicates exceedance of Restricted Re:

Table 8
Leaching Structure Soil/Sediment Sample Analytical Data Summary
Total Metals
Former Darby Drugs Distribution Center

| SAMPLE ID | Unrestricted SCO ¹ | Restricted Residential SCO ² | PWG-DW-2008-27 L0813447-02 9/10/2008 12.5-13 | PWG-DW-2008-28 L0813447-03 9/10/2008 12-12.5 | PWG-DW-2008-29 L0813447-04 9/10/2008 10-10.5 | PWG-DW-2008-30 L0813447-05 9/10/2008 8.5-9 | PWG-DW-2008-31 L0813447-06 9/10/2008 8-8.5 | PWG-DW-2008-33 L0813447-07 9/10/2008 7-7.5 | PWG-DW-2008-34 L0813447-08 9/10/2008 5.5-6 | PWG-DW-2008-37 L0813447-09 9/10/2008 11-11.5 |
|---------------------|----------------------------------|---|---|---|---|---|---|---|---|---|
| LAB SAMPLE ID | | | | | | | | | | |
| SAMPLING DATE | | | | | | | | | | |
| SAMPLE DEPTH (ft.) | | | | | | | | | | |
| Total Metals | | | | | | | | | | |
| Aluminum | NS | NS | 15,000 | 12,000 | 2,100 | 7,000 | 5,400 | 2,300 | 4,200 | 9,600 |
| Antimony | NS | NS | 3.2 U | 3.4 U | 3 U | 5 U | 3.6 U | 3.6 U | 3.7 UJ | 4.2 U |
| Arsenic | 13 | 16 | 0.9 | 2.1 | 0.61 U | 1.1 | 1.3 | 0.92 | 1.3 | 4.2 |
| Barium | 350 | 400 | 37 | 41 | 9.3 | 74 | 35 | 21 | 41 | 58 |
| Beryllium | 7.2 | 72 | 0.36 | 0.45 | 0.3 U | 0.5 U | 0.36 U | 0.36 U | 0.37 U | 0.42 U |
| Cadmium | 2.5 | 4.3 | 0.63 | 2.2 | 0.61 U | 4 | 1.2 | 0.84 | 1.8 | 6.3 |
| Calcium | NS | NS | 520 | 760 | 130 | 20,000 | 4,700 | 12,000 | 14,000 | 3,100 |
| Chromium | 30 | 180 | 15 | 14 | 3.2 | 120 | 29 | 30 | 39 J | 91 |
| Cobalt | NS | NS | 4 | 5.7 | 1.2 U | 6.2 | 2.6 | 1.8 | 3 | 5.5 |
| Copper | 50 | 270 | 13 | 30 | 6.9 | 96 | 24 | 24 | 35 J | 240 |
| Iron | NS | NS | 16,000 | 11,000 | 2,500 | 10,000 | 7,400 | 3,700 | 7,900 | 11,000 |
| Lead | 63 | 400 | 10 | 160 | 36 | 970 | 520 | 210 | 300 J | 890 |
| Magnesium | NS | NS | 3,200 | 1,200 | 340 | 9,900 | 3,200 | 7,300 | 8,300 | 2,200 |
| Manganese | 1600 | 2000 | 120 | 66 | 15 | 110 | 54 | 36 | 54 J | 64 |
| Mercury | 0.18 | 0.81 | 0.1 U | 0.12 U | 0.1 U | 0.85 | 0.59 | 0.27 | 4.1 | 1.6 |
| Nickel | 30 | 310 | 14 | 15 | 3.4 | 34 | 14 | 9.7 | 14 | 42 |
| Potassium | NS | NS | 1100 | 480 | 160 | 540 | 340 | 200 | 300 | 650 |
| Selenium | 3.9 | 180 | 1.3 U | 1.4 U | 1.2 U | 2 U | 1.4 U | 1.4 U | 1.5 U | 2.5 |
| Silver | 2 | 180 | 0.63 U | 0.68 U | 0.61 U | 1.3 | 0.72 U | 0.72 U | 4.4 | 2.9 |
| Sodium | NS | NS | 130 U | 140 U | 120 U | 3200 | 140 U | 140 U | 150 U | 170 U |
| Thallium | NS | NS | 1.3 U | 1.4 U | 1.2 U | 2 U | 1.4 U | 1.4 U | 1.5 U | 1.7 U |
| Vanadium | NS | NS | 27 | 30 | 5.3 | 58 | 33 | 22 | 26 | 70 |
| Zinc | 109 | 10000 | 61 | 210 | 64 | 480 | 240 | 170 | 270 | 730 |

Notes:

All concentrations are mg/kg (ppm)

¹Unrestricted Use Soil Cleanup Objectives (SCO) 6 NYCRR Pt.

²Restricted-Residential Soil Cleanup Objectives (SCO) 6 NYC

U - Analyte not detected above the laboratory MDL

J - Estimated value

NS - No standard established

Bold text indicates compounds above the laboratory MDL

Green highlighting indicates exceedance of Unrestricted U

Yellow highlighting indicates exceedance of Restricted Re:

Table 8
Leaching Structure Soil/Sediment Sample Analytical Data Summary
Total Metals
Former Darby Drugs Distribution Center

| SAMPLE ID | Unrestricted SCO ¹ | Restricted Residential SCO ² | PWG-DW-2008-38 L0813447-11 9/10/2008 7-7.5 | PWG-DW-2008-39 L0813447-12 9/10/2008 8.5-9 | PWG-DW-2008-40 L0813447-13 9/10/2008 6-6.5 | PWG-DW-2008-41 L0813447-14 9/10/2008 9-9.5 | PWG-LP-2008-01 9/8/2008 L0813344-20 7.75-8.25 | PWG-LP-2008-01 10/3/2008 L0814755-01 9-11 |
|---------------------|----------------------------------|---|---|---|---|---|--|--|
| LAB SAMPLE ID | | | | | | | | |
| SAMPLING DATE | | | | | | | | |
| SAMPLE DEPTH (ft.) | | | | | | | | |
| Total Metals | | | | | | | | |
| Aluminum | NS | NS | 2,600 | 2,900 | 2,400 | 820 | 1,500 | 1,500 |
| Antimony | NS | NS | 3.5 U | 3.3 U | 2.5 U | 3.1 U | 2.8 U | 3.2 U |
| Arsenic | 13 | 16 | 1 | 0.91 | 0.51 | 0.62 U | 1.1 | 0.64 U |
| Barium | 350 | 400 | 24 | 24 | 15 | 1.8 | 12 | 9.6 |
| Beryllium | 7.2 | 72 | 0.35 U | 0.33 U | 0.25 U | 0.31 U | 0.28 U | 0.32 U |
| Cadmium | 2.5 | 4.3 | 0.77 | 1.4 | 0.82 | 0.62 U | 0.56 U | 0.64 U |
| Calcium | NS | NS | 28,000 | 16,000 | 16,000 | 170 | 710 | 440 |
| Chromium | 30 | 180 | 25 | 30 | 13 | 4 | 5.6 | 6.9 |
| Cobalt | NS | NS | 2.3 | 2.3 | 2 | 1.2 U | 2 | 1.3 U |
| Copper | 50 | 270 | 33 | 39 | 12 | 3.6 | 160 | 36 |
| Iron | NS | NS | 5,900 | 4,600 | 5,300 | 1,300 | 10,000 | 6,600 |
| Lead | 63 | 400 | 120 | 170 | 90 | 5 | 59 | 23 |
| Magnesium | NS | NS | 18,000 | 10,000 | 10,000 | 120 | 700 | 410 |
| Manganese | 1600 | 2000 | 77 | 49 | 85 | 3.4 | 66 | 33 |
| Mercury | 0.18 | 0.81 | 0.37 | 0.45 | 1 | 0.17 | 0.1 | 0.1 U |
| Nickel | 30 | 310 | 9.2 | 11 | 7.8 | 1.5 | 5.4 | 3 |
| Potassium | NS | NS | 330 | 340 | 260 | 150 U | 140 U | 160 U |
| Selenium | 3.9 | 180 | 1.4 U | 1.3 U | 1 U | 1.2 U | 1.1 U | 1.3 U |
| Silver | 2 | 180 | 0.98 | 0.7 | 0.76 | 0.62 U | 0.56 U | 0.64 U |
| Sodium | NS | NS | 140 U | 130 U | 100 U | 120 U | 110 U | 130 U |
| Thallium | NS | NS | 1.4 U | 1.3 U | 1 U | 1.2 U | 1.1 U | 1.3 U |
| Vanadium | NS | NS | 25 | 26 | 13 | 2.1 | 3.8 | 6 |
| Zinc | 109 | 10000 | 270 | 390 | 160 | 18 | 360 | 120 |

Notes:

All concentrations are mg/kg (ppm)

¹Unrestricted Use Soil Cleanup Objectives (SCO) 6 NYCRR P:

²Restricted-Residential Soil Cleanup Objectives (SCO) 6 NYC

U - Analyte not detected above the laboratory MDL

J - Estimated value

NS - No standard established

Bold text indicates compounds above the laboratory MDL

Green highlighting indicates exceedance of Unrestricted U

Yellow highlighting indicates exceedance of Restricted Re:

Table 9
Historical Storm Drain Soil/Sediment Sample Analytical Data Summary
Volatile Organic Compounds
Former Darby Drugs Distribution Center

| SAMPLE ID | Unrestricted SCO¹ | Restricted Residential SCO² | SD-1 240847.01 3/3/2004 | SD-2 240847.02 3/3/2004 | SD-3 240847.03 3/3/2004 | SD-4 240847.04 3/3/2004 | SD-5 240847.05 3/3/2004 | SD-6 240847.06 3/3/2004 | SD-7 240847.07 3/3/2004 |
|---------------------------------------|----------------------|-----------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| LAB SAMPLE ID | | | | | | | | | |
| SAMPLING DATE | | | | | | | | | |
| SAMPLE DEPTH (ft.) | | | | | | | | | |
| Volatile Organics by EPA 8260B | | | | | | | | | |
| Tetrachloroethene | 1,300 | 19,000 | 20 | 7.2 U | 1,100 | 6.8 U | 6.8 U | 6.7 U | 6.9 U |
| Trichloroethene | 470 | 21,000 | 24 | 7.2 U | 36 | 6.8 U | 6.8 U | 6.7 U | 6.9 U |
| cis-1,2-Dichloroethene | 250 | 100,000 | 7.6 U | 7.2 U | 7.2 U | 6.8 U | 6.8 U | 6.7 U | 6.9 U |
| trans-1,2-Dichloroethene | 190 | 100,000 | 7.6 U | 7.2 U | 7.2 U | 6.8 U | 6.8 U | 6.7 U | 6.9 U |
| 1,1-Dichloroethene | 330 | 100,000 | 7.6 U | 7.2 U | 7.2 U | 6.8 U | 6.8 U | 6.7 U | 6.9 U |
| Vinyl chloride | 20 | 900 | 7.6 U | 7.2 U | 7.2 U | 6.8 U | 6.8 U | 6.7 U | 6.9 U |
| 1,1,1-Trichloroethane | 680 | 100,000 | 7.6 U | 7.2 U | 7.2 U | 6.8 U | 6.8 U | 6.7 U | 6.9 U |
| 1,1,1,2,2-Tetrachloroethane | NS | NS | 7.6 U | 7.2 U | 7.2 U | 6.8 U | 6.8 U | 6.7 U | 6.9 U |
| 1,1,2-Trichloroethane | NS | NS | 7.6 U | 7.2 U | 7.2 U | 6.8 U | 6.8 U | 6.7 U | 6.9 U |
| 1,1-Dichloroethane | 270 | 26,000 | 7.6 U | 7.2 U | 7.2 U | 6.8 U | 6.8 U | 6.7 U | 6.9 U |
| 1,1-Dichloropropene | NS | NS | 7.6 U | 7.2 U | 7.2 U | 6.8 U | 6.8 U | 6.7 U | 6.9 U |
| 1,2,3-Trichlorobenzene | NS | NS | 7.6 U | 7.2 U | 7.2 U | 6.8 U | 6.8 U | 6.7 U | 6.9 U |
| 1,2,3-Trichloropropane | NS | NS | 7.6 U | 7.2 U | 7.2 U | 6.8 U | 6.8 U | 6.7 U | 6.9 U |
| 1,2,4-Trichlorobenzene | NS | NS | 7.6 U | 7.2 U | 7.2 U | 6.8 U | 6.8 U | 6.7 U | 6.9 U |
| 1,2,4-Trimethylbenzene | 3,600 | 52,000 | 7.6 U | 7.2 U | 22 | 840 | 6.8 U | 6.7 U | 6.9 U |
| 1,2-Dibromo-3-chloropropane | NS | NS | 7.6 U | 7.2 U | 7.2 U | 6.8 U | 6.8 U | 6.7 U | 6.9 U |
| 1,2-Dibromoethane | NS | NS | 7.6 U | 7.2 U | 7.2 U | 6.8 U | 6.8 U | 6.7 U | 6.9 U |
| 1,2-Dichlorobenzene | 1,100 | 100,000 | 7.6 U | 7.2 U | 7.2 U | 6.8 U | 6.8 U | 6.7 U | 6.9 U |
| 1,2-Dichloroethane | 20 | 3,100 | 7.6 U | 7.2 U | 7.2 U | 6.8 U | 6.8 U | 6.7 U | 6.9 U |
| 1,2-Dichloropropane | NS | NS | 7.6 U | 7.2 U | 7.2 U | 6.8 U | 6.8 U | 6.7 U | 6.9 U |
| 1,3,5-Trimethylbenzene | 8,400 | 52,000 | 7.6 U | 7.2 U | 8.7 | 1,200 | 6.8 U | 6.7 U | 6.9 U |
| 1,3-Dichlorobenzene | 2,400 | 49,000 | 7.6 U | 7.2 U | 48 | 6.8 U | 6.8 U | 6.7 U | 6.9 U |
| 1,3-Dichloropropane | NS | NS | 7.6 U | 7.2 U | 7.2 U | 6.8 U | 6.8 U | 6.7 U | 6.9 U |
| 1,4-Dichlorobenzene | 1,800 | 13,000 | 7.6 U | 7.2 U | 120 | 48 | 6.8 U | 6.7 U | 6.9 U |
| 2,2-Dichloropropane | NS | NS | 7.6 U | 7.2 U | 7.2 U | 6.8 U | 6.8 U | 6.7 U | 6.9 U |
| Acetone | 50 | 100,000 | 110 | 7.2 U | 7.2 U | 6.8 U | 6.8 U | 6.7 U | 6.9 U |
| Benzene | 60 | 4,800 | 7.6 U | 7.2 U | 7.2 U | 6.8 U | 6.8 U | 6.7 U | 6.9 U |
| Bromobenzene | NS | NS | 7.6 U | 7.2 U | 7.2 U | 25 | 6.8 U | 6.7 U | 6.9 U |
| Bromodichloromethane | NS | NS | 7.6 U | 7.2 U | 7.2 U | 6.8 U | 6.8 U | 6.7 U | 6.9 U |
| Bromoform | NS | NS | 7.6 U | 7.2 U | 7.2 U | 6.8 U | 6.8 U | 6.7 U | 6.9 U |
| Carbon tetrachloride | 760 | 2,400 | 7.6 U | 7.2 U | 7.2 U | 6.8 U | 6.8 U | 6.7 U | 6.9 U |
| Chlorobenzene | 1,100 | 100,000 | 7.6 U | 7.2 U | 7.2 U | 55 | 6.8 U | 6.7 U | 6.9 U |
| Chloroform | 370 | 49,000 | 7.6 U | 7.2 U | 7.2 U | 6.8 U | 6.8 U | 6.7 U | 6.9 U |
| cis-1,3-Dichloropropene | NS | NS | 7.6 U | 7.2 U | 7.2 U | 6.8 U | 6.8 U | 6.7 U | 6.9 U |
| Dibromochloromethane | NS | NS | 7.6 U | 7.2 U | 7.2 U | 6.8 U | 6.8 U | 6.7 U | 6.9 U |
| Dibromomethane | NS | NS | 7.6 U | 7.2 U | 7.2 U | 6.8 U | 6.8 U | 6.7 U | 6.9 U |
| Ethylbenzene | 1,000 | 41,000 | 7.6 U | 7.2 U | 23 | 370 | 6.8 U | 6.7 U | 6.9 U |
| Hexachlorobutadiene | NS | NS | 7.6 U | 7.2 U | 7.2 U | 6.8 U | 6.8 U | 6.7 U | 6.9 U |
| Isopropylbenzene | NS | NS | 7.6 U | 7.2 U | 7.2 U | 300 | 6.8 U | 6.7 U | 6.9 U |
| Methylene chloride | 50 | 100,000 | 7.6 U | 7.2 U | 7.2 U | 6.8 U | 6.8 U | 6.7 U | 6.9 U |
| Naphthalene | NS | NS | 7.6 U | 7.2 U | 7.2 U | 89 | 6.8 U | 6.7 U | 6.9 U |
| n-Propylbenzene | 3,900 | 100,000 | 7.6 U | 7.2 U | 10 | 750 | 6.8 U | 6.7 U | 6.9 U |
| o-Xylene | 260 | 100,000 | 11 | 7.2 U | 13 | 110 | 6.8 U | 6.7 U | 6.9 U |
| p/m-Xylene | 260 | 100,000 | 7.6 U | 14 U | 36 | 160 | 14 U | 13 U | 14 U |
| p-Chlorotoluene | NS | NS | 7.6 U | 7.2 U | 7.2 U | 6.8 U | 6.8 U | 6.7 U | 6.9 U |
| p-Isopropyltoluene | NS | NS | 14 | 7.2 U | 140 | 440 | 6.8 U | 6.7 U | 6.9 |
| sec-Butylbenzene | 11,000 | 100,000 | 7.6 U | 7.2 U | 7.2 U | 480 | 6.8 U | 6.7 U | 6.9 U |
| Styrene | NS | NS | 7.6 U | 7.2 U | 7.2 U | 63 | 6.8 U | 6.7 U | 6.9 U |
| tert-Butylbenzene | 5,900 | NS | 7.6 U | 7.2 U | 7.2 U | 6.8 U | 6.8 U | 6.7 U | 6.9 U |
| Toluene | 700 | 100,000 | 7.6 U | 7.2 U | 7.2 U | 160 | 20 | 6.7 U | 13 |
| trans-1,3-Dichloropropene | NS | 100,000 | 7.6 U | 7.2 U | 7.2 U | 6.8 U | 6.8 U | 6.7 U | 6.9 U |
| Trichlorofluoromethane | NS | NS | 7.6 U | 7.2 U | 7.2 U | 6.8 U | 6.8 U | 6.7 U | 6.9 U |

Notes:

All concentrations are µg/kg (ppb)

¹Unrestricted Use Soil Cleanup Objectives (SCO) 6 NYCRR Part 375, Environmental Remediation Programs, December 2006

²Restricted-Residential Soil Cleanup Objectives (SCO) 6 NYCRR Part 375, Environmental Remediation Programs, December 2006

U - Analyte not detected above the laboratory MDL

J - Estimated value

NS - No standard established

Bold text indicates compounds above the laboratory MDL

Green highlighting indicates exceedance of Unrestricted Use SCO

Yellow highlighting indicates exceedance of Restricted Residential SCO

Table 10
Historical Storm Drain Soil/Sediment Sample Analytical Data Summary
Semi-Volatile Organic Compounds
Former Darby Drugs Distribution Center

| SAMPLE ID LAB SAMPLE ID SAMPLING DATE SAMPLE DEPTH (ft.) | Unrestricted SCO ¹ | Restricted Residential SCO ² | SD-1 240847.01 3/3/2004 | SD-2 240847.02 3/3/2004 | SD-3 240847.03 3/3/2004 | SD-4 240847.04 3/3/2004 | SD-5 240847.05 3/3/2004 | SD-6 240847.06 3/3/2004 | SD-7 240847.07 3/3/2004 |
|---|----------------------------------|---|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| Semivolatile Organics by EPA 8270C | | | | | | | | | |
| 1,2,4-Trichlorobenzene | NS | NS | 450 U | 43 U | 430 U | 410 U | 41 U | 40 U | 420 U |
| 1,2-Dichlorobenzene | NS | NS | 450 U | 43 U | 430 U | 410 U | 41 U | 40 U | 420 U |
| 1,3-Dichlorobenzene | NS | NS | 450 U | 43 U | 430 U | 410 U | 41 U | 40 U | 420 U |
| 1,4-Dichlorobenzene | NS | NS | 450 U | 43 U | 430 U | 410 U | 41 U | 40 U | 420 U |
| 2,4-Dinitrotoluene | NS | NS | 450 U | 43 U | 430 U | 410 U | 41 U | 40 U | 420 U |
| 2,6-Dinitrotoluene | NS | NS | 450 U | 43 U | 430 U | 410 U | 41 U | 40 U | 420 U |
| 2-Chloronaphthalene | NS | NS | 450 U | 43 U | 430 U | 410 U | 41 U | 40 U | 420 U |
| 2-Methylnaphthalene | NS | NS | 450 U | 43 U | 430 U | 520 | 41 U | 40 U | 420 U |
| 3,3'-Dichlorobenzidine | NS | NS | 4,500 U | 430 U | 4,300 U | 4,100 U | 410 U | 400 U | 420 U |
| 4-Bromophenyl phenyl ether | NS | NS | 450 U | 43 U | 430 U | 410 U | 41 U | 40 U | 420 U |
| 4-Chlorophenyl phenyl ether | NS | NS | 450 U | 43 U | 430 U | 410 U | 41 U | 40 U | 420 U |
| Acenaphthene | 20,000 | 100,000 | 450 U | 43 U | 430 U | 410 U | 41 U | 40 U | 420 U |
| Acenaphthylene | 100,000 | 100,000 | 450 U | 43 U | 430 U | 410 U | 41 U | 40 U | 420 U |
| Anthracene | 100,000 | 100,000 | 450 U | 43 U | 430 U | 410 U | 88 | 40 U | 420 U |
| Benzo(a)anthracene | 1,000 | 1,000 | 450 U | 43 U | 430 U | 520 | 240 | 75 | 420 U |
| Benzo(a)pyrene | 1,000 | 1,000 | 450 U | 43 U | 430 U | 410 U | 120 | 40 U | 420 U |
| Benzo(b)fluoranthene | 1,000 | 1,000 | 450 U | 43 U | 430 U | 410 U | 150 | 40 U | 420 U |
| Benzo(ghi)perylene | 100,000 | 100,000 | 450 U | 43 U | 430 U | 560 | 110 | 40 U | 420 U |
| Benzo(k)fluoranthene | 800 | 3,900 | 450 U | 43 U | 430 U | 410 U | 150 | 40 U | 420 U |
| Bis(2-chloroethyl)ether | NS | NS | 450 U | 43 U | 430 U | 410 U | 41 U | 40 U | 420 U |
| Bis(2-chloroisopropyl)ether | NS | NS | 450 U | 43 U | 430 U | 410 U | 41 U | 40 U | 420 U |
| Bis(2-Ethylhexyl)phthalate | NS | NS | 6,500 | 220 | 16,000 | 22,000 | 2,600 | 760 | 1,100 |
| Butyl benzyl phthalate | NS | NS | 7,700 | 43 U | 860 | 4,000 | 200 | 240 | 420 U |
| Carbazole | NS | NS | 450 U | 43 U | 430 U | 410 U | 41 U | 40 U | 420 U |
| Chrysene | 1,000 | 3,900 | 450 U | 43 U | 430 U | 730 | 280 | 72 | 490 |
| Di-n-butylphthalate | NS | NS | 450 U | 43 U | 430 U | 2,100 | 41 U | 40 U | 420 U |
| Di-n-octylphthalate | NS | NS | 450 U | 43 U | 430 U | 1,600 | 41 U | 40 U | 780 |
| Dibenzo(a,h)anthracene | 330 | 330 | 450 U | 43 U | 430 U | 410 U | 47 | 40 U | 420 U |
| Dibenzofuran | NS | NS | 450 U | 43 U | 430 U | 410 U | 41 U | 40 U | 420 U |
| Diethyl phthalate | NS | NS | 27,000 | 43 U | 430 U | 1,800 | 42 | 40 U | 420 U |
| Dimethyl phthalate | NS | NS | 450 U | 43 U | 430 U | 410 U | 41 U | 40 U | 420 U |
| Fluoranthene | 100,000 | 100,000 | 450 U | 43 U | 480 | 970 | 340 | 68 | 420 U |
| Fluorene | 30,000 | 100,000 | 450 U | 43 U | 430 U | 440 | 43 | 40 U | 420 U |
| Hexachlorobenzene | NS | NS | 450 U | 43 U | 430 U | 410 U | 41 U | 40 U | 420 U |
| Hexachlorobutadiene | NS | NS | 450 U | 43 U | 430 U | 410 U | 41 U | 40 U | 420 U |
| Hexachlorocyclopentadiene | NS | NS | 4,500 U | 430 U | 4,300 U | 4,100 U | 410 U | 400 U | 420 U |
| Hexachloroethane | NS | NS | 450 U | 43 U | 430 U | 410 U | 41 U | 40 U | 420 U |
| Indeno(1,2,3-cd)Pyrene | 500 | 500 | 450 U | 43 U | 430 U | 480 | 120 | 40 U | 420 U |
| Isophorone | NS | NS | 450 U | 43 U | 430 U | 410 U | 41 U | 40 U | 420 U |
| Naphthalene | 12,000 | 100,000 | 450 U | 43 U | 430 U | 410 U | 41 U | 40 U | 420 U |
| Nitrobenzene | NS | NS | 450 U | 43 U | 430 U | 410 U | 41 U | 40 U | 420 U |
| NitrosoDiPhenylAmine(NDPA)/DPA | NS | NS | 450 U | 43 U | 430 U | 410 U | 41 U | 40 U | 420 U |
| Phenanthrene | 100,000 | 100,000 | 450 U | 43 U | 510 | 2,100 | 360 | 67 | 67 |
| Pyrene | 100,000 | 100,000 | 450 U | 43 U | 1,000 | 3,400 | 41 U | 250 | 420 U |

Notes:

All concentrations are µg/kg (ppb)

¹Unrestricted Use Soil Cleanup Objectives (SCO) 6 NYCRR Part 375, Environmental Remediation Programs, December 2006

²Restricted-Residential Soil Cleanup Objectives (SCO) 6 NYCRR Part 375, Environmental Remediation Programs, December 2006

U - Analyte not detected above the laboratory MDL

J - Estimated value

NS - No standard established

Bold text indicates compounds above the laboratory MDL

Green highlighting indicates exceedance of Unrestricted Use SCO

Yellow highlighting indicates exceedance of Restricted Residential SCO

Table 11
Storm Drain Soil/Sediment Sample Analytical Data Summary
Metals

Former Darby Drugs Distribution Center

| SAMPLE ID | Unrestricted SCO ¹ | Restricted Residential SCO ² | SD-1 240847.01 3/3/2004 | SD-2 240847.02 3/3/2004 | SD-3 240847.03 3/3/2004 | SD-4 240847.04 3/3/2004 | SD-5 240847.05 3/3/2004 | SD-6 240847.06 3/3/2004 | SD-7 240847.07 3/3/2004 |
|---------------------|----------------------------------|---|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| LAB SAMPLE ID | | | | | | | | | |
| SAMPLING DATE | | | | | | | | | |
| SAMPLE DEPTH (ft.) | | | | | | | | | |
| Total Metals | | | | | | | | | |
| Arsenic | 13 | 16 | 0.76 U | 1.2 | 1.1 | 1.9 | 0.68 U | 0.67 U | 1.1 |
| Barium | 350 | 400 | 58 | 14 | 48 | 19 | 49 | 23 | 13 |
| Chromium | 30 | 180 | 94 | 6.5 | 42 | 44 | 31 | 19 | 35 |
| Cadmium | 2.5 | 4.3 | 2.9 | 0.72 U | 6.4 | 2.2 | 0.68 U | 0.75 | 1.4 |
| Lead | 63 | 400 | 360 | 38 | 720 | 180 | 130 | 89 | 330 |
| Mercury | 0.18 | 0.81 | 0.23 | 0.017 | 0.19 | 2.9 | 0.051 | 1.5 | 0.04 |
| Selenium | 3.9 | 180 | 3.3 | 0.58 U | 1.2 | 0.55 U | 0.54 U | 0.53 U | 0.56 U |
| Silver | 2 | 180 | 0.76 U | 0.72 U | 0.87 | 4.4 | 0.68 U | 0.67 U | 0.82 |

Notes:

All concentrations are mg/kg (ppm)

¹Unrestricted Use Soil Cleanup Objectives (SCO) 6 NYCRR Part 375, Environmental Remediation Programs, December 2006

²Restricted-Residential Soil Cleanup Objectives (SCO) 6 NYCRR Part 375, Environmental Remediation Programs, December 2006

U - Analyte not detected above the laboratory MDL

J - Estimated value

NS - No standard established

Bold text indicates compounds above the laboratory MDL

Green highlighting indicates exceedance of Unrestricted Use SCO

Yellow highlighting indicates exceedance of Restricted Residential SCO

Table 12
Groundwater Sample Analytical Data Summary
Volatile Organic Compounds
Former Darby Drug Distribution Center

| SAMPLE ID | AWQS* | PWG-GW-2008-01 | PWG-GW-2008-02 | PWG-GW-2008-03 | PWG-GW-2008-04 | PWG-GW-2008-05 | PWG-GW-2008-06 | PWG-GW-2008-07 | PWG-GW-2008-08 |
|---------------------------------------|--------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| LAB SAMPLE ID | | L0813196-22 | L0813196-09 | L0813196-04 | L0813196-11 | L0813196-02 | L0813196-14 | L0813196-19 | L0813196-06 |
| SAMPLING DATE | | 9/4/2008 | 9/3/2008 | 9/3/2008 | 9/3/2008 | 9/3/2008 | 9/3/2008 | 9/4/2008 | 9/3/2008 |
| SAMPLE DEPTH (ft.) | | | | | | | | | |
| Volatile Organics by EPA 8260B | | | | | | | | | |
| Tetrachloroethene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Trichloroethene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| cis-1,2-Dichloroethene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| trans-1,2-Dichloroethene | 5 | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U |
| 1,1-Dichloroethene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Vinyl chloride | 2 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| 1,1,1,2-Tetrachloroethane | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 1,1,1-Trichloroethane | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 1,1,2,2-Tetrachloroethane | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 1,1,2-Trichloroethane | 1 | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U |
| 1,1-Dichloroethane | 5 | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U |
| 1,1-Dichloropropene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 1,2,3-Trichlorobenzene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 1,2,3-Trichloropropane | 0.04 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2,4,5-Tetramethylbenzene | 5 | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| 1,2,4-Trichlorobenzene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 1,2,4-Trimethylbenzene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 1,2-Dibromo-3-chloropropane | 0.04 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 1,2-Dibromoethane | 0.0006 | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| 1,2-Dichlorobenzene | 3 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 1,2-Dichloroethane | 0.6 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 1,2-Dichloropropane | 1 | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U |
| 1,3,5-Trimethylbenzene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 1,3-Dichlorobenzene | 3 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 1,3-Dichloropropane | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 1,4-Dichlorobenzene | 3 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 1,4-Diethylbenzene | NS | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| 2,2-Dichloropropane | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 2-Butanone | 50* | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 2-Hexanone | 50* | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 4-Ethyltoluene | NS | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| 4-Methyl-2-pentanone | NS | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Acetone | 50* | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Acrylonitrile | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Benzene | 1 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Bromobenzene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| Bromochloromethane | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| Bromodichloromethane | 50* | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Bromoform | 50* | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| Bromomethane | 5 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| Carbon disulfide | NS | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Carbon tetrachloride | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Chlorobenzene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Chloroethane | 5 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| Chloroform | 7 | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U |
| Chloromethane | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| cis-1,3-Dichloropropene | 0.4 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Dibromochloromethane | 50* | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Dibromomethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Dichlorodifluoromethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Ethylbenzene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Hexachlorobutadiene | 0.5 | 0.6 U | 0.6 U | 0.6 U | 0.6 U | 0.6 U | 0.6 U | 0.6 U | 0.6 U |
| Isopropylbenzene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Methyl tert butyl ether | 10 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| Methylene chloride | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Naphthalene | 10* | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| n-Butylbenzene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| n-Propylbenzene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| o-Chlorotoluene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| o-Xylene | 5 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| p/m-Xylene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| p-Chlorotoluene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| p-Isopropyltoluene | 5 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| sec-Butylbenzene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Styrene | 5 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| tert-Butylbenzene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| Toluene | 5 | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U |
| trans-1,3-Dichloropropene | 0.4 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Trichlorofluoromethane | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| Vinyl acetate | NS | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |

Notes:

All units are µg/L (ppb)

*Class GA Ambient Water Quality Standard (AWQS), NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, June

* Guidance Value

U - Analyte not detected above the laboratory MDL

J - Estimated value

NS - No standard established

Bold text indicates compounds above the laboratory MDL

Yellow highlighting indicates exceedance of Ambient Water Quality Standard

Green highlighting indicates exceedance of Ambient Water Quality Guidance Value

Table 12
Groundwater Sample Analytical Data Summary
Volatile Organic Compounds
Former Darby Drug Distribution Center

| SAMPLE ID | AWQS' | PWG-GW-2008-13 | PWG-GW-2008-14 | PWG-GW-2008-15 | MW-1 | MW-2 | MW-4 | MW-5 | MW-6 |
|---------------------------------------|--------|----------------|----------------|----------------|-------------|-------------|-------------|-------------|-------------|
| LAB SAMPLE ID | | L0813196-26 | L0813196-29 | L0813196-23 | 10/3/2008 | 10/3/2008 | 10/3/2008 | 10/6/2008 | 10/6/2008 |
| SAMPLING DATE | | 9/4/2008 | 9/5/2008 | 9/4/2008 | L0814755-02 | L0814755-03 | L0814755-04 | L0814755-05 | L0814755-06 |
| SAMPLE DEPTH (ft.) | | | | | | | | | |
| Volatile Organics by EPA 8260B | | | | | | | | | |
| Tetrachloroethene | 5 | 1,800 | 240 | 73 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 200 |
| Trichloroethene | 5 | 11 | 4.6 | 2.2 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 54 |
| cis-1,2-Dichloroethene | 5 | 11 | 13 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 920 |
| trans-1,2-Dichloroethene | 5 | 15 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 22 |
| 1,1-Dichloroethene | 5 | 10 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 10 U |
| Vinyl chloride | 2 | 20 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 20 U |
| 1,1,1,2-Tetrachloroethane | 5 | 10 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 10 U |
| 1,1,1-Trichloroethane | 5 | 10 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 10 U |
| 1,1,2,2-Tetrachloroethane | 5 | 10 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 10 U |
| 1,1,2-Trichloroethane | 1 | 15 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 15 U |
| 1,1-Dichloroethane | 5 | 15 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 15 U |
| 1,1-Dichloropropene | 5 | 50 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 50 U |
| 1,2,3-Trichlorobenzene | 5 | 50 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 50 U |
| 1,2,3-Trichloropropane | 0.04 | 100 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 100 U |
| 1,2,4,5-Tetramethylbenzene | 5 | 40 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 40 U |
| 1,2,4-Trichlorobenzene | 5 | 50 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 50 U |
| 1,2,4-Trimethylbenzene | 5 | 50 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 50 U |
| 1,2-Dibromo-3-chloropropane | 0.04 | 50 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 50 U |
| 1,2-Dibromoethane | 0.0006 | 40 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 40 U |
| 1,2-Dichlorobenzene | 3 | 50 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 50 U |
| 1,2-Dichloroethane | 0.6 | 10 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 10 U |
| 1,2-Dichloropropane | 1 | 35 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 35 U |
| 1,3,5-Trimethylbenzene | 5 | 50 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 50 U |
| 1,3-Dichlorobenzene | 3 | 50 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 50 U |
| 1,3-Dichloropropane | 5 | 50 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 50 U |
| 1,4-Dichlorobenzene | 3 | 50 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 50 U |
| 1,4-Diethylbenzene | NS | 40 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 40 U |
| 2,2-Dichloropropane | 5 | 50 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 50 U |
| 2-Butanone | 50* | 100 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 100 U |
| 2-Hexanone | 50* | 100 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 100 U |
| 4-Ethyltoluene | NS | 40 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 40 U |
| 4-Methyl-2-pentanone | NS | 100 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 100 U |
| Acetone | 50* | 100 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 100 U |
| Acrylonitrile | 5 | 100 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 100 U |
| Benzene | 1 | 10 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 10 U |
| Bromobenzene | 5 | 50 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 50 U |
| Bromochloromethane | 5 | 50 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 50 U |
| Bromodichloromethane | 50* | 10 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 10 U |
| Bromoform | 50* | 40 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 40 U |
| Bromomethane | 5 | 20 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 20 U |
| Carbon disulfide | NS | 100 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 100 U |
| Carbon tetrachloride | 5 | 10 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 10 U |
| Chlorobenzene | 5 | 10 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 10 U |
| Chloroethane | 5 | 20 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 20 U |
| Chloroform | 7 | 15 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 15 U |
| Chloromethane | 5 | 50 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 50 U |
| cis-1,3-Dichloropropene | 0.4 | 10 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 10 U |
| Dibromochloromethane | 50* | 10 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 10 U |
| Dibromomethane | 5 | 100 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 100 U |
| Dichlorodifluoromethane | 5 | 100 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 100 U |
| Ethylbenzene | 5 | 10 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 10 U |
| Hexachlorobutadiene | 0.5 | 12 U | 0.6 U | 0.6 U | 0.6 U | 0.6 U | 0.6 U | 0.6 U | 12 U |
| Isopropylbenzene | 5 | 10 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 10 U |
| Methyl tert butyl ether | 10 | 20 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 20 U |
| Methylene chloride | 5 | 100 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 100 U |
| Naphthalene | 10* | 10 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 10 U |
| n-Butylbenzene | 5 | 10 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 10 U |
| n-Propylbenzene | 5 | 50 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 50 U |
| o-Chlorotoluene | 5 | 50 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 50 U |
| o-Xylene | 5 | 20 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 20 U |
| p/m-Xylene | 5 | 50 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 50 U |
| p-Chlorotoluene | 5 | 10 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 10 U |
| p-Isopropyltoluene | 5 | 20 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 20 U |
| sec-Butylbenzene | 5 | 10 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 10 U |
| Styrene | 5 | 20 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 20 U |
| tert-Butylbenzene | 5 | 50 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 50 U |
| Toluene | 5 | 15 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 15 U |
| trans-1,3-Dichloropropene | 0.4 | 10 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 10 U |
| Trichlorofluoromethane | 5 | 50 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 50 U |
| Vinyl acetate | NS | 100 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 100 U |

Notes:

All units are µg/L (ppb)

'Class GA Ambient Water Quality Standard (AWQS), NY:1996

* Guidance Value

U - Analyte not detected above the laboratory MDL

J - Estimated value

NS - No standard established

Bold text indicates compounds above the laboratory M

Yellow highlighting indicates exceedance of Ambient V

Green highlighting indicates exceedance of Ambient V

Table 12
Groundwater Sample Analytical Data Summary
Volatile Organic Compounds
Former Darby Drug Distribution Center

| SAMPLE ID | AWQS' | DIFFW-01 | DIFFW-02 | DIFFW-03 | DIFFW-04 | SW-01 | SW-02 | SW-03 | MW-7 |
|---------------------------------------|--------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|
| LAB SAMPLE ID | | 10/6/2008 | 10/6/2008 | 10/6/2008 | L0814991-05 | L0814991-02 | L0814991-03 | L0814991-04 | L0911697-04 |
| SAMPLING DATE | | L0814755-07 | L0814755-08 | L0814755-09 | 10/8/2008 | 10/7/2008 | 10/8/2008 | 10/8/2008 | 8/20/2009 |
| SAMPLE DEPTH (ft.) | | | | | | | | | |
| Volatile Organics by EPA 8260B | | | | | | | | | |
| Tetrachloroethene | 5 | 1.3 | 0.5 U | 0.5 U | 1,400 | 0.5 U | 3.4 | 1.2 | 0.5 U |
| Trichloroethene | 5 | 2.3 | 0.5 U | 0.53 | 300 | 0.5 U | 1 | 1.1 | 0.5 U |
| cis-1,2-Dichloroethene | 5 | 32 | 7.7 | 21 | 1,800 | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| trans-1,2-Dichloroethene | 5 | 0.75 U | 0.75 U | 0.75 U | 38 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U |
| 1,1-Dichloroethene | 5 | 0.5 U | 0.5 U | 0.5 U | 25 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Vinyl chloride | 2 | 1 UJ | 1 U | 1 U | 50 U | 1 U | 1 U | 1 U | 1 U |
| 1,1,1,2-Tetrachloroethane | 5 | 0.5 U | 0.5 U | 0.5 U | 25 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 1,1,1-Trichloroethane | 5 | 0.5 U | 0.5 U | 0.5 U | 25 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 1,1,2,2-Tetrachloroethane | 5 | 0.5 U | 0.5 U | 0.5 U | 25 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 1,1,2-Trichloroethane | 1 | 0.75 U | 0.75 U | 0.75 U | 38 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U |
| 1,1-Dichloroethane | 5 | 0.75 U | 0.75 U | 0.75 U | 38 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U |
| 1,1-Dichloropropene | 5 | 2.5 U | 2.5 U | 2.5 U | 120 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 1,2,3-Trichlorobenzene | 5 | 2.5 U | 2.5 U | 2.5 U | 120 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 1,2,3-Trichloropropane | 0.04 | 5 U | 5 U | 5 U | 250 U | 5 U | 5 U | 5 U | 5 U |
| 1,2,4,5-Tetramethylbenzene | 5 | 2 U | 2 U | 2 U | 100 U | 2 U | 2 U | 2 U | 2 U |
| 1,2,4-Trichlorobenzene | 5 | 2.5 U | 2.5 U | 2.5 U | 120 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 1,2,4-Trimethylbenzene | 5 | 2.5 U | 2.5 U | 2.5 U | 120 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 1,2-Dibromo-3-chloropropane | 0.04 | 2.5 U | 2.5 U | 2.5 U | 120 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 1,2-Dibromoethane | 0.0006 | 2 U | 2 U | 2 U | 100 U | 2 U | 2 U | 2 U | 2 U |
| 1,2-Dichlorobenzene | 3 | 2.5 U | 2.5 U | 2.5 U | 120 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 1,2-Dichloroethane | 0.6 | 0.5 U | 0.5 U | 0.5 U | 25 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 1,2-Dichloropropane | 1 | 1.8 U | 1.8 U | 1.8 U | 88 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U |
| 1,3,5-Trimethylbenzene | 5 | 2.5 U | 2.5 U | 2.5 U | 120 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 1,3-Dichlorobenzene | 3 | 2.5 U | 2.5 U | 2.5 U | 120 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 1,3-Dichloropropane | 5 | 2.5 U | 2.5 U | 2.5 U | 120 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 1,4-Dichlorobenzene | 3 | 2.5 U | 2.5 U | 2.5 U | 120 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 1,4-Diethylbenzene | NS | 2 U | 2 U | 2 U | 100 U | 2 U | 2 U | 2 U | 2 U |
| 2,2-Dichloropropane | 5 | 2.5 U | 2.5 U | 2.5 U | 120 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 2-Butanone | 50* | 5 U | 5 U | 5 U | 250 UJ | 5 U | 5 U | 5 U | 5 U |
| 2-Hexanone | 50* | 5 U | 5 U | 5 U | 250 U | 5 U | 5 U | 5 U | 5 U |
| 4-Ethyltoluene | NS | 2 U | 2 U | 2 U | 100 U | 2 U | 2 U | 2 U | 2 U |
| 4-Methyl-2-pentanone | NS | 5 U | 5 U | 5 U | 250 U | 5 U | 5 U | 5 U | 5 U |
| Acetone | 50* | 5 U | 5 U | 5 U | 250 UJ | 5 U | 5 U | 5 U | 5 U |
| Acrylonitrile | 5 | 5 U | 5 U | 5 U | 250 U | 5 U | 5 U | 5 U | 5 U |
| Benzene | 1 | 0.5 U | 0.5 U | 0.5 U | 25 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Bromobenzene | 5 | 2.5 U | 2.5 U | 2.5 U | 120 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| Bromochloromethane | 5 | 2.5 U | 2.5 U | 2.5 U | 120 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| Bromodichloromethane | 50* | 0.5 U | 0.5 U | 0.5 U | 25 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Bromoform | 50* | 2 U | 2 U | 2 U | 100 U | 2 U | 2 U | 2 U | 2 U |
| Bromomethane | 5 | 1 UJ | 1 U | 1 U | 50 U | 1 U | 1 U | 1 U | 1 U |
| Carbon disulfide | NS | 5 U | 5 U | 5 U | 250 U | 5 U | 5 U | 5 U | 5 U |
| Carbon tetrachloride | 5 | 0.5 U | 0.5 U | 0.5 U | 25 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Chlorobenzene | 5 | 0.5 U | 0.5 U | 0.5 U | 25 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Chloroethane | 5 | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U | 1 U | 1 U |
| Chloroform | 7 | 0.75 U | 0.75 U | 0.75 U | 38 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U |
| Chloromethane | 5 | 2.5 UJ | 2.5 U | 2.5 U | 120 UJ | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| cis-1,3-Dichloropropene | 0.4 | 0.5 U | 0.5 U | 0.5 U | 25 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Dibromochloromethane | 50* | 0.5 U | 0.5 U | 0.5 U | 25 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Dibromomethane | 5 | 5 U | 5 U | 5 U | 250 U | 5 U | 5 U | 5 U | 5 U |
| Dichlorodifluoromethane | 5 | 5 UJ | 5 U | 5 U | 250 UJ | 5 U | 5 U | 5 U | 5 U |
| Ethylbenzene | 5 | 0.5 U | 0.5 U | 0.5 U | 25 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Hexachlorobutadiene | 0.5 | 0.6 U | 0.6 U | 0.6 U | 30 U | 0.6 U | 0.6 U | 0.6 U | 0.6 U |
| Isopropylbenzene | 5 | 0.5 UJ | 0.5 U | 0.5 U | 25 UJ | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Methyl tert butyl ether | 10 | 7.8 | 1 U | 1 U | 50 U | 1.1 | 1 U | 1 U | 1 U |
| Methylene chloride | 5 | 5 U | 5 U | 5 U | 250 U | 5 U | 5 U | 5 U | 5 U |
| Naphthalene | 10* | 0.5 U | 0.5 U | 0.5 U | 25 U | 0.5 U | 0.5 U | 0.5 U | 2.5 U |
| n-Butylbenzene | 5 | 0.5 U | 0.5 U | 0.5 U | 25 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| n-Propylbenzene | 5 | 2.5 U | 2.5 U | 2.5 U | 120 U | 2.5 U | 2.5 U | 2.5 U | 0.5 U |
| o-Chlorotoluene | 5 | 2.5 U | 2.5 U | 2.5 U | 120 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| o-Xylene | 5 | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U | 1 U | 1 U |
| p/m-Xylene | 5 | 2.5 U | 2.5 U | 2.5 U | 120 U | 2.5 U | 2.5 U | 2.5 U | 1 U |
| p-Chlorotoluene | 5 | 0.5 U | 0.5 U | 0.5 U | 25 U | 0.5 U | 0.5 U | 0.5 U | 2.5 U |
| p-Isopropyltoluene | 5 | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U | 1 U | 0.5 U |
| sec-Butylbenzene | 5 | 0.5 U | 0.5 U | 0.5 U | 25 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Styrene | 5 | 1 U | 1 U | 1 U | 50 U | 1 U | 1 U | 1 U | 1 U |
| tert-Butylbenzene | 5 | 2.5 U | 2.5 U | 2.5 U | 120 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| Toluene | 5 | 0.75 U | 0.75 U | 1.1 | 38 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U |
| trans-1,3-Dichloropropene | 0.4 | 0.5 U | 0.5 U | 0.5 U | 25 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Trichlorofluoromethane | 5 | 2.5 U | 2.5 U | 2.5 U | 120 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| Vinyl acetate | NS | 5 U | 5 U | 5 U | 250 U | 5 U | 5 U | 5 U | 5 U |

Notes:

All units are µg/L (ppb)

'Class GA Ambient Water Quality Standard (AWQS), NY

* Guidance Value

U - Analyte not detected above the laboratory MDL

J - Estimated value

NS - No standard established

Bold text indicates compounds above the laboratory M

Yellow highlighting indicates exceedance of Ambient V

Green highlighting indicates exceedance of Ambient W

Table 12
Groundwater Sample Analytical Data Summary
Volatile Organic Compounds
Former Darby Drug Distribution Center

| SAMPLE ID | AWQS | MW-8 | MW-9 |
|---------------------------------------|------|-------------|-------------|
| LAB SAMPLE ID | | L0911697-02 | L0911697-01 |
| SAMPLING DATE | | 8/20/2009 | 8/20/2009 |
| SAMPLE DEPTH (ft.) | | | |
| Volatile Organics by EPA 8260B | | | |
| Tetrachloroethene | 5 | 0.5 U | 0.5 U |
| Trichloroethene | 5 | 0.5 U | 0.5 U |
| cis-1,2-Dichloroethene | 5 | 0.5 U | 0.5 U |
| trans-1,2-Dichloroethene | 5 | 0.75 U | 0.75 U |
| 1,1-Dichloroethene | 5 | 0.5 U | 0.5 U |
| Vinyl chloride | 2 | 1 U | 1 U |

| | | | |
|-----------------------------|--------|--------|--------|
| 1,1,1,2-Tetrachloroethane | 5 | 0.5 U | 0.5 U |
| 1,1,1-Trichloroethane | 5 | 0.5 U | 0.5 U |
| 1,1,2,2-Tetrachloroethane | 5 | 0.5 U | 0.5 U |
| 1,1,2-Trichloroethane | 1 | 0.75 U | 0.75 U |
| 1,1-Dichloroethane | 5 | 0.75 U | 0.75 U |
| 1,1-Dichloropropene | 5 | 2.5 U | 2.5 U |
| 1,2,3-Trichlorobenzene | 5 | 2.5 U | 2.5 U |
| 1,2,3-Trichloropropane | 0.04 | 5 U | 5 U |
| 1,2,4,5-Tetramethylbenzene | 5 | 2 U | 2 U |
| 1,2,4-Trichlorobenzene | 5 | 2.5 U | 2.5 U |
| 1,2,4-Trimethylbenzene | 5 | 2.5 U | 2.5 U |
| 1,2-Dibromo-3-chloropropane | 0.04 | 2.5 U | 2.5 U |
| 1,2-Dibromoethane | 0.0006 | 2 U | 2 U |
| 1,2-Dichlorobenzene | 3 | 2.5 U | 2.5 U |
| 1,2-Dichloroethane | 0.6 | 0.5 U | 0.5 U |
| 1,2-Dichloropropane | 1 | 1.8 U | 1.8 U |
| 1,3,5-Trimethylbenzene | 5 | 2.5 U | 2.5 U |
| 1,3-Dichlorobenzene | 3 | 2.5 U | 2.5 U |
| 1,3-Dichloropropane | 5 | 2.5 U | 2.5 U |
| 1,4-Dichlorobenzene | 3 | 2.5 U | 2.5 U |
| 1,4-Diethylbenzene | NS | 2 U | 2 U |
| 2,2-Dichloropropane | 5 | 2.5 U | 2.5 U |
| 2-Butanone | 50* | 5 U | 5 U |
| 2-Hexanone | 50* | 5 U | 5 U |
| 4-Ethyltoluene | NS | 2 U | 2 U |
| 4-Methyl-2-pentanone | NS | 5 U | 5 U |
| Acetone | 50* | 5 U | 5 U |
| Acrylonitrile | 5 | 5 U | 5 U |
| Benzene | 1 | 0.5 U | 0.5 U |
| Bromobenzene | 5 | 2.5 U | 2.5 U |
| Bromochloromethane | 5 | 2.5 U | 2.5 U |
| Bromodichloromethane | 50* | 0.5 U | 0.5 U |
| Bromoform | 50* | 2 U | 2 U |
| Bromomethane | 5 | 1 U | 1 U |
| Carbon disulfide | NS | 5 U | 5 U |
| Carbon tetrachloride | 5 | 0.5 U | 0.5 U |
| Chlorobenzene | 5 | 0.5 U | 0.5 U |
| Chloroethane | 5 | 1 U | 1 U |
| Chloroform | 7 | 0.75 U | 0.75 U |
| Chloromethane | 5 | 2.5 U | 2.5 U |
| cis-1,3-Dichloropropene | 0.4 | 0.5 U | 0.5 U |
| Dibromochloromethane | 50* | 0.5 U | 0.5 U |
| Dibromomethane | 5 | 5 U | 5 U |
| Dichlorodifluoromethane | 5 | 5 U | 5 U |
| Ethylbenzene | 5 | 0.5 U | 0.5 U |
| Hexachlorobutadiene | 0.5 | 0.6 U | 0.6 U |
| Isopropylbenzene | 5 | 0.5 U | 0.5 U |
| Methyl tert butyl ether | 10 | 1 U | 1 U |
| Methylene chloride | 5 | 5 U | 5 U |
| Naphthalene | 10* | 2.5 U | 2.5 U |
| n-Butylbenzene | 5 | 0.5 U | 0.5 U |
| n-Propylbenzene | 5 | 0.5 U | 0.5 U |
| o-Chlorotoluene | 5 | 2.5 U | 2.5 U |
| o-Xylene | 5 | 1 U | 1 U |
| p/m-Xylene | 5 | 1 U | 1 U |
| p-Chlorotoluene | 5 | 2.5 U | 2.5 U |
| p-Isopropyltoluene | 5 | 0.5 U | 0.5 U |
| sec-Butylbenzene | 5 | 0.5 U | 0.5 U |
| Styrene | 5 | 1 U | 1 U |
| tert-Butylbenzene | 5 | 2.5 U | 2.5 U |
| Toluene | 5 | 0.75 U | 0.75 U |
| trans-1,3-Dichloropropene | 0.4 | 0.5 U | 0.5 U |
| Trichlorofluoromethane | 5 | 2.5 U | 2.5 U |
| Vinyl acetate | NS | 5 U | 5 U |

Notes:

All units are µg/L (ppb)

*Class GA Ambient Water Quality Standard (AWQS), NY:

* Guidance Value

U - Analyte not detected above the laboratory MDL

J - Estimated value

NS - No standard established

Bold text indicates compounds above the laboratory M

Yellow highlighting indicates exceedance of Ambient W

Green highlighting indicates exceedance of Ambient W

Table 13
Groundwater Sample Analytical Data Summary
Semi-Volatile Organic Compounds
Former Darby Drugs Distribution Center

| SAMPLE ID LAB SAMPLE ID SAMPLING DATE SAMPLE DEPTH (ft.) | AWQS ¹ | MW-1 L0814755-02 10/3/2008 | MW-2 L0814755-03 10/3/2008 | MW-4 L0814755-04 10/3/2008 | MW-5 L0814755-05 10/6/2008 | MW-6 L0814755-06 10/6/2008 | DIFFW-01 L0814755-07 10/6/2008 | SW-01 L0814991-02 10/7/2008 |
|---|-------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|--------------------------------------|-----------------------------------|
| Semivolatile Organics by EPA 8270C | | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | 5 | 20 U | 20 U | 20 U | 19 U | 19 U | 19 U | 4.9 U |
| 1,2,4-Trichlorobenzene | 5 | 4.9 U | 4.9 U | 4.9 U | 4.8 U | 4.8 U | 4.8 U | 4.9 U |
| 1,2-Dichlorobenzene | 3 | 4.9 U | 4.9 U | 4.9 U | 4.8 U | 4.8 U | 4.8 U | 4.9 U |
| 1,3-Dichlorobenzene | 3 | 4.9 U | 4.9 U | 4.9 U | 4.8 U | 4.8 U | 4.8 U | 4.9 U |
| 1,4-Dichlorobenzene | 3 | 4.9 U | 4.9 U | 4.9 U | 4.8 U | 4.8 U | 4.8 U | 9.8 U |
| 2,4,5-Trichlorophenol | 1 | 4.9 U | 4.9 U | 4.9 U | 4.8 U | 4.8 U | 4.8 U | 9.8 U |
| 2,4,6-Trichlorophenol | 1 | 4.9 U | 4.9 U | 4.9 U | 4.8 U | 4.8 U | 4.8 U | 4.9 U |
| 2,4-Dichlorophenol | 1 | 9.8 U | 9.8 U | 9.9 U | 9.7 U | 9.7 U | 9.5 U | 9.8 U |
| 2,4-Dimethylphenol | 1 | 9.8 U | 9.8 U | 9.9 U | 9.7 U | 9.7 U | 9.5 U | 29 U |
| 2,4-Dinitrophenol | 1 | 29 U | 29 U | 30 U | 29 U | 29 U | 28 U | 4.9 U |
| 2,4-Dinitrotoluene | 5 | 5.9 U | 5.9 U | 5.9 U | 5.8 U | 5.8 U | 5.7 U | 29 U |
| 2,6-Dinitrotoluene | 5 | 4.9 U | 4.9 U | 4.9 U | 4.8 U | 4.8 U | 4.8 U | 5.9 U |
| 2-Chloronaphthalene | 10* | 5.9 U | 5.9 U | 5.9 U | 5.8 U | 5.8 U | 5.7 U | 4.9 U |
| 2-Chlorophenol | NS | 5.9 U | 5.9 U | 5.9 U | 5.8 U | 5.8 U | 5.7 U | 4.9 U |
| 2-Methylnaphthalene | NS | 4.9 U | 4.9 U | 4.9 U | 4.8 U | 4.8 U | 4.8 U | 4.9 U |
| 2-Methylphenol | NS | 5.9 U | 5.9 U | 5.9 U | 5.8 U | 5.8 U | 5.7 U | 15 U |
| 2-Nitroaniline | 5 | 4.9 U | 4.9 U | 4.9 U | 4.8 U | 4.8 U | 4.8 U | 4.9 U |
| 2-Nitrophenol | 1 | 20 U | 20 U | 20 U | 19 U | 19 U | 19 U | 4.9 U |
| 3,3'-Dichlorobenzidine | 5 | 4.9 U | 4.9 U | 4.9 U | 4.8 U | 4.8 U | 4.8 U | 9.8 U |
| 3-Methylphenol/4-Methylphenol | NS | 5.9 U | 5.9 U | 5.9 U | 5.8 U | 5.8 U | 5.7 U | 4.9 U |
| 3-Nitroaniline | 5 | 4.9 U | 4.9 U | 4.9 U | 4.8 U | 4.8 U | 4.8 U | 20 |
| 4,6-Dinitro-o-cresol | NS | 20 U | 20 U | 20 U | 19 U | 19 U | 19 U | 4.9 U |
| 4-Bromophenyl phenyl ether | NS | 4.9 U | 4.9 U | 4.9 U | 4.8 U | 4.8 U | 4.8 U | 5.9 U |
| 4-Chloroaniline | 5 | 4.9 U | 4.9 U | 4.9 U | 4.8 U | 4.8 U | 4.8 U | 4.9 U |
| 4-Chlorophenyl phenyl ether | NS | 4.9 U | 4.9 U | 4.9 U | 4.8 U | 4.8 U | 4.8 U | 5.9 U |
| 4-Nitroaniline | 5 | 6.8 U | 6.8 U | 6.9 U | 6.8 U | 6.8 U | 6.7 U | 4.9 U |
| 4-Nitrophenol | 1 | 9.8 U | 9.8 U | 9.9 U | 9.7 U | 9.7 U | 9.5 U | 6.8 U |
| Acenaphthene | 20* | 4.9 U | 4.9 U | 4.9 U | 4.8 U | 4.8 U | 4.8 U | 20 U |
| Acenaphthylene | NS | 4.9 U | 4.9 U | 4.9 U | 4.8 U | 4.8 U | 4.8 U | 4.9 U |
| Acetophenone | NS | 20 U | 20 U | 20 U | 19 U | 19 U | 19 U | 4.9 U |
| Anthracene | 50* | 4.9 U | 4.9 U | 4.9 U | 4.8 U | 4.8 U | 4.8 U | 49 U |
| Benzo(a)anthracene | 0.002* | 4.9 U | 4.9 U | 4.9 U | 4.8 U | 4.8 U | 4.8 U | 4.9 U |
| Benzo(a)pyrene | 0.002* | 4.9 U | 4.9 U | 4.9 U | 4.8 U | 4.8 U | 4.8 U | 4.9 U |
| Benzo(b)fluoranthene | 0.002* | 4.9 U | 4.9 U | 4.9 U | 4.8 U | 4.8 U | 4.8 U | 4.9 U |
| Benzo(ghi)perylene | NS | 4.9 U | 4.9 U | 4.9 U | 4.8 U | 4.8 U | 4.8 U | 9.8 U |
| Benzo(k)fluoranthene | 0.002* | 4.9 U | 4.9 U | 4.9 U | 4.8 U | 4.8 U | 4.8 U | 4.9 U |
| Benzoic Acid | NS | 4.9 U | 4.9 U | 4.9 U | 4.8 U | 4.8 U | 4.8 U | 4.9 U |
| Benzyl Alcohol | NS | 9.8 U | 9.8 U | 9.9 U | 9.7 U | 9.7 U | 9.5 U | 6.8 U |
| Biphenyl | 5 | 4.9 U | 4.9 U | 4.9 U | 4.8 U | 4.8 U | 4.8 U | 4.9 U |
| Bis(2-chloroethoxy)methane | 5 | 4.9 U | 4.9 U | 4.9 U | 4.8 U | 4.8 U | 4.8 U | 5.9 U |
| Bis(2-chloroethylether) | 1 | 4.9 U | 4.9 U | 4.9 U | 4.8 U | 4.8 U | 4.8 U | 4.9 U |
| Bis(2-chloroisopropyl)ether | NS | 4.9 U | 4.9 U | 4.9 U | 4.8 U | 4.8 U | 4.8 U | 4.9 U |
| Bis(2-Ethylhexyl)phthalate | 5 | 4.9 U | 4.9 U | 4.9 U | 4.8 U | 4.8 U | 4.8 U | 4.9 U |
| Butyl benzyl phthalate | 50* | 4.9 U | 4.9 U | 4.9 U | 4.8 U | 4.8 U | 4.8 U | 6.8 U |
| Carbazole | NS | 4.9 U | 4.9 U | 4.9 U | 4.8 U | 4.8 U | 4.8 U | 4.9 U |
| Chrysene | 0.002* | 4.9 U | 4.9 U | 4.9 U | 4.8 U | 4.8 U | 4.8 U | 4.9 U |
| Dibenzo(a,h)anthracene | NS | 4.9 U | 4.9 U | 4.9 U | 4.8 U | 4.8 U | 4.8 U | 4.9 U |
| Dibenzofuran | NS | 4.9 U | 4.9 U | 4.9 U | 4.8 U | 4.8 U | 4.8 U | 4.9 U |
| Diethyl phthalate | 50* | 4.9 U | 4.9 U | 4.9 U | 4.8 U | 4.8 U | 4.8 U | 4.9 U |
| Dimethyl phthalate | 50* | 4.9 U | 4.9 U | 4.9 U | 4.8 U | 4.8 U | 4.8 U | 20 U |
| Di-n-butylphthalate | 50 | 4.9 U | 4.9 U | 4.9 U | 4.8 U | 4.8 U | 4.8 U | 9.8 U |
| Di-n-octylphthalate | 50* | 4.9 U | 4.9 U | 4.9 U | 4.8 U | 4.8 U | 4.8 U | 4.9 U |
| Fluoranthene | 50* | 4.9 U | 4.9 U | 4.9 U | 4.8 U | 4.8 U | 4.8 U | 4.9 U |
| Fluorene | 50* | 4.9 U | 4.9 U | 4.9 U | 4.8 U | 4.8 U | 4.8 U | 4.9 U |
| Hexachlorobenzene | 0.04 | 4.9 U | 4.9 U | 4.9 U | 4.8 U | 4.8 U | 4.8 U | 4.9 U |
| Hexachlorobutadiene | 0.5 | 9.8 U | 9.8 U | 9.9 U | 9.7 U | 9.7 U | 9.5 U | 4.9 U |
| Hexachlorocyclopentadiene | 5 | 29 U | 29 U | 30 U | 29 U | 29 U | 28 U | 20 U |
| Hexachloroethane | 5 | 4.9 U | 4.9 U | 4.9 U | 4.8 U | 4.8 U | 4.8 U | 4.9 U |
| Indeno(1,2,3-cd)Pyrene | 0.002* | 6.8 U | 6.8 U | 6.9 U | 6.8 U | 6.8 U | 6.7 U | 4.9 U |
| Isothorone | 50* | 4.9 U | 4.9 U | 4.9 U | 4.8 U | 4.8 U | 4.8 U | 5.9 U |
| Naphthalene | 10* | 4.9 U | 4.9 U | 4.9 U | 4.8 U | 4.8 U | 4.8 U | 4.9 U |
| Nitrobenzene | 0.4 | 4.9 U | 4.9 U | 4.9 U | 4.8 U | 4.8 U | 4.8 U | 20 U |
| NitrosoDiPhenylAmine (NDPA)/DPA | 50* | 15 U | 15 U | 15 U | 14 U | 14 U | 14 U | 4.9 U |
| n-Nitrosodi-n-propylamine | NS | 4.9 U | 4.9 U | 4.9 U | 4.8 U | 4.8 U | 4.8 U | 4.9 U |
| p-Chloro-M-Cresol | NS | 4.9 U | 4.9 U | 4.9 U | 4.8 U | 4.8 U | 4.8 U | 4.9 U |
| Pentachlorophenol | 1 | 9.8 U | 9.8 U | 9.9 U | 9.7 U | 9.7 U | 9.5 U | 4.9 U |
| Phenanthrene | 50* | 4.9 U | 4.9 U | 4.9 U | 4.8 U | 4.8 U | 4.8 U | 4.9 U |
| Phenol | 1 | 6.8 U | 6.8 U | 6.9 U | 6.8 U | 6.8 U | 6.7 U | 4.9 U |
| Pyrene | 50* | 4.9 U | 4.9 U | 4.9 U | 4.8 U | 4.8 U | 4.8 U | 4.9 U |
| Semivolatile Organics by EPA 8270C-SM | | | | | | | | |
| 2-Chloronaphthalene | 10* | 0.2 U | 0.2 U | 0.2 U | 0.19 U | 0.19 U | 0.19 U | 0.19 U |
| 2-Methylnaphthalene | NS | 0.2 U | 0.2 U | 0.2 U | 0.19 U | 0.19 U | 0.19 U | 0.19 U |
| Acenaphthene | 20* | 0.2 U | 0.2 U | 0.2 U | 0.19 U | 0.19 U | 0.19 U | 0.19 U |
| Acenaphthylene | NS | 0.2 U | 0.2 U | 0.2 U | 0.19 U | 0.19 U | 0.19 U | 0.19 U |
| Anthracene | 50* | 0.2 U | 0.2 U | 0.2 U | 0.19 U | 0.19 U | 0.19 U | 0.19 U |
| Benzo(a)anthracene | 0.002* | 0.2 U | 0.2 U | 0.2 U | 0.19 U | 0.19 U | 0.19 U | 0.19 U |
| Benzo(a)pyrene | 0.002* | 0.2 U | 0.2 U | 0.2 U | 0.19 U | 0.19 U | 0.19 U | 0.19 U |
| Benzo(b)fluoranthene | 0.002* | 0.2 U | 0.2 U | 0.2 U | 0.19 U | 0.19 U | 0.19 U | 0.19 U |
| Benzo(ghi)perylene | NS | 0.2 U | 0.2 U | 0.2 U | 0.19 U | 0.19 U | 0.19 U | 0.19 U |
| Benzo(k)fluoranthene | 0.002* | 0.2 U | 0.2 U | 0.2 U | 0.19 U | 0.19 U | 0.19 U | 0.19 U |
| Chrysene | 0.002* | 0.2 U | 0.2 U | 0.2 U | 0.19 U | 0.19 U | 0.19 U | 0.19 U |
| Dibenzo(a,h)anthracene | NS | 0.2 U | 0.2 U | 0.2 U | 0.19 U | 0.19 U | 0.19 U | 0.48 U |
| Fluoranthene | 50* | 0.2 U | 0.2 U | 0.2 U | 0.19 U | 0.19 U | 0.19 U | 0.19 U |
| Fluorene | 50* | 0.2 U | 0.2 U | 0.2 U | 0.19 U | 0.19 U | 0.19 U | 0.19 U |
| Hexachlorobenzene | 0.04 | 0.78 U | 0.78 U | 0.79 U | 0.78 U | 0.78 U | 0.76 U | 0.19 U |
| Hexachlorobutadiene | 0.5 | 0.49 U | 0.49 U | 0.49 U | 0.48 U | 0.48 U | 0.48 U | 0.19 U |
| Hexachloroethane | 5 | 0.78 U | 0.78 U | 0.79 U | 0.78 U | 0.78 U | 0.76 U | 0.19 U |
| Indeno(1,2,3-cd)Pyrene | 0.002* | 0.2 U | 0.2 U | 0.2 U | 0.19 U | 0.19 U | 0.19 U | 0.78 U |
| Naphthalene | 10* | 0.2 U | 0.2 U | 0.2 U | 0.19 U | 0.19 U | 0.19 U | 0.19 U |
| Pentachlorophenol | 1 | 0.78 U | 0.78 U | 0.79 U | 0.78 U | 0.78 U | 0.76 U | 0.78 U |
| Phenanthrene | 50* | 0.2 U | 0.2 U | 0.2 U | 0.19 U | 0.19 U | 0.19 U | 0.78 U |
| Pyrene | 50* | 0.2 U | 0.2 U | 0.2 U | 0.19 U | 0.19 U | 0.19 U | 0.19 U |

Notes:

All units are µg/L (ppb)

¹Class GA Ambient Water Quality Standard (AWQS), NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater I

* Guidance Value

U - Analyte not detected above the laboratory MDL

J - Estimated value

NS - No standard established

Bold text indicates compounds above the laboratory MDL

Yellow highlighting indicates exceedance of Ambient Water Quality Standard

Green highlighting indicates exceedance of Ambient Water Quality Guidance Value

Table 14
Groundwater Sample Analytical Data Summary
Pesticides/PCBs/Metals
Former Darby Drugs Distribution Center

| SAMPLE ID | AWQS ¹ | MW-1 | MW-2 | MW-4 | MW-5 | MW-6 | DIFFW-01 | SW-01 | SW-01 | MW-4 | MW-5 | MW-6 | DW-1 |
|---|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|----------------|-------------|-------------|-------------|-------------|-------------|
| LAB SAMPLE ID | | L0814755-02 | L0814755-03 | L0814755-04 | L0814755-05 | L0814755-06 | L0814755-07 | L0814991-02 R1 | L0911697-05 | L0911697-10 | L0911697-09 | L0911697-06 | L0911697-08 |
| SAMPLING DATE | | 10/3/2008 | 10/3/2008 | 10/3/2008 | 10/6/2008 | 10/6/2008 | 10/6/2008 | 10/7/2008 | 8/20/2009 | 8/20/2009 | 8/20/2009 | 8/20/2009 | 8/20/2009 |
| SAMPLE DEPTH (ft.) | | | | | | | | | | | | | |
| Organochlorine Pesticides by EPA 8081A | | | | | | | | | | | | | |
| 4,4'-DDD | 0.3 | 0.041 U | 0.04 U | 0.046 U | 0.043 U | 0.041 U | 0.043 U | 0.206 U | NA | NA | NA | NA | NA |
| 4,4'-DDE | 0.2 | 0.041 U | 0.04 U | 0.046 U | 0.043 U | 0.041 U | 0.043 U | 0.206 U | NA | NA | NA | NA | NA |
| 4,4'-DDT | 0.2 | 0.041 U | 0.04 U | 0.046 U | 0.043 U | 0.041 U | 0.043 U | 0.206 U | NA | NA | NA | NA | NA |
| Aldrin | NS | 0.021 U | 0.02 U | 0.023 U | 0.021 U | 0.021 U | 0.021 U | 0.103 U | NA | NA | NA | NA | NA |
| Alpha-BHC | 0.01 | 0.021 U | 0.02 U | 0.023 U | 0.021 U | 0.021 U | 0.021 U | 0.206 U | NA | NA | NA | NA | NA |
| Beta-BHC | 0.04 | 0.021 U | 0.02 U | 0.023 U | 0.021 U | 0.021 U | 0.021 U | 0.103 U | NA | NA | NA | NA | NA |
| Chlordane | 0.05 | 0.206 U | 0.2 U | 0.228 U | 0.213 U | 0.206 U | 0.213 U | 0.103 U | NA | NA | NA | NA | NA |
| Delta-BHC | 0.04 | 0.021 U | 0.02 U | 0.023 U | 0.021 U | 0.021 U | 0.021 U | 0.206 U | NA | NA | NA | NA | NA |
| Dieldrin | 0.004 | 0.041 U | 0.04 U | 0.046 U | 0.043 U | 0.041 U | 0.043 U | 0.103 U | NA | NA | NA | NA | NA |
| Endosulfan I | NS | 0.021 U | 0.02 U | 0.023 U | 0.021 U | 0.021 U | 0.021 U | 0.206 U | NA | NA | NA | NA | NA |
| Endosulfan II | NS | 0.041 U | 0.04 U | 0.046 U | 0.043 U | 0.041 U | 0.043 U | 0.103 U | NA | NA | NA | NA | NA |
| Endosulfan sulfate | NS | 0.041 U | 0.04 U | 0.046 U | 0.043 U | 0.041 U | 0.043 U | 0.103 U | NA | NA | NA | NA | NA |
| Endrin | NS | 0.041 U | 0.04 U | 0.046 U | 0.043 U | 0.041 U | 0.043 U | 0.103 U | NA | NA | NA | NA | NA |
| Endrin ketone | 5 | 0.041 U | 0.04 U | 0.046 U | 0.043 U | 0.041 U | 0.043 U | 0.206 U | NA | NA | NA | NA | NA |
| Heptachlor | 0.04 | 0.021 U | 0.02 U | 0.023 U | 0.021 U | 0.021 U | 0.021 U | 0.103 U | NA | NA | NA | NA | NA |
| Heptachlor epoxide | 0.03 | 0.021 U | 0.02 U | 0.023 U | 0.021 U | 0.021 U | 0.021 U | 1.03 U | NA | NA | NA | NA | NA |
| Lindane | 0.05 | 0.021 U | 0.02 U | 0.023 U | 0.021 U | 0.021 U | 0.021 U | 0.206 U | NA | NA | NA | NA | NA |
| Methoxychlor | 35 | 0.206 U | 0.2 U | 0.228 U | 0.213 U | 0.206 U | 0.213 U | 0.103 U | NA | NA | NA | NA | NA |
| trans-Chlordane | NS | 0.021 U | 0.02 U | 0.023 U | 0.021 U | 0.021 U | 0.021 U | 1.03 U | NA | NA | NA | NA | NA |
| Polychlorinated Biphenyls by EPA 8082 | | | | | | | | | | | | | |
| Aroclor 1016 | 0.09 | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | NA | NA | NA | NA | NA |
| Aroclor 1221 | 0.09 | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | NA | NA | NA | NA | NA |
| Aroclor 1232 | 0.09 | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | NA | NA | NA | NA | NA |
| Aroclor 1242 | 0.09 | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | NA | NA | NA | NA | NA |
| Aroclor 1248 | 0.09 | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | NA | NA | NA | NA | NA |
| Aroclor 1254 | 0.09 | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | NA | NA | NA | NA | NA |
| Aroclor 1260 | 0.09 | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | NA | NA | NA | NA | NA |
| Total Metals | | | | | | | | | | | | | |
| Aluminum | NS | 190,000 | 630 | 10,000 | 58,000 | 190,000 | 2,100 | 140 | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U |
| Antimony | 3 | 50 U | 50 U | 50 U | 50 U | 50 U | 50 U | 50 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U | 0.050 U |
| Arsenic | 25 | 291 | 7 | 50 | 40 | 177 | 100 U | 10 U | 0.005 U | 0.005 U | 0.005 U | 0.005 U | 0.005 U |
| Barium | 1000 | 576 | 10 U | 39 | 158 | 428 | 62 | 19 | 0.037 | 0.015 | 0.01 U | 0.01 U | 0.013 |
| Beryllium | 3* | 8 | 5 U | 5 U | 5 U | 13 | 5 U | 5 U | 0.005 U | 0.005 U | 0.005 U | 0.005 U | 0.005 U |
| Cadmium | 5 | 11 | 5 U | 5 U | 5 U | 13 | 9 | 5 U | 0.005 U | 0.005 U | 0.005 U | 0.005 U | 0.005 U |
| Calcium | NS | 57,000 | 13,000 | 17,000 | 18,000 | 49,000 | 20,000 | 14,000 | 15 | 19 | 6.6 | 14 | 11 |
| Chromium | 50 | 400 | 10 U | 20 | 120 | 380 | 40 | 10 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Cobalt | NS | 198 | 20 U | 20 U | 44 | 184 | 34 | 20 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U |
| Copper | 200 | 312 | 10 U | 11 | 113 | 333 | 726 | 104 | 0.061 | 0.010 U | 0.010 U | 0.010 U | 0.010 U |
| Iron | 300 | 360,000 | 11,000 | 150,000 | 160,000 | 520,000 | 340,000 | 39,000 | 0.05 U | 17 | 0.05 U | 0.09 | 0.05 U |
| Lead | 25 | 394 | 10 U | 15 | 349 | 254 | 12 | 20 | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U |
| Magnesium | 35000* | 54,000 | 2,600 | 16,000 | 24,000 | 78,000 | 15,000 | 12,000 | 9.2 | 15 | 3.0 | 4.8 | 5.0 |
| Manganese | 300 | 5,130 | 280 | 795 | 1,330 | 6,810 | 4,740 | 366 | 0.404 | 0.818 | 0.162 | 0.417 | 0.055 |
| Mercury | 0.7 | 2.7 | 0.2 U | 0.2 U | 0.8 | 1.1 | 0.2 | 0.2 U | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U |
| Nickel | 100 | 341 | 25 U | 25 U | 110 | 420 | 25 U | 25 U | 0.025 U | 0.025 U | 0.025 U | 0.025 U | 0.025 U |
| Potassium | NS | 16,000 | 2,500 U | 3,800 | 7,300 | 21,000 | 4,200 | 3,000 | 2.5 | 2.5 U | 2.5 U | 2.5 U | 3.5 |
| Selenium | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U |
| Silver | 50 | 7 U | 7 U | 7 U | 7 U | 7 U | 7 U | 7 U | 0.007 U | 0.007 U | 0.007 U | 0.007 U | 0.007 U |
| Sodium | 20000 | 15,000 | 2,000 U | 30,000 | 7,000 | 7,500 | 25,000 | 29,000 | 24 | 35 | 7.7 | 6.6 | 20 |
| Thallium | 0.5* | 20 U | 20 U | 20 U | 20 U | 20 U | 20 U | 20 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U | 0.020 U |
| Vanadium | NS | 602 | 10 U | 30 | 194 | 679 | 10 U | 10 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U |
| Zinc | 2000* | 1,320 | 50 U | 217 | 740 | 1,700 | 670 | 87 | 0.412 | 0.050 U | 0.050 U | 0.050 U | 0.050 U |

Notes:

All units are µg/L (ppb)

¹Class GA Ambient Water Quality Standard (AWQS), NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, June 1998

* Guidance Value

U - Analyte not detected above the laboratory MDL

J - Estimated value

NS - No standard established

NA - Not analyzed

Bold text indicates compounds above the laboratory MDL

Yellow highlighting indicates exceedance of Ambient Water Quality Standard

Green highlighting indicates exceedance of Ambient Water Quality Guidance Value

Table 15
Groundwater (Vertical Profile) Sample Analytical Data Summary
Volatile Organic Compounds
Former Darby Drugs Distribution Center

| SAMPLE ID | AWQS* | PWG-VP-2008-01 | PWG-VP-2008-01 | PWG-VP-2008-01 | PWG-VP-2008-01 | PWG-VP-2008-01 |
|---------------------------------------|--------|----------------|----------------|----------------|----------------|----------------|
| LAB SAMPLE ID | | L0812904-08 | L0812904-09 | L0812904-10 | L0812904-11 | L0812904-12 |
| SAMPLING DATE | | 8/29/2008 | 8/29/2008 | 8/29/2008 | 8/29/2008 | 8/29/2008 |
| SAMPLE DEPTH (ft.) | | 16-20 | 36-40 | 56-60 | 76-80 | 96-100 |
| Volatile Organics by EPA 8260B | | | | | | |
| Tetrachloroethene | 5 | 13 | 13 | 46 | 100 | 200 J |
| Trichloroethene | 5 | 4.3 | 1.4 | 5.6 | 18 | 40 J |
| cis-1,2-Dichloroethene | 5 | 1.2 | 0.5 U | 0.5 U | 0.82 | 14 J |
| trans-1,2-Dichloroethene | 5 | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 1.5 UJ |
| 1,1-Dichloroethene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 1 UJ |
| Vinyl chloride | 2 | 1 U | 1 U | 1 U | 1 U | 2 UJ |
| 1,1,1,2-Tetrachloroethane | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 1 UJ |
| 1,1,1-Trichloroethane | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 1 UJ |
| 1,1,2,2-Tetrachloroethane | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 1 UJ |
| 1,1,2-Trichloroethane | 1 | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 1.5 UJ |
| 1,1-Dichloroethane | 5 | 1.0 | 0.75 U | 0.75 U | 0.75 U | 1.5 UJ |
| 1,1-Dichloropropene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 5 UJ |
| 1,2,3-Trichlorobenzene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 5 UJ |
| 1,2,3-Trichloropropane | 0.04 | 5 U | 5 U | 5 U | 5 U | 10 UJ |
| 1,2,4,5-Tetramethylbenzene | 5 | 2 U | 2 U | 2 U | 2 U | 4 UJ |
| 1,2,4-Trichlorobenzene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 5 UJ |
| 1,2,4-Trimethylbenzene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 5 UJ |
| 1,2-Dibromo-3-chloropropane | 0.04 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 5 UJ |
| 1,2-Dibromoethane | 0.0006 | 2 U | 2 U | 2 U | 2 U | 4 UJ |
| 1,2-Dichlorobenzene | 3 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 5 UJ |
| 1,2-Dichloroethane | 0.6 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 1 UJ |
| 1,2-Dichloropropane | 1 | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 3.5 UJ |
| 1,3,5-Trimethylbenzene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 5 UJ |
| 1,3-Dichlorobenzene | 3 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 5 UJ |
| 1,3-Dichloropropane | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 5 UJ |
| 1,4-Dichlorobenzene | 3 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 5 UJ |
| 1,4-Diethylbenzene | NS | 2 U | 2 U | 2 U | 2 U | 4 UJ |
| 2,2-Dichloropropane | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 5 UJ |
| 2-Butanone | 50* | 10 | 16 | 5 U | 5 U | 10 UJ |
| 2-Hexanone | 50* | 5 U | 5 U | 5 U | 5 U | 10 UJ |
| 4-Ethyltoluene | NS | 2 U | 2 U | 2 U | 2 U | 4 UJ |
| 4-Methyl-2-pentanone | NS | 5 U | 5 U | 5 U | 5 U | 10 UJ |
| Acetone | 50* | 13 | 11 | 5 U | 12 | 32 J |
| Acrylonitrile | 5 | 5 U | 5 U | 5 U | 5 U | 10 UJ |
| Benzene | 1 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 1 UJ |
| Bromobenzene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 5 UJ |
| Bromochloromethane | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 5 UJ |
| Bromodichloromethane | 50* | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 1 UJ |
| Bromoform | 50* | 2 U | 2 U | 2 U | 2 U | 4 UJ |
| Bromomethane | 5 | 1 U | 1 U | 1 U | 1 U | 2 UJ |
| Carbon disulfide | NS | 5 U | 5 U | 5 U | 5 U | 10 UJ |
| Carbon tetrachloride | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 1 UJ |
| Chlorobenzene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 1 UJ |
| Chloroethane | 5 | 1 U | 1 U | 1 U | 1 U | 2 UJ |
| Chloroform | 7 | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 1.5 UJ |
| Chloromethane | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 5 UJ |
| cis-1,3-Dichloropropene | 0.4 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 1 UJ |
| Dibromochloromethane | 50* | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 1 UJ |
| Dibromomethane | 5 | 5 U | 5 U | 5 U | 5 U | 10 UJ |
| Dichlorodifluoromethane | 5 | 5 U | 5 U | 5 U | 5 U | 10 UJ |
| Ethylbenzene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 1 UJ |
| Hexachlorobutadiene | 0.5 | 0.6 U | 0.6 U | 0.6 U | 0.6 U | 1.2 UJ |
| Isopropylbenzene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 1 UJ |
| Methyl tert butyl ether | 10 | 1 U | 1 U | 1 U | 1.1 | 2 UJ |
| Methylene chloride | 5 | 5 U | 5 U | 5 U | 5 U | 10 UJ |
| Naphthalene | 10* | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 5 UJ |
| n-Butylbenzene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 1 UJ |
| n-Propylbenzene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 1 UJ |
| o-Chlorotoluene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 5 UJ |
| o-Xylene | 5 | 1 U | 1 U | 1 U | 1 U | 2 UJ |
| p/m-Xylene | 5 | 1 U | 1 U | 1 U | 1 U | 2 UJ |
| p-Chlorotoluene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 5 UJ |
| p-Isopropyltoluene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 1 UJ |
| sec-Butylbenzene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 1 UJ |
| Styrene | 5 | 1 U | 1 U | 1 U | 1 U | 2 UJ |
| tert-Butylbenzene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 5 UJ |
| Toluene | 5 | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 1.5 UJ |
| trans-1,3-Dichloropropene | 0.4 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 1 UJ |
| Trichlorofluoromethane | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 5 UJ |
| Vinyl acetate | NS | 5 U | 5 U | 5 U | 5 U | 10 UJ |

Notes:

All units are µg/L (ppb)

*Class GA Ambient Water Quality Standard (AWQS), NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and

* Guidance Value

U - Analyte not detected above the laboratory MDL

J - Estimated value

NS - No standard established

Bold text indicates compounds above the laboratory MDL

Yellow highlighting indicates exceedance of Ambient Water Quality Standard

Green highlighting indicates exceedance of Ambient Water Quality Guidance Value

Table 15
Groundwater (Vertical Profile) Sample Analytical Data Summary
Volatile Organic Compounds
Former Darby Drugs Distribution Center

| SAMPLE ID | AWQS* | PWG-VP-2008-02 | PWG-VP-2008-02 | PWG-VP-2008-02 | PWG-VP-2008-02 | PWG-VP-2008-02 |
|---------------------------------------|--------|----------------|----------------|----------------|----------------|----------------|
| LAB SAMPLE ID | | L0812904-03 | L0812904-04 | L0812904-05 | L0812904-06 | L0812904-07 |
| SAMPLING DATE | | 8/28/2008 | 8/28/2008 | 8/28/2008 | 8/28/2008 | 8/28/2008 |
| SAMPLE DEPTH (ft.) | | 16-20 | 36-40 | 56-60 | 76-80 | 96-100 |
| Volatile Organics by EPA 8260B | | | | | | |
| Tetrachloroethene | 5 | 210 | 5,800 | 420 J | 21 | 280 J |
| Trichloroethene | 5 | 14 | 98 | 51 J | 1.6 | 29 J |
| cis-1,2-Dichloroethene | 5 | 500 | 50 U | 210 J | 7.5 | 110 J |
| trans-1,2-Dichloroethene | 5 | 7.9 | 75 U | 5.7 J | 1.5 U | 1.5 UJ |
| 1,1-Dichloroethene | 5 | 2.5 U | 50 U | 1.2 UJ | 1 U | 1 UJ |
| Vinyl chloride | 2 | 100 | 100 U | 4.7 J | 2 U | 2 UJ |
| 1,1,1,2-Tetrachloroethane | 5 | 2.5 U | 50 U | 1.2 UJ | 1 U | 1 UJ |
| 1,1,1-Trichloroethane | 5 | 2.5 U | 50 U | 1.2 UJ | 1 U | 1 UJ |
| 1,1,2,2-Tetrachloroethane | 5 | 2.5 U | 50 U | 1.2 UJ | 1 U | 1 UJ |
| 1,1,2-Trichloroethane | 1 | 3.8 U | 75 U | 1.9 UJ | 1.5 U | 1.5 UJ |
| 1,1-Dichloroethane | 5 | 3.8 U | 75 U | 1.9 UJ | 1.5 U | 1.5 UJ |
| 1,1-Dichloropropene | 5 | 12 U | 250 U | 6.2 UJ | 5 U | 5 UJ |
| 1,2,3-Trichlorobenzene | 5 | 12 U | 250 U | 6.2 UJ | 5 U | 5 UJ |
| 1,2,3-Trichloropropane | 0.04 | 25 UJ | 500 U | 12 UJ | 10 U | 10 UJ |
| 1,2,4,5-Tetramethylbenzene | 5 | 10 U | 200 U | 5 UJ | 4 U | 4 UJ |
| 1,2,4-Trichlorobenzene | 5 | 12 U | 250 U | 6.2 UJ | 5 U | 5 UJ |
| 1,2,4-Trimethylbenzene | 5 | 12 U | 250 U | 6.2 UJ | 5 U | 5 UJ |
| 1,2-Dibromo-3-chloropropane | 0.04 | 12 U | 250 U | 6.2 UJ | 5 U | 5 UJ |
| 1,2-Dibromoethane | 0.0006 | 10 U | 200 U | 5 UJ | 4 U | 4 UJ |
| 1,2-Dichlorobenzene | 3 | 12 U | 250 U | 6.2 UJ | 5 U | 5 UJ |
| 1,2-Dichloroethane | 0.6 | 2.5 U | 50 U | 1.2 UJ | 1 U | 1 UJ |
| 1,2-Dichloropropane | 1 | 8.8 U | 180 U | 4.4 UJ | 3.5 U | 3.5 UJ |
| 1,3,5-Trimethylbenzene | 5 | 12 U | 250 U | 6.2 UJ | 5 U | 5 UJ |
| 1,3-Dichlorobenzene | 3 | 12 U | 250 U | 6.2 UJ | 5 U | 5 UJ |
| 1,3-Dichloropropane | 5 | 12 U | 250 U | 6.2 UJ | 5 U | 5 UJ |
| 1,4-Dichlorobenzene | 3 | 12 U | 250 U | 6.2 UJ | 5 U | 5 UJ |
| 1,4-Diethylbenzene | NS | 10 U | 200 U | 5 UJ | 4 U | 4 UJ |
| 2,2-Dichloropropane | 5 | 12 U | 250 U | 6.2 UJ | 5 U | 5 UJ |
| 2-Butanone | 50* | 25 U | 500 U | 12 UJ | 21 | 10 UJ |
| 2-Hexanone | 50* | 25 U | 500 U | 12 UJ | 10 U | 10 UJ |
| 4-Ethyltoluene | NS | 10 U | 200 U | 5 UJ | 4 U | 4 UJ |
| 4-Methyl-2-pentanone | NS | 25 U | 500 U | 12 UJ | 10 U | 10 UJ |
| Acetone | 50* | 28 | 500 U | 23 J | 71 | 36 J |
| Acrylonitrile | 5 | 25 U | 500 U | 12 UJ | 10 U | 10 UJ |
| Benzene | 1 | 2.5 U | 50 U | 1.2 UJ | 1 U | 1 UJ |
| Bromobenzene | 5 | 12 U | 250 U | 6.2 UJ | 5 U | 5 UJ |
| Bromochloromethane | 5 | 12 U | 250 U | 6.2 UJ | 5 U | 5 UJ |
| Bromodichloromethane | 50* | 2.5 U | 50 U | 1.2 UJ | 1 U | 1 UJ |
| Bromoform | 50* | 10 U | 200 U | 5 UJ | 4 U | 4 UJ |
| Bromomethane | 5 | 5 UJ | 100 U | 2.5 UJ | 2 U | 2 UJ |
| Carbon disulfide | NS | 25 U | 500 U | 12 UJ | 10 U | 10 UJ |
| Carbon tetrachloride | 5 | 2.5 U | 50 U | 1.2 UJ | 1 U | 1 UJ |
| Chlorobenzene | 5 | 2.5 U | 50 U | 1.2 UJ | 1 U | 1 UJ |
| Chloroethane | 5 | 5 U | 100 U | 2.5 UJ | 2 U | 2 UJ |
| Chloroform | 7 | 3.8 U | 75 U | 1.9 UJ | 1.5 U | 1.5 UJ |
| Chloromethane | 5 | 12 UJ | 250 U | 6.2 UJ | 5 U | 5 UJ |
| cis-1,3-Dichloropropene | 0.4 | 2.5 U | 50 U | 1.2 UJ | 1 U | 1 UJ |
| Dibromochloromethane | 50* | 2.5 U | 50 U | 1.2 UJ | 1 U | 1 UJ |
| Dibromomethane | 5 | 25 U | 500 U | 12 UJ | 10 U | 10 UJ |
| Dichlorodifluoromethane | 5 | 25 U | 500 U | 12 UJ | 10 U | 10 UJ |
| Ethylbenzene | 5 | 2.5 U | 50 U | 1.2 UJ | 1 U | 1 UJ |
| Hexachlorobutadiene | 0.5 | 3 U | 60 U | 1.5 UJ | 1.2 U | 1.2 UJ |
| Isopropylbenzene | 5 | 2.5 UJ | 50 U | 1.2 UJ | 1 U | 1 UJ |
| Methyl tert butyl ether | 10 | 5 U | 100 U | 2.5 UJ | 2 U | 2 UJ |
| Methylene chloride | 5 | 25 U | 500 U | 12 UJ | 10 U | 10 UJ |
| Naphthalene | 10* | 12 UJ | 250 U | 6.2 UJ | 5 U | 5 UJ |
| n-Butylbenzene | 5 | 2.5 U | 50 U | 1.2 UJ | 1 U | 1 UJ |
| n-Propylbenzene | 5 | 2.5 U | 50 U | 1.2 UJ | 1 U | 1 UJ |
| o-Chlorotoluene | 5 | 12 U | 250 U | 6.2 UJ | 5 U | 5 UJ |
| o-Xylene | 5 | 5 U | 100 U | 2.5 UJ | 2 U | 2 UJ |
| p/m-Xylene | 5 | 5 U | 100 U | 2.5 UJ | 2 U | 2 UJ |
| p-Chlorotoluene | 5 | 12 U | 250 U | 6.2 UJ | 5 U | 5 UJ |
| p-Isopropyltoluene | 5 | 2.5 U | 50 U | 1.2 UJ | 1 U | 1 UJ |
| sec-Butylbenzene | 5 | 2.5 U | 50 U | 1.2 UJ | 1 U | 1 UJ |
| Styrene | 5 | 5 U | 100 U | 2.5 UJ | 2 U | 2 UJ |
| tert-Butylbenzene | 5 | 12 U | 250 U | 6.2 UJ | 5 U | 5 UJ |
| Toluene | 5 | 3.8 U | 75 U | 1.9 UJ | 1.5 | 1.5 UJ |
| trans-1,3-Dichloropropene | 0.4 | 2.5 U | 50 U | 1.2 UJ | 1 U | 1 UJ |
| Trichlorofluoromethane | 5 | 12 U | 250 U | 6.2 UJ | 5 U | 5 UJ |
| Vinyl acetate | NS | 25 U | 500 U | 12 UJ | 10 U | 10 UJ |

Notes:

All units are µg/L (ppb)

*Class GA Ambient Water Quality Standard (AWQS), NY Guidance Values and Groundwater Effluent Limitations, June 1996

* Guidance Value

U - Analyte not detected above the laboratory MDL

J - Estimated value

NS - No standard established

Bold text indicates compounds above the laboratory M

Yellow highlighting indicates exceedance of Ambient V

Green highlighting indicates exceedance of Ambient V

Table 15
Groundwater (Vertical Profile) Sample Analytical Data Summary
Volatile Organic Compounds
Former Darby Drugs Distribution Center

| SAMPLE ID | AWQS* | PWG-VP-2008-03 | PWG-VP-2008-03 | PWG-VP-2008-03 | PWG-VP-2008-03 | PWG-VP-2008-03 |
|---------------------------------------|--------|----------------|----------------|----------------|----------------|----------------|
| LAB SAMPLE ID | | L0812845-06 | L0812845-07 | L0812845-08 | L0812845-11 | L0812904-02 |
| SAMPLING DATE | | 8/27/2008 | 8/27/2008 | 8/27/2008 | 8/27/2008 | 8/28/2008 |
| SAMPLE DEPTH (ft.) | | 16-20 | 36-40 | 56-60 | 76-80 | 96-100 |
| Volatile Organics by EPA 8260B | | | | | | |
| Tetrachloroethene | 5 | 28 | 24 | 91 | 21 | 27 J |
| Trichloroethene | 5 | 1.2 | 0.5 U | 2.6 | 0.5 U | 1.3 J |
| cis-1,2-Dichloroethene | 5 | 13 | 0.62 | 8.3 | 1.2 | 8.8 J |
| trans-1,2-Dichloroethene | 5 | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 UJ |
| 1,1-Dichloroethene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 UJ |
| Vinyl chloride | 2 | 1 U | 1 U | 1 U | 1 U | 1 UJ |
| 1,1,1,2-Tetrachloroethane | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 UJ |
| 1,1,1-Trichloroethane | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 UJ |
| 1,1,2,2-Tetrachloroethane | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 UJ |
| 1,1,2-Trichloroethane | 1 | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 UJ |
| 1,1-Dichloroethane | 5 | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 UJ |
| 1,1-Dichloropropene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 UJ |
| 1,2,3-Trichlorobenzene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 UJ |
| 1,2,3-Trichloropropane | 0.04 | 5 U | 5 U | 5 U | 5 U | 5 UJ |
| 1,2,4,5-Tetramethylbenzene | 5 | 2 U | 2 U | 2 U | 2 U | 2 UJ |
| 1,2,4-Trichlorobenzene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 UJ |
| 1,2,4-Trimethylbenzene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 UJ |
| 1,2-Dibromo-3-chloropropane | 0.04 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 UJ |
| 1,2-Dibromoethane | 0.0006 | 2 U | 2 U | 2 U | 2 U | 2 UJ |
| 1,2-Dichlorobenzene | 3 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 UJ |
| 1,2-Dichloroethane | 0.6 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 UJ |
| 1,2-Dichloropropane | 1 | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.8 UJ |
| 1,3,5-Trimethylbenzene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 UJ |
| 1,3-Dichlorobenzene | 3 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 UJ |
| 1,3-Dichloropropane | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 UJ |
| 1,4-Dichlorobenzene | 3 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 UJ |
| 1,4-Diethylbenzene | NS | 2 U | 2 U | 2 U | 2 U | 2 UJ |
| 2,2-Dichloropropane | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 UJ |
| 2-Butanone | 50* | 6.4 | 5 U | 5 U | 5 U | 5 UJ |
| 2-Hexanone | 50* | 5 U | 5 U | 5 U | 5 U | 5 UJ |
| 4-Ethyltoluene | NS | 2 U | 2 U | 2 U | 2 U | 2 UJ |
| 4-Methyl-2-pentanone | NS | 5 U | 5 U | 5 U | 5 U | 5 UJ |
| Acetone | 50* | 26 | 5 U | 5 U | 5 U | 7.1 J |
| Acrylonitrile | 5 | 5 U | 5 U | 5 U | 5 U | 5 UJ |
| Benzene | 1 | 0.5 U | 0.5 U | 0.69 | 0.5 U | 0.5 UJ |
| Bromobenzene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 UJ |
| Bromochloromethane | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 UJ |
| Bromodichloromethane | 50* | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 UJ |
| Bromoform | 50* | 2 U | 2 U | 2 U | 2 U | 2 UJ |
| Bromomethane | 5 | 1 U | 1 U | 1 U | 1 U | 1 UJ |
| Carbon disulfide | NS | 5 U | 5 U | 5 U | 5 U | 5 UJ |
| Carbon tetrachloride | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 UJ |
| Chlorobenzene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 UJ |
| Chloroethane | 5 | 1 U | 1 U | 1 U | 1 U | 1 UJ |
| Chloroform | 7 | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 UJ |
| Chloromethane | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 UJ |
| cis-1,3-Dichloropropene | 0.4 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 UJ |
| Dibromochloromethane | 50* | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 UJ |
| Dibromomethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 UJ |
| Dichlorodifluoromethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 UJ |
| Ethylbenzene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 UJ |
| Hexachlorobutadiene | 0.5 | 0.6 U | 0.6 U | 0.6 U | 0.6 U | 0.6 UJ |
| Isopropylbenzene | 5 | 0.5 U | 0.5 U | 0.88 | 1.3 | 0.5 UJ |
| Methyl tert butyl ether | 10 | 1 U | 1 U | 5.5 | 1 U | 1 UJ |
| Methylene chloride | 5 | 5 U | 5 U | 5 U | 5 U | 5 UJ |
| Naphthalene | 10* | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 UJ |
| n-Butylbenzene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 UJ |
| n-Propylbenzene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 UJ |
| o-Chlorotoluene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 UJ |
| o-Xylene | 5 | 1 U | 1 U | 1 U | 1 U | 1 UJ |
| p/m-Xylene | 5 | 1 U | 1 U | 1 U | 1 U | 1 UJ |
| p-Chlorotoluene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 UJ |
| p-Isopropyltoluene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 UJ |
| sec-Butylbenzene | 5 | 0.5 U | 1.3 | 0.5 U | 1.2 | 0.5 UJ |
| Styrene | 5 | 1 U | 1 U | 1 U | 1 U | 1 UJ |
| tert-Butylbenzene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 UJ |
| Toluene | 5 | 0.75 U | 0.75 U | 1 | 0.75 U | 1.1 J |
| trans-1,3-Dichloropropene | 0.4 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 UJ |
| Trichlorofluoromethane | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 UJ |
| Vinyl acetate | NS | 5 U | 5 U | 5 U | 5 U | 5 UJ |

Notes:

All units are µg/L (ppb)

*Class GA Ambient Water Quality Standard (AWQS), NY

* Guidance Value

U - Analyte not detected above the laboratory MDL

J - Estimated value

NS - No standard established

Bold text indicates compounds above the laboratory M

Yellow highlighting indicates exceedance of Ambient V

Green highlighting indicates exceedance of Ambient V

Table 15
Groundwater (Vertical Profile) Sample Analytical Data Summary
Volatile Organic Compounds
Former Darby Drugs Distribution Center

| SAMPLE ID | AWQS* | PWG-VP-2008-04 | PWG-VP-2008-04 | PWG-VP-2008-04 | PWG-VP-2008-04 | PWG-VP-2008-04 |
|---------------------------------------|--------|----------------|----------------|----------------|----------------|----------------|
| LAB SAMPLE ID | | L0812845-01 | L0812845-02 | L0812845-03 | L0812845-04 | L0812845-05 |
| SAMPLING DATE | | 8/26/2008 | 8/26/2008 | 8/26/2008 | 8/26/2008 | 8/27/2008 |
| SAMPLE DEPTH (ft.) | | 16-20 | 36-40 | 56-60 | 76-80 | 96-100 |
| Volatile Organics by EPA 8260B | | | | | | |
| Tetrachloroethene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Trichloroethene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| cis-1,2-Dichloroethene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| trans-1,2-Dichloroethene | 5 | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U |
| 1,1-Dichloroethene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Vinyl chloride | 2 | 1 U | 1 U | 1 U | 1 U | 1 U |
| 1,1,1,2-Tetrachloroethane | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 1,1,1-Trichloroethane | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 1,1,2,2-Tetrachloroethane | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 1,1,2-Trichloroethane | 1 | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U |
| 1,1-Dichloroethane | 5 | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U |
| 1,1-Dichloropropene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 1,2,3-Trichlorobenzene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 1,2,3-Trichloropropane | 0.04 | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2,4,5-Tetramethylbenzene | 5 | 2 U | 2 U | 2 U | 2 U | 2 U |
| 1,2,4-Trichlorobenzene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 1,2,4-Trimethylbenzene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 1,2-Dibromo-3-chloropropane | 0.04 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 1,2-Dibromoethane | 0.0006 | 2 U | 2 U | 2 U | 2 U | 2 U |
| 1,2-Dichlorobenzene | 3 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 1,2-Dichloroethane | 0.6 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 1,2-Dichloropropane | 1 | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U |
| 1,3,5-Trimethylbenzene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 1,3-Dichlorobenzene | 3 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 1,3-Dichloropropane | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 1,4-Dichlorobenzene | 3 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 1,4-Diethylbenzene | NS | 2 U | 2 U | 2 U | 2 U | 2 U |
| 2,2-Dichloropropane | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 2-Butanone | 50* | 5 U | 5 U | 5 U | 5 U | 18 |
| 2-Hexanone | 50* | 5 U | 5 U | 5 U | 5 U | 5 U |
| 4-Ethyltoluene | NS | 2 U | 2 U | 2 U | 2 U | 2 U |
| 4-Methyl-2-pentanone | NS | 5 U | 5 U | 5 U | 5 U | 5 U |
| Acetone | 50* | 5 U | 5 U | 8.9 | 5 U | 49 |
| Acrylonitrile | 5 | 5 U | 5 U | 5 U | 5 U | 5 U |
| Benzene | 1 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.56 |
| Bromobenzene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| Bromochloromethane | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| Bromodichloromethane | 50* | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Bromoform | 50* | 2 U | 2 U | 2 U | 2 U | 2 U |
| Bromomethane | 5 | 1 U | 1 U | 1 U | 1 U | 1 U |
| Carbon disulfide | NS | 5 U | 5 U | 5 U | 5 U | 5 U |
| Carbon tetrachloride | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Chlorobenzene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Chloroethane | 5 | 1 U | 1 U | 1 U | 1 U | 1 U |
| Chloroform | 7 | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U |
| Chloromethane | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| cis-1,3-Dichloropropene | 0.4 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Dibromochloromethane | 50* | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Dibromomethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U |
| Dichlorodifluoromethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U |
| Ethylbenzene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Hexachlorobutadiene | 0.5 | 0.6 U | 0.6 U | 0.6 U | 0.6 U | 0.6 U |
| Isopropylbenzene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Methyl tert butyl ether | 10 | 1 U | 1 U | 1 U | 1 U | 1 U |
| Methylene chloride | 5 | 5 U | 5 U | 5 U | 5 U | 5 U |
| Naphthalene | 10* | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| n-Butylbenzene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| n-Propylbenzene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| o-Chlorotoluene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| o-Xylene | 5 | 1 U | 1 U | 1 U | 1 U | 1 U |
| p/m-Xylene | 5 | 1 U | 1 U | 1 U | 1 U | 1 U |
| p-Chlorotoluene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| p-Isopropyltoluene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| sec-Butylbenzene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Styrene | 5 | 1 U | 1 U | 1 U | 1 U | 1 U |
| tert-Butylbenzene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| Toluene | 5 | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 1.3 |
| trans-1,3-Dichloropropene | 0.4 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Trichlorofluoromethane | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| Vinyl acetate | NS | 5 U | 5 U | 5 U | 5 U | 5 U |

Notes:

All units are µg/L (ppb)

*Class GA Ambient Water Quality Standard (AWQS), NY

* Guidance Value

U - Analyte not detected above the laboratory MDL

J - Estimated value

NS - No standard established

Bold text indicates compounds above the laboratory M

Yellow highlighting indicates exceedance of Ambient V

Green highlighting indicates exceedance of Ambient V

Table 16
Soil Vapor Sample Analytical Data Summary
Volatile Organic Compounds
Former Darby Drugs Distribution Center

| SAMPLE ID | Target | PWG-SG-2008-01 | PWG-SG-2008-02 | PWG-SG-2008-03 | PWG-SG-2008-04 | PWG-SG-2008-05 | PWG-SG-2008-06 |
|-----------------------------------|------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| SAMPLING DATE: | Shallow | 9/10/08 | 9/10/08 | 9/10/08 | 9/10/08 | 9/10/08 | 9/10/08 |
| LAB SAMPLE ID: | Soil-Gas | L0813541-01 | L0813541-02 | L0813541-03 | L0813541-04 | L0813541-05 | L0813541-06 |
| SAMPLE DEPTH: | Concentration ⁽¹⁾ | 5.5' | 5.5' | 5.5' | 5.5' | 5.5' | 5.5' |
| Volatile Organics by IO-15 | | | | | | | |
| Tetrachloroethene | 81 | 31.1 | 45.6 | 26.5 | 22.4 | 20.0 | 7.12 |
| Trichloroethene | 2.2 | 1.91 | 1.72 | 6.6 | 2.17 | 10.7 U | 1.49 |
| cis-1,2-Dichloroethene | 350 | 0.792 U | 0.792 U | 0.792 U | 0.792 U | 7.92 U | 0.792 U |
| trans-1,2-Dichloroethene | 700 | 0.792 U | 0.792 U | 0.792 U | 0.792 U | 7.92 U | 0.792 U |
| 1,1-Dichloroethene | NS | 0.792 U | 0.792 U | 0.792 U | 0.792 U | 7.92 U | 0.792 U |
| Vinyl chloride | 28 | 0.511 U | 0.511 U | 0.511 U | 0.511 U | 5.11 U | 0.511 U |
| 1,1,2,2-Tetrachloroethane | 4.2 | 1.37 U | 1.37 U | 1.37 U | 1.37 U | 13.7 U | 1.37 U |
| 1,1,1-Trichloroethane | 22,000 | 1.33 | 27.7 | 9.81 | 1.09 U | 10.9 U | 1.09 U |
| 1,1,2-Trichloroethane | 15 | 1.09 U | 1.09 U | 1.09 U | 1.09 U | 10.9 U | 1.09 U |
| 1,1-Dichloroethane | 9.4 | 0.809 U | 0.809 U | 0.809 U | 0.809 U | 8.09 U | 0.809 U |
| 1,2,4-Trichlorobenzene | NS | 1.48 U | 1.48 U | 1.48 U | 1.48 U | 14.8 U | 1.48 U |
| 1,2,4-Trimethylbenzene | 60 | 5.5 | 5.56 | 7.86 | 4.72 | 9.82 U | 4.9 |
| 1,2-Dibromoethane | 1.1 | 1.54 U | 1.54 U | 1.54 U | 1.54 U | 15.4 U | 1.54 U |
| 1,2-Dichlorobenzene | 2,000 | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 12 U | 1.2 U |
| 1,2-Dichloroethane | 9.4 | 0.809 U | 0.809 U | 0.809 U | 0.809 U | 8.09 U | 0.809 U |
| 1,2-Dichloropropane | 40 | 0.924 U | 0.924 U | 0.924 U | 0.924 U | 9.24 U | 0.924 U |
| 1,3,5-Trimethylbenzene | 60 | 2.28 | 2.56 | 3.32 | 2.28 | 9.82 U | 2.23 |
| 1,3-Butadiene | 0.87 | 0.442 U | 0.442 U | 0.442 U | 0.442 U | 4.42 U | 0.442 U |
| 1,3-Dichlorobenzene | 1,100 | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 12 U | 1.2 U |
| 1,4-Dichlorobenzene | 8,000 | 36.7 | 38.2 | 48.2 | 35.5 | 17.3 | 34.1 |
| 1,4-Dioxane | NS | 0.72 U | 0.72 U | 0.72 U | 0.72 U | 7.2 U | 0.72 U |
| 2,2,4-Trimethylpentane | NS | 0.934 U | 0.934 U | 0.934 U | 0.934 U | 9.34 U | 0.934 U |
| 2-Butanone | 10,000 | 2.84 | 3.01 | 4.14 | 37.1 | 421 | 40.1 |
| 2-Hexanone | NS | 0.819 U | 0.819 U | 0.819 U | 9.32 | 9.46 | 12.2 |
| 3-Chloropropene | NS | 0.626 U | 0.626 U | 0.626 U | 0.626 U | 6.26 U | 0.626 U |
| 4-Ethyltoluene | NS | 0.982 U | 0.982 U | 1.14 | 0.982 U | 9.82 U | 0.982 U |
| 4-Methyl-2-pentanone | 800 | 0.819 U | 0.819 U | 0.819 U | 0.819 U | 8.19 U | 0.819 U |
| Acetone | 3,500 | 16.7 | 16 | 24 | 114 | 1900 | 108 |
| Benzene | 31 | 0.638 U | 0.638 U | 0.638 U | 0.828 | 6.38 U | 0.638 U |
| Benzyl chloride | 50 | 1.03 U | 1.03 U | 1.03 U | 1.03 U | 10.3 U | 1.03 U |
| Bromodichloromethane | 14 | 1.34 U | 1.34 U | 1.34 U | 1.34 U | 13.4 U | 1.34 U |
| Bromoform | 220 | 2.06 U | 2.06 U | 2.06 U | 2.06 U | 20.6 U | 2.06 U |
| Bromomethane | 50 | 0.776 U | 0.776 U | 0.776 U | 0.776 U | 7.76 U | 0.776 U |
| Carbon disulfide | 7,000 | 0.789 | 0.622 U | 3.02 | 0.715 | 6.22 U | 0.622 U |
| Carbon tetrachloride | 16 | 1.26 U | 1.26 U | 1.26 U | 1.26 U | 12.6 U | 1.26 U |
| Chlorobenzene | 600 | 0.92 U | 0.92 U | 0.92 U | 0.92 U | 9.2 U | 0.92 U |
| Chloroethane | 100,000 | 0.527 U | 0.527 U | 0.527 U | 0.527 U | 5.27 U | 0.527 U |
| Chloroform | 11 | 0.976 U | 5.72 | 21.5 | 1.94 | 9.76 U | 0.976 U |
| Chloromethane | 240 | 0.413 U | 0.413 U | 0.42 | 0.413 U | 4.13 U | 0.413 U |
| cis-1,3-Dichloropropene | NS | 0.907 U | 0.907 U | 0.907 U | 0.907 U | 9.07 U | 0.907 U |
| Cyclohexane | NS | 0.942 | 0.965 | 1.95 | 1.37 | 6.88 U | 1.05 |
| Dibromochloromethane | 10 | 1.7 U | 1.7 U | 1.7 U | 1.7 U | 17 U | 1.7 U |
| Dichlorodifluoromethane | 2,000 | 5.34 | 4.78 | 9.56 | 3.46 | 9.88 U | 2.78 |
| Ethanol | NS | 8.78 | 11.8 | 17 | 18.2 | 206 | 18 |
| Ethyl Acetate | 320,000 | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 18 U | 1.8 U |
| Ethylbenzene | 220 | 2.55 | 3.06 | 3.95 | 3.86 | 8.68 U | 7.92 |
| Freon-113 | 300,000 | 1.53 U | 1.53 U | 1.66 | 1.65 | 15.3 U | 1.53 U |
| Freon-114 | NS | 1.79 | 1.4 U | 1.96 | 1.4 U | 14 U | 1.4 U |
| Hexachlorobutadiene | 11 | 0.819 U | 0.819 U | 0.887 | 1.21 | 8.19 U | 1.49 |
| Isopropanol | NS | 2.13 U | 2.13 U | 2.13 U | 2.13 U | 21.3 U | 2.13 U |
| Methylene chloride | 520 | 1.23 U | 1.23 U | 1.23 U | 3.75 | 130 | 2.74 |
| Methyl tert butyl ether | 30,000 | 0.72 U | 0.72 U | 0.72 U | 0.72 U | 7.2 U | 0.72 U |
| p/m-Xylene | 70,000 | 1.74 U | 1.74 U | 1.74 U | 1.74 U | 17.4 U | 1.74 U |
| o-Xylene | 70,000 | 0.704 U | 0.704 U | 1.42 | 0.872 | 7.04 U | 0.909 |
| Heptane | NS | 3.53 | 3.88 | 5.16 | 5 | 8.68 U | 9.74 |
| n-Hexane | 2,000 | 8.63 | 9.6 | 12.2 | 12 | 17.4 U | 26.3 |
| Propylene | NS | 0.344 U | 0.344 U | 2.1 | 3.28 | 270 | 2.92 |
| Styrene | 10,000 | 4.03 | 4.14 | 5.05 | 4.62 | 8.51 U | 3.9 |
| Tetrahydrofuran | NS | 0.589 U | 0.589 U | 0.589 U | 0.589 U | 5.89 U | 0.589 U |
| Toluene | 4,000 | 7.34 | 8.22 | 10.9 | 10.7 | 14.1 | 11 |
| trans-1,3-Dichloropropene | NS | 0.907 U | 0.907 U | 0.907 U | 0.907 U | 9.07 U | 0.907 U |
| Trichlorofluoromethane | 7,000 | 2.52 | 6.38 | 18.3 | 4.62 | 11.2 U | 1.83 |
| Vinyl acetate | 2,000 | 0.704 U | 0.704 U | 0.704 U | 0.704 U | 7.04 U | 0.704 U |
| Vinyl bromide | NS | 0.874 U | 0.874 U | 0.874 U | 0.874 U | 8.74 U | 0.874 U |

Notes:

All units are ug/m³

⁽¹⁾Target Shallow Soil Gas Concentrations, USEPA Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soil (Subsurface Vapor Intrusion Guidance) Table 2b Risk = 1 x 10⁻⁵

U - Analyte not detected at or above the reporting limit

J - Estimated value

NS - No standard or guidance value established

Bold text indicates compounds above the laboratory MDL

Yellow highlighting indicates exceedence of USEPA Target Shallow Soil Gas Concentration

Table 16
Soil Vapor Sample Analytical Data Summary
Volatile Organic Compounds
Former Darby Drugs Distribution Center

| SAMPLE ID | Target | PWG-SG-2008-07 | PWG-SG-2008-08 | PWG-SG-2008-09 | PWG-SG-2008-10 | PWG-SG-2008-11 | PWG-SG-2008-12 |
|-----------------------------------|------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| SAMPLING DATE: | Shallow | 9/10/08 | 9/10/08 | 9/10/08 | 9/10/08 | 9/10/08 | 9/10/08 |
| LAB SAMPLE ID: | Soil-Gas | L0813541-07 | L0813541-08 | L0813541-09 | L0813541-10 | L0813541-11 | L0813541-12 |
| SAMPLE DEPTH: | Concentration ⁽¹⁾ | 5.5' | 5.5' | 5.5' | 5.5' | 5.5' | 5.5' |
| Volatile Organics by IO-15 | | | | | | | |
| Tetrachloroethene | 81 | 62.2 | 4.09 | 9660 | 13.6 U | 1680000 | 156 |
| Trichloroethene | 2.2 | 10.7 U | 1.36 | 29.7 | 10.7 U | 19100 | 3.38 |
| cis-1,2-Dichloroethene | 350 | 7.92 U | 0.792 U | 19.8 U | 7.92 U | 33500 | 0.792 U |
| trans-1,2-Dichloroethene | 700 | 7.92 U | 0.792 U | 19.8 U | 7.92 U | 1340 | 0.792 U |
| 1,1-Dichloroethene | NS | 7.92 U | 0.792 U | 19.8 U | 7.92 U | 205 U | 0.792 U |
| Vinyl chloride | 28 | 5.11 U | 0.511 U | 12.8 U | 5.11 U | 132 U | 0.511 U |

| | | | | | | | |
|---------------------------|---------|-------------|--------------|-------------|-------------|------------|-------------|
| 1,1,2,2-Tetrachloroethane | 4.2 | 13.7 U | 1.37 U | 34.3 U | 13.7 U | 355 U | 1.37 U |
| 1,1,1-Trichloroethane | 22,000 | 10.9 U | 1.09 U | 27.2 U | 10.9 U | 282 U | 16.8 |
| 1,1,2-Trichloroethane | 15 | 10.9 U | 1.09 U | 27.2 U | 10.9 U | 282 U | 1.09 U |
| 1,1-Dichloroethane | 9.4 | 8.09 U | 0.809 U | 20.2 U | 8.09 U | 209 U | 0.809 U |
| 1,2,4-Trichlorobenzene | NS | 14.8 U | 1.48 U | 37.1 U | 14.8 U | 384 U | 1.48 U |
| 1,2,4-Trimethylbenzene | 60 | 9.82 U | 3.88 | 24.6 U | 9.82 U | 254 U | 5.95 |
| 1,2-Dibromoethane | 1.1 | 15.4 U | 1.54 U | 38.4 U | 15.4 U | 397 U | 1.54 U |
| 1,2-Dichlorobenzene | 2,000 | 12 U | 1.2 U | 30 U | 12 U | 311 U | 1.2 U |
| 1,2-Dichloroethane | 9.4 | 8.09 U | 0.809 U | 20.2 U | 8.09 U | 209 U | 0.809 U |
| 1,2-Dichloropropane | 40 | 9.24 U | 0.924 U | 23.1 U | 9.24 U | 239 U | 0.924 U |
| 1,3,5-Trimethylbenzene | 60 | 9.82 U | 1.85 | 24.6 U | 9.82 U | 254 U | 2.71 |
| 1,3-Butadiene | 0.87 | 4.42 U | 0.442 U | 11 U | 4.42 U | 114 U | 0.442 U |
| 1,3-Dichlorobenzene | 1,100 | 12 U | 1.2 U | 30 U | 12 U | 311 U | 1.2 U |
| 1,4-Dichlorobenzene | 8,000 | 22.8 | 24.3 | 30 U | 20.1 | 311 U | 40.1 |
| 1,4-Dioxane | NS | 7.2 U | 0.72 U | 18 U | 7.2 U | 186 U | 0.72 U |
| 2,2,4-Trimethylpentane | NS | 9.34 U | 0.934 U | 23.3 U | 9.34 U | 241 U | 0.934 U |
| 2-Butanone | 10,000 | 749 | 12.4 | 388 | 299 | 152 U | 2.82 |
| 2-Hexanone | NS | 22.8 | 3.84 | 20.5 U | 9.18 | 212 U | 0.819 U |
| 3-Chloropropene | NS | 6.26 U | 0.626 U | 15.6 U | 6.26 U | 162 U | 0.626 U |
| 4-Ethyltoluene | NS | 9.82 U | 0.982 U | 24.6 U | 9.82 U | 254 U | 0.982 U |
| 4-Methyl-2-pentanone | 800 | 8.19 U | 0.819 U | 20.5 U | 8.19 U | 212 U | 0.819 U |
| Acetone | 3,500 | 3870 | 36 | 2280 | 1630 | 307 U | 16.2 |
| Benzene | 31 | 6.38 U | 0.638 U | 16 U | 6.38 U | 165 U | 0.638 U |
| Benzyl chloride | 50 | 10.3 U | 1.03 U | 25.9 U | 10.3 U | 268 U | 1.03 U |
| Bromodichloromethane | 14 | 13.4 U | 1.34 U | 33.5 U | 13.4 U | 346 U | 1.34 U |
| Bromoform | 220 | 20.6 U | 2.06 U | 51.6 U | 20.6 U | 534 U | 2.06 U |
| Bromomethane | 50 | 7.76 U | 0.776 U | 19.4 U | 7.76 U | 201 U | 0.776 U |
| Carbon disulfide | 7,000 | 6.22 U | 0.622 U | 15.6 U | 6.22 U | 161 U | 0.622 U |
| Carbon tetrachloride | 16 | 12.6 U | 1.26 U | 31.4 U | 12.6 U | 325 U | 1.26 U |
| Chlorobenzene | 600 | 9.2 U | 0.92 U | 23 U | 9.2 U | 238 U | 0.92 U |
| Chloroethane | 100,000 | 5.27 U | 0.527 U | 13.2 U | 5.27 U | 136 U | 0.527 U |
| Chloroform | 11 | 9.76 U | 0.976 U | 24.4 U | 9.76 U | 362 | 1.25 |
| Chloromethane | 240 | 4.13 U | 0.413 U | 10.3 U | 4.13 U | 107 U | 0.413 U |
| cis-1,3-Dichloropropene | NS | 9.07 U | 0.907 U | 22.7 U | 9.07 U | 234 U | 0.907 U |
| Cyclohexane | NS | 6.88 U | 0.975 | 17.2 U | 6.88 U | 178 U | 1.07 |
| Dibromochloromethane | 10 | 17 U | 1.7 U | 42.6 U | 17 U | 440 U | 1.7 U |
| Dichlorodifluoromethane | 2,000 | 9.88 U | 2.95 | 24.7 U | 9.88 U | 256 U | 3.55 |
| Ethanol | NS | 455 | 8.23 | 240 | 136 | 1220 U | 17.5 |
| Ethyl Acetate | 320,000 | 18 U | 1.8 U | 45 U | 18 U | 466 U | 1.8 U |
| Ethylbenzene | 220 | 8.68 U | 3.18 | 21.7 U | 8.68 U | 224 U | 2.93 |
| Freon-113 | 300,000 | 15.3 U | 1.53 U | 38.3 U | 15.3 U | 869 | 1.53 U |
| Freon-114 | NS | 14 U | 1.4 U | 34.9 U | 14 U | 361 U | 1.4 U |
| Hexachlorobutadiene | 11 | 8.19 U | 0.819 U | 20.5 U | 8.19 U | 212 U | 0.819 U |
| Isopropanol | NS | 21.3 U | 2.13 U | 53.3 U | 21.3 U | 551 U | 2.13 U |
| Methylene chloride | 520 | 232 | 1.28 | 185 | 26.9 | 318 U | 1.23 U |
| Methyl tert butyl ether | 30,000 | 7.2 U | 0.72 U | 18 U | 7.2 U | 186 U | 0.72 U |
| p/m-Xylene | 70,000 | 17.4 U | 3.08 | 43.4 U | 17.4 U | 449 U | 1.74 U |
| o-Xylene | 70,000 | 7.04 U | 1.02 | 17.6 U | 7.04 U | 182 U | 0.704 U |
| Heptane | NS | 8.68 U | 4.11 | 21.7 U | 8.68 U | 224 U | 3.8 |
| n-Hexane | 2,000 | 22.7 | 10 | 43.4 U | 17.4 U | 449 U | 9.3 |
| Propylene | NS | 390 | 1.64 | 406 | 163 | 88.9 U | 0.344 U |
| Styrene | 10,000 | 8.51 U | 3.02 | 21.3 U | 8.51 U | 220 U | 4.36 |
| Tetrahydrofuran | NS | 5.89 U | 0.589 U | 14.7 U | 5.89 U | 152 U | 0.589 U |
| Toluene | 4,000 | 10.6 | 7.07 | 18.8 U | 10.9 | 195 U | 7.76 |
| trans-1,3-Dichloropropene | NS | 9.07 U | 0.907 U | 22.7 U | 9.07 U | 234 U | 0.907 U |
| Trichlorofluoromethane | 7,000 | 11.2 U | 1.88 | 28.1 U | 11.2 U | 290 U | 2.72 |
| Vinyl acetate | 2,000 | 7.04 U | 0.704 U | 17.6 U | 7.04 U | 182 U | 0.704 U |
| Vinyl bromide | NS | 8.74 U | 0.874 U | 21.8 U | 8.74 U | 226 U | 0.874 U |

Notes:

All units are ug/m³

⁽¹⁾Target Shallow Soil Gas Concentrations, USEPA Draft Guida Guidance) Table 2b Risk = 1 x 10⁻⁵

U - Analyte not detected at or above the reporting limit

J - Estimated value

NS - No standard or guidance value established

Bold text indicates compounds above the laboratory MDL

Yellow highlighting indicates exceedence of USEPA Target SI

Table 17
Public Supply Well Construction Details
Former Darby Drugs Distribution Center

| Water District | Well No. | Distance | Aquifer | Status | Depth | Screen Depth | Capacity | Layer ? | Well Pos. |
|--------------------------|----------|----------|---------|--------|-------|--------------|----------|---------|---------------|
| Rockville Centre Village | N-00050 | 1,303 | Magothy | NU | 513 | 442 | 1100 | Unk. | downgradient |
| Rockville Centre Village | N-05194 | 1,540 | Magothy | YR | 515 | 455 | 1200 | Unk. | downgradient |
| Rockville Centre Village | N-05195 | 1,658 | Magothy | YR | 505 | 444 | 1200 | Unk. | downgradient |
| Long Island Water | N-05656 | 1,895 | Magothy | YR | 495 | 445 | 1390 | Unk. | crossgradient |
| Long Island Water | N-07521 | 1,824 | Magothy | YR | 555 | 445 | 1400 | Unk. | crossgradient |

Notes:

Public Supply Wells within 1/2 mile upgradient/crossgradient or 1 mile downgradient of the site

NA = Not Applicable

YR = Year Round

NU = Not in Use

SS = Seasonal

AB = Abandoned

Table 18
Groundwater QA/QC Sample Data Summary
Volatile Organic Compounds
Former Darby Drugs Distribution Center

| SAMPLE TYPE | AWQS' | Blind Duplicate | | Blind Duplicate | | Blind Duplicate | | Field Blank | | Field Blank | |
|--------------------------------|--------|-----------------|----------------|-----------------|-------------|-----------------|-------------|---------------|--|-------------|--|
| SAMPLE ID | | PWG-GW-2008-04 | PWG.GW.2008.24 | DIFFW-01 | DIFFW-100 | DUP-01 | FB-01 | FB090308 (GW) | | | |
| LAB SAMPLE ID | | L0813196-11 | L0813196-12 | L0814755-07 | L0814755-10 | L0911697-03 | L0812845-10 | L0813196-15 | | | |
| SAMPLING DATE | | 9/3/2008 | 9/3/2008 | 10/6/2008 | 10/6/2008 | 8/20/2009 | 8/26/2008 | 9/3/2008 | | | |
| SAMPLE DEPTH (ft.) | | | | | | | Groundwater | Groundwater | | | |
| Volatile Organics by EPA 8260B | | | | | | | | | | | |
| Tetrachloroethene | 5 | 0.5 U | 0.5 U | 1.3 | 1.3 | 0.5 U | 0.5 U | 0.5 U | | | |
| Trichloroethene | 5 | 0.5 U | 0.5 U | 2.3 | 2.3 | 0.5 U | 0.5 U | 0.5 U | | | |
| cis-1,2-Dichloroethene | 5 | 0.5 U | 0.5 U | 32 | 32 | 0.5 U | 0.5 U | 0.5 U | | | |
| trans-1,2-Dichloroethene | 5 | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | | | |
| 1,1-Dichloroethene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | | | |
| Vinyl chloride | 2 | 1 U | 1 U | 1 U | 1.6 | 1 U | 1 U | 1 U | | | |
| | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | | | |
| 1,1,1-Trichloroethane | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | | | |
| 1,1,2,2-Tetrachloroethane | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | | | |
| 1,1,2-Trichloroethane | 1 | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | | | |
| 1,1-Dichloroethane | 5 | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | | | |
| 1,1-Dichloropropene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | | | |
| 1,2,3-Trichlorobenzene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | | | |
| 1,2,3-Trichloropropane | 0.04 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | | |
| 1,2,4,5-Tetramethylbenzene | 5 | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | | | |
| 1,2,4-Trichlorobenzene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | | | |
| 1,2,4-Trimethylbenzene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | | | |
| 1,2-Dibromo-3-chloropropane | 0.04 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | | | |
| 1,2-Dibromoethane | 0.0006 | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | | | |
| 1,2-Dichlorobenzene | 3 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | | | |
| 1,2-Dichloroethane | 0.6 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | | | |
| 1,2-Dichloropropane | 1 | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | | | |
| 1,3,5-Trimethylbenzene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | | | |
| 1,3-Dichlorobenzene | 3 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | | | |
| 1,3-Dichloropropane | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | | | |
| 1,4-Dichlorobenzene | 3 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | | | |
| 1,4-Diethylbenzene | NS | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | | | |
| 2,2-Dichloropropane | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | | | |
| 2-Butanone | 50* | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | | |
| 2-Hexanone | 50* | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | | |
| 4-Ethyltoluene | NS | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | | | |
| 4-Methyl-2-pentanone | NS | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | | |
| Acetone | 50* | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | | |
| Acrylonitrile | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | | |
| Benzene | 1 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | | | |
| Bromobenzene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | | | |
| Bromochloromethane | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | | | |
| Bromodichloromethane | 50* | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | | | |
| Bromoform | 50* | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | | | |
| Bromomethane | 5 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | | | |
| Carbon disulfide | NS | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | | |
| Carbon tetrachloride | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | | | |
| Chlorobenzene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | | | |
| Chloroethane | 5 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | | | |
| Chloroform | 7 | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | | | |
| Chloromethane | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | | | |
| cis-1,3-Dichloropropene | 0.4 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | | | |
| Dibromochloromethane | 50* | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | | | |
| Dibromomethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | | |
| Dichlorodifluoromethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | | |
| Ethylbenzene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | | | |
| Hexachlorobutadiene | 0.5 | 0.6 U | 0.6 U | 0.6 U | 0.6 U | 0.6 U | 0.6 U | 0.6 U | | | |
| Isopropylbenzene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | | | |
| Methyl tert butyl ether | 10 | 1 U | 1 U | 7.8 | 8 | 1 U | 1 U | 1 U | | | |
| Methylene chloride | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | | |
| Naphthalene | 10* | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 2.5 U | 2.5 U | 0.5 U | | | |
| n-Butylbenzene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | | | |
| n-Propylbenzene | 5 | 2.5 U | 0.5 U | 2.5 U | 2.5 U | 0.5 U | 0.5 U | 2.5 U | | | |
| o-Chlorotoluene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | | | |
| o-Xylene | 5 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | | | |
| p/m-Xylene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 1 U | 1 U | 2.5 U | | | |
| p-Chlorotoluene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 2.5 U | 2.5 U | 0.5 U | | | |
| p-Isopropyltoluene | 5 | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | | | |
| sec-Butylbenzene | 5 | 0.5 U | 0.5 U | 0.5 U | 1 U | 0.5 U | 0.5 U | 0.5 U | | | |
| Styrene | 5 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | | | |
| tert-Butylbenzene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | | | |
| Toluene | 5 | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | | | |
| trans-1,3-Dichloropropene | 0.4 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | | | |
| Trichlorofluoromethane | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | | | |
| Vinyl acetate | NS | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | | |

Notes:

All units are µg/L (ppb)

* Class GA Ambient Water Quality Standard (AWQS), NYSDC Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Ju

* Guidance Value

U - Analyte not detected above the laboratory MDL

J - Estimated value

NS - No standard established

Bold text indicates compounds above the laboratory MDL

Yellow highlighting indicates exceedance of Ambient Water Quality Standard

Green highlighting indicates exceedance of Ambient Water Quality Guidance Value

Table 18
Groundwater QA/QC Sample Data Summary
Volatile Organic Compounds
Former Darby Drugs Distribution Center

| SAMPLE TYPE | AWQS' | Field Blank | | Field Blank | | Field Blank | | Field Blank | | Field Blank | | Field Blank | |
|--------------------------------|--------|-----------------|---|--------------|---|-----------------|---|-----------------|---|-------------|---|-------------|---|
| SAMPLE ID | | FB090308 (SOIL) | | FB090408(GW) | | FB090408 (SOIL) | | FB090508 (SOIL) | | FB090808 | | FB100308-01 | |
| LAB SAMPLE ID | | L0813196-07 | | L0813196-17 | | L0813196-40 | | L0813196-39 | | 9/8/2008 | | L0911697-11 | |
| SAMPLING DATE | | 9/3/2008 | | 9/4/2008 | | 9/4/2008 | | 9/5/2008 | | L0813344-01 | | 10/3/2008 | |
| SAMPLE DEPTH (ft.) | | Soil | | Groundwater | | Soil | | Soil | | Soil | | Groundwater | |
| Volatile Organics by EPA 8260B | | | | | | | | | | | | | |
| Tetrachloroethene | 5 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Trichloroethene | 5 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| cis-1,2-Dichloroethene | 5 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| trans-1,2-Dichloroethene | 5 | 0.75 | U | 0.75 | U | 0.75 | U | 0.75 | U | 0.75 | U | 0.75 | U |
| 1,1-Dichloroethene | 5 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Vinyl chloride | 2 | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U |
| | | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | 5 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,1,1-Trichloroethane | 5 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,1,2,2-Tetrachloroethane | 5 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,1,2-Trichloroethane | 1 | 0.75 | U | 0.75 | U | 0.75 | U | 0.75 | U | 0.75 | U | 0.75 | U |
| 1,1-Dichloroethane | 5 | 0.75 | U | 0.75 | U | 0.75 | U | 0.75 | U | 0.75 | U | 0.75 | U |
| 1,1-Dichloropropene | 5 | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U |
| 1,2,3-Trichlorobenzene | 5 | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U |
| 1,2,3-Trichloropropane | 0.04 | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| 1,2,4,5-Tetramethylbenzene | 5 | 2 | U | 2 | U | 2 | U | 2 | U | 2 | U | 2 | U |
| 1,2,4-Trichlorobenzene | 5 | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U |
| 1,2,4-Trimethylbenzene | 5 | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U |
| 1,2-Dibromo-3-chloropropane | 0.04 | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U |
| 1,2-Dibromoethane | 0.0006 | 2 | U | 2 | U | 2 | U | 2 | U | 2 | U | 2 | U |
| 1,2-Dichlorobenzene | 3 | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U |
| 1,2-Dichloroethane | 0.6 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,2-Dichloropropane | 1 | 1.8 | U | 1.8 | U | 1.8 | U | 1.8 | U | 1.8 | U | 1.8 | U |
| 1,3,5-Trimethylbenzene | 5 | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U |
| 1,3-Dichlorobenzene | 3 | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U |
| 1,3-Dichloropropane | 5 | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U |
| 1,4-Dichlorobenzene | 3 | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U |
| 1,4-Diethylbenzene | NS | 2 | U | 2 | U | 2 | U | 2 | U | 2 | U | 2 | U |
| 2,2-Dichloropropane | 5 | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U |
| 2-Butanone | 50* | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| 2-Hexanone | 50* | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| 4-Ethyltoluene | NS | 2 | U | 2 | U | 2 | U | 2 | U | 2 | U | 2 | U |
| 4-Methyl-2-pentanone | NS | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| Acetone | 50* | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| Acrylonitrile | 5 | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| Benzene | 1 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Bromobenzene | 5 | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U |
| Bromochloromethane | 5 | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U |
| Bromodichloromethane | 50* | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Bromoform | 50* | 2 | U | 2 | U | 2 | U | 2 | U | 2 | U | 2 | U |
| Bromomethane | 5 | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U |
| Carbon disulfide | NS | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| Carbon tetrachloride | 5 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Chlorobenzene | 5 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Chloroethane | 5 | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U |
| Chloroform | 7 | 0.75 | U | 0.75 | U | 0.75 | U | 0.75 | U | 0.75 | U | 0.75 | U |
| Chloromethane | 5 | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U |
| cis-1,3-Dichloropropene | 0.4 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Dibromochloromethane | 50* | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Dibromomethane | 5 | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| Dichlorodifluoromethane | 5 | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| Ethylbenzene | 5 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Hexachlorobutadiene | 0.5 | 0.6 | U | 0.6 | U | 0.6 | U | 0.6 | U | 0.6 | U | 0.6 | U |
| Isopropylbenzene | 5 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Methyl tert butyl ether | 10 | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U |
| Methylene chloride | 5 | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| Naphthalene | 10* | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 2.5 | U |
| n-Butylbenzene | 5 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| n-Propylbenzene | 5 | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U |
| o-Chlorotoluene | 5 | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U |
| o-Xylene | 5 | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U |
| p/m-Xylene | 5 | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U | 1 | U |
| p-Chlorotoluene | 5 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 2.5 | U |
| p-Isopropyltoluene | 5 | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | 0.5 | U |
| sec-Butylbenzene | 5 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Styrene | 5 | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U |
| tert-Butylbenzene | 5 | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U |
| Toluene | 5 | 0.75 | U | 0.75 | U | 0.75 | U | 0.75 | U | 0.75 | U | 0.75 | U |
| trans-1,3-Dichloropropene | 0.4 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Trichlorofluoromethane | 5 | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U |
| Vinyl acetate | NS | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U |

Notes:

All units are µg/L (ppb)

* Class GA Ambient Water Quality Standard (AWQS), NYtre 1998

* Guidance Value

U - Analyte not detected above the laboratory MDL

J - Estimated value

NS - No standard established

Bold text indicates compounds above the laboratory M

Yellow highlighting indicates exceedance of Ambient W

Green highlighting indicates exceedance of Ambient W

Table 19
Groundwater QA/QC Sample Data Summary
Semi-Volatile Organic Compounds
Former Darby Drugs Distribution Center

| SAMPLE TYPE | AWQS | Blind Duplicate | | Field Blank | |
|--|--------|-----------------|-------------|-------------|---|
| SAMPLE ID | | DIFFW-01 | DIFFW-100 | FB100308-01 | |
| LAB SAMPLE ID | | L0814755-07 | L0814755-10 | L0814755-11 | |
| SAMPLING DATE | | 10/6/2008 | 10/6/2008 | 10/3/2008 | |
| SAMPLE DEPTH (ft.) | | | | | |
| Semivolatile Organics by EPA 8270C | | | | | |
| 1,2,4,5-Tetrachlorobenzene | 5 | 19.5 | U | 20 | U |
| 1,2,4-Trichlorobenzene | 5 | 4.8 | U | 5 | U |
| 1,2-Dichlorobenzene | 3 | 4.8 | U | 5 | U |
| 1,3-Dichlorobenzene | 3 | 4.8 | U | 5 | U |
| 1,4-Dichlorobenzene | 3 | 4.8 | U | 5 | U |
| 2,4,5-Trichlorophenol | 1 | 4.8 | U | 5 | U |
| 2,4,6-Trichlorophenol | 1 | 4.8 | U | 5 | U |
| 2,4-Dichlorophenol | 1 | 9.5 | U | 10 | U |
| 2,4-Dimethylphenol | 1 | 9.5 | U | 10 | U |
| 2,4-Dinitrophenol | 1 | 28 | U | 30 | U |
| 2,4-Dinitrotoluene | 5 | 5.7 | U | 6 | U |
| 2,6-Dinitrotoluene | 5 | 4.8 | U | 5 | U |
| 2-Chloronaphthalene | 10* | 5.7 | U | 6 | U |
| 2-Chlorophenol | NS | 5.7 | U | 6 | U |
| 2-Methylnaphthalene | NS | 4.8 | U | 5 | U |
| 2-Methylphenol | NS | 5.7 | U | 6 | U |
| 2-Nitroaniline | 5 | 4.8 | U | 5 | U |
| 2-Nitrophenol | 1 | 19 | U | 20 | U |
| 3,3'-Dichlorobenzidine | 5 | 48 | U | 50 | U |
| 3-Methylphenol/4-Methylphenol | NS | 5.7 | U | 6 | U |
| 3-Nitroaniline | 5 | 4.8 | U | 5 | U |
| 4,6-Dinitro-o-cresol | NS | 19 | U | 20 | U |
| 4-Bromophenyl phenyl ether | NS | 4.8 | U | 5 | U |
| 4-Chloroaniline | 5 | 4.8 | U | 5 | U |
| 4-Chlorophenyl phenyl ether | NS | 4.8 | U | 5 | U |
| 4-Nitroaniline | 5 | 6.7 | U | 7 | U |
| 4-Nitrophenol | 1 | 9.5 | U | 10 | U |
| Acenaphthene | 20* | 4.8 | U | 5 | U |
| Acenaphthylene | NS | 4.8 | U | 5 | U |
| Acetophenone | NS | 19 | U | 20 | U |
| Anthracene | 50* | 4.8 | U | 5 | U |
| Benzo(a)anthracene | 0.002* | 4.8 | U | 5 | U |
| Benzo(a)pyrene | 0.002* | 4.8 | U | 5 | U |
| Benzo(b)fluoranthene | 0.002* | 4.8 | U | 5 | U |
| Benzo(ghi)perylene | NS | 4.8 | U | 5 | U |
| Benzo(k)fluoranthene | 0.002* | 4.8 | U | 5 | U |
| Benzoic Acid | NS | 48 | U | 50 | U |
| Benzyl Alcohol | NS | 9.5 | U | 10 | U |
| Biphenyl | 5 | 4.8 | U | 5 | U |
| Bis(2-chloroethoxy)methane | 5 | 4.8 | U | 5 | U |
| Bis(2-chloroethyl)ether | 1 | 4.8 | U | 5 | U |
| Bis(2-chloroisopropyl)ether | NS | 4.8 | U | 5 | U |
| Bis(2-Ethylhexyl)phthalate | 5 | 4.8 | U | 5 | U |
| Butyl benzyl phthalate | 50* | 4.8 | U | 5 | U |
| Carbazole | NS | 4.8 | U | 5 | U |
| Chrysene | 0.002* | 4.8 | U | 5 | U |
| Dibenzo(a,h)anthracene | NS | 4.8 | U | 5 | U |
| Dibenzofuran | NS | 4.8 | U | 5 | U |
| Diethyl phthalate | 50* | 4.8 | U | 5 | U |
| Dimethyl phthalate | 50* | 4.8 | U | 5 | U |
| Di-n-butylphthalate | 50 | 4.8 | U | 5 | U |
| Di-n-octylphthalate | 50* | 4.8 | U | 5 | U |
| Fluoranthene | 50* | 4.8 | U | 5 | U |
| Fluorene | 50* | 4.8 | U | 5 | U |
| Hexachlorobenzene | 0.04 | 4.8 | U | 5 | U |
| Hexachlorobutadiene | 0.5 | 9.5 | U | 10 | U |
| Hexachlorocyclopentadiene | 5 | 28 | U | 30 | U |
| Hexachloroethane | 5 | 4.8 | U | 5 | U |
| Indeno(1,2,3-cd)Pyrene | 0.002* | 6.7 | U | 7 | U |
| Isophorone | 50* | 4.8 | U | 5 | U |
| Naphthalene | 10* | 4.8 | U | 5 | U |
| Nitrobenzene | 0.4 | 4.8 | U | 5 | U |
| NitrosoDiPhenylAmine(NDPA)/DPA | 50* | 14 | U | 15 | U |
| n-Nitrosodi-n-propylamine | NS | 4.8 | U | 5 | U |
| p-Chloro-M-Cresol | NS | 4.8 | U | 5 | U |
| Pentachlorophenol | 1 | 9.5 | U | 10 | U |
| Phenanthrene | 50* | 4.8 | U | 5 | U |
| Phenol | 1 | 6.7 | U | 7 | U |
| Pyrene | 50* | 4.8 | U | 5 | U |
| Semivolatile Organics by EPA 8270C-SIM | | | | | |
| 2-Chloronaphthalene | 10* | 0.19 | U | 0.2 | U |
| 2-Methylnaphthalene | NS | 0.19 | U | 0.2 | U |
| Acenaphthene | 20* | 0.19 | U | 0.2 | U |
| Acenaphthylene | NS | 0.19 | U | 0.2 | U |
| Anthracene | 50* | 0.19 | U | 0.2 | U |
| Benzo(a)anthracene | 0.002* | 0.19 | U | 0.2 | U |
| Benzo(a)pyrene | 0.002* | 0.19 | U | 0.2 | U |
| Benzo(b)fluoranthene | 0.002* | 0.19 | U | 0.2 | U |
| Benzo(ghi)perylene | NS | 0.19 | U | 0.2 | U |
| Benzo(k)fluoranthene | 0.002* | 0.19 | U | 0.2 | U |
| Chrysene | 0.002* | 0.19 | U | 0.2 | U |
| Dibenzo(a,h)anthracene | NS | 0.19 | U | 0.2 | U |
| Fluoranthene | 50* | 0.19 | U | 0.2 | U |
| Fluorene | 50* | 0.19 | U | 0.2 | U |
| Hexachlorobenzene | 0.04 | 0.76 | U | 0.8 | U |
| Hexachlorobutadiene | 0.5 | 0.48 | U | 0.5 | U |
| Hexachloroethane | 5 | 0.76 | U | 0.8 | U |
| Indeno(1,2,3-cd)Pyrene | 0.002* | 0.19 | U | 0.2 | U |
| Naphthalene | 10* | 0.19 | U | 0.2 | U |
| Pentachlorophenol | 1 | 0.76 | U | 0.8 | U |
| Phenanthrene | 50* | 0.19 | U | 0.2 | U |
| Pyrene | 50* | 0.19 | U | 0.2 | U |

Notes:

All units are µg/L (ppb)

*Class GA Ambient Water Quality Standard (AWQS), NYSDEC Technical and Operational Guidance Series (TOGS) 1

* Guidance Value

U - Analyte not detected above the laboratory MDL

J - Estimated value

NS - No standard established

Bold text indicates compounds above the laboratory MDL

Yellow highlighting indicates exceedance of Ambient Water Quality Standard

Green highlighting indicates exceedance of Ambient Water Quality Guidance Value

Table 20
Groundwater QA/QC Sample Data Summary
Pesticides/PCBs/Metals
Former Darby Drugs Distribution Center

| SAMPLE TYPE | AWQS ¹ | Blind Duplicate | | Blind Duplicate | Field Bank |
|---|-------------------|-----------------|----------------|-----------------|-------------|
| SAMPLE ID | | DIFFW-01 | DIFFW-100 | DUP-02 | FB100308-01 |
| LAB SAMPLE ID | | L0814755-07 | L0814755-10 | L0911697-07 | L0814755-11 |
| SAMPLING DATE | | 10/6/2008 | 10/6/2008 | 8/20/2009 | 10/3/2008 |
| SAMPLE DEPTH (ft.) | | | | | |
| Organochlorine Pesticides by EPA 8081A | | | | | |
| 4,4'-DDD | 0.3 | 0.043 U | 0.045 U | NA | 0.053 U |
| 4,4'-DDE | 0.2 | 0.043 U | 0.045 U | NA | 0.053 U |
| 4,4'-DDT | 0.2 | 0.043 U | 0.045 U | NA | 0.053 U |
| Aldrin | NS | 0.021 U | 0.023 U | NA | 0.026 U |
| Alpha-BHC | 0.01 | 0.043 U | 0.023 U | NA | 0.026 U |
| Beta-BHC | 0.04 | 0.021 U | 0.023 U | NA | 0.026 U |
| Chlordane | 0.05 | 0.021 U | 0.227 U | NA | 0.263 U |
| Delta-BHC | 0.04 | 0.043 U | 0.023 U | NA | 0.026 U |
| Dieldrin | 0.004 | 0.021 U | 0.045 U | NA | 0.053 U |
| Endosulfan I | NS | 0.043 U | 0.023 U | NA | 0.026 U |
| Endosulfan II | NS | 0.021 U | 0.045 U | NA | 0.053 U |
| Endosulfan sulfate | NS | 0.021 U | 0.045 U | NA | 0.053 U |
| Endrin | NS | 0.021 U | 0.045 U | NA | 0.053 U |
| Endrin ketone | 5 | 0.043 U | 0.045 U | NA | 0.053 U |
| Heptachlor | 0.04 | 0.021 U | 0.023 U | NA | 0.026 U |
| Heptachlor epoxide | 0.03 | 0.213 U | 0.023 U | NA | 0.026 U |
| Lindane | 0.05 | 0.043 U | 0.023 U | NA | 0.026 U |
| Methoxychlor | 35 | 0.021 U | 0.227 U | NA | 0.263 U |
| trans-Chlordane | NS | 0.213 U | 0.023 U | NA | 0.026 U |
| Polychlorinated Biphenyls by EPA 8082 | | | | | |
| Aroclor 1016 | 0.09 | 0.1 U | 0.1 U | NA | 0.1 U |
| Aroclor 1221 | 0.09 | 0.1 U | 0.1 U | NA | 0.1 U |
| Aroclor 1232 | 0.09 | 0.1 U | 0.1 U | NA | 0.1 U |
| Aroclor 1242 | 0.09 | 0.1 U | 0.1 U | NA | 0.1 U |
| Aroclor 1248 | 0.09 | 0.1 U | 0.1 U | NA | 0.1 U |
| Aroclor 1254 | 0.09 | 0.1 U | 0.1 U | NA | 0.1 U |
| Aroclor 1260 | 0.09 | 0.1 U | 0.1 U | NA | 0.1 U |
| Total Metals | | | | | |
| Aluminum | NS | 2,100 | 1,800 | 0.10 U | 100 U |
| Antimony | 3 | 50 U | 50 U | 0.050 U | 50 U |
| Arsenic | 25 | 100 U | 100 U | 0.005 U | 5 U |
| Barium | 1000 | 62 | 60 | 0.013 | 10 U |
| Beryllium | 3* | 5 U | 5 U | 0.005 U | 5 U |
| Cadmium | 5 | 9 | 7 | 0.005 U | 5 U |
| Calcium | NS | 20,000 | 20,000 | 11 | 100 U |
| Chromium | 50 | 40 | 30 | 0.01 U | 10 U |
| Cobalt | NS | 34 | 30 | 0.020 U | 20 U |
| Copper | 200 | 726 | 622 | 0.010 U | 10 U |
| Iron | 300 | 340,000 | 300,000 | 0.05 U | 50 U |
| Lead | 25 | 12 | 11 | 0.010 U | 10 U |
| Magnesium | 35000* | 15,000 | 15,000 | 5.0 | 100 U |
| Manganese | 300 | 4,740 | 4,370 | 0.057 | 10 U |
| Mercury | 0.7 | 0.2 | 0.2 U | 0.0002 U | 0.2 U |
| Nickel | 100 | 25 U | 25 U | 0.025 U | 25 U |
| Potassium | NS | 4,200 | 4,100 | 3.4 | 2,500 U |
| Selenium | 10 | 10 U | 10 U | 0.01 U | 10 U |
| Silver | 50 | 7 U | 7 U | 0.007 U | 7 U |
| Sodium | 20000 | 25,000 | 25,000 | 21 | 2,000 U |
| Thallium | 0.5* | 20 U | 20 U | 0.020 U | 20 U |
| Vanadium | NS | 10 U | 10 U | 0.010 U | 10 U |
| Zinc | 2000* | 670 | 589 | 0.050 U | 50 U |

Notes:

All units are µg/L (ppb)

¹Class GA Ambient Water Quality Standard (AWQS), NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, June 1998

* Guidance Value

U - Analyte not detected above the laboratory MDL

J - Estimated value

NS - No standard established

NA - Not analyzed

Bold text indicates compounds above the laboratory MDL

Yellow highlighting indicates exceedance of Ambient Water Quality Standard

Green highlighting indicates exceedance of Ambient Water Quality Guidance Value

Table 21
Soil QA/QC Sample Data Summary
Volatile Organic Compounds
Former Darby Drugs Distribution Center

| SAMPLE TYPE | Unrestricted SCO ¹ | Restricted Residential SCO ² | Blind Duplicate | | Blind Duplicate | | Blind Duplicate | | Blind Duplicate | |
|---------------------------------------|----------------------------------|---|-----------------|----------------|-----------------|----------------|-----------------|-----------------|-----------------|-----------------|
| SAMPLE ID | | | PWG-SB-2008-01 | PWG-SB-2008-21 | PWG-SB-2008-12 | PWG-SB-2008-22 | PWG-DW-2008-15 | PWG-DW-2008-100 | PWG-DW-2008-34 | PWG-DW-2008-101 |
| LAB SAMPLE ID | | | L0813196-20 | L0813196-21 | L0813196-36 | L0813196-37 | L0813344-18 | L0813344-19 | L0813447-08 | L0813447-10 |
| SAMPLING DATE | | | 9/4/2008 | 9/4/2008 | 9/5/2008 | 9/5/2008 | 9/8/2008 | 9/8/2008 | 9/10/2008 | 9/10/2008 |
| SAMPLE DEPTH (ft.) | | | 5-10 | 5-10 | 5-10 | 5-10 | 7-7.5 | 7-7.5 | 5.5-6 | 5.5-6 |
| Volatile Organics by EPA 8260B | | | | | | | | | | |
| Tetrachloroethene | 1,300 | 19,000 | 3.1 U | 2.6 U | 2.8 U | 2.7 U | 120 | 110 | 3.8 U | 3.9 U |
| Trichloroethene | 470 | 21,000 | 3.1 U | 2.6 U | 2.8 U | 2.7 U | 11 | 3 U | 3.8 U | 3.9 U |
| cis-1,2-Dichloroethene | 250 | 100,000 | 3.1 U | 2.6 U | 2.8 U | 2.7 U | 28 | 3 U | 3.8 U | 3.9 U |
| trans-1,2-Dichloroethene | 190 | 100,000 | 4.6 U | 3.9 U | 4.3 U | 4 U | 4.5 U | 4.5 U | 5.7 U | 5.8 U |
| 1,1-Dichloroethene | 330 | 100,000 | 3.1 U | 2.6 U | 2.8 U | 2.7 U | 3 U | 3 U | 3.8 U | 3.9 U |
| Vinyl chloride | 20 | 900 | 6.2 U | 5.2 U | 5.7 U | 5.4 U | 26 | 6 U | 7.6 U | 7.8 U |
| 1,1,1,2-Tetrachloroethane | NS | NS | 3.1 U | 2.6 U | 2.8 U | 2.7 U | 3 U | 3 U | 3.8 U | 3.9 U |
| 1,1,1-Trichloroethane | 680 | 100,000 | 3.1 U | 2.6 U | 2.8 U | 2.7 U | 3 U | 3 U | 3.8 U | 3.9 U |
| 1,1,2,2-Tetrachloroethane | NS | NS | 3.1 U | 2.6 U | 2.8 U | 2.7 U | 3 U | 3 U | 3.8 U | 3.9 U |
| 1,1,2-Trichloroethane | NS | NS | 4.6 U | 3.9 U | 4.3 U | 4 U | 4.5 U | 4.5 U | 5.7 U | 5.8 U |
| 1,1-Dichloroethane | 270 | 26,000 | 4.6 U | 3.9 U | 4.3 U | 4 U | 4.5 U | 4.5 U | 5.7 U | 5.8 U |
| 1,1-Dichloropropene | NS | NS | 15 U | 13 U | 14 U | 13 U | 15 U | 15 U | 19 U | 20 U |
| 1,2,3-Trichlorobenzene | NS | NS | 15 U | 13 U | 14 U | 13 U | 15 U | 15 U | 19 U | 20 U |
| 1,2,3-Trichloropropane | NS | NS | 31 U | 26 U | 28 U | 27 U | 30 U | 30 U | 38 U | 39 U |
| 1,2,4,5-Tetramethylbenzene | NS | NS | 12 U | 10 U | 11 U | 11 U | 12 U | 12 U | 15 U | 31 |
| 1,2,4-Trichlorobenzene | NS | NS | 15 U | 13 U | 14 U | 13 U | 15 U | 15 U | 19 U | 20 U |
| 1,2,4-Trimethylbenzene | 3,600 | 52,000 | 15 U | 13 U | 14 U | 13 U | 15 U | 15 U | 19 U | 20 U |
| 1,2-Dibromo-3-chloropropane | NS | NS | 15 U | 13 U | 14 U | 13 U | 15 U | 15 U | 19 U | 20 U |
| 1,2-Dibromoethane | NS | NS | 12 U | 10 U | 11 U | 11 U | 12 U | 12 U | 15 U | 16 U |
| 1,2-Dichlorobenzene | 1,100 | 100,000 | 15 U | 13 U | 14 U | 13 U | 15 U | 15 U | 19 U | 20 U |
| 1,2-Dichloroethane | 20 | 3,100 | 3.1 U | 2.6 U | 2.8 U | 2.7 U | 3 U | 3 U | 3.8 U | 3.9 U |
| 1,2-Dichloropropane | NS | NS | 11 U | 9.1 U | 9.9 U | 9.4 U | 10 U | 10 U | 13 U | 14 U |
| 1,3,5-Trimethylbenzene | 8,400 | 52,000 | 15 U | 13 U | 14 U | 13 U | 15 U | 15 U | 19 U | 20 U |
| 1,3-Dichlorobenzene | 2,400 | 49,000 | 15 U | 13 U | 14 U | 13 U | 15 U | 15 U | 19 U | 20 U |
| 1,3-Dichloropropane | NS | NS | 15 U | 13 U | 14 U | 13 U | 15 U | 15 U | 19 U | 20 U |
| 1,4-Dichlorobenzene | 1,800 | 13,000 | 15 U | 13 U | 14 U | 13 U | 15 U | 15 U | 19 U | 20 U |
| 1,4-Diethylbenzene | NS | NS | 12 U | 10 U | 11 U | 11 U | 12 U | 12 U | 15 U | 16 U |
| 2,2-Dichloropropane | NS | NS | 15 U | 13 U | 14 U | 13 U | 15 U | 15 U | 19 U | 20 U |
| 2-Butanone | 120 | 100,000 | 31 U | 26 U | 28 U | 27 U | 30 U | 30 U | 38 U | 59 |
| 2-Hexanone | NS | NS | 31 U | 26 U | 28 U | 27 U | 30 U | 30 U | 38 U | 39 U |
| 4-Ethyltoluene | NS | NS | 12 U | 10 U | 11 U | 11 U | 12 U | 12 U | 15 U | 16 U |
| 4-Methyl-2-pentanone | NS | NS | 31 U | 26 U | 28 U | 27 U | 30 U | 30 U | 38 U | 39 U |
| Acetone | 50 | 100,000 | 31 U | 26 U | 28 U | 27 U | 30 U | 30 U | 48 | 190 |
| Acrylonitrile | NS | NS | 31 U | 26 U | 28 U | 27 U | 30 U | 30 U | 38 U | 39 U |
| Benzene | 60 | 4,800 | 3.1 U | 2.6 U | 2.8 U | 2.7 U | 3 U | 3 U | 3.8 U | 3.9 U |
| Bromobenzene | NS | NS | 15 U | 13 U | 14 U | 13 U | 15 U | 15 U | 19 U | 20 U |
| Bromochloromethane | NS | NS | 15 U | 13 U | 14 U | 13 U | 15 U | 15 U | 19 U | 20 U |
| Bromodichloromethane | NS | NS | 3.1 U | 2.6 U | 2.8 U | 2.7 U | 3 U | 3 U | 3.8 U | 3.9 U |
| Bromoform | NS | NS | 12 U | 10 U | 11 U | 11 U | 12 U | 12 U | 15 U | 16 U |
| Bromomethane | NS | NS | 6.2 U | 5.2 U | 5.7 U | 5.4 U | 6 U | 6 U | 7.6 U | 7.8 U |
| Carbon disulfide | NS | NS | 31 U | 26 U | 28 U | 27 U | 30 U | 30 U | 38 U | 39 U |
| Carbon tetrachloride | 760 | 2,400 | 3.1 U | 2.6 U | 2.8 U | 2.7 U | 3 U | 3 U | 3.8 U | 3.9 U |
| Chlorobenzene | 1,100 | 100,000 | 3.1 U | 2.6 U | 2.8 U | 2.7 U | 3 U | 3 U | 3.8 U | 3.9 U |
| Chloroethane | NS | NS | 6.2 U | 5.2 U | 5.7 U | 5.4 U | 6 U | 6 U | 7.6 U | 7.8 U |
| Chloroform | 370 | 49,000 | 4.6 U | 3.9 U | 4.3 U | 4 U | 4.5 U | 4.5 U | 5.7 U | 5.8 U |
| Chloromethane | NS | NS | 15 U | 13 U | 14 U | 13 U | 15 U | 15 U | 19 U | 20 U |
| cis-1,3-Dichloropropene | NS | NS | 3.1 U | 2.6 U | 2.8 U | 2.7 U | 3 U | 3 U | 3.8 U | 3.9 U |
| Dibromochloromethane | NS | NS | 3.1 U | 2.6 U | 2.8 U | 2.7 U | 3 U | 3 U | 3.8 U | 3.9 U |
| Dibromomethane | NS | NS | 31 U | 26 U | 28 U | 27 U | 30 U | 30 U | 38 U | 39 U |
| Dichlorodifluoromethane | NS | NS | 31 U | 26 U | 28 U | 27 U | 30 U | 30 U | 38 U | 39 U |
| Ethylbenzene | 1,000 | 41,000 | 3.1 U | 2.6 U | 2.8 U | 2.7 U | 3 U | 3 U | 3.8 U | 3.9 U |
| Hexachlorobutadiene | NS | NS | 15 U | 13 U | 14 U | 13 U | 15 U | 15 U | 19 U | 20 U |
| Isopropylbenzene | NS | NS | 3.1 U | 2.6 U | 2.8 U | 2.7 U | 3 U | 3 U | 3.8 U | 28 |
| Methyl tert butyl ether | 930 | 100,000 | 6.2 U | 5.2 U | 5.7 U | 5.4 U | 6 U | 6 U | 7.6 U | 7.8 U |
| Methylene chloride | 50 | 100,000 | 31 U | 26 U | 28 U | 27 U | 30 U | 30 U | 38 U | 39 U |
| Naphthalene | NS | NS | 3.1 U | 2.6 U | 2.8 U | 2.7 U | 3 U | 3 U | 3.8 U | 13 |
| n-Butylbenzene | 12,000 | NS | 3.1 U | 2.6 U | 2.8 U | 2.7 U | 3 U | 3 U | 3.8 U | 16 |
| n-Propylbenzene | 3,900 | 100,000 | 15 U | 13 U | 14 U | 13 U | 15 U | 15 U | 19 U | 20 U |
| o-Chlorotoluene | NS | NS | 15 U | 13 U | 14 U | 13 U | 15 U | 15 U | 19 U | 20 U |
| o-Xylene | 260 | 100,000 | 6.2 U | 5.2 U | 5.7 U | 5.4 U | 6 U | 6 U | 7.6 U | 7.8 U |
| p/m-Xylene | 260 | 100,000 | 15 U | 13 U | 14 U | 13 U | 15 U | 15 U | 19 U | 20 U |
| p-Chlorotoluene | NS | NS | 3.1 U | 2.6 U | 2.8 U | 2.7 U | 3 U | 3 U | 3.8 U | 3.9 U |
| p-Isopropyltoluene | NS | NS | 6.2 U | 5.2 U | 5.7 U | 5.4 U | 6 U | 6 U | 7.6 U | 7.8 U |
| sec-Butylbenzene | 11,000 | 100,000 | 3.1 U | 2.6 U | 2.8 U | 2.7 U | 3 U | 3 U | 3.8 U | 16 |
| Styrene | NS | NS | 6.2 U | 5.2 U | 5.7 U | 5.4 U | 6 U | 6 U | 7.6 U | 7.8 U |
| tert-Butylbenzene | 5,900 | NS | 15 U | 13 U | 14 U | 13 U | 15 U | 15 U | 19 U | 20 U |
| Toluene | 700 | 100,000 | 4.6 U | 3.9 U | 4.3 U | 4 U | 4.5 U | 4.5 U | 5.7 U | 5.8 U |
| trans-1,3-Dichloropropene | NS | 100,000 | 3.1 U | 2.6 U | 2.8 U | 2.7 U | 3 U | 3 U | 3.8 U | 3.9 U |
| Trichlorofluoromethane | NS | NS | 15 U | 13 U | 14 U | 13 U | 15 U | 15 U | 19 U | 20 U |
| Vinyl acetate | NS | NS | 31 U | 26 U | 28 U | 27 U | 30 U | 30 U | 38 U | 39 U |

Notes:

All concentrations are µg/kg (ppb)

¹Unrestricted Use Soil Cleanup Objectives (SCO) 6 NYCRR Part 375, Environmental Remediation Programs, December 2001

²Restricted-Residential Soil Cleanup Objectives (SCO) 6 NYCRR Part 375, Environmental Remediation Programs, December 2001

U - Analyte not detected above the laboratory MDL

J - Estimated value

NS - No standard established

Bold text indicates compounds above the laboratory MDL

Green highlighting indicates exceedance of Unrestricted Use SCO

Yellow highlighting indicates exceedance of Restricted Residential SCO

Table 22
Soil QA/QC Sample Data Summary
Semi-Volatile Organic Compounds
Former Darby Drugs Distribution Center

| SAMPLE TYPE | Unrestricted SCO* | Restricted Residential SCO* | Blind Duplicate | | Blind Duplicate | | Blind Duplicate | |
|--|----------------------|-----------------------------------|-----------------|----------------|-----------------|-----------------|-----------------|-----------------|
| LAB SAMPLE ID | | | PWG-SB-2008-01 | PWG-SB-2008-21 | PWG-DW-2008-15 | PWG-DW-2008-100 | PWG-DW-2008-34 | PWG-DW-2008-101 |
| SAMPLING DATE | | | L0813196-20 | 9/4/2008 | L0813344-18 | L0813344-19 | L0813447-08 | L0813447-10 |
| SAMPLE DEPTH (ft.) | | | 5-10 | 5-10 | 9/8/2008 | 7-7.5 | 9/10/2008 | 9/10/2008 |
| | | | | | | | 5.5-6 | 5.5-6 |
| Semivolatile Organics by EPA 8270C | | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | NS | NS | 1600 U | 1400 U | 1,600 U | 1,600 U | 30,000 U | 31,000 U |
| 1,2,4-Trichlorobenzene | NS | NS | 410 U | 350 U | 400 U | 400 U | 7,600 U | 7,800 U |
| 1,2-Dichlorobenzene | NS | NS | 410 U | 350 U | 400 U | 400 U | 7,600 U | 7,800 U |
| 1,3-Dichlorobenzene | NS | NS | 410 U | 350 U | 400 U | 400 U | 7,600 U | 7,800 U |
| 1,4-Dichlorobenzene | NS | NS | 410 U | 350 U | 400 U | 400 U | 7,600 U | 7,800 U |
| 2,4,5-Trichlorophenol | NS | NS | 410 U | 350 U | 400 U | 400 U | 7,600 U | 7,800 U |
| 2,4,6-Trichlorophenol | NS | NS | 410 U | 350 U | 400 U | 400 U | 7,600 U | 7,800 U |
| 2,4-Dichlorophenol | NS | NS | 820 U | 690 U | 790 U | 800 U | 15,000 U | 16,000 U |
| 2,4-Dimethylphenol | NS | NS | 410 U | 350 U | 400 U | 400 U | 7,600 U | 7,800 U |
| 2,4-Dinitrophenol | NS | NS | 1600 U | 1400 U | 1,600 U | 1,600 U | 30,000 U | 31,000 U |
| 2,4-Dinitrotoluene | NS | NS | 410 U | 350 U | 400 U | 400 U | 7,600 U | 7,800 U |
| 2,6-Dinitrotoluene | NS | NS | 410 U | 350 U | 400 U | 400 U | 7,600 U | 7,800 U |
| 2-Chloronaphthalene | NS | NS | 490 U | 420 U | 480 U | 480 U | 9,100 U | 9,400 U |
| 2-Chlorophenol | NS | NS | 490 U | 420 U | 480 U | 480 U | 9,100 U | 9,400 U |
| 2-Methylnaphthalene | NS | NS | 410 U | 350 U | 400 U | 400 U | 7,600 U | 8,600 |
| 2-Methylphenol | NS | NS | 490 U | 420 U | 480 U | 480 U | 9,100 U | 9,400 U |
| 2-Nitroaniline | NS | NS | 410 U | 350 U | 400 U | 400 U | 7,600 U | 7,800 U |
| 2-Nitrophenol | NS | NS | 1600 U | 1400 U | 1,600 U | 1,600 U | 30,000 U | 31,000 U |
| 3,3'-Dichlorobenzidine | NS | NS | 820 U | 690 U | 790 U | 800 U | 15,000 U | 16,000 U |
| 3-Methylphenol/4-Methylphenol | NS | NS | 490 U | 420 U | 480 U | 480 U | 9,100 U | 9,400 U |
| 3-Nitroaniline | NS | NS | 410 U | 350 U | 400 U | 400 U | 7,600 U | 7,800 U |
| 4,6-Dinitro-o-cresol | NS | NS | 1600 U | 1400 U | 1,600 U | 1,600 U | 30,000 U | 31,000 U |
| 4-Bromophenyl phenyl ether | NS | NS | 410 U | 350 U | 400 U | 400 U | 7,600 U | 7,800 U |
| 4-Chloroaniline | NS | NS | 410 U | 350 U | 400 U | 400 U | 7,600 U | 7,800 U |
| 4-Chlorophenyl phenyl ether | NS | NS | 410 U | 350 U | 400 U | 400 U | 7,600 U | 7,800 U |
| 4-Nitroaniline | NS | NS | 580 U | 490 U | 560 U | 560 U | 11,000 U | 11,000 U |
| 4-Nitrophenol | NS | NS | 820 U | 690 U | 790 U | 800 U | 15,000 U | 16,000 U |
| Acenaphthene | 20000 | 100000 | 410 U | 350 U | 400 U | 400 U | 7,600 U | 7,800 U |
| Acenaphthylene | 100000 | 100000 | 410 U | 350 U | 400 U | 400 U | 7,600 U | 7,800 U |
| Acetophenone | NS | NS | 1600 U | 1400 U | 1,600 U | 1,600 U | 30,000 U | 31,000 U |
| Anthracene | 100000 | 100000 | 410 U | 350 U | 400 U | 400 U | 7,600 U | 7,800 U |
| Benzo(a)anthracene | 1000 | 1000 | 410 U | 350 U | 400 U | 400 U | 7,600 U | 7,800 U |
| Benzo(a)pyrene | 1000 | 1000 | 410 U | 350 U | 400 U | 400 U | 7,600 U | 7,800 U |
| Benzo(b)fluoranthene | 1000 | 1000 | 410 U | 350 U | 400 U | 400 U | 7,600 U | 7,800 U |
| Benzo(ghi)perylene | 100000 | 100000 | 410 U | 350 U | 400 U | 400 U | 7,600 U | 7,800 U |
| Benzo(k)fluoranthene | 800 | 3900 | 410 U | 350 U | 400 U | 400 U | 7,600 U | 7,800 U |
| Benzoic Acid | NS | NS | 4100 U | 3500 U | 4,000 U | 4,000 U | 76,000 U | 78,000 U |
| Benzyl Alcohol | NS | NS | 820 U | 690 U | 790 U | 800 U | 15,000 U | 16,000 U |
| Biphenyl | NS | NS | 410 U | 350 U | 400 U | 400 U | 7,600 U | 7,800 U |
| Bis(2-chloroethoxy)methane | NS | NS | 410 U | 350 U | 400 U | 400 U | 7,600 U | 7,800 U |
| Bis(2-chloroethoxy)ether | NS | NS | 410 U | 350 U | 400 U | 400 U | 7,600 U | 7,800 U |
| Bis(2-chloroisopropoxy)ether | NS | NS | 410 U | 350 U | 400 U | 400 U | 7,600 U | 7,800 U |
| Bis(2-Ethylhexyloxy)phthalate | NS | NS | 820 U | 690 U | 790 U | 800 U | 15,000 U | 16,000 U |
| Butyl benzyl phthalate | NS | NS | 410 U | 350 U | 400 U | 400 U | 7,600 U | 7,800 U |
| Carbazole | NS | NS | 410 U | 350 U | 400 U | 400 U | 7,600 U | 7,800 U |
| Chrysene | 1000 | 3900 | 410 U | 350 U | 400 U | 400 U | 7,600 U | 7,800 U |
| Di-n-butylphthalate | NS | NS | 410 U | 350 U | 400 U | 400 U | 7,600 U | 7,800 U |
| Di-n-octylphthalate | NS | NS | 410 U | 350 U | 400 U | 400 U | 7,600 U | 7,800 U |
| Dibenzo(a,h)anthracene | 330 | 330 | 410 U | 350 U | 400 U | 400 U | 7,600 U | 7,800 U |
| Dibenzofuran | NS | NS | 410 U | 350 U | 400 U | 400 U | 7,600 U | 7,800 U |
| Diethyl phthalate | NS | NS | 410 U | 350 U | 400 U | 400 U | 7,600 U | 7,800 U |
| Dimethyl phthalate | NS | NS | 410 U | 350 U | 400 U | 400 U | 7,600 U | 7,800 U |
| Fluoranthene | 100000 | 100000 | 410 U | 350 U | 400 U | 400 U | 7,600 U | 7,800 U |
| Fluorene | 30000 | 100000 | 410 U | 350 U | 400 U | 400 U | 7,600 U | 7,800 U |
| Hexachlorobenzene | NS | NS | 410 U | 350 U | 400 U | 400 U | 7,600 U | 7,800 U |
| Hexachlorobutadiene | NS | NS | 820 U | 690 U | 790 U | 800 U | 15,000 U | 16,000 U |
| Hexachlorocyclopentadiene | NS | NS | 820 U | 690 U | 790 U | 800 U | 15,000 U | 16,000 U |
| Hexachloroethane | NS | NS | 410 U | 350 U | 400 U | 400 U | 7,600 U | 7,800 U |
| Indeno(1,2,3-cd)Pyrene | 500 | 500 | 410 U | 350 U | 400 U | 400 U | 7,600 U | 7,800 U |
| Isophorone | NS | NS | 410 U | 350 U | 400 U | 400 U | 7,600 U | 7,800 U |
| n-Nitrosodi-n-propylamine | NS | NS | 410 U | 350 U | 400 U | 400 U | 7,600 U | 7,800 U |
| Naphthalene | 12000 | 100000 | 410 U | 350 U | 400 U | 400 U | 7,600 U | 7,800 U |
| Nitrobenzene | NS | NS | 410 U | 350 U | 400 U | 400 U | 7,600 U | 7,800 U |
| NitrosodiPhenylAmine (NDPA)/DPA | NS | NS | 1200 U | 1000 U | 1,200 U | 1,200 U | 23,000 U | 23,000 U |
| p-Chloro-M-Cresol | NS | NS | 410 U | 350 U | 400 U | 400 U | 7,600 U | 7,800 U |
| Pentachlorophenol | 800 | 6700 | 1600 U | 1400 U | 1,600 U | 1,600 U | 30,000 U | 31,000 U |
| Phenanthrene | 100000 | 100000 | 410 U | 350 U | 400 U | 400 U | 7,600 U | 7,800 U |
| Phenol | 330 | 100000 | 580 U | 490 U | 560 U | 560 U | 11,000 U | 11,000 U |
| Pyrene | 100000 | 100000 | 410 U | 350 U | 400 U | 400 U | 7,600 U | 7,800 U |
| Semivolatile Organics by EPA 8270C-SM | | | | | | | | |
| 2-Chloronaphthalene | NS | NS | 16 U | 14 U | 79 U | 80 U | 2,000 U | 2,100 U |
| 2-Methylnaphthalene | NS | NS | 16 U | 14 U | 79 U | 80 U | 11,000 | 13,000 |
| Acenaphthene | 20000 | 100000 | 16 U | 14 U | 79 U | 80 U | 2,000 U | 2,100 U |
| Acenaphthylene | 100000 | 100000 | 16 U | 14 U | 79 U | 80 U | 2,000 U | 2,100 U |
| Anthracene | 100000 | 100000 | 16 U | 14 U | 79 U | 80 U | 2,000 U | 2,100 U |
| Benzo(a)anthracene | 1000 | 1000 | 48 | 40 | 79 U | 80 U | 2,000 U | 2,100 U |
| Benzo(a)pyrene | 1000 | 1000 | 64 | 53 | 79 U | 80 U | 2,000 U | 2,100 U |
| Benzo(b)fluoranthene | 1000 | 1000 | 58 | 50 | 79 U | 80 U | 2,000 U | 2,100 U |
| Benzo(ghi)perylene | 100000 | 100000 | 51 | 43 | 79 U | 80 U | 2,000 U | 2,100 U |
| Benzo(k)fluoranthene | 800 | 3900 | 58 | 48 | 79 U | 80 U | 2,000 U | 2,100 U |
| Chrysene | 1000 | 3900 | 55 | 45 | 79 U | 80 U | 2,000 U | 2,100 U |
| Dibenzo(a,h)anthracene | 3300 | 330 | 16 U | 14 U | 79 U | 80 U | 2,000 U | 2,100 U |
| Fluoranthene | 100000 | 100000 | 120 | 99 | 79 U | 150 | 2,000 U | 2,100 U |
| Fluorene | 30000 | 100000 | 16 U | 14 U | 79 U | 80 U | 2,000 U | 2,100 U |
| Hexachlorobenzene | NS | NS | 66 U | 56 U | 320 U | 320 U | 8,100 U | 8,300 U |
| Hexachlorobutadiene | NS | NS | 41 U | 35 U | 200 U | 200 U | 5,000 U | 5,200 U |
| Hexachloroethane | NS | NS | 66 U | 56 U | 320 U | 320 U | 8,100 U | 8,300 U |
| Indeno(1,2,3-cd)Pyrene | 500 | 500 | 52 | 44 | 79 U | 80 U | 2,000 U | 2,100 U |
| Naphthalene | 12000 | 100000 | 16 U | 14 U | 79 U | 80 U | 2,000 U | 2,100 U |
| Pentachlorophenol | 800 | 6700 | 66 U | 56 U | 320 U | 320 U | 8,100 U | 8,300 U |
| Phenanthrene | 100000 | 100000 | 47 | 56 | 79 U | 80 U | 2,000 | 2,100 U |
| Pyrene | 100000 | 100000 | 120 | 93 | 79 U | 160 | 2,000 U | 2,100 U |

Notes:

All concentrations are µg/kg (ppb)

*Unrestricted Use Soil Cleanup Objectives (SCO) 6 NYCRR Part 375, Environmental Remediation Programs, December 2006

*Restricted-Residential Soil Cleanup Objectives (SCO) 6 NYCRR Part 375, Environmental Remediation Programs, December 2006

U - Analyte not detected above the laboratory MDL

J - Estimated value

NS - No standard established

Bold text indicates compounds above the laboratory MDL

Green highlighting indicates exceedance of Unrestricted Use SCO

Yellow highlighting indicates exceedance of Restricted Residential SCO

Table 23
Soil QA/QC Sample Data Summary
Pesticides/PCBs/Metals
Former Darby Drugs Distribution Center

| SAMPLE TYPE SAMPLE ID LAB SAMPLE ID SAMPLING DATE SAMPLE DEPTH (ft.) | Unrestricted SCO¹ | Restricted Residential SCO² | Blind Duplicate | | Blind Duplicate | | Blind Duplicate | | | | | | | |
|--|----------------------|-----------------------------------|---------------------------------|---------------------------------|----------------------------------|----------------------------------|-----------------------------------|-----------------------------------|-------|--------|------|--------|------|---|
| | | | PWG-SB-2008-01 | PWG-SB-2008-21 | PWG-DW-2008-15 | PWG-DW-2008-100 | PWG-DW-2008-34 | PWG-DW-2008-101 | | | | | | |
| | | | L0813196-20 9/4/2008 5-10 | 9/4/2008 L0813196-21 5-10 | L0813344-18 9/8/2008 7-7.5 | L0813344-19 9/8/2008 7-7.5 | L0813447-08 9/10/2008 5.5-6 | L0813447-10 9/10/2008 5.5-6 | | | | | | |
| Organochlorine Pesticides by EPA 8081A | | | | | | | | | | | | | | |
| 4,4'-DDD | 3.3 | 13000 | 4.12 | U | 3.47 | U | NA | NA | NA | | | | | |
| 4,4'-DDE | 3.3 | 8900 | 4.12 | U | 3.47 | U | NA | NA | NA | | | | | |
| 4,4'-DDT | 3.3 | 7900 | 4.73 | | 3.47 | U | NA | NA | NA | | | | | |
| Aldrin | 5 | 97 | 4.12 | U | 3.47 | U | NA | NA | NA | | | | | |
| Alpha-BHC | 20 | 480 | 4.12 | U | 3.47 | U | NA | NA | NA | | | | | |
| Beta-BHC | 36 | 360 | 4.12 | U | 3.47 | U | NA | NA | NA | | | | | |
| Chlordane | 94 | 4200 | 41.2 | U | 34.7 | U | NA | NA | NA | | | | | |
| Delta-BHC | 40 | 100000 | 4.12 | U | 3.47 | U | NA | NA | NA | | | | | |
| Dieldrin | 5 | 200 | 4.12 | U | 3.47 | U | NA | NA | NA | | | | | |
| Endosulfan I | 2400 | 24000 | 4.12 | U | 3.47 | U | NA | NA | NA | | | | | |
| Endosulfan II | 2400 | 24000 | 4.12 | U | 3.47 | U | NA | NA | NA | | | | | |
| Endosulfan sulfate | 2400 | 24000 | 4.12 | U | 3.47 | U | NA | NA | NA | | | | | |
| Endrin | 14 | 11000 | 4.12 | U | 3.47 | U | NA | NA | NA | | | | | |
| Endrin ketone | NS | NS | 4.12 | U | 3.47 | U | NA | NA | NA | | | | | |
| Heptachlor | 42 | 2100 | 4.12 | U | 3.47 | U | NA | NA | NA | | | | | |
| Heptachlor epoxide | NS | NS | 4.12 | U | 3.47 | U | NA | NA | NA | | | | | |
| Lindane | 100 | 1300 | 4.12 | U | 3.47 | U | NA | NA | NA | | | | | |
| Methoxychlor | NS | NS | 16.5 | U | 13.9 | U | NA | NA | NA | | | | | |
| trans-Chlordane | NS | NS | 4.12 | U | 3.47 | U | NA | NA | NA | | | | | |
| Polychlorinated Biphenyls by EPA 8082 | | | | | | | | | | | | | | |
| Aroclor 1016 | 100 | 1000 | 41.2 | U | 34.7 | U | NA | NA | NA | | | | | |
| Aroclor 1221 | 100 | 1000 | 41.2 | U | 34.7 | U | NA | NA | NA | | | | | |
| Aroclor 1232 | 100 | 1000 | 41.2 | U | 34.7 | U | NA | NA | NA | | | | | |
| Aroclor 1242 | 100 | 1000 | 41.2 | U | 34.7 | U | NA | NA | NA | | | | | |
| Aroclor 1248 | 100 | 1000 | 41.2 | U | 34.7 | U | NA | NA | NA | | | | | |
| Aroclor 1254 | 100 | 1000 | 41.2 | U | 34.7 | U | NA | NA | NA | | | | | |
| Aroclor 1260 | 100 | 1000 | 41.2 | U | 34.7 | U | NA | NA | NA | | | | | |
| Total Metals | | | | | | | | | | | | | | |
| Aluminum | NS | NS | 4700 | | 2900 | | 1,700 | 2,100 | 4,200 | 3,900 | | | | |
| Antimony | NS | NS | 2.9 | U | 2.5 | U | 2.8 | 2.8 | U | 3.7 | U | 3.8 | U | |
| Arsenic | 13 | 16 | 2.2 | | 1.2 | | 1.3 | 1.4 | | 1.3 | | 1.1 | | |
| Barium | 350 | 400 | 40 | | 20 | | 16 | 15 | | 41 | | 33 | | |
| Beryllium | 7.2 | 72 | 0.29 | U | 0.25 | U | 0.28 | U | 0.28 | U | 0.37 | U | 0.38 | U |
| Cadmium | 2.5 | 4.3 | 0.58 | U | 0.5 | U | 0.57 | U | 0.56 | U | 1.8 | | 1.6 | |
| Calcium | NS | NS | 1000 | | 500 | | 6,600 | 6,400 | | 14,000 | | 11,000 | | |
| Chromium | 30 | 180 | 6.4 | | 4.9 | | 5.2 | 4.5 | | 39 | | 28 | | |
| Cobalt | NS | NS | 2.8 | | 2.4 | | 1.1 | U | 1.2 | | 3 | | 2.6 | |
| Copper | 50 | 270 | 9.4 | | 5.6 | | 4.7 | | 5.6 | | 35 | | 41 | |
| Iron | NS | NS | 7500 | | 6400 | | 4,600 | 4,600 | | 7,900 | | 6,100 | | |
| Lead | 63 | 400 | 87 | | 30 | | 36 | | 32 | | 300 | | 270 | |
| Magnesium | NS | NS | 690 | | 560 | | 2,900 | 3,900 | | 8,300 | | 6,300 | | |
| Manganese | 1600 | 2000 | 100 | | 88 | | 47 | | 34 | | 54 | | 60 | |
| Mercury | 0.18 | 0.81 | 0.1 | | 0.25 | | 0.09 | U | 0.09 | U | 4.1 | | 4.6 | |
| Nickel | 30 | 310 | 5.2 | | 4.5 | | 2 | | 2.2 | | 14 | | 13 | |
| Potassium | NS | NS | 320 | | 260 | | 140 | U | 140 | U | 300 | | 250 | |
| Selenium | 3.9 | 180 | 1.2 | U | 1 | U | 1.1 | U | 1.1 | U | 1.5 | U | 1.5 | U |
| Silver | 2 | 180 | 0.58 | U | 0.5 | U | 0.57 | U | 0.56 | U | 4.4 | | 0.98 | |
| Sodium | NS | NS | 120 | U | 100 | U | 110 | U | 110 | U | 150 | U | 150 | U |
| Thallium | NS | NS | 1.2 | U | 1 | U | 1.1 | U | 1.1 | U | 1.5 | U | 1.5 | U |
| Vanadium | NS | NS | 9.3 | | 6.3 | | 5.9 | | 8.3 | | 26 | | 25 | |
| Zinc | 109 | 10000 | 58 | | 24 | | 35 | | 34 | | 270 | | 300 | |

Notes:

All concentrations are µg/kg (ppb)

¹Unrestricted Use Soil Cleanup Objectives (SCO) 6 NYCRR Part 375, Environmental Remediation Programs, December 2006

²Restricted-Residential Soil Cleanup Objectives (SCO) 6 NYCRR Part 375, Environmental Remediation Programs, December 2006

U - Analyte not detected above the laboratory MDL

J - Estimated value

NS - No standard established

Bold text indicates compounds above the laboratory MDL

Green highlighting indicates exceedance of Unrestricted Use SCO

Yellow highlighting indicates exceedance of Restricted Residential SCO

Table 24
Trip Blank Sample Data Summary
Volatile Organic Compounds
Former Darby Drugs Distribution Center

| SAMPLE ID | AWQS* | TB-01 | TB-02 | TB090308 | TB090808-1 | TB090808-2 | TB091008 |
|---------------------------------------|--------|-------------|-------------|-------------|-------------|-------------|-------------|
| LAB SAMPLE ID | | L0812845-09 | L0812904-01 | L0813196-16 | L0813344-02 | L0813344-03 | L0813447-01 |
| SAMPLING DATE | | 8/21/2008 | 8/21/2008 | 8/19/2008 | 9/8/2008 | 8/21/2008 | 9/10/2008 |
| SAMPLE DEPTH (ft.) | | | | | | | |
| Volatile Organics by EPA 8260B | | | | | | | |
| Tetrachloroethene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Trichloroethene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| cis-1,2-Dichloroethene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| trans-1,2-Dichloroethene | 5 | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U |
| 1,1-Dichloroethene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Vinyl chloride | 2 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| 1,1,1,2-Tetrachloroethane | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 1,1,1-Trichloroethane | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 1,1,2,2-Tetrachloroethane | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 1,1,2-Trichloroethane | 1 | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U |
| 1,1-Dichloroethane | 5 | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U |
| 1,1-Dichloropropene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 1,2,3-Trichlorobenzene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 1,2,3-Trichloropropane | 0.04 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2,4,5-Tetramethylbenzene | 5 | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| 1,2,4-Trichlorobenzene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 1,2,4-Trimethylbenzene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 1,2-Dibromo-3-chloropropane | 0.04 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 1,2-Dibromoethane | 0.0006 | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| 1,2-Dichlorobenzene | 3 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 1,2-Dichloroethane | 0.6 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 1,2-Dichloropropane | 1 | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U |
| 1,3,5-Trimethylbenzene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 1,3-Dichlorobenzene | 3 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 1,3-Dichloropropane | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 1,4-Dichlorobenzene | 3 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 1,4-Diethylbenzene | NS | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| 2,2-Dichloropropane | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 2-Butanone | 50* | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 2-Hexanone | 50* | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 4-Ethyltoluene | NS | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| 4-Methyl-2-pentanone | NS | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Acetone | 50* | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Acrylonitrile | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Benzene | 1 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Bromobenzene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| Bromochloromethane | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| Bromodichloromethane | 50* | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Bromoform | 50* | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| Bromomethane | 5 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| Carbon disulfide | NS | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Carbon tetrachloride | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Chlorobenzene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Chloroethane | 5 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| Chloroform | 7 | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U |
| Chloromethane | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| cis-1,3-Dichloropropene | 0.4 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Dibromochloromethane | 50* | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Dibromomethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Dichlorodifluoromethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Ethylbenzene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Hexachlorobutadiene | 0.5 | 0.6 U | 0.6 U | 0.6 U | 0.6 U | 0.6 U | 0.6 U |
| Isopropylbenzene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Methyl tert butyl ether | 10 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| Methylene chloride | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Naphthalene | 10* | 2.5 U | 2.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| n-Butylbenzene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| n-Propylbenzene | 5 | 0.5 U | 0.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| o-Chlorotoluene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| o-Xylene | 5 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| p/m-Xylene | 5 | 1 U | 1 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| p-Chlorotoluene | 5 | 2.5 U | 2.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| p-Isopropyltoluene | 5 | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U |
| sec-Butylbenzene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Styrene | 5 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| tert-Butylbenzene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| Toluene | 5 | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U |
| trans-1,3-Dichloropropene | 0.4 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Trichlorofluoromethane | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| Vinyl acetate | NS | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |

Notes:

All units are µg/L (ppb)

*Class GA Ambient Water Quality Standard (AWQS), NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values ar

* Guidance Value

U - Analyte not detected above the laboratory MDL

J - Estimated value

NS - No standard established

Bold text indicates compounds above the laboratory MDL

Yellow highlighting indicates exceedance of Ambient Water Quality Standard

Green highlighting indicates exceedance of Ambient Water Quality Guidance Value

Table 24
Trip Blank Sample Data Summary
Volatile Organic Compounds
Former Darby Drugs Distribution Center

| SAMPLE ID | AWQS* | TB100308-01 | TB100308-02 | TB100608-03 | TB100608-04 | TB100608-05 | TB100708-01 | TRIP BLANK |
|--------------------------------|-------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| LAB SAMPLE ID | | L0814755-12 | L0814755-13 | L0814755-14 | L0814755-15 | L0814755-16 | L0814991-01 | L0911697-12 |
| SAMPLING DATE | | 10/3/2008 | 10/3/2008 | 10/6/2008 | 10/6/2008 | 10/6/2008 | 10/7/2008 | 8/20/2009 |
| SAMPLE DEPTH (ft.) | | | | | | | | |
| Volatile Organics by EPA 8260B | | | | | | | | |
| Tetrachloroethene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Trichloroethene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| cis-1,2-Dichloroethene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| trans-1,2-Dichloroethene | 5 | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U |
| 1,1-Dichloroethene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Vinyl chloride | 2 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |

| | | | | | | | | |
|-----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1,1,1,2-Tetrachloroethane | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 1,1,1-Trichloroethane | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 1,1,2,2-Tetrachloroethane | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 1,1,2-Trichloroethane | 1 | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U |
| 1,1-Dichloroethane | 5 | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U |
| 1,1-Dichloropropene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 1,2,3-Trichlorobenzene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 1,2,3-Trichloropropane | 0.04 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2,4,5-Tetramethylbenzene | 5 | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| 1,2,4-Trichlorobenzene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 1,2,4-Trimethylbenzene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 1,2-Dibromo-3-chloropropane | 0.04 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 1,2-Dibromoethane | 0.0006 | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| 1,2-Dichlorobenzene | 3 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 1,2-Dichloroethane | 0.6 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 1,2-Dichloropropane | 1 | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U |
| 1,3,5-Trimethylbenzene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 1,3-Dichlorobenzene | 3 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 1,3-Dichloropropane | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 1,4-Dichlorobenzene | 3 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 1,4-Diethylbenzene | NS | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| 2,2-Dichloropropane | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 2-Butanone | 50* | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 2-Hexanone | 50* | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 4-Ethyltoluene | NS | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| 4-Methyl-2-pentanone | NS | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Acetone | 50* | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Acrylonitrile | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Benzene | 1 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Bromobenzene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| Bromochloromethane | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| Bromodichloromethane | 50* | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Bromoform | 50* | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| Bromomethane | 5 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| Carbon disulfide | NS | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Carbon tetrachloride | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Chlorobenzene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Chloroethane | 5 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| Chloroform | 7 | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U |
| Chloromethane | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| cis-1,3-Dichloropropene | 0.4 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Dibromochloromethane | 50* | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Dibromomethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Dichlorodifluoromethane | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Ethylbenzene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Hexachlorobutadiene | 0.5 | 0.6 U | 0.6 U | 0.6 U | 0.6 U | 0.6 U | 0.6 U | 0.6 U |
| Isopropylbenzene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Methyl tert butyl ether | 10 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| Methylene chloride | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Naphthalene | 10* | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 2.5 U |
| n-Butylbenzene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| n-Propylbenzene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 0.5 U |
| o-Chlorotoluene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| o-Xylene | 5 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| p/m-Xylene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 1 U |
| p-Chlorotoluene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 2.5 U |
| p-Isopropyltoluene | 5 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U |
| sec-Butylbenzene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Styrene | 5 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| tert-Butylbenzene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| Toluene | 5 | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U |
| trans-1,3-Dichloropropene | 0.4 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Trichlorofluoromethane | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| Vinyl acetate | NS | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |

Notes:

All units are µg/L (ppb)

*Class GA Ambient Water Quality Standard (AWQS), NYd Groundwater Effluent Limitations, June 1998

* Guidance Value

U - Analyte not detected above the laboratory MDL

J - Estimated value

NS - No standard established

Bold text indicates compounds above the laboratory M

Yellow highlighting indicates exceedance of Ambient W

Green highlighting indicates exceedance of Ambient W

APPENDIX A NYSDEC CORRESPONDENCE

New York State Department of Environmental Conservation
Division of Environmental Remediation
Remedial Bureau A, 11th Floor
625 Broadway, Albany, New York 12233-7015
Phone: (518) 402-9620 • **FAX:** (518) 402-9020
Website: www.dec.state.ny.us



Denise M. Sheehan
Acting
Commissioner

CS
RECEIVED AUG 18 2005

August 15, 2005

Mr. Clark Hamilton
Managing Member
ARC Chase Partners, LLC
One Gateway Center Suite 230
11-43 Raymond Plaza West
Newark, New Jersey 07102

Re: Brownfield Cleanup Program
Former Darby Drugs, C130140
80-110 Banks Avenue
Rockville Centre, Town of Hempstead, Nassau County

Dear Mr. Hamilton:

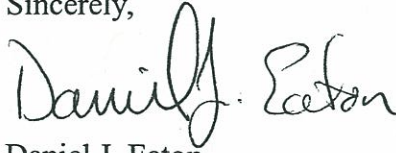
The Department, in conjunction with the NYSDOH, has reviewed the draft Remedial Investigation Report for the Former Darby Drugs site and offers the following comments.

1. The procedures that were implemented in the field to collect the soil gas samples must be documented and included in the report.
2. The discharge points must be further investigated and identified for the four (4) interior drainage systems mentioned on page 8 of the report.
3. The suspected leaching structure in the vicinity of boring B8 must be further investigated.
4. Deeper groundwater beneath the clay layer should be investigated because it is possible that the three (3) injection wells discharged beneath the clay layer at the site. Appropriate precautions must be taken to prevent contamination from migrating below the clay layer during the investigation.
5. There appears to have been very limited soil and groundwater investigation in the northern portion of the property. This area may require further investigation.
6. To further delineate the potential for site related contamination to Smith Pond, sediment samples should be collected and analyzed for semi-volatile organic compounds, volatile organic compounds, and metals.

7. The qualitative exposure assessment (section 4.3) did not include possible dermal exposure. This route of exposure must be addressed in the qualitative exposure assessment.
8. There are several locations at which the level of contamination in the groundwater samples and the level of contamination in the soil samples do not coincide. The levels in the groundwater are higher than the levels in the soil would indicate they should be; sample locations B-2, B-4, B-6, B-15, and B-17. These inconsistencies should be addressed in the RI report. Based on the current data, the Department does not support the conclusion that remediation in these areas is not necessary because the soil sample is below the recommended soil cleanup guidance value.
9. High levels of PCE were detected in the groundwater near the south property line. An offsite threat assessment is necessary. Considering the VOC soil and groundwater contamination source areas that have been identified at the site, the potential soil vapor intrusion should be considered in the offsite threat assessment at the down gradient commercial and residential properties.
10. Based on the report, seven (7) drywells were sampled. Four of the seven drywells contained elevated levels of metals (SD-1 : 94 ppm chromium, SD-3 : 720 ppm lead, SD-4 : 2.9 ppm mercury, SD-6 : 1.5 ppm mercury). The other 17 drywells at the site should also be sampled. The four contaminated drywells mentioned above and any other contaminated drywells detected, based on the sampling results, will require evaluation and possible remediation.
11. In Section 2.4.2. Monitoring Well Installation, the report indicates that 1 inch permanent monitoring wells were installed with Geoprobe equipment. The NCDH does not accept 1 inch monitoring wells. Monitoring wells must have a minimum diameter of two (2) inches and should be drilled and properly developed. The 1 inch monitoring wells should be replaced with proper 2 inch wells.
12. The horizontal extent of soil contamination at the site needs to be further delineated.
13. Attention should be brought to grammatical errors found on the following pages: on page 5 under the potential injection wells paragraph, the word property is misspelled (*properly*). On page 7 in the last paragraph, there is an extra word in the first sentence. On page 14 under 2.9.1 leaching structure results paragraph, there is an extra word in the first sentence.
14. On page 22 in the first paragraph, consultants reported that "*Previous investigations performed at the site identified a concentration of chlorinated VOCs, primarily PCE, in soils beneath the southeast portion of the building.*" The majority of the investigation at this site was conducted in the southwest portion of the building. During the 2/10/05 meeting with the BCP candidate, it was indicated that this wording was an error. The wording should be corrected to read "southwest."

Please feel free to contact me if you have any questions.

Sincerely,

A handwritten signature in black ink, reading "Daniel J. Eaton". The signature is fluid and cursive, with the first name "Daniel" and last name "Eaton" clearly distinguishable.

Daniel J. Eaton
Engineering Geologist

cc: M. Faltischek
C. Sosik

New York State Department of Environmental Conservation

Division of Environmental Remediation

Remedial Bureau A

625 Broadway, 11th Floor

Albany, New York 12233-7015

Phone: (518) 402-9625 • **Fax:** (518) 402-9020 / (518) 402-9627

Website: www.dec.ny.gov



Alexander B. Grannis
Commissioner

September 20, 2007

Mr. Charles B. Sosik
EBC Environmental Business Consultants
9 Peconic Road
Ridge NY 11961

RE: OU-2 Work Plan Review/Response
Darby Drugs Distribution Center.
80-100 Banks Avenue
Rockville Center, NY
Site No. C130140

Dear Mr. Sosik:

The New York State Departments of Environmental Conservation (NYSDEC) and Health (NYSDOH), have reviewed the Work Plan for Operable Unit 2 (OU-2), dated July 2007. The following is a list of comments provided by the two departments. Each of the comments must be addressed in a revised work plan or as an addendum to the current before the NYSDEC will grant approval.

Comments:

1. NYSDEC has recently learned that in 1971 Downen-Zier Knits applied for a State Pollutant Discharge Elimination System Permit (SPDES) in which they requested the approval to install 3 supply wells for cooling water. The application (see attachment) also identifies diffusion wells to return the water to aquifer and 14 leaching pools on the western side of the property. This confirms the long speculation of a leaching pool system on the west side of the building. The existence and location of the pools should be determined and sediment and groundwater sampling be completed on all the pools.

2. The work plan should include sampling beneath the clay layer. As the above noted permit request indicates, the diffusion wells punctured the clay layer. It is only an assumption that the clay layer has not been breached. No sampling has ever been completed below the clay layer in the area of the suspected plume. To assume that there is no contamination in the lower aquifer would be incorrect. According to the SPDES permit, three wells were installed at depths between 40' to 50' (i.e. below the clay layer). If the wells were not sealed correctly, contamination could have leaked into the lower aquifer. Another potential pathway to the aquifer are the three diffusion wells. These wells are noted to be at 37'-50', located on the south west side of the building. The diffusion wells were installed to dispense the water from the 3 supply wells after it was used in a closed loop cooling system for dry cleaning. It is possible, that heat exchanger leaks could provide a pathway to cross contamination, thus impacting the aquifer. Therefore, samples should be taken outside of the source area, to a depth between the clay and confining layers.
3. The transects should continue to the west and east, so as to identify the complete extent (width) of the plume. The three transects should extend to Smith Pond and Mill River.
4. If the plume is found to be discharging into the river, ground water samples should be taken from beneath the river.
5. The analysis should include testing for metals because metals such as antimony are often used in textile production. The TAL metals by methods 6010/7000 and TCL SVOC by 8270 should be included.
6. Soil vapor intrusion sampling should be completed in the adjacent buildings MTA bus terminal, hotel, Shiloh Baptist Church and Rockville Housing Authority building.
7. Include the following details on the public well field;
 1. Profile sampling should be completed on the west side of the water bodies and between the wells to determine if plume is being pulled towards the well field.
 2. Periodic sampling of the Centinel well should be completed to give warning of plume reaching the well field.
8. A DUSR (Data Usability Summary Report) is also required.
9. Since the second transect will not be started until results have returned from the first, the NYSDEC and NYSDOH request adequate time to review the sample report.

If you have any questions please feel free to contact me via phone or e-mail (prior to any formal letter response) at (518)-402-9622 or mebufali@gw.dec.state.ny.us

Sincerely,

A handwritten signature in black ink, appearing to read "Mark E. Bufalini". The signature is fluid and cursive, with the first name "Mark" and last name "Bufalini" clearly distinguishable.

Mark E. Bufalini
Project Manager
Remedial Bureau B

cc:

J. Yavonditte - NYSDEC
W. Parish - RHWRE Reg 1.
S. Karpinski - NYSDOH

State of New York
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Long Island Well Application No. W-2842

In the Matter of the Application

- of -

DOJENH-ZIER KNITS, INC.

for approval to install wells at
its premises at Banks Avenue,
Rockville Center, County of Nassau,
State of New York.

D E C I S I O N

| | |
|--------------------------|-------------------|
| Application filed | December 9, 1971 |
| Hearing held in Westbury | December 17, 1971 |
| Decision | January 27, 1972 |

Smith Pond



4. The water will be used about 300 days a year at an average rate of 360,000 gallons a day. Annual usage will not exceed 108 million gallons.

5. Water is to pass from the wells through a common supply header to the various cooling units, then through a common return header into 4 separate diffusion wells spaced at 20-foot intervals at a location about 150 feet south-east of the supply wells. There will be no outlets or connections in the system that will permit usage of this water for any other purpose.

6. There are no other wells on this property and water for all other purposes will be obtained from the Village of Rockville Center public supply system.

7. Since all water pumped from the proposed wells is to be returned to the same pumping zone, there will be no net loss to the underground strata or any adverse effect on any public supply wells. The nearest public supply wells are Nos. N-5656 and N-7521 of the Long Island Water Corp. located about 3/8 of a mile to the west.

CONDITIONS

The Department finds it to be necessary to protect the interests of the applicant and of the people of the State to impose the following conditions:

- A. By authority of this decision and approval, applicant is authorized to use water pumped from this well or wells for cooling as indicated herein but for no other purpose whatsoever.
- B. This water may be used only in a completely closed system and the water must be returned through the proposed diffusion well or wells, or some other equivalent satisfactory structure, to the zone in which the supply well is screened. Although each case will be decided on its particular merits, in general this zone will be considered to extend from 50 feet above the top of the supply well screen to 50 feet below the bottom of the supply well screen. In the event of multiple screen settings in the supply well or wells, the diffusion zone will probably be determined by the lowermost supply well screen. The above limits may be extended, if it can be established to the satisfaction of this Department that the proposed diffusion zone is freely interconnected with the supply well zone.

- C. Detailed plans showing the proposed method of returning the water after use must be submitted to and approved by this Department before such work is started. Plans of a diffuser will be considered only after the stratification has been revealed by the stirring of the supply well. The entire project must be completed in accordance with approved plans.
- D. No overflows or connections to sewers or cross-connections to any other source of water supply may be installed or maintained.
- E. Upon completion of the proposed supply wells and before a permit to operate will be issued, applicant shall submit to the Department the results of an analysis made from a sample of water taken from the well or wells, as prescribed by the Department.
- F. No chemical or polluting substance may be discharged in this water or into the diffusion well and the material used in this piping of the cooling system shall be of a nature reasonably resistant to corrosion which would pollute the water and tend to clog the diffusion well.
- G. This entire plant and the apparatus connected therewith must at all reasonable hours be open to inspection and test by duly accredited agents of this Department and of the local water authorities.
- H. This decision and approval shall not be held to grant exemption from general restrictions of the use of water for this particular purpose which may at any time be imposed by other competent authority.
- I. The Department of Environmental Conservation reserves the right to reconsider this approval at any time and, after due notice and hearing, at that time to continue, rescind or modify this decision in such a manner as may be found to be just and equitable.

- J. Unless all work authorized by the decision shall have been completed by February 1, 1975, or within such extended time as may have been applied for and granted by the Department, then and on that date this approval shall be deemed to have lapsed.

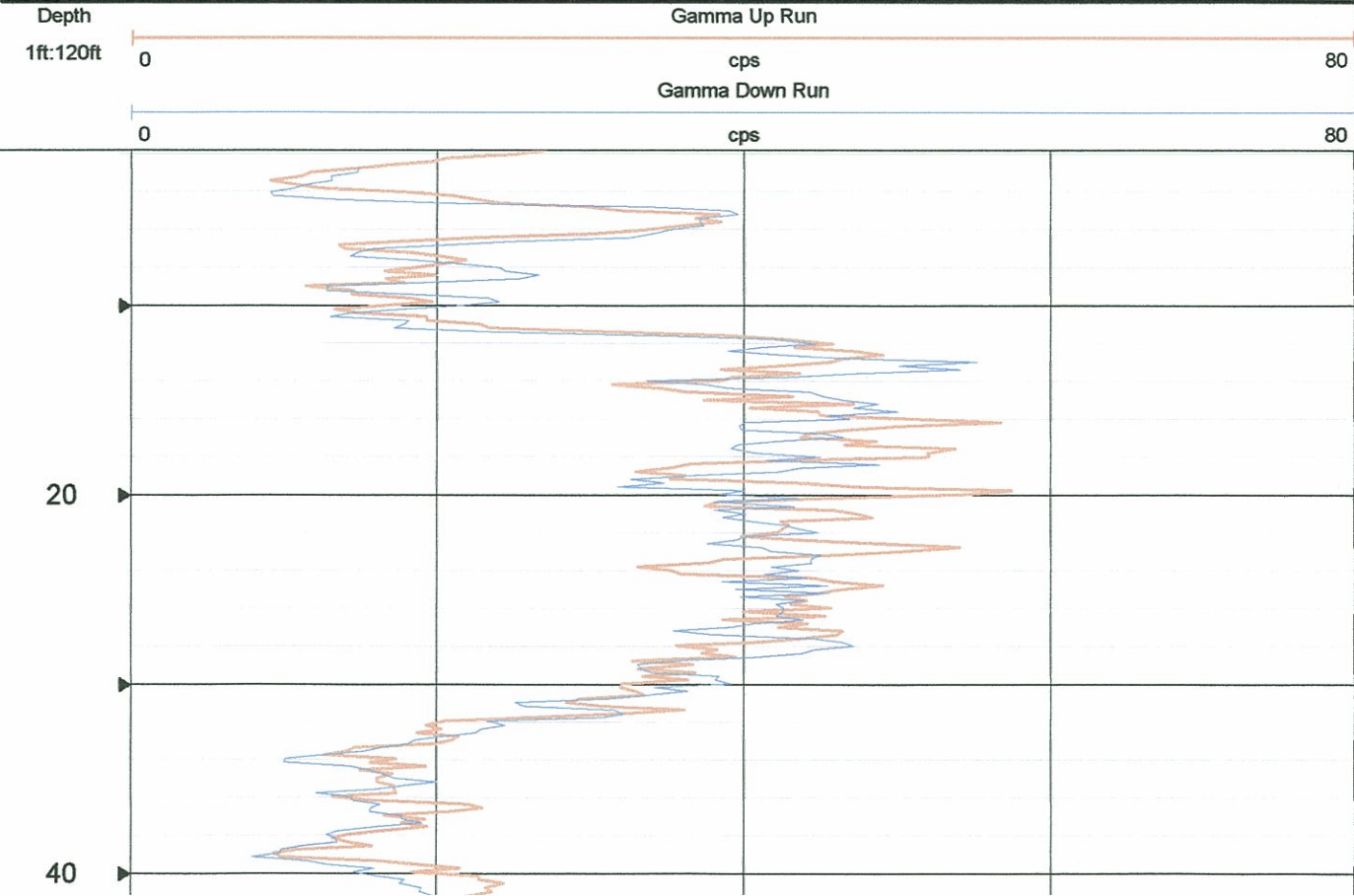
DETERMINATION

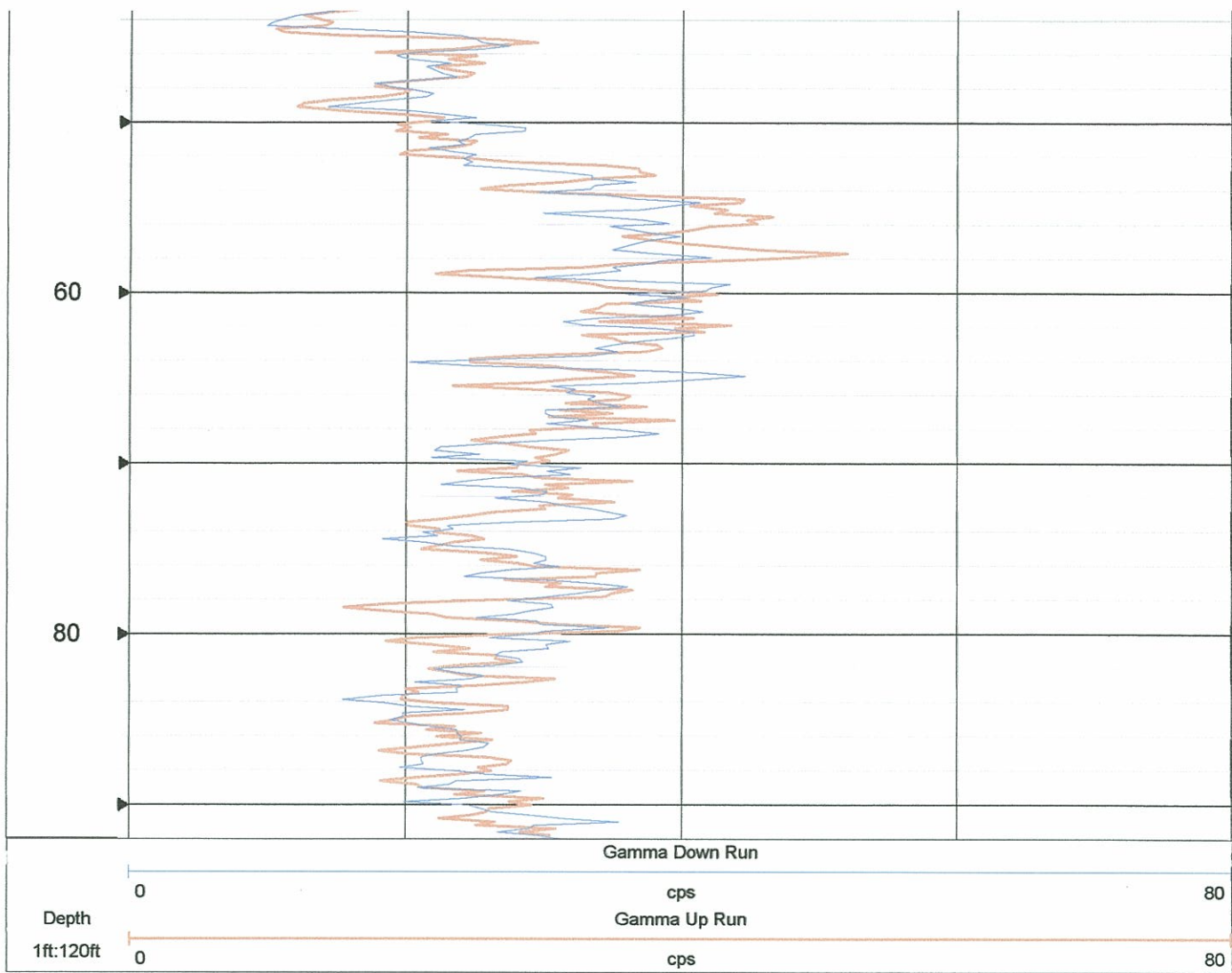
In view of the above, the Department of Environmental Conservation under the provisions of Section 4.6 of the Conservation Law, approves of this application as above modified.

APPENDIX B GAMMA LOGS

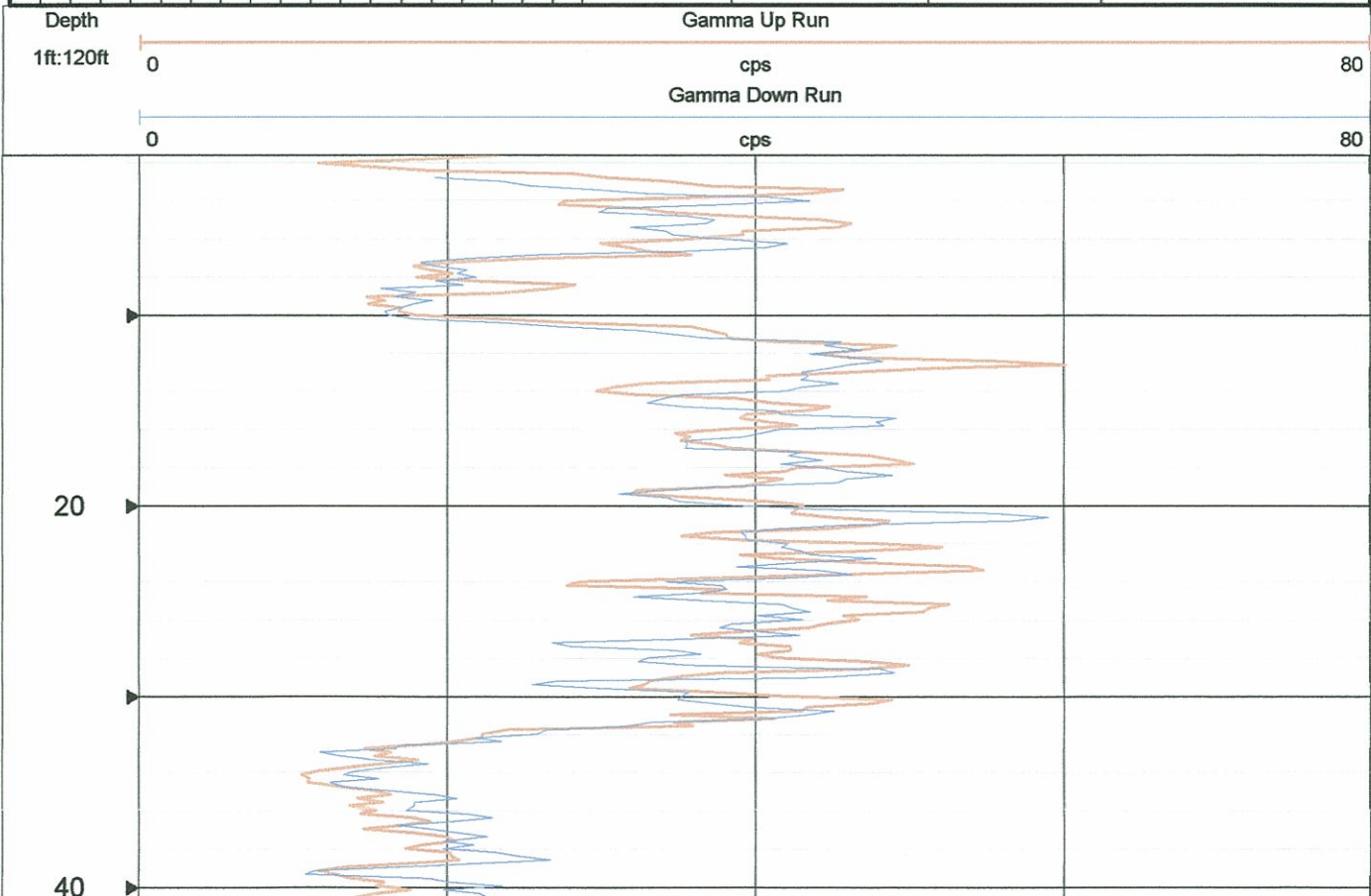
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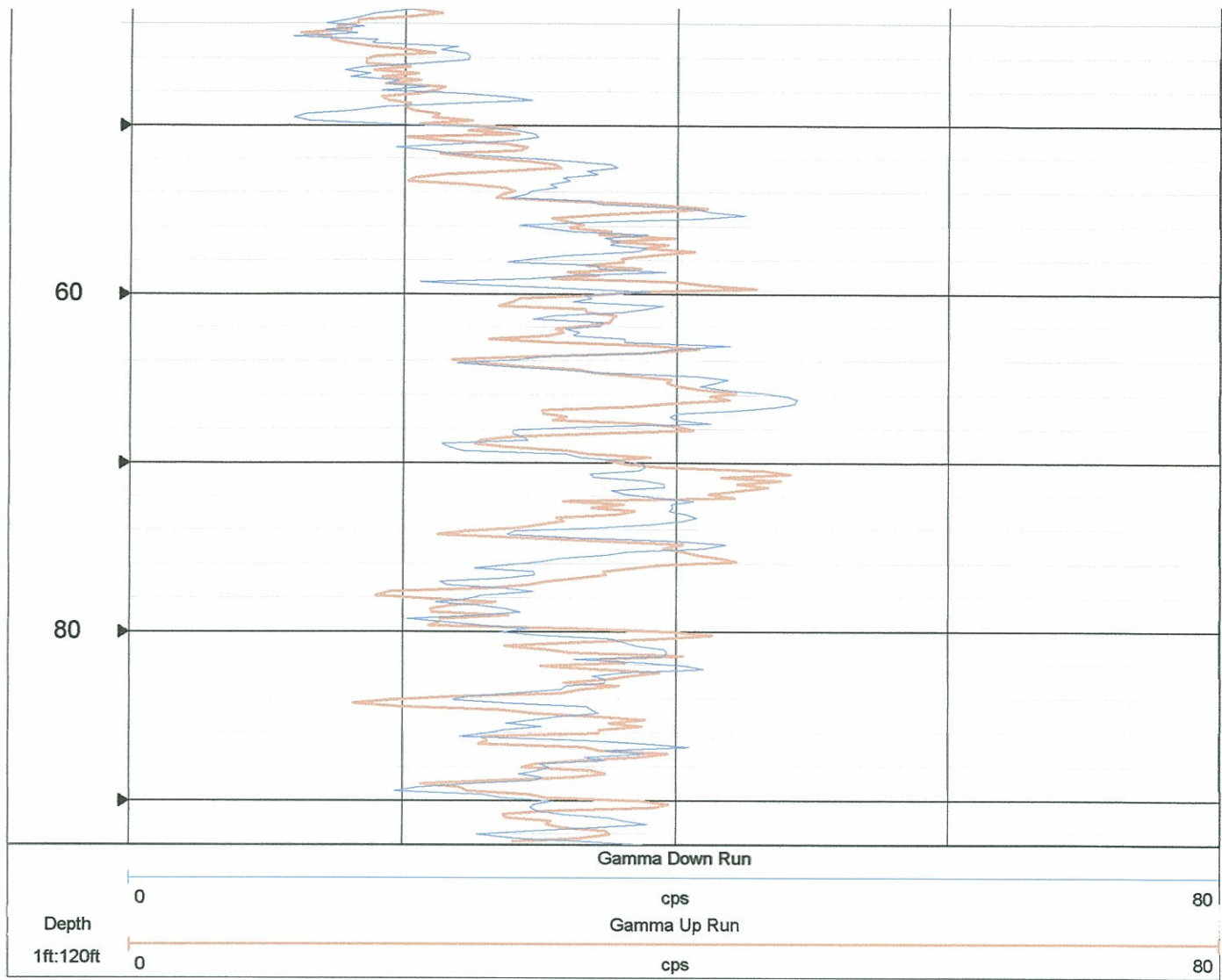
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| COMPANY ASSOCIATED ENVIRONMENTAL | | | | | | | | | |
| CO | | WELL | | FLD | | CTY | | STE | |
| PERMANENT DATUM | | FILING No | | LOCATION | | OTHER SERVICES | | | |
| LOG MEAS. FROM | | ABOVE PERM. DATUM | | 80 - 100 BANKS AVE, ROCKVILLE CENTRE | | | | | |
| DRILLING MEAS. FROM | | | | SEC | | TWP | | RGE | |
| DATE | | OCTOBER 6, 2008 | | TYPE FLUID IN HOLE | | | | | |
| RUN No | | | | SALINITY | | | | | |
| TYPE LOG | | | | DENSITY | | | | | |
| DEPTH-DRILLER | | 100 FEET | | LEVEL | | | | | |
| DEPTH-LOGGER | | 93.3 FEET | | MAX. REC. TEMP. | | | | | |
| BTM LOGGED INTERVAL | | | | | | | | | |
| TOP LOGGED INTERVAL | | | | | | | | | |
| OPERATING RIG TIME | | | | | | | | | |
| RECORDED BY | | BENJAMIN RICE | | | | | | | |
| WITNESSED BY | | MENZY JEAN-BAPTISTE | | | | | | | |





INST

[illegible]

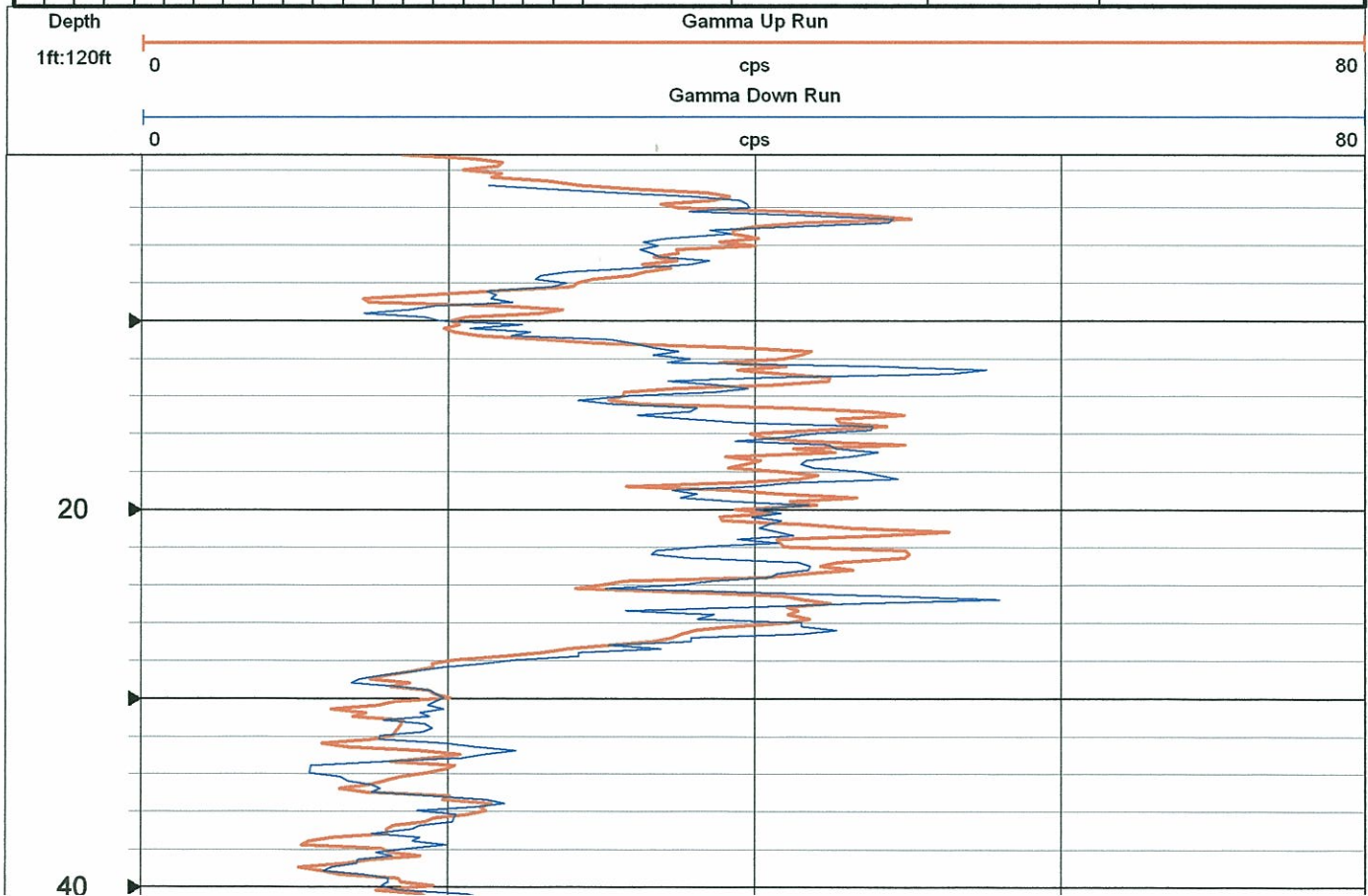


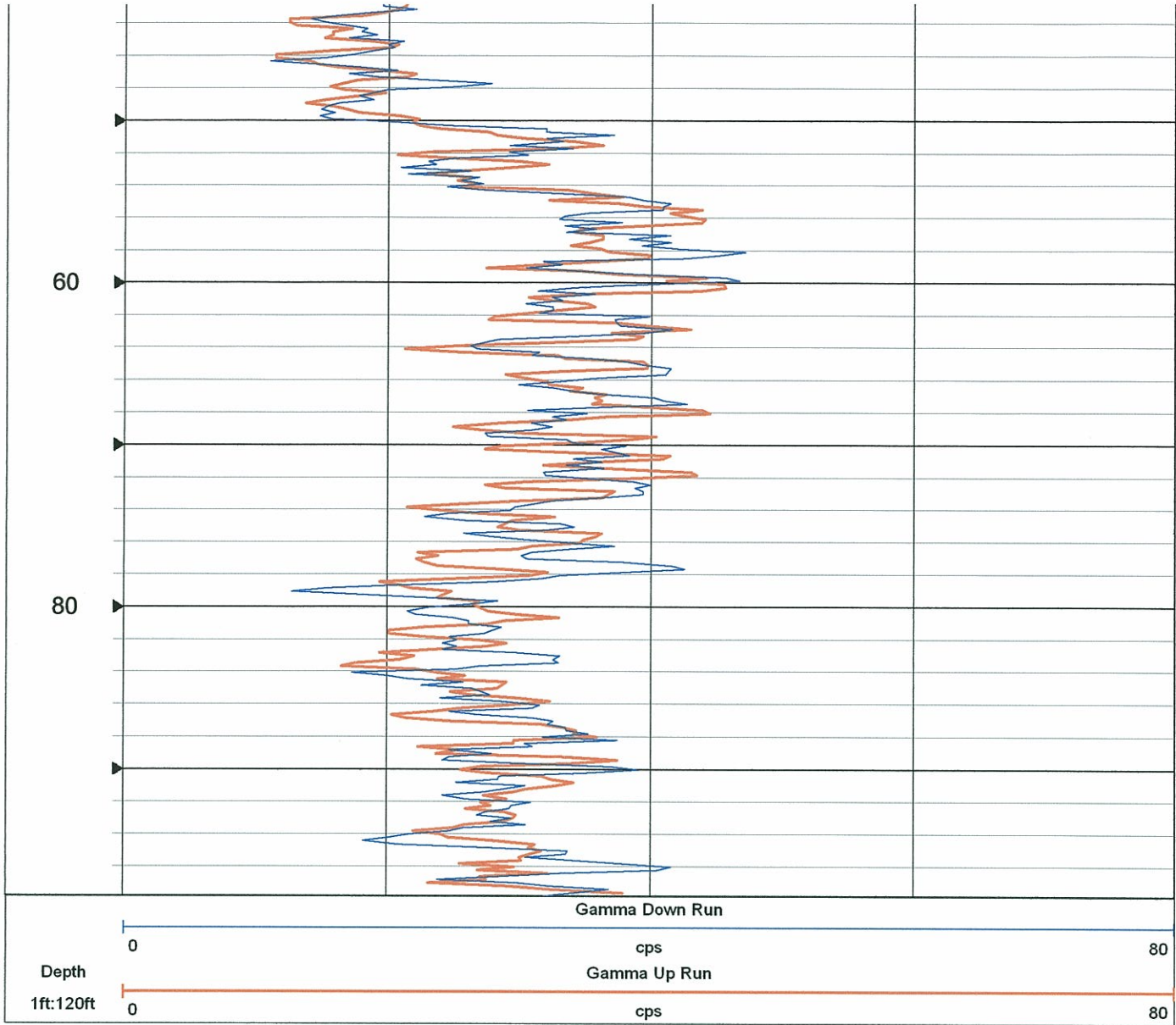
NSI

| | |
|---------------------------------------|--------------------------|
| COMPANY | ASSOCIATED ENVIRONMENTAL |
| WELL ID | VP - 03 |
| FIELD | PROJECT AVB - 0801 |
| COUNTRY | NASSAU |
| STATE | NEW YORK |
| LOCATION | OTHER SERVICES |
| 80 - 100 BANKS AVE., ROCKVILLE CENTRE | |
| CO | |
| WELL | |
| FLD | |
| CTY | |
| STE | |
| FILING No | |
| SEC | |
| TWP | |
| RGE | |

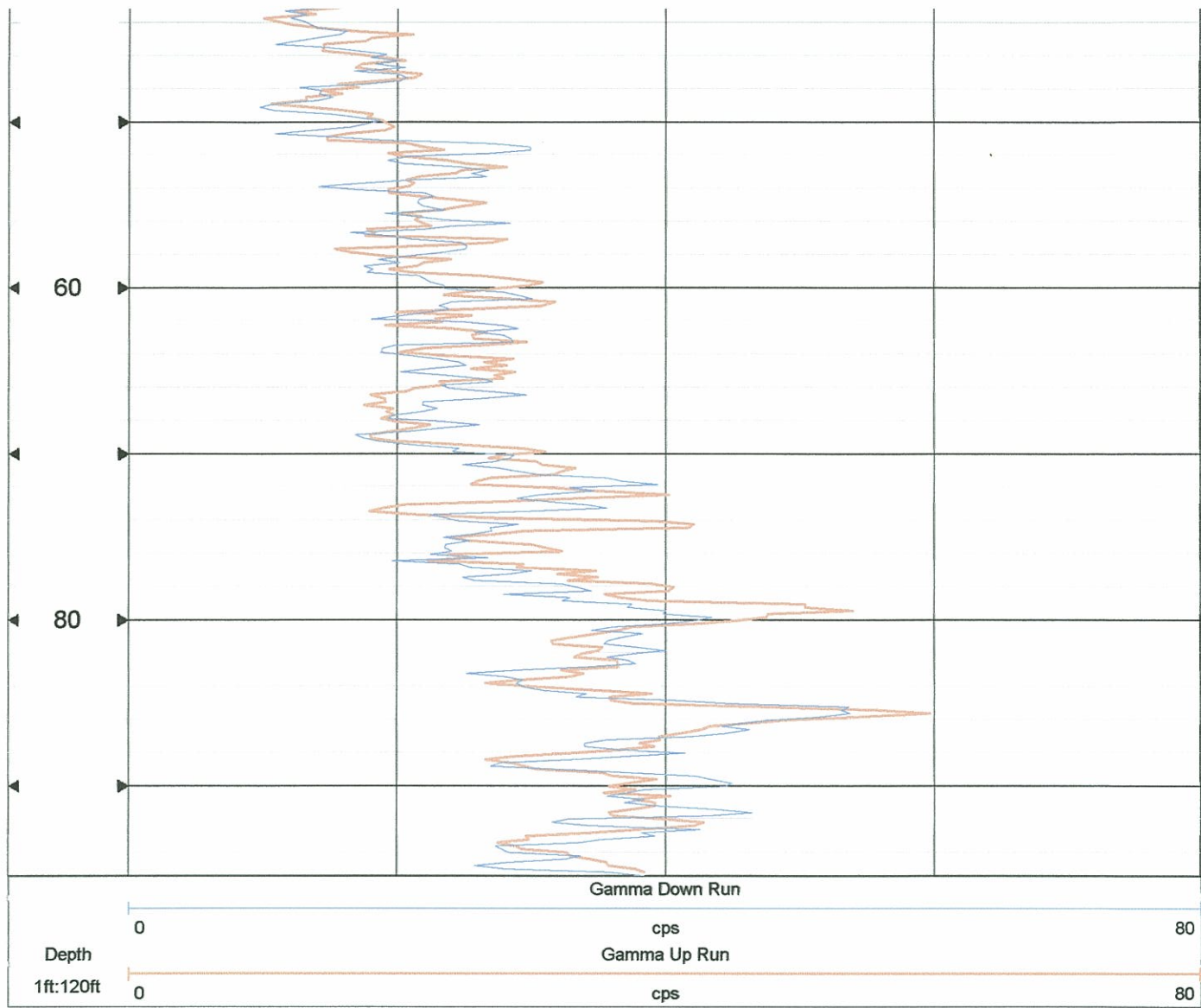
| PERMANENT DATUM | ELEVATION | K.B. | |
|---------------------|-----------------|--------------------|------|
| LOG MEAS. FROM | BLACKTOP | ABOVE PERM. DATUM | D.F. |
| DRILLING MEAS. FROM | | | GL. |
| DATE | OCTOBER 2, 2008 | TYPE FLUID IN HOLE | |
| RUN No | | SALINITY | |
| TYPE LOG | | DENSITY | |
| DEPTH-DRILLER | 100 FEET | LEVEL | |
| DEPTH-LOGGER | 99 FEET | MAX. REC. TEMP. | |
| BTM LOGGED INTERVAL | | | |
| TOP LOGGED INTERVAL | | | |
| OPERATING RIG TIME | | | |
| RECORDED BY | BENJAMIN RICE | | |
| WITNESSED BY | DERRICK ERSBAK | | |

| RUN NO. | BOREHOLE RECORD | | | CASING RECORD | | | |
|---------|-----------------|------|----|---------------|-------------|------|-------------|
| | BIT | FROM | TO | SIZE | WGT. HSA | FROM | TO |
| | | | | 4 INCH | | | TOTAL DEPTH |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |





MSI



APPENDIX C

SOIL BORING LOGS

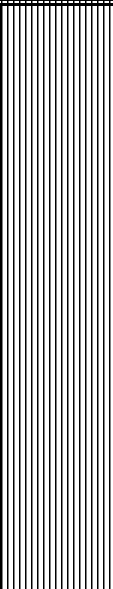
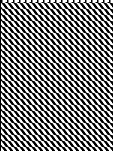


| Boring Designation: | | SB-2008-01 | | | Logged By: | | TM | |
|----------------------|--------------|--|-------------|-----------|--------------------|------------------|--|---|
| Site Address: | | 80 - 100 Banks Ave, Rockville Centre, New York | | | Project Manager: | | KA | |
| Project Name: | | Former Darby Drugs Site - Supplemental RI | | | Project Number: | | AVB0801 | |
| Drilling Contractor: | | Associated Environmental | | | Driller Name: | | John | |
| Drilling Method: | | Direct Push | | | Borehole Diameter: | | 2.5" | |
| Sampling Method: | | Macro-Core | | | Borehole Depth: | | 20' | |
| Start Time: | | | | | Completion Time: | | | |
| Start Date: | | 9/4/2008 | | | Completion Date: | | 9/4/2008 | |
| Depth (ft) | Advance (ft) | Recovery (ft) | Graphic Log | USCS Code | Soil Color | Moisture Content | Soil Description | Notes |
| 0 | 5 | 4.0 | | NA | NA | NA | Concrete (0-6') | PID - 3.8 ppm |
| | | | | GM | Brown | Dry | Sand/silt/gravel/brick mix (fill) | |
| | | | | | | | | |
| | | | | | | | | |
| 5 | 5 | 4.0 | | | | | | PID - 8.7 ppm |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | SM | Red/brown | Dry | Med./fine sand, some silt, trace gravel | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 10 | 5 | 5.0 | | | | | | PID - 13.3 ppm |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | SW | Tan | Wet | Fine sand, some silt | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 15 | 5 | 5.0 | | | | | | PID - 0.0 ppm |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | SP | Red/brown | Wet | Med./coarse sand, some gravel, little silt | |
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| | | | | | | | | |
| | | | | CH | Grey | Wet | Clay | |
| | | | | | | | | |
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| 20 | | | | | | | E.O.B. - 20' bgs | |
| | | | | | | | | Soil sample collected from 5-10' interval |
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| | | | | | | | | |
| 25 | | | | | | | | Groundwater sample collected at 11-15' |
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| Boring Designation: | SB-2008-02 | | Logged By: | TM |
| Site Address: | 80 - 100 Banks Ave, Rockville Centre, New York | | Project Manager: | KA |
| Project Name: | Former Darby Drugs Site - Supplemental RI | | Project Number: | AVB0801 |
| Drilling Contractor: | Associated Environmental | | Driller Name: | Tim |
| Drilling Method: | Direct Push | | Borehole Diameter: | 2.5" |
| Sampling Method: | Macro-Core | | Borehole Depth: | 15' |
| Start Time: | | | Completion Time: | |
| Start Date: | 9/3/2008 | | Completion Date: | 9/3/2008 |

| Depth (ft) | Advance (ft) | Recovery (ft) | Graphic Log | USCS Code | Soil Color | Moisture Content | Soil Description | Notes |
|------------|--------------|---------------|-------------|-----------|------------|------------------|---|---|
| 0 | 5 | 3.0 | | NA | NA | NA | Concrete (0-6') | PID - 2.9 ppm |
| | | | | GM | Brown | Dry | Sand/silt/gravel mix (fill) | |
| | | | | | | | | |
| | | | | | | | | |
| 5 | 5 | 4.0 | | SM | Red/brown | Dry | Med./fine sand, some silt, trace gravel | PID - 2.4 ppm |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 10 | 5 | 3.0 | | SW | Tan | Wet | Fine sand, some silt | PID - 0.0 ppm |
| | | | | | | | | Approx. 2-3" of grey clay at bottom of sample |
| | | | | | | | | |
| | | | | | | | | |
| 15 | | | | | | | E.O.B - 15' bgs | Soil sample collected from 5-10' interval |
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| 20 | | | | | | | | Groundwater sample collected at 11-14' |
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| Boring Designation: | | | SB-2008-03 | | | | Logged By: | | TM | | | |
| Site Address: | | | 80 - 100 Banks Ave, Rockville Centre, New York | | | | Project Manager: | | KA | | | |
| Project Name: | | | Former Darby Drugs Site - Supplemental RI | | | | Project Number: | | AVB0801 | | | |
| Drilling Contractor: | | | Associated Environmental | | | | Driller Name: | | Tim | | | |
| Drilling Method: | | | Direct Push | | | | Borehole Diameter: | | 2.5" | | | |
| Sampling Method: | | | Macro-Core | | | | Borehole Depth: | | 20' | | | |
| Start Time: | | | | | | | Completion Time: | | | | | |
| Start Date: | | | 9/3/2008 | | | | Completion Date: | | 9/3/2008 | | | |
| Depth (ft) | Advance (ft) | Recovery (ft) | Graphic Log | USCS Code | Soil Color | Moisture Content | Soil Description | | Notes | | | |
| 0 | 5 | 3.0 |  | SM | Red/ brown | Dry | Med./fine sand, some silt, trace gravel | | PID - 6.2 ppm | | | |
| | | | | | | | | | | | | |
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| | | | | | | | | | | | | |
| 5 | 5 | 2.0 | | | | Moist | | | | | PID - 0.0 ppm | |
| | | | | | | | | | | | | |
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| | | | | | | | | | | | | |
| 10 | 5 | 1.0 | | | | Wet | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 15 | 5 | 5.0 |  | CH | Grey | Wet | Clay | | PID - 0.0 ppm | | | |
| | | | | | | Wet | | | | | | |
| | | | | | | | | | | | | |
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| 20 | | | | | | | | | E.O.B. - 20' bgs | | | |
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| 25 | | | | | | | | Soil sample collected from 10-15' interval | | | | |
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| | | | | | | | | Groundwater sample collected at 12-16' | | | | |
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| Boring Designation: | SB-2008-05 | | Logged By: | TM | |
| Site Address: | 80 - 100 Banks Ave, Rockville Centre, New York | | Project Manager: | KA | |
| Project Name: | Former Darby Drugs Site - Supplemental RI | | Project Number: | AVB0801 | |
| Drilling Contractor: | Associated Environmental | | Driller Name: | Tim | |
| Drilling Method: | Direct Push | | Borehole Diameter: | 2.5" | |
| Sampling Method: | Macro-Core | | Borehole Depth: | 15' | |
| Start Time: | | | Completion Time: | | |
| Start Date: | 9/3/2008 | | Completion Date: | 9/3/2008 | |

| Depth (ft) | Advance (ft) | Recovery (ft) | Graphic Log | USCS Code | Soil Color | Moisture Content | Soil Description | Notes |
|------------|--------------|---------------|-------------|-----------|---------------|------------------|---|---|
| 0 | 5 | 0.0 | | NA | NA | NA | No Recovery | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 5 | 5 | 1.5 | | SM | Red/ brown | Moist | Med./fine sand, some silt, trace gravel | PID - 39.9 ppm |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 10 | 5 | 4.0 | | | | | | PID - 9.8 ppm |
| | | | | | | | | |
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| | | | | | | | | |
| | | | | SW | Tan | Wet | Med./fine sand, little silt | |
| | | | | | | | | |
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| | | | | | | | | |
| 15 | | | | CH | Grey | Wet | Clay E.O.B. - 15' bgs | |
| | | | | | | | | Soil sample collected from 5-10' interval |
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| | | | | | | | | |
| 20 | | | | | | | | Groundwater sample collected at 11-15' |
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| Boring Designation: | SB-2008-06 | | Logged By: | TM |
| Site Address: | 80 - 100 Banks Ave, Rockville Centre, New York | | Project Manager: | KA |
| Project Name: | Former Darby Drugs Site - Supplemental RI | | Project Number: | AVB0801 |
| Drilling Contractor: | Associated Environmental | | Driller Name: | Tim |
| Drilling Method: | Direct Push | | Borehole Diameter: | 2.5" |
| Sampling Method: | Macro-Core | | Borehole Depth: | 15' |
| Start Time: | | | Completion Time: | |
| Start Date: | 9/3/2008 | | Completion Date: | 9/3/2008 |

| Depth (ft) | Advance (ft) | Recovery (ft) | Graphic Log | USCS Code | Soil Color | Moisture Content | Soil Description | Notes |
|------------|--------------|---------------|-------------|-----------|---------------|----------------------|---|---|
| 0 | 5 | 4.0 | | NA | NA | NA | Concrete (0-6') | PID - 0.0 ppm |
| | | | | GM | Brown | Dry | Sand/silt/gravel mix (fill) | |
| | | | | | | | | |
| | | | | | | | | |
| 5 | 5 | 5.0 | | | | | | PID - 0.0 ppm |
| | | | | | | | | |
| | | | | SM | Red/ brown | Moist | Med./fine sand, some silt, trace gravel | |
| | | | | | | | | |
| 10 | 5 | 4.0 | | | | | | PID - 0.0 ppm |
| | | | | | | | | |
| | | | SW | Tan | Wet | Fine sand, some silt | | |
| | | | CH | Grey | Wet | Clay | | |
| 15 | | | | | | | E.O.B. - 15' bgs | Soil sample collected from 5-10' interval |
| | | | | | | | | |
| 20 | | | | | | | | Groundwater sample collected at 11-15' |
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| Boring Designation: | | SB-2008-07 | | | Logged By: | | TM | |
|----------------------|--------------|--|-------------|-----------|--------------------|------------------|---|---|
| Site Address: | | 80 - 100 Banks Ave, Rockville Centre, New York | | | Project Manager: | | KA | |
| Project Name: | | Former Darby Drugs Site - Supplemental RI | | | Project Number: | | AVB0801 | |
| Drilling Contractor: | | Associated Environmental | | | Driller Name: | | John | |
| Drilling Method: | | Direct Push | | | Borehole Diameter: | | 2.5" | |
| Sampling Method: | | Macro-Core | | | Borehole Depth: | | 20' | |
| Start Time: | | | | | Completion Time: | | | |
| Start Date: | | 9/4/2008 | | | Completion Date: | | 9/4/2008 | |
| Depth (ft) | Advance (ft) | Recovery (ft) | Graphic Log | USCS Code | Soil Color | Moisture Content | Soil Description | Notes |
| 0 | 5 | 4.0 | | NA | NA | NA | Concrete (0-6') | PID - 17.1 ppm |
| | | | | GM | Brown | Dry | Sand/silt/gravel mix (fill) | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 5 | 5 | 4.0 | | | | | | PID - 3.3 ppm |
| | | | | | | | | |
| | | | | SM | Red/brown | Dry | Med./fine sand, some silt, trace gravel | |
| | | | | | | | | |
| 10 | 5 | 4.0 | | SM | Red/brown | Moist | Med./coarse sand, some silt and gravel | PID - 13.3 ppm |
| | | | | | | | | |
| | | | | | | | | |
| | | | | SW | Tan | Moist | Fine sand, some silt | |
| | | | | | | | | |
| 15 | 5 | 5.0 | | CH | Tan/grey | Wet | Clay | PID - 0.0 ppm |
| | | | | | | | | |
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| 20 | | | | | | | E.O.B. - 20' bgs | |
| | | | | | | | | Soil sample collected from 5-10' interval |
| | | | | | | | | |
| 25 | | | | | | | | Groundwater sample collected at 11-15' |
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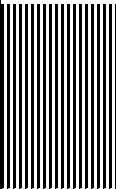
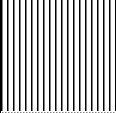
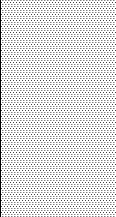
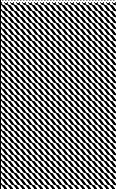

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| Boring Designation: | | SB-2008-09 | | | | | Logged By: | TM | | |
| Site Address: | | 80 - 100 Banks Ave, Rockville Centre, New York | | | | | Project Manager: | KA | | |
| Project Name: | | Former Darby Drugs Site - Supplemental RI | | | | | Project Number: | AVB0801 | | |
| Drilling Contractor: | | Associated Environmental | | | | | Driller Name: | John | | |
| Drilling Method: | | Direct Push | | | | | Borehole Diameter: | 2.5" | | |
| Sampling Method: | | Macro-Core | | | | | Borehole Depth: | 20' | | |
| Start Time: | | | | | | | Completion Time: | | | |
| Start Date: | | 9/5/2008 | | | | | Completion Date: | 9/5/2008 | | |
| Depth (ft) | Advance (ft) | Recovery (ft) | Graphic Log | USCS Code | Soil Color | Moisture Content | Soil Description | | Notes | |
| 0 | 5 | 3.0 |  | NA | NA | NA | Concrete (0-6') | | PID - 3.5 ppm | |
| | | | | GM | Brown | Dry | Sand/silt/gravel mix (fill) | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| 5 | 5 | 4.0 |  | | | | | | PID - 7.0 ppm | |
| | | | | SM | Red/ brown | Dry | Med./fine sand, some silt, little gravel | | | |
| | | | | | | | | | | |
| | | |  | SW | Tan | Wet | Fine sand, some silt | | | |
| 10 | 5 | 4.0 | | | | | | | PID - 0.2 ppm | |
| | | | | | | | | | | |
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| | | | | | | | | | | |
| 15 | 5 | 3.0 |  | | | | Fine sand, some silt | | PID - 0.0 ppm | |
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| | | |  | CH | Grey | Wet | Clay E.O.B. - 20' bgs | | | |
| 20 | | | | | | | | | Soil samples collected from 5-10' & 15-20' intervals | |
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| Boring Designation: | SB-2008-10 | | Logged By: | TM |
| Site Address: | 80 - 100 Banks Ave, Rockville Centre, New York | | Project Manager: | KA |
| Project Name: | Former Darby Drugs Site - Supplemental RI | | Project Number: | AVB0801 |
| Drilling Contractor: | Associated Environmental | | Driller Name: | John |
| Drilling Method: | Direct Push | | Borehole Diameter: | 2.5" |
| Sampling Method: | Macro-Core | | Borehole Depth: | 20' |
| Start Time: | | | Completion Time: | |
| Start Date: | 9/5/2008 | | Completion Date: | 9/5/2008 |

| Depth (ft) | Advance (ft) | Recovery (ft) | Graphic Log | USCS Code | Soil Color | Moisture Content | Soil Description | Notes |
|------------|--------------|---------------|-------------|-----------|---------------|------------------|---|--|
| 0 | 5 | 3.0 | | GM | Brown | Dry | Sand/silt/gravel mix (fill) | PID - 11.1 ppm |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 5 | 5 | 4.0 | | SM | Red/ brown | Dry | Med./fine sand, some silt, trace gravel | PID - 19.1 ppm |
| | | | | | | | | |
| | | | | SW | Tan | Wet | Fine sand, some silt | |
| | | | | | | | | |
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| 10 | 5 | 4.0 | | | | | | PID - 16.8 ppm |
| | | | | | | | | |
| | | | | | | | | |
| | | | | SP | Red/ Brown | Wet | Coarse sand & gravel, little silt | |
| | | | | | | | | |
| | | | | CH | Grey | Wet | Clay | |
| | | | | | | | | |
| 15 | 5 | | | | | | E.O.B. - 15' bgs | |
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| 20 | | | | | | | | Soil samples collected from 5-10' & 10-15' intervals |
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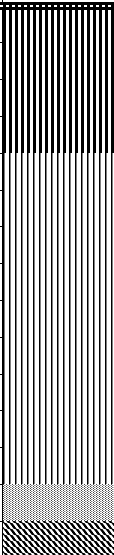
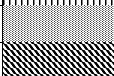
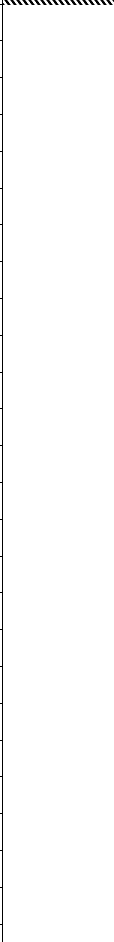
Page 11 of 15




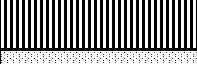




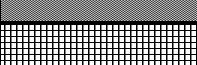
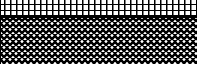


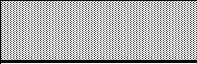


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|----------------------|-----------------|--|---|--------------|---------------|---------------------|---|--|---|--|
| Boring Designation: | | SB-2008-12 | | | | | Logged By: | | TM | |
| Site Address: | | 80 - 100 Banks Ave, Rockville Centre, New York | | | | | Project Manager: | | KA | |
| Project Name: | | Former Darby Drugs Site - Supplemental RI | | | | | Project Number: | | AVB0801 | |
| Drilling Contractor: | | Associated Environmental | | | | | Driller Name: | | John | |
| Drilling Method: | | Direct Push | | | | | Borehole Diameter: | | 2.5" | |
| Sampling Method: | | Macro-Core | | | | | Borehole Depth: | | 20' | |
| Start Time: | | | | | | | Completion Time: | | | |
| Start Date: | | 9/5/2008 | | | | | Completion Date: | | 9/5/2008 | |
| Depth (ft) | Advance (ft) | Recovery (ft) | Graphic Log | USCS Code | Soil Color | Moisture Content | Soil Description | | Notes | |
| 0 | 5 | 3.0 |  | NA | NA | NA | Concrete (0-6') | | PID - 0.0 ppm | |
| | | | | GM | Brown | Dry | Sand/silt/gravel mix (fill) | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| 5 | 5 | 4.0 |  | | | | | | PID - 0.0 ppm | |
| | | | | SM | Red/ brown | Moist | Med./fine sand, some silt, little gravel | | | |
| | | | | | | | | | | |
| | | |  | SW | Tan | Wet | Fine sand, some silt | | | |
| 10 | 5 | 5.0 | | | | | | | PID - 0.0 ppm | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| 15 | 5 | 4.0 |  | CH | Grey | Wet | Clay | | PID - 0.0 ppm | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| 20 | | |  | | | | E.O.B. - 20' bgs | | | |
| | | | | | | | | | Soil samples collected from 5-10' & 10-15' intervals | |
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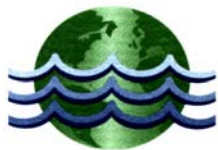
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|-----------------------------|--|--|---------------------------|----------|
| Boring Designation: | SB-2008-13 | | Logged By: | TM |
| Site Address: | 80 - 100 Banks Ave, Rockville Centre, New York | | Project Manager: | KA |
| Project Name: | Former Darby Drugs Site - Supplemental RI | | Project Number: | AVB0801 |
| Drilling Contractor: | Associated Environmental | | Driller Name: | John |
| Drilling Method: | Direct Push | | Borehole Diameter: | 2.5" |
| Sampling Method: | Macro-Core | | Borehole Depth: | 20' |
| Start Time: | | | Completion Time: | |
| Start Date: | 9/4/2008 | | Completion Date: | 9/4/2008 |

| Depth (ft) | Advance (ft) | Recovery (ft) | Graphic Log | USCS Code | Soil Color | Moisture Content | Soil Description | Notes | |
|------------|--------------|---------------|-------------|-----------|------------|------------------|-----------------------------|--|--|
| 0 | 5 | 3.0 | | GM | Brown | Dry | Sand/silt/gravel mix (fill) | PID - 0.0 ppm | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 5 | 5 | 4.0 | | | | Moist | | PID - 0.0 ppm | |
| | | | | | | | | | |
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| | | | | | | | | | |
| | | | | | | | | | |
| | | | | SW | Tan | Wet | Fine sand, some silt | | |
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| | | | | | | | | | |
| | | | | | | | | | |
| 10 | 5 | 3.0 | | | | | | PID - 13.3 ppm | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | CH | Grey | Wet | Clay E.O.B. - 15' bgs | | |
| | | | | | | | | | |
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| | | | | | | | | | |
| | | | | | | | | | |
| 15 | | | | | | | | Soil samples collected from 5-10' & 10-15' intervals | |
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| 20 | | | | | | | | Groundwater sample collected at 9-13' | |
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|----------------------|-----------------|------------------|---|--------------|---------------|---------------------|---------------------------------|---|--|--|
| Boring Designation: | | | SB-2008-14 | | | | Logged By: | | TM | |
| Site Address: | | | 80 - 100 Banks Ave, Rockville Centre, New York | | | | Project Manager: | | KA | |
| Project Name: | | | Former Darby Drugs Site - Supplemental RI | | | | Project Number: | | AVB0801 | |
| Drilling Contractor: | | | Associated Environmental | | | | Driller Name: | | John | |
| Drilling Method: | | | Direct Push | | | | Borehole Diameter: | | 2.5" | |
| Sampling Method: | | | Macro-Core | | | | Borehole Depth: | | 20' | |
| Start Time: | | | | | | | Completion Time: | | | |
| Start Date: | | | 9/4/2008 | | | | Completion Date: | | 9/4/2008 | |
| Depth (ft) | Advance (ft) | Recovery (ft) | Graphic Log | USCS Code | Soil Color | Moisture Content | Soil Description | | Notes | |
| 0 | 5 | 3.0 |  | GM | Brown | Dry | Sand/silt/gravel mix (fill) | PID - 0.0 ppm | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | SM | Red/ brown | Dry | Med./fine sand, some silt, trace gravel | | |
| 5 | 5 | 2.0 | | | | | | | PID - 0.0 ppm | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| 10 | 5 | 3.0 | | | | | | PID - 0.0 ppm | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | |  | SP | Brown | Moist | Coarse sand & gravel, some silt | | | |
| | | | | CH | Grey | Wet | Clay | | | |
| 15 | | |  | | | | E.O.B. - 15' bgs | | | |
| | | | | | | | | | Soil samples collected from 5-10' & 10-15' intervals | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| 20 | | | | | | | | | | |
| | | | | | | | | Groundwater sample collected at 9-13' | | |
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| USCS Code | Pattern | Pattern Name |
|-----------|---|------------------------------|
| CH |  | Reverse Diagonal Stripe |
| CL |  | Thin Reverse Diagonal Stripe |
| GC |  | Diagonal Stripe |
| GM |  | Vertical Stripe |
| GP |  | 12.5% Grey |
| GW |  | 6.25% Grey |
| MH |  | Horizontal Stripe |
| ML |  | Diagonal Crosshatch |
| OH |  | 75% Grey |
| OL |  | Thin Horizontal Crosshatch |
| PT |  | Thick Diagonal Crosshatch |
| SC |  | Thin Diagonal Stripe |
| SM |  | Thin Vertical Stripe |
| SP |  | 50% Grey |
| SW |  | 25% Grey |

APPENDIX D WELL SAMPLING LOGS



P.W. GROSSER CONSULTING, INC.

WELL SAMPLING LOG

CLIENT/PROJECT No. AVB0801

WELL Number MW-1

SAMPLED BY JLL WELL USE Groundwater Monitoring

DATE SAMPLED 10/3/2008 TIME SAMPLED 1220

STATIC WATER ELEVATION 8.52 ft FT. BELOW MEASURING POINT TOC

WELL DIAMETER 2 In Product Elevation N/A ft.

TOTAL WELL DEPTH 18.06 ft FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGE METHOD Whale Pump SAMPLE METHOD Bailer

PURGE RATE 0.44 GPM PURGE TIME 4 Min

CASING VOLUMES REMOVED 1 GALLONS 1.75

SAMPLE APPEARANCE very turbid ODORS OBSERVED none

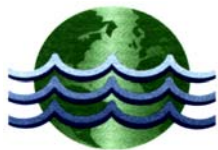
LABORATORY Alpha Analytical DATE SHIPPED 10/6/2008

ANALYSIS TCL VOCs, TCL SVOCs, TAL Metals, Pesticides, PCBs

NOTES Well ran dry

SAMPLING PARAMETERS

| | Initial | 1 | 2 | 3 | 4 | 5 | 6 | Units |
|--------------|---------|------|---|---|---|---|---|-------|
| Conductivity | 280 | 290 | | | | | | uS |
| Temperature | 18.9 | 19.3 | | | | | | °C |
| pH | 8.00 | 7.80 | | | | | | |



P.W. GROSSER CONSULTING, INC.

WELL SAMPLING LOG

CLIENT/PROJECT No. AVB0801

WELL Number MW-2

SAMPLED BY JLL WELL USE Groundwater Monitoring

DATE SAMPLED 10/3/2008 TIME SAMPLED 1025

STATIC WATER ELEVATION 6.57 ft FT. BELOW MEASURING POINT TOC

WELL DIAMETER 2 In Product Elevation N/A ft.

TOTAL WELL DEPTH 18.04 ft FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGE METHOD Whale Pump SAMPLE METHOD Bailer

PURGE RATE 1.44 GPM PURGE TIME 4 Min

CASING VOLUMES REMOVED 3 GALLONS 5.75

SAMPLE APPEARANCE turbid ODORS OBSERVED none

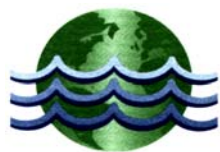
LABORATORY Alpha Analytical DATE SHIPPED 10/6/2008

ANALYSIS TCL VOCs, TCL SVOCs, TAL Metals, Pesticides, PCBs

NOTES _____

SAMPLING PARAMETERS

| | Initial | 1 | 2 | 3 | 4 | 5 | 6 | Units |
|--------------|---------|------|------|------|---|---|---|-------|
| Conductivity | 100 | 70 | 40 | 80 | | | | uS |
| Temperature | 19.3 | 19.2 | 18.9 | 18.8 | | | | °C |
| pH | 8.60 | 8.40 | 8.20 | 8.00 | | | | |



P.W. GROSSER CONSULTING, INC.

WELL SAMPLING LOG

CLIENT/PROJECT No. AVB0801

WELL Number MW-4

SAMPLED BY JLL WELL USE Groundwater Monitoring

DATE SAMPLED 10/3/2008 TIME SAMPLED 1440

STATIC WATER ELEVATION 7.08 ft FT. BELOW MEASURING POINT TOC

WELL DIAMETER 2 In Product Elevation N/A ft.

TOTAL WELL DEPTH 19.39 ft FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGE METHOD Whale Pump SAMPLE METHOD Bailer

PURGE RATE 0.42 GPM PURGE TIME 6 Min

CASING VOLUMES REMOVED 1 GALLONS 2.5

SAMPLE APPEARANCE slightly turbid ODORS OBSERVED none

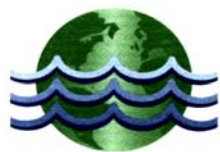
LABORATORY Alpha Analytical DATE SHIPPED 10/6/2008

ANALYSIS TCL VOCs, TCL SVOCs, TAL Metals, Pesticides, PCBs

NOTES Well ran dry

SAMPLING PARAMETERS

| | Initial | 1 | 2 | 3 | 4 | 5 | 6 | Units |
|--------------|---------|------|---|---|---|---|---|-------|
| Conductivity | 290 | 270 | | | | | | uS |
| Temperature | 20.2 | 18.6 | | | | | | °C |
| pH | 8.00 | 7.40 | | | | | | |



P.W. GROSSER CONSULTING, INC.

WELL SAMPLING LOG

CLIENT/PROJECT No. AVB0801

WELL Number MW-5

SAMPLED BY JLL WELL USE Groundwater Monitoring

DATE SAMPLED 10/6/2008 TIME SAMPLED 930

STATIC WATER ELEVATION 6.39 ft FT. BELOW MEASURING POINT TOC

WELL DIAMETER 2 In Product Elevation N/A ft.

TOTAL WELL DEPTH 19.89 ft FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGE METHOD Whale Pump SAMPLE METHOD Bailer

PURGE RATE 0.50 GPM PURGE TIME 4 Min

CASING VOLUMES REMOVED 1 GALLONS 2

SAMPLE APPEARANCE turbid ODORS OBSERVED none

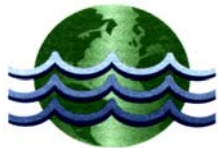
LABORATORY Alpha Analytical DATE SHIPPED 10/6/2008

ANALYSIS TCL VOCs, TCL SVOCs, TAL Metals, Pesticides, PCBs

NOTES Well ran dry

SAMPLING PARAMETERS

| | Initial | 1 | 2 | 3 | 4 | 5 | 6 | Units |
|--------------|---------|------|---|---|---|---|---|-------|
| Conductivity | 330 | 230 | | | | | | uS |
| Temperature | 15.8 | 16.6 | | | | | | °C |
| pH | 7.80 | 7.40 | | | | | | |



P.W. GROSSER CONSULTING, INC.

WELL SAMPLING LOG

CLIENT/PROJECT No. AVB0801

WELL Number MW-6

SAMPLED BY JLL WELL USE Groundwater Monitoring

DATE SAMPLED 10/6/2008 TIME SAMPLED 1050

STATIC WATER ELEVATION 5.51 ft FT. BELOW MEASURING POINT TOC

WELL DIAMETER 2 In Product Elevation N/A ft.

TOTAL WELL DEPTH 19.40 ft FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGE METHOD Whale Pump SAMPLE METHOD Bailer

PURGE RATE 0.42 GPM PURGE TIME 6 Min

CASING VOLUMES REMOVED 1 GALLONS 2.5

SAMPLE APPEARANCE turbid ODORS OBSERVED none

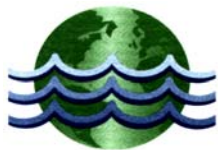
LABORATORY Alpha Analytical DATE SHIPPED 10/6/2008

ANALYSIS TCL VOCs, TCL SVOCs, TAL Metals, Pesticides, PCBs

NOTES Well ran dry

SAMPLING PARAMETERS

| | Initial | 1 | 2 | 3 | 4 | 5 | 6 | Units |
|--------------|---------|------|---|---|---|---|---|-------|
| Conductivity | 180 | 130 | | | | | | uS |
| Temperature | 16.2 | 17.3 | | | | | | °C |
| pH | 7.40 | 7.10 | | | | | | |



P.W. GROSSER CONSULTING, INC.

WELL SAMPLING LOG

CLIENT/PROJECT No. AVB0801

WELL Number DiffW-01

SAMPLED BY JLL WELL USE Suspected Diffusion Well

DATE SAMPLED 10/6/2008 TIME SAMPLED 1145

STATIC WATER ELEVATION 6.78 ft FT. BELOW MEASURING POINT TOC

WELL DIAMETER 4 In Product Elevation N/A ft.

TOTAL WELL DEPTH 19.82 ft FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGE METHOD Whale Pump SAMPLE METHOD Bailer

PURGE RATE 1.08 GPM PURGE TIME 24 Min

CASING VOLUMES REMOVED 3 GALLONS 26

SAMPLE APPEARANCE slightly turbid ODORS OBSERVED none

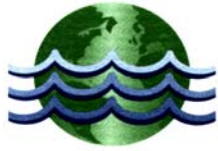
LABORATORY Alpha Analytical DATE SHIPPED 10/6/2008

ANALYSIS TCL VOCs, TCL SVOCs, TAL Metals, Pesticides, PCBs

NOTES _____

SAMPLING PARAMETERS

| | Initial | 1 | 2 | 3 | 4 | 5 | 6 | Units |
|--------------|---------|------|------|------|---|---|---|-------|
| Conductivity | 120 | 120 | 130 | 330 | | | | uS |
| Temperature | 16.5 | 16.4 | 15.2 | 14.2 | | | | °C |
| pH | 7.60 | 7.60 | 7.60 | 7.40 | | | | |



P.W. GROSSER CONSULTING, INC.

WELL SAMPLING LOG

CLIENT/PROJECT No. AVB0801

WELL Number DiffW-02

SAMPLED BY JLL WELL USE Suspected Diffusion Well

DATE SAMPLED 10/6/2008 TIME SAMPLED 1305

STATIC WATER ELEVATION 5.73 ft FT. BELOW MEASURING POINT TOC

WELL DIAMETER 4 In Product Elevation N/A ft.

TOTAL WELL DEPTH 25.40 ft FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGE METHOD Whale Pump SAMPLE METHOD Bailer

PURGE RATE 0.38 GPM PURGE TIME 24 Min

CASING VOLUMES REMOVED 1 GALLONS 9

SAMPLE APPEARANCE clear ODORS OBSERVED none

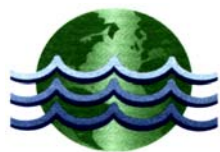
LABORATORY Alpha Analytical DATE SHIPPED 10/6/2008

ANALYSIS TCL VOCs, TCL SVOCs, TAL Metals, Pesticides, PCBs

NOTES Well ran dry. Temperature / Conductivity meter malfunctioned.

SAMPLING PARAMETERS

| | Initial | 1 | 2 | 3 | 4 | 5 | 6 | Units |
|--------------|---------|------|---|---|---|---|---|-------|
| Conductivity | | | | | | | | uS |
| Temperature | | | | | | | | °C |
| pH | 7.90 | 8.20 | | | | | | |



P.W. GROSSER CONSULTING, INC.

WELL SAMPLING LOG

CLIENT/PROJECT No. AVB0801

WELL Number DiffW-03

SAMPLED BY JLL WELL USE Suspected Diffusion Well

DATE SAMPLED 10/6/2008 TIME SAMPLED 1320

STATIC WATER ELEVATION 6.34 ft FT. BELOW MEASURING POINT TOC

WELL DIAMETER 1 In Product Elevation N/A ft.

TOTAL WELL DEPTH 25.11 ft FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGE METHOD Whale Pump SAMPLE METHOD Bailer

PURGE RATE 0.14 GPM PURGE TIME 7 Min

CASING VOLUMES REMOVED 1 GALLONS 1

SAMPLE APPEARANCE slightly turbid ODORS OBSERVED none

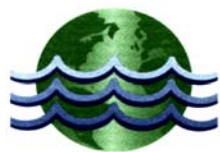
LABORATORY Alpha Analytical DATE SHIPPED 10/6/2008

ANALYSIS TCL VOCs, TCL SVOCs, TAL Metals, Pesticides, PCBs

NOTES Well ran dry. Temperature / Conductivity meter malfunctioned.

SAMPLING PARAMETERS

| | Initial | 1 | 2 | 3 | 4 | 5 | 6 | Units |
|--------------|---------|------|---|---|---|---|---|-------|
| Conductivity | | | | | | | | uS |
| Temperature | | | | | | | | °C |
| pH | 8.70 | 8.70 | | | | | | |



P.W. GROSSER CONSULTING, INC.

WELL SAMPLING LOG

CLIENT/PROJECT No. AVB0801

WELL Number DiffW-04

SAMPLED BY JLL WELL USE Suspected Diffusion Well

DATE SAMPLED 10/8/2008 TIME SAMPLED 1245

STATIC WATER ELEVATION 7.40 ft FT. BELOW MEASURING POINT TOC

WELL DIAMETER 4 In Product Elevation N/A ft.

TOTAL WELL DEPTH 47.00 ft FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGE METHOD Whale pump SAMPLE METHOD Bailer

PURGE RATE 0.83 GPM PURGE TIME 96 Min

CASING VOLUMES REMOVED 3 GALLONS 80

SAMPLE APPEARANCE clear ODORS OBSERVED None

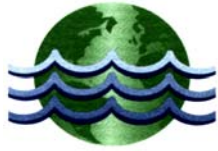
LABORATORY Alpha Analytical DATE SHIPPED 10/8/2008

ANALYSIS TCL VOCs, TCL SVOCs, TAL Metals, Pesticides, PCBs

NOTES _____

SAMPLING PARAMETERS

| | Initial | 1 | 2 | 3 | 4 | 5 | 6 | Units |
|--------------|---------|------|-------|-------|---|---|---|-------|
| Conductivity | 102.3 | 99.6 | 102.5 | 102.4 | | | | uS |
| Temperature | 17.2 | 17.0 | 16.5 | 16.3 | | | | °C |
| pH | 7.03 | 6.80 | 6.62 | 6.62 | | | | |



P.W. GROSSER CONSULTING, INC.

WELL SAMPLING LOG

CLIENT/PROJECT No. AVB0801

WELL Number SW-01

SAMPLED BY JLL WELL USE Suspected Supply Well

DATE SAMPLED 10/7/2008 TIME SAMPLED 1510

STATIC WATER ELEVATION 3.80 ft FT. BELOW MEASURING POINT TOC

WELL DIAMETER 8 In Product Elevation N/A ft.

TOTAL WELL DEPTH 43.30 ft FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGE METHOD Grunfos SAMPLE METHOD Bailer

PURGE RATE 0.71 GPM PURGE TIME 197 Min

CASING VOLUMES REMOVED 3 GALLONS 140

SAMPLE APPEARANCE clear ODORS OBSERVED None

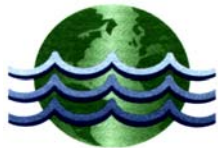
LABORATORY Alpha Analytical DATE SHIPPED 10/8/2008

ANALYSIS TCL VOCs, TCL SVOCs, TAL Metals, Pesticides, PCBs

NOTES Temperature / Conductivity meter malfunctioned

SAMPLING PARAMETERS

| | Initial | 1 | 2 | 3 | 4 | 5 | 6 | Units |
|--------------|---------|------|------|------|---|---|---|-------|
| Conductivity | | | | | | | | uS |
| Temperature | | | | | | | | °C |
| pH | 7.40 | 7.60 | 7.10 | 7..3 | | | | |



P.W. GROSSER CONSULTING, INC.

WELL SAMPLING LOG

CLIENT/PROJECT No. AVB0801

WELL Number SW-02

SAMPLED BY JLL WELL USE Suspected Supply Well

DATE SAMPLED 10/8/2008 TIME SAMPLED 1305

STATIC WATER ELEVATION 4.20 ft FT. BELOW MEASURING POINT TOC

WELL DIAMETER 8 In Product Elevation N/A ft.

TOTAL WELL DEPTH 40.04 ft FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGE METHOD Grunfos SAMPLE METHOD Bailer

PURGE RATE 1.53 GPM PURGE TIME 101 Min

CASING VOLUMES REMOVED 3 GALLONS 155

SAMPLE APPEARANCE clear ODORS OBSERVED None

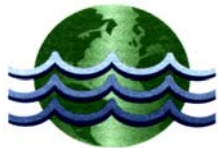
LABORATORY Alpha Analytical DATE SHIPPED 10/8/2008

ANALYSIS TCL VOCs, TCL SVOCs, TAL Metals, Pesticides, PCBs

NOTES _____

SAMPLING PARAMETERS

| | Initial | 1 | 2 | 3 | 4 | 5 | 6 | Units |
|--------------|---------|------|------|------|---|---|---|-------|
| Conductivity | 105.9 | 68 | 99.1 | 97.6 | | | | uS |
| Temperature | 16.5 | 16.9 | 17.5 | 17.0 | | | | °C |
| pH | 7.83 | 7.03 | 6.96 | 6.77 | | | | |



P.W. GROSSER CONSULTING, INC.

WELL SAMPLING LOG

CLIENT/PROJECT No. AVB0801

WELL Number SW-03

SAMPLED BY JLL WELL USE Suspected Supply Well

DATE SAMPLED 10/8/2008 TIME SAMPLED 1410

STATIC WATER ELEVATION 3.74 ft FT. BELOW MEASURING POINT TOC

WELL DIAMETER 8 In Product Elevation N/A ft.

TOTAL WELL DEPTH 41.64 ft FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGE METHOD Grunfos SAMPLE METHOD Bailer

PURGE RATE 1.43 GPM PURGE TIME 115 Min

CASING VOLUMES REMOVED 3 GALLONS 165

SAMPLE APPEARANCE clear ODORS OBSERVED None

LABORATORY Alpha Analytical DATE SHIPPED 10/8/2008

ANALYSIS TCL VOCs, TCL SVOCs, TAL Metals, Pesticides, PCBs

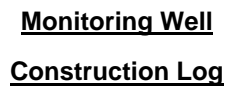
NOTES _____

SAMPLING PARAMETERS

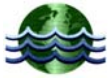
| | Initial | 1 | 2 | 3 | 4 | 5 | 6 | Units |
|--------------|---------|-------|-------|------|---|---|---|-------|
| Conductivity | 95.8 | 113.5 | 120.2 | 94.5 | | | | uS |
| Temperature | 16.6 | 18.5 | 18.3 | 18.7 | | | | °C |
| pH | 6.79 | 6.69 | 6.70 | 6.73 | | | | |

APPENDIX E

WELL CONSTRUCTION LOGS



Note: Drawing is not to scale.
Depths are given in feet below land surface.

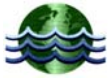


Monitoring Well

Construction Log

| Monitoring Well Construction Log | |
|--|--|
| <p>Protective Casing <input checked="" type="checkbox"/> Flush Mount <input type="checkbox"/> Pop-up</p> <p>Measuring Points</p> <p>Land Surface</p> <p>5 ft. Backfill</p> <p>Well Casing Material <u>PVC</u></p> <p>Inch Diam. <u>2</u></p> <p>Borehole Diameter Inch Diam. <u>4.25</u></p> <p>23 ft. Bentonite Grout</p> <p>28 ft. Bentonite Pellet Seal</p> <p>Sand Seal Grain Size <u>#2 Sand</u></p> <p>33.5 ft. Screen</p> <p>Well Screen Material <u>PVC</u></p> <p>Slot Size <u>0.01</u></p> <p>Inch Diam. <u>2</u></p> <p>43.5 ft. Sump</p> <p>44.5 ft. Sump</p> <p>44.5 ft. Sump</p> | <p>Well No. <u>MW-8</u></p> <p>Project <u>AVB0801</u></p> <p>Surveyor _____</p> <p>Measuring Point Elevation _____</p> <p>Installation Date <u>8/6/2009</u></p> <p>Drilling Contractor <u>Longshore Environmental</u></p> <p>Drilling Method <u>Hollow Stem Auger 4.25' ID</u></p> <p>Drilling Fluid <u>Water</u></p> <p>Development Technique (s) and Date (s) <u>Overpurge (8-11-09)</u></p> <p>Fluid Loss During Drilling <u>0</u> Gallons</p> <p>Water Removed During Development <u>20</u> Gallons</p> <p>Static Depth to Water/Product <u>N/A</u></p> <p>Pumping Depth to Water <u>N/A</u></p> <p>Pumping Duration <u>1.16 hours</u></p> <p>Well Purpose <u>Monitoring</u></p> <p>Hydrogeologist <u>Brian Barth</u></p> <p>Company Name <u>P.W. Grosser Consulting Inc.</u></p> <p>Notes</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> |

Note: Drawing is not to scale.
Depths are given in feet below land surface.



Monitoring Well

Construction Log

| Monitoring Well Construction Log | |
|---|--|
| <p>Protective Casing <input checked="" type="checkbox"/> Flush Mount <input type="checkbox"/> Pop-up</p> <p>Measuring Points</p> <p>Land Surface</p> <p>5 ft. Backfill</p> <p>Well Casing Material <u>PVC</u></p> <p>Inch Diam. <u>2</u></p> <p>Borehole Diameter Inch Diam. <u>4.25</u></p> <p>28 ft. Bentonite Grout</p> <p>31 ft. Bentonite Pellet Seal</p> <p>Sand Seal Grain Size <u>#2 Sand</u></p> <p>35 ft. Screen</p> <p>Well Screen Material <u>PVC</u></p> <p>Slot Size <u>0.01</u></p> <p>Inch Diam. <u>2</u></p> <p>45 ft. Sump</p> <p>46 ft.</p> <p>ft.</p> | <p>Well No. <u>MW-9</u></p> <p>Project <u>AVB0801</u></p> <p>Surveyor _____</p> <p>Measuring Point Elevation _____</p> <p>Installation Date <u>8/7/2009</u></p> <p>Drilling Contractor <u>Longshore Environmental</u></p> <p>Drilling Method <u>Hollow Stem Auger 4.25' ID</u></p> <p>Drilling Fluid <u>Water</u></p> <p>Development Technique (s) and Date (s) <u>Overpurge (8-11-09)</u></p> <p>Fluid Loss During Drilling _____ Gallons</p> <p>Water Removed During Development <u>15</u> Gallons</p> <p>Static Depth to Water/Product <u>N/A</u></p> <p>Pumping Depth to Water <u>N/A</u></p> <p>Pumping Duration <u>1.25 hours</u></p> <p>Well Purpose <u>Monitoring</u></p> <p>Hydrogeologist <u>Brian Barth</u></p> <p>Company Name <u>P.W. Grosser Consulting Inc.</u></p> <p>Notes</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> |

Note: Drawing is not to scale.
Depths are given in feet below land surface.

APPENDIX F

LABORATORY ANALYTICAL REPORTS

ALPHA ANALYTICAL

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220 www.alphalab.com

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: P.W. Grosser

Laboratory Job Number: L0812845

Address: 630 Johnson Avenue
Suite 7
Bohemia, NY 11716

Date Received: 29-AUG-2008

Date Reported: 05-SEP-2008

Attn: Mr. Kris Almskog

Delivery Method: Alpha

Project Number: AVB0801

Site:

| ALPHA SAMPLE NUMBER | CLIENT IDENTIFICATION | SAMPLE LOCATION |
|---------------------|--------------------------|--------------------------------|
| L0812845-01 | PWG-VP-2008-04 (16-20') | 80-100 BANKS AVE., ROCKVILLE C |
| L0812845-02 | PWG-VP-2008-04 (36-40') | 80-100 BANKS AVE., ROCKVILLE C |
| L0812845-03 | PWG-VP-2008-04 (56-60') | 80-100 BANKS AVE., ROCKVILLE C |
| L0812845-04 | PWG-VP-2008-04 (76-80') | 80-100 BANKS AVE., ROCKVILLE C |
| L0812845-05 | PWG-VP-2008-04 (96-100') | 80-100 BANKS AVE., ROCKVILLE C |
| L0812845-06 | PWG-VP-2008-03 (16-20') | 80-100 BANKS AVE., ROCKVILLE C |
| L0812845-07 | PWG-VP-2008-03 (36-40') | 80-100 BANKS AVE., ROCKVILLE C |
| L0812845-08 | PWG-VP-2008-03 (56-60') | 80-100 BANKS AVE., ROCKVILLE C |
| L0812845-09 | TB-01 | 80-100 BANKS AVE., ROCKVILLE C |
| L0812845-10 | FB-01 | 80-100 BANKS AVE., ROCKVILLE C |
| L0812845-11 | PWG-VP-2008-03 (76-80') | 80-100 BANKS AVE., ROCKVILLE C |

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: _____

Technical Representative

ALPHA ANALYTICAL
NARRATIVE REPORT

Laboratory Job Number: L0812845

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

Volatile Organics

L0812845-08 required re-analysis on a 4x dilution in order to quantitate the sample within the calibration range. The result is reported as a "greater than" value for the compound that exceeded the calibration on the initial analysis. The re-analysis was performed only for the compound which exceeded the calibration range.

L0812845-08, -11: The concentrations of Isopropylbenzene should be considered estimated because the %D for this analyte was outside method acceptance criteria in the associated CCAL (34%).

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0812845-01 | Date Collected: 26-AUG-2008 10:45 |
| PWG-VP-2008-04 (16-20') | Date Received : 29-AUG-2008 |
| Sample Matrix: WATER | Date Reported : 05-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 2-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-------------------|----|
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0904 17:33 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | |
| Chloroform | ND | ug/l | 0.75 | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | |
| Tetrachloroethene | ND | ug/l | 0.50 | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | |
| Bromoform | ND | ug/l | 2.0 | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Benzene | ND | ug/l | 0.50 | | | |
| Toluene | ND | ug/l | 0.75 | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | |
| Chloromethane | ND | ug/l | 2.5 | | | |
| Bromomethane | ND | ug/l | 1.0 | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | |
| Chloroethane | ND | ug/l | 1.0 | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | |
| Trichloroethene | ND | ug/l | 0.50 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| Methyl tert butyl ether | ND | ug/l | 1.0 | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | |
| o-Xylene | ND | ug/l | 1.0 | | | |
| cis-1,2-Dichloroethene | ND | ug/l | 0.50 | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0812845-01
PWG-VP-2008-04 (16-20')

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0904 17:33 PD | | |
| Styrene | ND | ug/l | 1.0 | | | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | | | |
| Acetone | ND | ug/l | 5.0 | | | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | | | |
| 2-Butanone | ND | ug/l | 5.0 | | | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | | | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | | | |
| Naphthalene | ND | ug/l | 2.5 | | | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 1,2-Dichloroethane-d4 | 108 | % | 70-130 | | | | | |
| Toluene-d8 | 99.0 | % | 70-130 | | | | | |
| 4-Bromofluorobenzene | 101 | % | 70-130 | | | | | |
| Dibromofluoromethane | 101 | % | 70-130 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0812845-02 | Date Collected: 26-AUG-2008 11:30 |
| PWG-VP-2008-04 (36-40') | Date Received : 29-AUG-2008 |
| Sample Matrix: WATER | Date Reported : 05-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 6-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-------------------|----|
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0904 18:11 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | |
| Chloroform | ND | ug/l | 0.75 | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | |
| Tetrachloroethene | ND | ug/l | 0.50 | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | |
| Bromoform | ND | ug/l | 2.0 | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Benzene | ND | ug/l | 0.50 | | | |
| Toluene | ND | ug/l | 0.75 | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | |
| Chloromethane | ND | ug/l | 2.5 | | | |
| Bromomethane | ND | ug/l | 1.0 | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | |
| Chloroethane | ND | ug/l | 1.0 | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | |
| Trichloroethene | ND | ug/l | 0.50 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| Methyl tert butyl ether | ND | ug/l | 1.0 | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | |
| o-Xylene | ND | ug/l | 1.0 | | | |
| cis-1,2-Dichloroethene | ND | ug/l | 0.50 | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0812845-02
PWG-VP-2008-04 (36-40')

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0904 18:11 PD | | |
| Styrene | ND | ug/l | 1.0 | | | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | | | |
| Acetone | ND | ug/l | 5.0 | | | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | | | |
| 2-Butanone | ND | ug/l | 5.0 | | | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | | | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | | | |
| Naphthalene | ND | ug/l | 2.5 | | | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 1,2-Dichloroethane-d4 | 106 | % | 70-130 | | | | | |
| Toluene-d8 | 100 | % | 70-130 | | | | | |
| 4-Bromofluorobenzene | 100 | % | 70-130 | | | | | |
| Dibromofluoromethane | 99.0 | % | 70-130 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0812845-03 | Date Collected: 26-AUG-2008 15:00 |
| PWG-VP-2008-04 (56-60') | Date Received : 29-AUG-2008 |
| Sample Matrix: WATER | Date Reported : 05-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 2-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-------------------|----|
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0904 20:06 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | |
| Chloroform | ND | ug/l | 0.75 | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | |
| Tetrachloroethene | ND | ug/l | 0.50 | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | |
| Bromoform | ND | ug/l | 2.0 | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Benzene | ND | ug/l | 0.50 | | | |
| Toluene | ND | ug/l | 0.75 | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | |
| Chloromethane | ND | ug/l | 2.5 | | | |
| Bromomethane | ND | ug/l | 1.0 | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | |
| Chloroethane | ND | ug/l | 1.0 | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | |
| Trichloroethene | ND | ug/l | 0.50 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| Methyl tert butyl ether | ND | ug/l | 1.0 | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | |
| o-Xylene | ND | ug/l | 1.0 | | | |
| cis-1,2-Dichloroethene | ND | ug/l | 0.50 | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0812845-03
PWG-VP-2008-04 (56-60')

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0904 20:06 PD | | |
| Styrene | ND | ug/l | 1.0 | | | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | | | |
| Acetone | 8.9 | ug/l | 5.0 | | | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | | | |
| 2-Butanone | ND | ug/l | 5.0 | | | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | | | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | | | |
| Naphthalene | ND | ug/l | 2.5 | | | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 1,2-Dichloroethane-d4 | 103 | % | 70-130 | | | | | |
| Toluene-d8 | 99.0 | % | 70-130 | | | | | |
| 4-Bromofluorobenzene | 101 | % | 70-130 | | | | | |
| Dibromofluoromethane | 99.0 | % | 70-130 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0812845-04 | Date Collected: 26-AUG-2008 16:15 |
| PWG-VP-2008-04 (76-80') | Date Received : 29-AUG-2008 |
| Sample Matrix: WATER | Date Reported : 05-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 2-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-------------------|----|
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0904 20:44 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | |
| Chloroform | ND | ug/l | 0.75 | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | |
| Tetrachloroethene | ND | ug/l | 0.50 | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | |
| Bromoform | ND | ug/l | 2.0 | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Benzene | ND | ug/l | 0.50 | | | |
| Toluene | ND | ug/l | 0.75 | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | |
| Chloromethane | ND | ug/l | 2.5 | | | |
| Bromomethane | ND | ug/l | 1.0 | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | |
| Chloroethane | ND | ug/l | 1.0 | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | |
| Trichloroethene | ND | ug/l | 0.50 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| Methyl tert butyl ether | ND | ug/l | 1.0 | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | |
| o-Xylene | ND | ug/l | 1.0 | | | |
| cis-1,2-Dichloroethene | ND | ug/l | 0.50 | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0812845-04
PWG-VP-2008-04 (76-80')

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0904 20:44 PD | | |
| Styrene | ND | ug/l | 1.0 | | | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | | | |
| Acetone | ND | ug/l | 5.0 | | | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | | | |
| 2-Butanone | ND | ug/l | 5.0 | | | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | | | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | | | |
| Naphthalene | ND | ug/l | 2.5 | | | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 1,2-Dichloroethane-d4 | 105 | % | 70-130 | | | | | |
| Toluene-d8 | 99.0 | % | 70-130 | | | | | |
| 4-Bromofluorobenzene | 100 | % | 70-130 | | | | | |
| Dibromofluoromethane | 101 | % | 70-130 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0812845-05 | Date Collected: 27-AUG-2008 11:20 |
| PWG-VP-2008-04 (96-100') | Date Received : 29-AUG-2008 |
| Sample Matrix: WATER | Date Reported : 05-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 2-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-------------------|----|
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0904 21:22 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | |
| Chloroform | ND | ug/l | 0.75 | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | |
| Tetrachloroethene | ND | ug/l | 0.50 | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | |
| Bromoform | ND | ug/l | 2.0 | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Benzene | 0.56 | ug/l | 0.50 | | | |
| Toluene | 1.3 | ug/l | 0.75 | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | |
| Chloromethane | ND | ug/l | 2.5 | | | |
| Bromomethane | ND | ug/l | 1.0 | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | |
| Chloroethane | ND | ug/l | 1.0 | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | |
| Trichloroethene | ND | ug/l | 0.50 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| Methyl tert butyl ether | ND | ug/l | 1.0 | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | |
| o-Xylene | ND | ug/l | 1.0 | | | |
| cis-1,2-Dichloroethene | ND | ug/l | 0.50 | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0812845-05
PWG-VP-2008-04 (96-100')

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0904 21:22 PD | | |
| Styrene | ND | ug/l | 1.0 | | | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | | | |
| Acetone | 49 | ug/l | 5.0 | | | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | | | |
| 2-Butanone | 18 | ug/l | 5.0 | | | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | | | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | | | |
| Naphthalene | ND | ug/l | 2.5 | | | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 1,2-Dichloroethane-d4 | 105 | % | 70-130 | | | | | |
| Toluene-d8 | 100 | % | 70-130 | | | | | |
| 4-Bromofluorobenzene | 101 | % | 70-130 | | | | | |
| Dibromofluoromethane | 99.0 | % | 70-130 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0812845-06 | Date Collected: 27-AUG-2008 13:20 |
| PWG-VP-2008-03 (16-20') | Date Received : 29-AUG-2008 |
| Sample Matrix: WATER | Date Reported : 05-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 2-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-------------------|----|
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0904 22:00 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | |
| Chloroform | ND | ug/l | 0.75 | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | |
| Tetrachloroethene | 28 | ug/l | 0.50 | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | |
| Bromoform | ND | ug/l | 2.0 | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Benzene | ND | ug/l | 0.50 | | | |
| Toluene | ND | ug/l | 0.75 | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | |
| Chloromethane | ND | ug/l | 2.5 | | | |
| Bromomethane | ND | ug/l | 1.0 | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | |
| Chloroethane | ND | ug/l | 1.0 | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | |
| Trichloroethene | 1.2 | ug/l | 0.50 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| Methyl tert butyl ether | ND | ug/l | 1.0 | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | |
| o-Xylene | ND | ug/l | 1.0 | | | |
| cis-1,2-Dichloroethene | 13 | ug/l | 0.50 | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0812845-06
PWG-VP-2008-03 (16-20')

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0904 22:00 PD | | |
| Styrene | ND | ug/l | 1.0 | | | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | | | |
| Acetone | 26 | ug/l | 5.0 | | | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | | | |
| 2-Butanone | 6.4 | ug/l | 5.0 | | | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | | | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | | | |
| Naphthalene | ND | ug/l | 2.5 | | | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 1,2-Dichloroethane-d4 | 104 | % | 70-130 | | | | | |
| Toluene-d8 | 99.0 | % | 70-130 | | | | | |
| 4-Bromofluorobenzene | 102 | % | 70-130 | | | | | |
| Dibromofluoromethane | 99.0 | % | 70-130 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0812845-07 | Date Collected: 27-AUG-2008 13:50 |
| PWG-VP-2008-03 (36-40') | Date Received : 29-AUG-2008 |
| Sample Matrix: WATER | Date Reported : 05-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 2-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-------------------|----|
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0904 22:37 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | |
| Chloroform | ND | ug/l | 0.75 | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | |
| Tetrachloroethene | 24 | ug/l | 0.50 | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | |
| Bromoform | ND | ug/l | 2.0 | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Benzene | ND | ug/l | 0.50 | | | |
| Toluene | ND | ug/l | 0.75 | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | |
| Chloromethane | ND | ug/l | 2.5 | | | |
| Bromomethane | ND | ug/l | 1.0 | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | |
| Chloroethane | ND | ug/l | 1.0 | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | |
| Trichloroethene | ND | ug/l | 0.50 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| Methyl tert butyl ether | ND | ug/l | 1.0 | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | |
| o-Xylene | ND | ug/l | 1.0 | | | |
| cis-1,2-Dichloroethene | 0.62 | ug/l | 0.50 | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0812845-07
PWG-VP-2008-03 (36-40')

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0904 22:37 PD | | |
| Styrene | ND | ug/l | 1.0 | | | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | | | |
| Acetone | ND | ug/l | 5.0 | | | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | | | |
| 2-Butanone | ND | ug/l | 5.0 | | | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| sec-Butylbenzene | 1.3 | ug/l | 0.50 | | | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | | | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | | | |
| Naphthalene | ND | ug/l | 2.5 | | | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 1,2-Dichloroethane-d4 | 104 | % | 70-130 | | | | | |
| Toluene-d8 | 99.0 | % | 70-130 | | | | | |
| 4-Bromofluorobenzene | 100 | % | 70-130 | | | | | |
| Dibromofluoromethane | 99.0 | % | 70-130 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0812845-08 | Date Collected: 27-AUG-2008 15:00 |
| PWG-VP-2008-03 (56-60') | Date Received : 29-AUG-2008 |
| Sample Matrix: WATER | Date Reported : 05-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 2-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-------------------|----|
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0904 23:15 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | |
| Chloroform | ND | ug/l | 0.75 | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | |
| Tetrachloroethene | >100 | ug/l | .5 | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | |
| Bromoform | ND | ug/l | 2.0 | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Benzene | 0.69 | ug/l | 0.50 | | | |
| Toluene | 1.0 | ug/l | 0.75 | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | |
| Chloromethane | ND | ug/l | 2.5 | | | |
| Bromomethane | ND | ug/l | 1.0 | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | |
| Chloroethane | ND | ug/l | 1.0 | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | |
| Trichloroethene | 2.6 | ug/l | 0.50 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| Methyl tert butyl ether | 5.5 | ug/l | 1.0 | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | |
| o-Xylene | ND | ug/l | 1.0 | | | |
| cis-1,2-Dichloroethene | 8.3 | ug/l | 0.50 | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0812845-08
PWG-VP-2008-03 (56-60')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|-------------------|----|
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0904 23:15 PD | |
| Styrene | ND | ug/l | 1.0 | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | |
| Acetone | ND | ug/l | 5.0 | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | |
| 2-Butanone | ND | ug/l | 5.0 | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | |
| Isopropylbenzene | 0.88 | ug/l | 0.50 | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | |
| Naphthalene | ND | ug/l | 2.5 | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 102 | % | 70-130 | | | |
| Toluene-d8 | 99.0 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 100 | % | 70-130 | | | |
| Dibromofluoromethane | 100 | % | 70-130 | | | |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0905 10:11 PD | |
| Tetrachloroethene | 91 | ug/l | 2.0 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 107 | % | 70-130 | | | |
| Toluene-d8 | 99.0 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 100 | % | 70-130 | | | |
| Dibromofluoromethane | 102 | % | 70-130 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|---------------------------------------|-----------------------------------|
| Laboratory Sample Number: L0812845-09 | Date Collected: 21-AUG-2008 12:00 |
| TB-01 | Date Received : 29-AUG-2008 |
| Sample Matrix: WATER | Date Reported : 05-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 2-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-------------------|----|
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0904 23:52 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | |
| Chloroform | ND | ug/l | 0.75 | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | |
| Tetrachloroethene | ND | ug/l | 0.50 | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | |
| Bromoform | ND | ug/l | 2.0 | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Benzene | ND | ug/l | 0.50 | | | |
| Toluene | ND | ug/l | 0.75 | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | |
| Chloromethane | ND | ug/l | 2.5 | | | |
| Bromomethane | ND | ug/l | 1.0 | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | |
| Chloroethane | ND | ug/l | 1.0 | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | |
| Trichloroethene | ND | ug/l | 0.50 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| Methyl tert butyl ether | ND | ug/l | 1.0 | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | |
| o-Xylene | ND | ug/l | 1.0 | | | |
| cis-1,2-Dichloroethene | ND | ug/l | 0.50 | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0812845-09
TB-01

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0904 23:52 PD | | |
| Styrene | ND | ug/l | 1.0 | | | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | | | |
| Acetone | ND | ug/l | 5.0 | | | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | | | |
| 2-Butanone | ND | ug/l | 5.0 | | | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | | | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | | | |
| Naphthalene | ND | ug/l | 2.5 | | | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 1,2-Dichloroethane-d4 | 103 | % | 70-130 | | | | | |
| Toluene-d8 | 98.0 | % | 70-130 | | | | | |
| 4-Bromofluorobenzene | 102 | % | 70-130 | | | | | |
| Dibromofluoromethane | 97.0 | % | 70-130 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|---------------------------------------|-----------------------------------|
| Laboratory Sample Number: L0812845-10 | Date Collected: 26-AUG-2008 10:30 |
| FB-01 | Date Received : 29-AUG-2008 |
| Sample Matrix: WATER | Date Reported : 05-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 2-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|--------------------------------|--------|-------|------|------------|-------|---------------|----|
| | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B | | | | 1 | 8260B | 0905 00:29 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | | |
| Chloroform | ND | ug/l | 0.75 | | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | | |
| Tetrachloroethene | ND | ug/l | 0.50 | | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | | |
| Bromoform | ND | ug/l | 2.0 | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | |
| Benzene | ND | ug/l | 0.50 | | | | |
| Toluene | ND | ug/l | 0.75 | | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | | |
| Chloromethane | ND | ug/l | 2.5 | | | | |
| Bromomethane | ND | ug/l | 1.0 | | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | | |
| Chloroethane | ND | ug/l | 1.0 | | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | | |
| Trichloroethene | ND | ug/l | 0.50 | | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | | |
| Methyl tert butyl ether | ND | ug/l | 1.0 | | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | | |
| o-Xylene | ND | ug/l | 1.0 | | | | |
| cis-1,2-Dichloroethene | ND | ug/l | 0.50 | | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0812845-10
FB-01

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0905 00:29 PD | | |
| Styrene | ND | ug/l | 1.0 | | | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | | | |
| Acetone | ND | ug/l | 5.0 | | | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | | | |
| 2-Butanone | ND | ug/l | 5.0 | | | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | | | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | | | |
| Naphthalene | ND | ug/l | 2.5 | | | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 1,2-Dichloroethane-d4 | 104 | % | 70-130 | | | | | |
| Toluene-d8 | 99.0 | % | 70-130 | | | | | |
| 4-Bromofluorobenzene | 99.0 | % | 70-130 | | | | | |
| Dibromofluoromethane | 100 | % | 70-130 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | | | |
|-------------------------------------|-------------------------|-----------------|-------------------|
| Laboratory Sample Number: | L0812845-11 | Date Collected: | 27-AUG-2008 17:05 |
| | PWG-VP-2008-03 (76-80') | Date Received : | 29-AUG-2008 |
| Sample Matrix: | WATER | Date Reported : | 05-SEP-2008 |
| Condition of Sample: | Satisfactory | Field Prep: | None |
| Number & Type of Containers: 2-Vial | | | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-------------------|----|
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0905 01:06 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | |
| Chloroform | ND | ug/l | 0.75 | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | |
| Tetrachloroethene | 21 | ug/l | 0.50 | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | |
| Bromoform | ND | ug/l | 2.0 | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Benzene | ND | ug/l | 0.50 | | | |
| Toluene | ND | ug/l | 0.75 | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | |
| Chloromethane | ND | ug/l | 2.5 | | | |
| Bromomethane | ND | ug/l | 1.0 | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | |
| Chloroethane | ND | ug/l | 1.0 | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | |
| Trichloroethene | ND | ug/l | 0.50 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| Methyl tert butyl ether | ND | ug/l | 1.0 | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | |
| o-Xylene | ND | ug/l | 1.0 | | | |
| cis-1,2-Dichloroethene | 1.2 | ug/l | 0.50 | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0812845-11
PWG-VP-2008-03 (76-80')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|------------|-------|---------------|----|
| | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0905 01:06 PD | |
| Styrene | ND | ug/l | 1.0 | | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | | |
| Acetone | ND | ug/l | 5.0 | | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | | |
| 2-Butanone | ND | ug/l | 5.0 | | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | | |
| sec-Butylbenzene | 1.2 | ug/l | 0.50 | | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | | |
| Isopropylbenzene | 1.3 | ug/l | 0.50 | | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | | |
| Naphthalene | ND | ug/l | 2.5 | | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | |
| 1,2-Dichloroethane-d4 | 104 | % | 70-130 | | | | |
| Toluene-d8 | 98.0 | % | 70-130 | | | | |
| 4-Bromofluorobenzene | 100 | % | 70-130 | | | | |
| Dibromofluoromethane | 101 | % | 70-130 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0812845

| Parameter | LCS % | LCSD % | RPD | RPD Limit | QC Limits |
|---|-------|--------|-----|-----------|-----------|
| Volatile Organics by EPA 8260B for sample(s) 08 (WG335231-6, WG335231-7) | | | | | |
| Chlorobenzene | 106 | 98 | 8 | 20 | 75-130 |
| Benzene | 104 | 98 | 6 | 20 | 76-127 |
| Toluene | 107 | 100 | 7 | 20 | 76-125 |
| 1,1-Dichloroethene | 103 | 95 | 8 | 20 | 61-145 |
| Trichloroethene | 102 | 96 | 6 | 20 | 71-120 |
| Surrogate(s) | | | | | |
| 1,2-Dichloroethane-d4 | 102 | 103 | 1 | | 70-130 |
| Toluene-d8 | 100 | 98 | 2 | | 70-130 |
| 4-Bromofluorobenzene | 98 | 99 | 1 | | 70-130 |
| Dibromofluoromethane | 99 | 100 | 1 | | 70-130 |
| Volatile Organics by EPA 8260B for sample(s) 01-11 (WG335231-1, WG335231-2) | | | | | |
| Chlorobenzene | 109 | 90 | 19 | 20 | 75-130 |
| Benzene | 108 | 90 | 18 | 20 | 76-127 |
| Toluene | 108 | 89 | 19 | 20 | 76-125 |
| 1,1-Dichloroethene | 106 | 87 | 20 | 20 | 61-145 |
| Trichloroethene | 106 | 87 | 20 | 20 | 71-120 |
| Surrogate(s) | | | | | |
| 1,2-Dichloroethane-d4 | 105 | 106 | 1 | | 70-130 |
| Toluene-d8 | 98 | 99 | 1 | | 70-130 |
| 4-Bromofluorobenzene | 96 | 99 | 3 | | 70-130 |
| Dibromofluoromethane | 103 | 102 | 1 | | 70-130 |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0812845

| Parameter | MS % | MSD % | RPD | RPD Limit | MS/MSD Limits |
|--|------|-------|-----|-----------|---------------|
| Volatile Organics by EPA 8260B for sample(s) 01-11 (L0812845-02, WG335231-5) | | | | | |
| Chlorobenzene | 97 | 91 | 6 | 20 | 75-130 |
| Benzene | 97 | 90 | 7 | 20 | 76-127 |
| Toluene | 98 | 92 | 6 | 20 | 76-125 |
| 1,1-Dichloroethene | 97 | 83 | 16 | 20 | 61-145 |
| Trichloroethene | 96 | 88 | 9 | 20 | 71-120 |
| Surrogate(s) | | | | | |
| 1,2-Dichloroethane-d4 | 104 | 104 | 0 | | 70-130 |
| Toluene-d8 | 100 | 100 | 0 | | 70-130 |
| 4-Bromofluorobenzene | 97 | 97 | 0 | | 70-130 |
| Dibromofluoromethane | 101 | 102 | 1 | | 70-130 |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0812845

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|--------|-------|------|------------|------------------------|----|
| Blank Analysis for sample(s) 01-11 (WG335231-3) | | | | | | |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0904 16:54 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | |
| Chloroform | ND | ug/l | 0.75 | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | |
| Tetrachloroethene | ND | ug/l | 0.50 | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | |
| Bromoform | ND | ug/l | 2.0 | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Benzene | ND | ug/l | 0.50 | | | |
| Toluene | ND | ug/l | 0.75 | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | |
| Chloromethane | ND | ug/l | 2.5 | | | |
| Bromomethane | ND | ug/l | 1.0 | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | |
| Chloroethane | ND | ug/l | 1.0 | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | |
| Trichloroethene | ND | ug/l | 0.50 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| Methyl tert butyl ether | ND | ug/l | 1.0 | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | |
| o-Xylene | ND | ug/l | 1.0 | | | |
| cis-1,2-Dichloroethene | ND | ug/l | 0.50 | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | |
| Styrene | ND | ug/l | 1.0 | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | |
| Acetone | ND | ug/l | 5.0 | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | |
| 2-Butanone | ND | ug/l | 5.0 | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0812845

Continued

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|------------------------|----|
| Blank Analysis for sample(s) 01-11 (WG335231-3) | | | | | | |
| Volatile Organics by EPA 8260B cont'd | | | | | | |
| | | | | 1 8260B | 0904 16:54 PD | |
| Bromochloromethane | ND | ug/l | 2.5 | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | |
| Naphthalene | ND | ug/l | 2.5 | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 105 | % | 70-130 | | | |
| Toluene-d8 | 100 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 99.0 | % | 70-130 | | | |
| Dibromofluoromethane | 98.0 | % | 70-130 | | | |
| Blank Analysis for sample(s) 08 (WG335231-8) | | | | | | |
| Volatile Organics by EPA 8260B | | | | | | |
| | | | | 1 8260B | 0905 09:33 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | |
| Chloroform | ND | ug/l | 0.75 | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | |
| Tetrachloroethene | ND | ug/l | 0.50 | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0812845

Continued

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--|--------|-------|------|------------|------------------------|----|
| Blank Analysis for sample(s) 08 (WG335231-8) | | | | | | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0905 09:33 PD | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | |
| Bromoform | ND | ug/l | 2.0 | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Benzene | ND | ug/l | 0.50 | | | |
| Toluene | ND | ug/l | 0.75 | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | |
| Chloromethane | ND | ug/l | 2.5 | | | |
| Bromomethane | ND | ug/l | 1.0 | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | |
| Chloroethane | ND | ug/l | 1.0 | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | |
| Trichloroethene | ND | ug/l | 0.50 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| Methyl tert butyl ether | ND | ug/l | 1.0 | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | |
| o-Xylene | ND | ug/l | 1.0 | | | |
| cis-1,2-Dichloroethene | ND | ug/l | 0.50 | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | |
| Styrene | ND | ug/l | 1.0 | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | |
| Acetone | ND | ug/l | 5.0 | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | |
| 2-Butanone | ND | ug/l | 5.0 | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0812845

Continued

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--|----------|-------|-------------|------------|------------------------|----|
| Blank Analysis for sample(s) 08 (WG335231-8) | | | | | | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0905 09:33 PD | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | |
| Naphthalene | ND | ug/l | 2.5 | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 104 | % | 70-130 | | | |
| Toluene-d8 | 99.0 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 102 | % | 70-130 | | | |
| Dibromofluoromethane | 99.0 | % | 70-130 | | | |

**ALPHA ANALYTICAL
ADDENDUM I**

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

GLOSSARY OF TERMS AND SYMBOLS

| | |
|---------|--|
| REF | Reference number in which test method may be found. |
| METHOD | Method number by which analysis was performed. |
| ID | Initials of the analyst. |
| ND | Not detected in comparison to the reported detection limit. |
| NI | Not Ignitable. |
| ug/cart | Micrograms per Cartridge. |
| H | The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection. |

LIMITATION OF LIABILITIES

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.



CHAIN OF CUSTODY

PAGE 1 OF 2

Project Information

Westborough, MA
TEL: 508-898-9220
FAX: 508-898-9193

Project Name:

Client Information

Client: P.W. Grosser

Project Location: 100 Back Ave, North Attleboro, MA

Project #: A180801

Address: 630 Johnson Avenue, Suite 7

Project Manager: Kris Almskog

Bohemia, NY 11716

ALPHA Quote #:

Phone: 631-589-6353

Turn-Around Time

Fax: 631-589-8705

☒ Standard ☐ Rush (ONLY IF PRE-APPROVED)

Email:

9/8/08

☐ These samples have been previously analyzed by Alpha

Due Date: Time:

Other Project Specific Requirements/Comments/Detection Limits:

NYSDDEC ASPB Deliverables

Date Rec'd in Lab:

8/29/08

ALPHA Job #: L0812845

Report Information Data Deliverables

☐ FAX ☐ EMAIL

☐ ADEX ☐ Add'l Deliverables

Billing Information

PO #:

Regulatory Requirements/Report Limits

State/Fed Program

NYSDDEC ASP Cat 3 Deliverables

Criteria

MCP PRESUMPTIVE CERTAINTY-CT REASONABLE CONFIDENCE PROTOCOL

☐ Yes ☐ No ☐ No ☐ No

Are MCP Analytical Methods Required? Are CT RCP (Reasonable Confidence Protocol) Required?

ANALYSIS

SAMPLE HANDLING

Filtration

☐ Done

☒ Not Needed

☐ Lab to do

Preservation

☐ Lab to do

(Please specify below)

ALPHA Lab ID (Lab Use Only)

Sample ID

Collection Date Time

Sample Matrix

Sampler's Initials

Sample Specific Comments

| | | | | | | | | | |
|-------|---|-------------------------|---------|------|---|-----|---|----------|------|
| 12845 | 1 | PWG-VP-2008-04 (16-20') | 8/24/08 | 1045 | L | TCL | X | TCL VOCs | 8260 |
| 2 | 2 | (36-40') | 1130 | | | | | | |
| 2 | 2 | (36-40')MS | 1130 | | | | | | |
| 2 | 2 | (36-40')MSD | 1130 | | | | | | |
| 3 | 3 | (56-60') | 1500 | | | | | | |
| 7 | 7 | (76-80') | 1615 | | | | | | |
| 5 | 5 | (96-100') | 1120 | | | | | | |
| 6 | 6 | PWG-VP-2008-03 (16-20') | 1320 | | | | | | |
| 7 | 7 | (36-40') | 1350 | | | | | | |
| 4 | 4 | (56-60') | 1500 | | | | | | |

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

FORM NO. 01-0710 (Rev. 30-JUL-97)

Relinquished By:

Kris Almskog

Received By:

8/29/08

Date/Time

Please print clearly, legibly and completely. Samples cannot be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.

8/29/08 1710



CHAIN OF CUSTODY

PAGE 2 OF 2

Project Information

Westborough, MA Mansfield, MA
TEL: 508-898-9220 TEL: 508-822-9300
FAX: 508-898-9193 FAX: 508-822-3288

Project Name:

Client Information

Project Location: 80-100 Banks Ave, Rockville Centre

Client: P.W. Grosser

Project #: AVB0801

Address: 630 Johnson Avenue, Suite 7

Project Manager: Mrs Almskog

Bohemia, NY 11716

ALPHA Quote #:

Phone: 631-589-6353

Turn-Around Time

Fax: 631-589-8705

☒ Standard

☐ Rush (OILY IF PRE-APPROVED)

Email:

9/1/08

☐ These samples have been previously analyzed by Alpha

Due Date:

Time:

Other Project Specific Requirements/Comments/Detection Limits:

Date Rec'd in Lab:

8/29/08

ALPHA Job #: L08172848

Report Information Data Deliverables

☐ FAX

☐ EMAIL

☐ Same as Client info

PO #:

☐ ADEx

☐ Add'l Deliverables

Regulatory Requirements/Report Limits

State/Fed Program

Criteria

NYSDDEC ASP Cat B Deliverables

MCP PRESUMPTIVE CERTAINTY-CT REASONABLE CONFIDENCE PROTOCOL

☐ Yes ☐ No ☐ No ☐ No

Are MCP Analytical Methods Required? Are CT RCP (Reasonable Confidence Protocols) Required?

ANALYSIS

SAMPLE HANDLING

Filtration

☐ Done

☒ Not Needed

☐ Lab to do

☐ Preservation

☐ Lab to do

(Please specify below)

ALPHA Lab ID
(Lab Use Only)

Sample ID

Collection
Date Time

Sample
Matrix

Sampler's
Initials

Sample Specific
Comments

12845-9

TG-01

8/21/08 1200

L

RG

X

10 FB-01

8/26/08 1030

↓

TM

↓

11 PW6-UP-2008-03(76-80)

8/27/08 1705

↓

MSB

↓

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MA MCP or CT RCP?

FORM NO. 314(11)
(Rev. 30-JUL-07)

Relinquished By:

Container Type

Preservative

Date/Time

Received By:

Date/Time

Please print clearly, legibly and completely. Samples cannot be logged in and start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.

Relinquished By: [Signature] 8/29/08
Container Type: 40ml
Preservative: HCL
Date/Time: 8/29/08 0805
Received By: [Signature] 8/29/08 0805
Date/Time: 8/29/08 0805

ALPHA ANALYTICAL

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220 www.alphalab.com

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: P.W. Grosser

Laboratory Job Number: L0812904

Address: 630 Johnson Avenue
Suite 7
Bohemia, NY 11716

Date Received: 30-AUG-2008

Date Reported: 08-SEP-2008

Attn: Mr. Kris Almskog

Delivery Method: FedEx

Project Number: AVB0801

Site:

| ALPHA SAMPLE NUMBER | CLIENT IDENTIFICATION | SAMPLE LOCATION |
|---------------------|--------------------------|-------------------|
| L0812904-01 | TP-02 | 80-100 BANKS AVE. |
| L0812904-02 | PWG-VP-2008-03 (96-100') | 80-100 BANKS AVE. |
| L0812904-03 | PWG-VP-2008-02 (16-20') | 80-100 BANKS AVE. |
| L0812904-04 | PWG-VP-2008-02 (36-40') | 80-100 BANKS AVE. |
| L0812904-05 | PWG-VP-2008-02 (56-60') | 80-100 BANKS AVE. |
| L0812904-06 | PWG-VP-2008-02 (76-80') | 80-100 BANKS AVE. |
| L0812904-07 | PWG-VP-2008-02 (96-100') | 80-100 BANKS AVE. |
| L0812904-08 | PWG-VP-2008-01 (16-20') | 80-100 BANKS AVE. |
| L0812904-09 | PWG-VP-2008-01 (36-40') | 80-100 BANKS AVE. |
| L0812904-10 | PWG-VP-2008-01 (56-60') | 80-100 BANKS AVE. |
| L0812904-11 | PWG-VP-2008-01 (76-80') | 80-100 BANKS AVE. |
| L0812904-12 | PWG-VP-2008-01 (96-100') | 80-100 BANKS AVE. |

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: _____

Technical Representative

ALPHA ANALYTICAL
NARRATIVE REPORT

Laboratory Job Number: L0812904

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

Sample Receipt

Headspace was noted in both of the sample containers submitted for Volatile Organics for samples "PWG-VP-2008-03 (96-100')", "PWG-VP-2008-02 (56-60')", "PWG-VP-2008-02 (96-100')", and "PWG-VP-2008-01 (96-100')"; and in one of the sample containers for samples "PWG-VP-2008-01 (36-40')", and "PWG-VP-2008-01 (76-80')". The analysis was performed at the client's request.

Volatile Organics

The following samples have elevated detection limits due to the dilutions required by the elevated concentrations of target compounds in the samples:

L0812904-03: 5x

L0812904-04: 100x

L0812904-05: 2.5x

L0812904-06, -07, -12: 2x

L0812904-05 and -07 required re-analysis on 10x dilutions in order to quantitate the samples within the calibration range. The result is reported as a "greater than" value for the compound that exceeded the calibration on the initial analysis. The re-analysis was performed only for the compound which exceeded the calibration range.

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|---------------------------------------|-----------------------------------|
| Laboratory Sample Number: L0812904-01 | Date Collected: 21-AUG-2008 12:00 |
| TP-02 | Date Received : 30-AUG-2008 |
| Sample Matrix: WATER | Date Reported : 08-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 2-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-------------------|----|
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0905 01:43 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | |
| Chloroform | ND | ug/l | 0.75 | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | |
| Tetrachloroethene | ND | ug/l | 0.50 | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | |
| Bromoform | ND | ug/l | 2.0 | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Benzene | ND | ug/l | 0.50 | | | |
| Toluene | ND | ug/l | 0.75 | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | |
| Chloromethane | ND | ug/l | 2.5 | | | |
| Bromomethane | ND | ug/l | 1.0 | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | |
| Chloroethane | ND | ug/l | 1.0 | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | |
| Trichloroethene | ND | ug/l | 0.50 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| Methyl tert butyl ether | ND | ug/l | 1.0 | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | |
| o-Xylene | ND | ug/l | 1.0 | | | |
| cis-1,2-Dichloroethene | ND | ug/l | 0.50 | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0812904-01
TP-02

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0905 01:43 PD | | |
| Styrene | ND | ug/l | 1.0 | | | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | | | |
| Acetone | ND | ug/l | 5.0 | | | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | | | |
| 2-Butanone | ND | ug/l | 5.0 | | | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | | | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | | | |
| Naphthalene | ND | ug/l | 2.5 | | | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 1,2-Dichloroethane-d4 | 101 | % | 70-130 | | | | | |
| Toluene-d8 | 99.0 | % | 70-130 | | | | | |
| 4-Bromofluorobenzene | 102 | % | 70-130 | | | | | |
| Dibromofluoromethane | 99.0 | % | 70-130 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | | | |
|-------------------------------------|--------------------------|-----------------|-------------------|
| Laboratory Sample Number: | L0812904-02 | Date Collected: | 28-AUG-2008 10:20 |
| | PWG-VP-2008-03 (96-100') | Date Received : | 30-AUG-2008 |
| Sample Matrix: | WATER | Date Reported : | 08-SEP-2008 |
| Condition of Sample: | Satisfactory | Field Prep: | None |
| Number & Type of Containers: 2-Vial | | | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-------------------|----|
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0905 02:20 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | |
| Chloroform | ND | ug/l | 0.75 | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | |
| Tetrachloroethene | 27 | ug/l | 0.50 | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | |
| Bromoform | ND | ug/l | 2.0 | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Benzene | ND | ug/l | 0.50 | | | |
| Toluene | 1.1 | ug/l | 0.75 | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | |
| Chloromethane | ND | ug/l | 2.5 | | | |
| Bromomethane | ND | ug/l | 1.0 | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | |
| Chloroethane | ND | ug/l | 1.0 | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | |
| Trichloroethene | 1.3 | ug/l | 0.50 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| Methyl tert butyl ether | ND | ug/l | 1.0 | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | |
| o-Xylene | ND | ug/l | 1.0 | | | |
| cis-1,2-Dichloroethene | 8.8 | ug/l | 0.50 | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0812904-02
PWG-VP-2008-03 (96-100')

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0905 02:20 PD | | |
| Styrene | ND | ug/l | 1.0 | | | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | | | |
| Acetone | 7.1 | ug/l | 5.0 | | | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | | | |
| 2-Butanone | ND | ug/l | 5.0 | | | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | | | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | | | |
| Naphthalene | ND | ug/l | 2.5 | | | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 1,2-Dichloroethane-d4 | 103 | % | 70-130 | | | | | |
| Toluene-d8 | 99.0 | % | 70-130 | | | | | |
| 4-Bromofluorobenzene | 102 | % | 70-130 | | | | | |
| Dibromofluoromethane | 99.0 | % | 70-130 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | | | |
|-------------------------------------|-------------------------|-----------------|-------------------|
| Laboratory Sample Number: | L0812904-03 | Date Collected: | 28-AUG-2008 12:30 |
| | PWG-VP-2008-02 (16-20') | Date Received : | 30-AUG-2008 |
| Sample Matrix: | WATER | Date Reported : | 08-SEP-2008 |
| Condition of Sample: | Satisfactory | Field Prep: | None |
| Number & Type of Containers: 2-Vial | | | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|-----|------------|-------------------|----|
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0905 02:57 PD | |
| Methylene chloride | ND | ug/l | 25. | | | |
| 1,1-Dichloroethane | ND | ug/l | 3.8 | | | |
| Chloroform | ND | ug/l | 3.8 | | | |
| Carbon tetrachloride | ND | ug/l | 2.5 | | | |
| 1,2-Dichloropropane | ND | ug/l | 8.8 | | | |
| Dibromochloromethane | ND | ug/l | 2.5 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 3.8 | | | |
| Tetrachloroethene | 210 | ug/l | 2.5 | | | |
| Chlorobenzene | ND | ug/l | 2.5 | | | |
| Trichlorofluoromethane | ND | ug/l | 12. | | | |
| 1,2-Dichloroethane | ND | ug/l | 2.5 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 2.5 | | | |
| Bromodichloromethane | ND | ug/l | 2.5 | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 2.5 | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 2.5 | | | |
| 1,1-Dichloropropene | ND | ug/l | 12. | | | |
| Bromoform | ND | ug/l | 10. | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 2.5 | | | |
| Benzene | ND | ug/l | 2.5 | | | |
| Toluene | ND | ug/l | 3.8 | | | |
| Ethylbenzene | ND | ug/l | 2.5 | | | |
| Chloromethane | ND | ug/l | 12. | | | |
| Bromomethane | ND | ug/l | 5.0 | | | |
| Vinyl chloride | 100 | ug/l | 5.0 | | | |
| Chloroethane | ND | ug/l | 5.0 | | | |
| 1,1-Dichloroethene | ND | ug/l | 2.5 | | | |
| trans-1,2-Dichloroethene | 7.9 | ug/l | 3.8 | | | |
| Trichloroethene | 14 | ug/l | 2.5 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 12. | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 12. | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 12. | | | |
| Methyl tert butyl ether | ND | ug/l | 5.0 | | | |
| p/m-Xylene | ND | ug/l | 5.0 | | | |
| o-Xylene | ND | ug/l | 5.0 | | | |
| cis-1,2-Dichloroethene | 500 | ug/l | 2.5 | | | |
| Dibromomethane | ND | ug/l | 25. | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 25. | | | |
| Acrylonitrile | ND | ug/l | 25. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0812904-03
PWG-VP-2008-02 (16-20')

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0905 02:57 PD | | |
| Styrene | ND | ug/l | 5.0 | | | | | |
| Dichlorodifluoromethane | ND | ug/l | 25. | | | | | |
| Acetone | 28 | ug/l | 25 | | | | | |
| Carbon disulfide | ND | ug/l | 25. | | | | | |
| 2-Butanone | ND | ug/l | 25. | | | | | |
| Vinyl acetate | ND | ug/l | 25. | | | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 25. | | | | | |
| 2-Hexanone | ND | ug/l | 25. | | | | | |
| Bromochloromethane | ND | ug/l | 12. | | | | | |
| 2,2-Dichloropropane | ND | ug/l | 12. | | | | | |
| 1,2-Dibromoethane | ND | ug/l | 10. | | | | | |
| 1,3-Dichloropropane | ND | ug/l | 12. | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 2.5 | | | | | |
| Bromobenzene | ND | ug/l | 12. | | | | | |
| n-Butylbenzene | ND | ug/l | 2.5 | | | | | |
| sec-Butylbenzene | ND | ug/l | 2.5 | | | | | |
| tert-Butylbenzene | ND | ug/l | 12. | | | | | |
| o-Chlorotoluene | ND | ug/l | 12. | | | | | |
| p-Chlorotoluene | ND | ug/l | 12. | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 12. | | | | | |
| Hexachlorobutadiene | ND | ug/l | 3.0 | | | | | |
| Isopropylbenzene | ND | ug/l | 2.5 | | | | | |
| p-Isopropyltoluene | ND | ug/l | 2.5 | | | | | |
| Naphthalene | ND | ug/l | 12. | | | | | |
| n-Propylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 12. | | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 12. | | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 12. | | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 12. | | | | | |
| 1,4-Diethylbenzene | ND | ug/l | 10. | | | | | |
| 4-Ethyltoluene | ND | ug/l | 10. | | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 10. | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 1,2-Dichloroethane-d4 | 103 | % | 70-130 | | | | | |
| Toluene-d8 | 98.0 | % | 70-130 | | | | | |
| 4-Bromofluorobenzene | 100 | % | 70-130 | | | | | |
| Dibromofluoromethane | 100 | % | 70-130 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0812904-04 | Date Collected: 28-AUG-2008 13:05 |
| PWG-VP-2008-02 (36-40') | Date Received : 30-AUG-2008 |
| Sample Matrix: WATER | Date Reported : 08-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 2-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|--------------------------------|--------|-------|-----|------------|-------|---------------|----|
| | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B | | | | 1 | 8260B | 0905 10:50 PD | |
| Methylene chloride | ND | ug/l | 500 | | | | |
| 1,1-Dichloroethane | ND | ug/l | 75. | | | | |
| Chloroform | ND | ug/l | 75. | | | | |
| Carbon tetrachloride | ND | ug/l | 50. | | | | |
| 1,2-Dichloropropane | ND | ug/l | 180 | | | | |
| Dibromochloromethane | ND | ug/l | 50. | | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 75. | | | | |
| Tetrachloroethene | 5800 | ug/l | 50 | | | | |
| Chlorobenzene | ND | ug/l | 50. | | | | |
| Trichlorofluoromethane | ND | ug/l | 250 | | | | |
| 1,2-Dichloroethane | ND | ug/l | 50. | | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 50. | | | | |
| Bromodichloromethane | ND | ug/l | 50. | | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 50. | | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 50. | | | | |
| 1,1-Dichloropropene | ND | ug/l | 250 | | | | |
| Bromoform | ND | ug/l | 200 | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 50. | | | | |
| Benzene | ND | ug/l | 50. | | | | |
| Toluene | ND | ug/l | 75. | | | | |
| Ethylbenzene | ND | ug/l | 50. | | | | |
| Chloromethane | ND | ug/l | 250 | | | | |
| Bromomethane | ND | ug/l | 100 | | | | |
| Vinyl chloride | ND | ug/l | 100 | | | | |
| Chloroethane | ND | ug/l | 100 | | | | |
| 1,1-Dichloroethene | ND | ug/l | 50. | | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 75. | | | | |
| Trichloroethene | 98 | ug/l | 50 | | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 250 | | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 250 | | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 250 | | | | |
| Methyl tert butyl ether | ND | ug/l | 100 | | | | |
| p/m-Xylene | ND | ug/l | 100 | | | | |
| o-Xylene | ND | ug/l | 100 | | | | |
| cis-1,2-Dichloroethene | ND | ug/l | 50. | | | | |
| Dibromomethane | ND | ug/l | 500 | | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 500 | | | | |
| Acrylonitrile | ND | ug/l | 500 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0812904-04
PWG-VP-2008-02 (36-40')

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0905 10:50 PD | | |
| Styrene | ND | ug/l | 100 | | | | | |
| Dichlorodifluoromethane | ND | ug/l | 500 | | | | | |
| Acetone | ND | ug/l | 500 | | | | | |
| Carbon disulfide | ND | ug/l | 500 | | | | | |
| 2-Butanone | ND | ug/l | 500 | | | | | |
| Vinyl acetate | ND | ug/l | 500 | | | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 500 | | | | | |
| 2-Hexanone | ND | ug/l | 500 | | | | | |
| Bromochloromethane | ND | ug/l | 250 | | | | | |
| 2,2-Dichloropropane | ND | ug/l | 250 | | | | | |
| 1,2-Dibromoethane | ND | ug/l | 200 | | | | | |
| 1,3-Dichloropropane | ND | ug/l | 250 | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 50. | | | | | |
| Bromobenzene | ND | ug/l | 250 | | | | | |
| n-Butylbenzene | ND | ug/l | 50. | | | | | |
| sec-Butylbenzene | ND | ug/l | 50. | | | | | |
| tert-Butylbenzene | ND | ug/l | 250 | | | | | |
| o-Chlorotoluene | ND | ug/l | 250 | | | | | |
| p-Chlorotoluene | ND | ug/l | 250 | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 250 | | | | | |
| Hexachlorobutadiene | ND | ug/l | 60. | | | | | |
| Isopropylbenzene | ND | ug/l | 50. | | | | | |
| p-Isopropyltoluene | ND | ug/l | 50. | | | | | |
| Naphthalene | ND | ug/l | 250 | | | | | |
| n-Propylbenzene | ND | ug/l | 50. | | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 250 | | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 250 | | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 250 | | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 250 | | | | | |
| 1,4-Diethylbenzene | ND | ug/l | 200 | | | | | |
| 4-Ethyltoluene | ND | ug/l | 200 | | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 200 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 1,2-Dichloroethane-d4 | 106 | % | 70-130 | | | | | |
| Toluene-d8 | 99.0 | % | 70-130 | | | | | |
| 4-Bromofluorobenzene | 103 | % | 70-130 | | | | | |
| Dibromofluoromethane | 100 | % | 70-130 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|---------------------------------------|-----------------------------------|
| Laboratory Sample Number: L0812904-05 | Date Collected: 28-AUG-2008 14:00 |
| PWG-VP-2008-02 (56-60') | Date Received : 30-AUG-2008 |
| Sample Matrix: WATER | Date Reported : 08-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 2-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|--------------------------------|--------|-------|-----|------------|-------|---------------|----|
| | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B | | | | 1 | 8260B | 0905 11:29 PD | |
| Methylene chloride | ND | ug/l | 12. | | | | |
| 1,1-Dichloroethane | ND | ug/l | 1.9 | | | | |
| Chloroform | ND | ug/l | 1.9 | | | | |
| Carbon tetrachloride | ND | ug/l | 1.2 | | | | |
| 1,2-Dichloropropane | ND | ug/l | 4.4 | | | | |
| Dibromochloromethane | ND | ug/l | 1.2 | | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 1.9 | | | | |
| Tetrachloroethene | >400 | ug/l | 1.2 | | | | |
| Chlorobenzene | ND | ug/l | 1.2 | | | | |
| Trichlorofluoromethane | ND | ug/l | 6.2 | | | | |
| 1,2-Dichloroethane | ND | ug/l | 1.2 | | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 1.2 | | | | |
| Bromodichloromethane | ND | ug/l | 1.2 | | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 1.2 | | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 1.2 | | | | |
| 1,1-Dichloropropene | ND | ug/l | 6.2 | | | | |
| Bromoform | ND | ug/l | 5.0 | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 1.2 | | | | |
| Benzene | ND | ug/l | 1.2 | | | | |
| Toluene | ND | ug/l | 1.9 | | | | |
| Ethylbenzene | ND | ug/l | 1.2 | | | | |
| Chloromethane | ND | ug/l | 6.2 | | | | |
| Bromomethane | ND | ug/l | 2.5 | | | | |
| Vinyl chloride | 4.7 | ug/l | 2.5 | | | | |
| Chloroethane | ND | ug/l | 2.5 | | | | |
| 1,1-Dichloroethene | ND | ug/l | 1.2 | | | | |
| trans-1,2-Dichloroethene | 5.7 | ug/l | 1.9 | | | | |
| Trichloroethene | 51 | ug/l | 1.2 | | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 6.2 | | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 6.2 | | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 6.2 | | | | |
| Methyl tert butyl ether | ND | ug/l | 2.5 | | | | |
| p/m-Xylene | ND | ug/l | 2.5 | | | | |
| o-Xylene | ND | ug/l | 2.5 | | | | |
| cis-1,2-Dichloroethene | 210 | ug/l | 1.2 | | | | |
| Dibromomethane | ND | ug/l | 12. | | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 12. | | | | |
| Acrylonitrile | ND | ug/l | 12. | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0812904-05
PWG-VP-2008-02 (56-60')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|-------------------|----|
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0905 11:29 PD | |
| Styrene | ND | ug/l | 2.5 | | | |
| Dichlorodifluoromethane | ND | ug/l | 12. | | | |
| Acetone | 23 | ug/l | 12 | | | |
| Carbon disulfide | ND | ug/l | 12. | | | |
| 2-Butanone | ND | ug/l | 12. | | | |
| Vinyl acetate | ND | ug/l | 12. | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 12. | | | |
| 2-Hexanone | ND | ug/l | 12. | | | |
| Bromochloromethane | ND | ug/l | 6.2 | | | |
| 2,2-Dichloropropane | ND | ug/l | 6.2 | | | |
| 1,2-Dibromoethane | ND | ug/l | 5.0 | | | |
| 1,3-Dichloropropane | ND | ug/l | 6.2 | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 1.2 | | | |
| Bromobenzene | ND | ug/l | 6.2 | | | |
| n-Butylbenzene | ND | ug/l | 1.2 | | | |
| sec-Butylbenzene | ND | ug/l | 1.2 | | | |
| tert-Butylbenzene | ND | ug/l | 6.2 | | | |
| o-Chlorotoluene | ND | ug/l | 6.2 | | | |
| p-Chlorotoluene | ND | ug/l | 6.2 | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 6.2 | | | |
| Hexachlorobutadiene | ND | ug/l | 1.5 | | | |
| Isopropylbenzene | ND | ug/l | 1.2 | | | |
| p-Isopropyltoluene | ND | ug/l | 1.2 | | | |
| Naphthalene | ND | ug/l | 6.2 | | | |
| n-Propylbenzene | ND | ug/l | 1.2 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 6.2 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 6.2 | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 6.2 | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 6.2 | | | |
| 1,4-Diethylbenzene | ND | ug/l | 5.0 | | | |
| 4-Ethyltoluene | ND | ug/l | 5.0 | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 5.0 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 108 | % | 70-130 | | | |
| Toluene-d8 | 99.0 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 101 | % | 70-130 | | | |
| Dibromofluoromethane | 101 | % | 70-130 | | | |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0905 15:20 PD | |
| Tetrachloroethene | 420 | ug/l | 5.0 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 104 | % | 70-130 | | | |
| Toluene-d8 | 99.0 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 101 | % | 70-130 | | | |
| Dibromofluoromethane | 101 | % | 70-130 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0812904-06 | Date Collected: 28-AUG-2008 16:20 |
| PWG-VP-2008-02 (76-80') | Date Received : 30-AUG-2008 |
| Sample Matrix: WATER | Date Reported : 08-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 2-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|-----|------------|-------------------|----|
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0905 12:09 PD | |
| Methylene chloride | ND | ug/l | 10. | | | |
| 1,1-Dichloroethane | ND | ug/l | 1.5 | | | |
| Chloroform | ND | ug/l | 1.5 | | | |
| Carbon tetrachloride | ND | ug/l | 1.0 | | | |
| 1,2-Dichloropropane | ND | ug/l | 3.5 | | | |
| Dibromochloromethane | ND | ug/l | 1.0 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 1.5 | | | |
| Tetrachloroethene | 21 | ug/l | 1.0 | | | |
| Chlorobenzene | ND | ug/l | 1.0 | | | |
| Trichlorofluoromethane | ND | ug/l | 5.0 | | | |
| 1,2-Dichloroethane | ND | ug/l | 1.0 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 1.0 | | | |
| Bromodichloromethane | ND | ug/l | 1.0 | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 1.0 | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 1.0 | | | |
| 1,1-Dichloropropene | ND | ug/l | 5.0 | | | |
| Bromoform | ND | ug/l | 4.0 | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 1.0 | | | |
| Benzene | ND | ug/l | 1.0 | | | |
| Toluene | 1.5 | ug/l | 1.5 | | | |
| Ethylbenzene | ND | ug/l | 1.0 | | | |
| Chloromethane | ND | ug/l | 5.0 | | | |
| Bromomethane | ND | ug/l | 2.0 | | | |
| Vinyl chloride | ND | ug/l | 2.0 | | | |
| Chloroethane | ND | ug/l | 2.0 | | | |
| 1,1-Dichloroethene | ND | ug/l | 1.0 | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 1.5 | | | |
| Trichloroethene | 1.6 | ug/l | 1.0 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 5.0 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 5.0 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 5.0 | | | |
| Methyl tert butyl ether | ND | ug/l | 2.0 | | | |
| p/m-Xylene | ND | ug/l | 2.0 | | | |
| o-Xylene | ND | ug/l | 2.0 | | | |
| cis-1,2-Dichloroethene | 7.5 | ug/l | 1.0 | | | |
| Dibromomethane | ND | ug/l | 10. | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 10. | | | |
| Acrylonitrile | ND | ug/l | 10. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0812904-06
PWG-VP-2008-02 (76-80')

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-----|-------------|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0905 12:09 PD | | |
| Styrene | ND | ug/l | 2.0 | | | | | |
| Dichlorodifluoromethane | ND | ug/l | 10. | | | | | |
| Acetone | 71 | ug/l | 10 | | | | | |
| Carbon disulfide | ND | ug/l | 10. | | | | | |
| 2-Butanone | 21 | ug/l | 10 | | | | | |
| Vinyl acetate | ND | ug/l | 10. | | | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 10. | | | | | |
| 2-Hexanone | ND | ug/l | 10. | | | | | |
| Bromochloromethane | ND | ug/l | 5.0 | | | | | |
| 2,2-Dichloropropane | ND | ug/l | 5.0 | | | | | |
| 1,2-Dibromoethane | ND | ug/l | 4.0 | | | | | |
| 1,3-Dichloropropane | ND | ug/l | 5.0 | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 1.0 | | | | | |
| Bromobenzene | ND | ug/l | 5.0 | | | | | |
| n-Butylbenzene | ND | ug/l | 1.0 | | | | | |
| sec-Butylbenzene | ND | ug/l | 1.0 | | | | | |
| tert-Butylbenzene | ND | ug/l | 5.0 | | | | | |
| o-Chlorotoluene | ND | ug/l | 5.0 | | | | | |
| p-Chlorotoluene | ND | ug/l | 5.0 | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 5.0 | | | | | |
| Hexachlorobutadiene | ND | ug/l | 1.2 | | | | | |
| Isopropylbenzene | ND | ug/l | 1.0 | | | | | |
| p-Isopropyltoluene | ND | ug/l | 1.0 | | | | | |
| Naphthalene | ND | ug/l | 5.0 | | | | | |
| n-Propylbenzene | ND | ug/l | 1.0 | | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 5.0 | | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 5.0 | | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 5.0 | | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 5.0 | | | | | |
| 1,4-Diethylbenzene | ND | ug/l | 4.0 | | | | | |
| 4-Ethyltoluene | ND | ug/l | 4.0 | | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 4.0 | | | | | |
| Surrogate(s) | Recovery | | | QC Criteria | | | | |
| 1,2-Dichloroethane-d4 | 107 | % | | 70-130 | | | | |
| Toluene-d8 | 100 | % | | 70-130 | | | | |
| 4-Bromofluorobenzene | 99.0 | % | | 70-130 | | | | |
| Dibromofluoromethane | 100 | % | | 70-130 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|---------------------------------------|-----------------------------------|
| Laboratory Sample Number: L0812904-07 | Date Collected: 28-AUG-2008 18:00 |
| PWG-VP-2008-02 (96-100') | Date Received : 30-AUG-2008 |
| Sample Matrix: WATER | Date Reported : 08-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 2-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|--------------------------------|--------|-------|-----|------------|-------|---------------|----|
| | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B | | | | 1 | 8260B | 0905 12:48 PD | |
| Methylene chloride | ND | ug/l | 10. | | | | |
| 1,1-Dichloroethane | ND | ug/l | 1.5 | | | | |
| Chloroform | ND | ug/l | 1.5 | | | | |
| Carbon tetrachloride | ND | ug/l | 1.0 | | | | |
| 1,2-Dichloropropane | ND | ug/l | 3.5 | | | | |
| Dibromochloromethane | ND | ug/l | 1.0 | | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 1.5 | | | | |
| Tetrachloroethene | >200 | ug/l | 1 | | | | |
| Chlorobenzene | ND | ug/l | 1.0 | | | | |
| Trichlorofluoromethane | ND | ug/l | 5.0 | | | | |
| 1,2-Dichloroethane | ND | ug/l | 1.0 | | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 1.0 | | | | |
| Bromodichloromethane | ND | ug/l | 1.0 | | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 1.0 | | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 1.0 | | | | |
| 1,1-Dichloropropene | ND | ug/l | 5.0 | | | | |
| Bromoform | ND | ug/l | 4.0 | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 1.0 | | | | |
| Benzene | ND | ug/l | 1.0 | | | | |
| Toluene | ND | ug/l | 1.5 | | | | |
| Ethylbenzene | ND | ug/l | 1.0 | | | | |
| Chloromethane | ND | ug/l | 5.0 | | | | |
| Bromomethane | ND | ug/l | 2.0 | | | | |
| Vinyl chloride | ND | ug/l | 2.0 | | | | |
| Chloroethane | ND | ug/l | 2.0 | | | | |
| 1,1-Dichloroethene | ND | ug/l | 1.0 | | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 1.5 | | | | |
| Trichloroethene | 29 | ug/l | 1.0 | | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 5.0 | | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 5.0 | | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 5.0 | | | | |
| Methyl tert butyl ether | ND | ug/l | 2.0 | | | | |
| p/m-Xylene | ND | ug/l | 2.0 | | | | |
| o-Xylene | ND | ug/l | 2.0 | | | | |
| cis-1,2-Dichloroethene | 110 | ug/l | 1.0 | | | | |
| Dibromomethane | ND | ug/l | 10. | | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 10. | | | | |
| Acrylonitrile | ND | ug/l | 10. | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0812904-07
PWG-VP-2008-02 (96-100')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|-------------------|----|
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0905 12:48 PD | |
| Styrene | ND | ug/l | 2.0 | | | |
| Dichlorodifluoromethane | ND | ug/l | 10. | | | |
| Acetone | 36 | ug/l | 10 | | | |
| Carbon disulfide | ND | ug/l | 10. | | | |
| 2-Butanone | ND | ug/l | 10. | | | |
| Vinyl acetate | ND | ug/l | 10. | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 10. | | | |
| 2-Hexanone | ND | ug/l | 10. | | | |
| Bromochloromethane | ND | ug/l | 5.0 | | | |
| 2,2-Dichloropropane | ND | ug/l | 5.0 | | | |
| 1,2-Dibromoethane | ND | ug/l | 4.0 | | | |
| 1,3-Dichloropropane | ND | ug/l | 5.0 | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 1.0 | | | |
| Bromobenzene | ND | ug/l | 5.0 | | | |
| n-Butylbenzene | ND | ug/l | 1.0 | | | |
| sec-Butylbenzene | ND | ug/l | 1.0 | | | |
| tert-Butylbenzene | ND | ug/l | 5.0 | | | |
| o-Chlorotoluene | ND | ug/l | 5.0 | | | |
| p-Chlorotoluene | ND | ug/l | 5.0 | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 5.0 | | | |
| Hexachlorobutadiene | ND | ug/l | 1.2 | | | |
| Isopropylbenzene | ND | ug/l | 1.0 | | | |
| p-Isopropyltoluene | ND | ug/l | 1.0 | | | |
| Naphthalene | ND | ug/l | 5.0 | | | |
| n-Propylbenzene | ND | ug/l | 1.0 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 5.0 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 5.0 | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 5.0 | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 5.0 | | | |
| 1,4-Diethylbenzene | ND | ug/l | 4.0 | | | |
| 4-Ethyltoluene | ND | ug/l | 4.0 | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 4.0 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 109 | % | 70-130 | | | |
| Toluene-d8 | 100 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 99.0 | % | 70-130 | | | |
| Dibromofluoromethane | 101 | % | 70-130 | | | |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0905 15:57 PD | |
| Tetrachloroethene | 280 | ug/l | 5.0 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 103 | % | 70-130 | | | |
| Toluene-d8 | 99.0 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 101 | % | 70-130 | | | |
| Dibromofluoromethane | 99.0 | % | 70-130 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0812904-08 | Date Collected: 29-AUG-2008 07:35 |
| PWG-VP-2008-01 (16-20') | Date Received : 30-AUG-2008 |
| Sample Matrix: WATER | Date Reported : 08-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 2-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-------------------|----|
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0905 13:28 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | |
| 1,1-Dichloroethane | 1.0 | ug/l | 0.75 | | | |
| Chloroform | ND | ug/l | 0.75 | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | |
| Tetrachloroethene | 13 | ug/l | 0.50 | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | |
| Bromoform | ND | ug/l | 2.0 | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Benzene | ND | ug/l | 0.50 | | | |
| Toluene | ND | ug/l | 0.75 | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | |
| Chloromethane | ND | ug/l | 2.5 | | | |
| Bromomethane | ND | ug/l | 1.0 | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | |
| Chloroethane | ND | ug/l | 1.0 | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | |
| Trichloroethene | 4.3 | ug/l | 0.50 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| Methyl tert butyl ether | ND | ug/l | 1.0 | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | |
| o-Xylene | ND | ug/l | 1.0 | | | |
| cis-1,2-Dichloroethene | 1.2 | ug/l | 0.50 | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0812904-08
PWG-VP-2008-01 (16-20')

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0905 13:28 PD | | |
| Styrene | ND | ug/l | 1.0 | | | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | | | |
| Acetone | 13 | ug/l | 5.0 | | | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | | | |
| 2-Butanone | 10 | ug/l | 5.0 | | | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | | | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | | | |
| Naphthalene | ND | ug/l | 2.5 | | | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 1,2-Dichloroethane-d4 | 108 | % | 70-130 | | | | | |
| Toluene-d8 | 99.0 | % | 70-130 | | | | | |
| 4-Bromofluorobenzene | 98.0 | % | 70-130 | | | | | |
| Dibromofluoromethane | 101 | % | 70-130 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0812904-09 | Date Collected: 29-AUG-2008 08:40 |
| PWG-VP-2008-01 (36-40') | Date Received : 30-AUG-2008 |
| Sample Matrix: WATER | Date Reported : 08-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 2-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-------------------|----|
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0905 14:07 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | |
| Chloroform | ND | ug/l | 0.75 | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | |
| Tetrachloroethene | 13 | ug/l | 0.50 | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | |
| Bromoform | ND | ug/l | 2.0 | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Benzene | ND | ug/l | 0.50 | | | |
| Toluene | ND | ug/l | 0.75 | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | |
| Chloromethane | ND | ug/l | 2.5 | | | |
| Bromomethane | ND | ug/l | 1.0 | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | |
| Chloroethane | ND | ug/l | 1.0 | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | |
| Trichloroethene | 1.4 | ug/l | 0.50 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| Methyl tert butyl ether | ND | ug/l | 1.0 | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | |
| o-Xylene | ND | ug/l | 1.0 | | | |
| cis-1,2-Dichloroethene | ND | ug/l | 0.50 | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0812904-09
PWG-VP-2008-01 (36-40')

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0905 14:07 PD | | |
| Styrene | ND | ug/l | 1.0 | | | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | | | |
| Acetone | 11 | ug/l | 5.0 | | | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | | | |
| 2-Butanone | 16 | ug/l | 5.0 | | | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | | | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | | | |
| Naphthalene | ND | ug/l | 2.5 | | | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 1,2-Dichloroethane-d4 | 107 | % | 70-130 | | | | | |
| Toluene-d8 | 99.0 | % | 70-130 | | | | | |
| 4-Bromofluorobenzene | 98.0 | % | 70-130 | | | | | |
| Dibromofluoromethane | 100 | % | 70-130 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0812904-10 | Date Collected: 29-AUG-2008 09:50 |
| PWG-VP-2008-01 (56-60') | Date Received : 30-AUG-2008 |
| Sample Matrix: WATER | Date Reported : 08-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 2-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|--------------------------------|--------|-------|------|------------|-------|---------------|----|
| | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B | | | | 1 | 8260B | 0905 18:29 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | | |
| Chloroform | ND | ug/l | 0.75 | | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | | |
| Tetrachloroethene | 46 | ug/l | 0.50 | | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | | |
| Bromoform | ND | ug/l | 2.0 | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | |
| Benzene | ND | ug/l | 0.50 | | | | |
| Toluene | ND | ug/l | 0.75 | | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | | |
| Chloromethane | ND | ug/l | 2.5 | | | | |
| Bromomethane | ND | ug/l | 1.0 | | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | | |
| Chloroethane | ND | ug/l | 1.0 | | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | | |
| Trichloroethene | 5.6 | ug/l | 0.50 | | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | | |
| Methyl tert butyl ether | ND | ug/l | 1.0 | | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | | |
| o-Xylene | ND | ug/l | 1.0 | | | | |
| cis-1,2-Dichloroethene | ND | ug/l | 0.50 | | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0812904-10
PWG-VP-2008-01 (56-60')

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0905 18:29 PD | | |
| Styrene | ND | ug/l | 1.0 | | | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | | | |
| Acetone | ND | ug/l | 5.0 | | | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | | | |
| 2-Butanone | ND | ug/l | 5.0 | | | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | | | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | | | |
| Naphthalene | ND | ug/l | 2.5 | | | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 1,2-Dichloroethane-d4 | 102 | % | 70-130 | | | | | |
| Toluene-d8 | 98.0 | % | 70-130 | | | | | |
| 4-Bromofluorobenzene | 104 | % | 70-130 | | | | | |
| Dibromofluoromethane | 98.0 | % | 70-130 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0812904-11 | Date Collected: 29-AUG-2008 11:00 |
| PWG-VP-2008-01 (76-80') | Date Received : 30-AUG-2008 |
| Sample Matrix: WATER | Date Reported : 08-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 2-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-------------------|----|
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0905 19:06 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | |
| Chloroform | ND | ug/l | 0.75 | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | |
| Tetrachloroethene | 100 | ug/l | 0.50 | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | |
| Bromoform | ND | ug/l | 2.0 | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Benzene | ND | ug/l | 0.50 | | | |
| Toluene | ND | ug/l | 0.75 | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | |
| Chloromethane | ND | ug/l | 2.5 | | | |
| Bromomethane | ND | ug/l | 1.0 | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | |
| Chloroethane | ND | ug/l | 1.0 | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | |
| Trichloroethene | 18 | ug/l | 0.50 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| Methyl tert butyl ether | 1.1 | ug/l | 1.0 | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | |
| o-Xylene | ND | ug/l | 1.0 | | | |
| cis-1,2-Dichloroethene | 0.82 | ug/l | 0.50 | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0812904-11
PWG-VP-2008-01 (76-80')

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0905 19:06 PD | | |
| Styrene | ND | ug/l | 1.0 | | | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | | | |
| Acetone | 12 | ug/l | 5.0 | | | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | | | |
| 2-Butanone | ND | ug/l | 5.0 | | | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | | | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | | | |
| Naphthalene | ND | ug/l | 2.5 | | | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 1,2-Dichloroethane-d4 | 104 | % | 70-130 | | | | | |
| Toluene-d8 | 98.0 | % | 70-130 | | | | | |
| 4-Bromofluorobenzene | 102 | % | 70-130 | | | | | |
| Dibromofluoromethane | 99.0 | % | 70-130 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0812904-12 | Date Collected: 29-AUG-2008 13:10 |
| PWG-VP-2008-01 (96-100') | Date Received : 30-AUG-2008 |
| Sample Matrix: WATER | Date Reported : 08-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 2-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|-----|------------|-------------------|----|
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0905 14:44 PD | |
| Methylene chloride | ND | ug/l | 10. | | | |
| 1,1-Dichloroethane | ND | ug/l | 1.5 | | | |
| Chloroform | ND | ug/l | 1.5 | | | |
| Carbon tetrachloride | ND | ug/l | 1.0 | | | |
| 1,2-Dichloropropane | ND | ug/l | 3.5 | | | |
| Dibromochloromethane | ND | ug/l | 1.0 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 1.5 | | | |
| Tetrachloroethene | 200 | ug/l | 1.0 | | | |
| Chlorobenzene | ND | ug/l | 1.0 | | | |
| Trichlorofluoromethane | ND | ug/l | 5.0 | | | |
| 1,2-Dichloroethane | ND | ug/l | 1.0 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 1.0 | | | |
| Bromodichloromethane | ND | ug/l | 1.0 | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 1.0 | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 1.0 | | | |
| 1,1-Dichloropropene | ND | ug/l | 5.0 | | | |
| Bromoform | ND | ug/l | 4.0 | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 1.0 | | | |
| Benzene | ND | ug/l | 1.0 | | | |
| Toluene | ND | ug/l | 1.5 | | | |
| Ethylbenzene | ND | ug/l | 1.0 | | | |
| Chloromethane | ND | ug/l | 5.0 | | | |
| Bromomethane | ND | ug/l | 2.0 | | | |
| Vinyl chloride | ND | ug/l | 2.0 | | | |
| Chloroethane | ND | ug/l | 2.0 | | | |
| 1,1-Dichloroethene | ND | ug/l | 1.0 | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 1.5 | | | |
| Trichloroethene | 40 | ug/l | 1.0 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 5.0 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 5.0 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 5.0 | | | |
| Methyl tert butyl ether | ND | ug/l | 2.0 | | | |
| p/m-Xylene | ND | ug/l | 2.0 | | | |
| o-Xylene | ND | ug/l | 2.0 | | | |
| cis-1,2-Dichloroethene | 14 | ug/l | 1.0 | | | |
| Dibromomethane | ND | ug/l | 10. | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 10. | | | |
| Acrylonitrile | ND | ug/l | 10. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0812904-12
PWG-VP-2008-01 (96-100')

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0905 14:44 PD | | |
| Styrene | ND | ug/l | 2.0 | | | | | |
| Dichlorodifluoromethane | ND | ug/l | 10. | | | | | |
| Acetone | 32 | ug/l | 10 | | | | | |
| Carbon disulfide | ND | ug/l | 10. | | | | | |
| 2-Butanone | ND | ug/l | 10. | | | | | |
| Vinyl acetate | ND | ug/l | 10. | | | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 10. | | | | | |
| 2-Hexanone | ND | ug/l | 10. | | | | | |
| Bromochloromethane | ND | ug/l | 5.0 | | | | | |
| 2,2-Dichloropropane | ND | ug/l | 5.0 | | | | | |
| 1,2-Dibromoethane | ND | ug/l | 4.0 | | | | | |
| 1,3-Dichloropropane | ND | ug/l | 5.0 | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 1.0 | | | | | |
| Bromobenzene | ND | ug/l | 5.0 | | | | | |
| n-Butylbenzene | ND | ug/l | 1.0 | | | | | |
| sec-Butylbenzene | ND | ug/l | 1.0 | | | | | |
| tert-Butylbenzene | ND | ug/l | 5.0 | | | | | |
| o-Chlorotoluene | ND | ug/l | 5.0 | | | | | |
| p-Chlorotoluene | ND | ug/l | 5.0 | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 5.0 | | | | | |
| Hexachlorobutadiene | ND | ug/l | 1.2 | | | | | |
| Isopropylbenzene | ND | ug/l | 1.0 | | | | | |
| p-Isopropyltoluene | ND | ug/l | 1.0 | | | | | |
| Naphthalene | ND | ug/l | 5.0 | | | | | |
| n-Propylbenzene | ND | ug/l | 1.0 | | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 5.0 | | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 5.0 | | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 5.0 | | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 5.0 | | | | | |
| 1,4-Diethylbenzene | ND | ug/l | 4.0 | | | | | |
| 4-Ethyltoluene | ND | ug/l | 4.0 | | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 4.0 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 1,2-Dichloroethane-d4 | 107 | % | 70-130 | | | | | |
| Toluene-d8 | 99.0 | % | 70-130 | | | | | |
| 4-Bromofluorobenzene | 101 | % | 70-130 | | | | | |
| Dibromofluoromethane | 101 | % | 70-130 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0812904

| Parameter | LCS % | LCSD % | RPD | RPD Limit | QC Limits |
|--|-------|--------|-----|-----------|-----------|
| Volatile Organics by EPA 8260B for sample(s) 01-03 (WG335362-1, WG335362-2) | | | | | |
| Chlorobenzene | 109 | 90 | 19 | 20 | 75-130 |
| Benzene | 108 | 90 | 18 | 20 | 76-127 |
| Toluene | 108 | 89 | 19 | 20 | 76-125 |
| 1,1-Dichloroethene | 106 | 87 | 20 | 20 | 61-145 |
| Trichloroethene | 106 | 87 | 20 | 20 | 71-120 |
| Surrogate(s) | | | | | |
| 1,2-Dichloroethane-d4 | 105 | 106 | 1 | | 70-130 |
| Toluene-d8 | 98 | 99 | 1 | | 70-130 |
| 4-Bromofluorobenzene | 96 | 99 | 3 | | 70-130 |
| Dibromofluoromethane | 103 | 102 | 1 | | 70-130 |
| Volatile Organics by EPA 8260B for sample(s) 10-11 (WG335362-7, WG335362-8) | | | | | |
| Chlorobenzene | 99 | 98 | 8 | 20 | 75-130 |
| Benzene | 99 | 96 | 8 | 20 | 76-127 |
| Toluene | 100 | 100 | 7 | 20 | 76-125 |
| 1,1-Dichloroethene | 98 | 97 | 6 | 20 | 61-145 |
| Trichloroethene | 97 | 96 | 6 | 20 | 71-120 |
| Surrogate(s) | | | | | |
| 1,2-Dichloroethane-d4 | 102 | 103 | 1 | | 70-130 |
| Toluene-d8 | 99 | 100 | 1 | | 70-130 |
| 4-Bromofluorobenzene | 99 | 100 | 1 | | 70-130 |
| Dibromofluoromethane | 100 | 98 | 2 | | 70-130 |
| Volatile Organics by EPA 8260B for sample(s) 04-09,12 (WG335362-4, WG335362-5) | | | | | |
| Chlorobenzene | 106 | 98 | 11 | 20 | 75-130 |
| Benzene | 104 | 98 | 10 | 20 | 76-127 |
| Toluene | 107 | 100 | 8 | 20 | 76-125 |
| 1,1-Dichloroethene | 103 | 95 | 11 | 20 | 61-145 |
| Trichloroethene | 102 | 96 | 10 | 20 | 71-120 |
| Surrogate(s) | | | | | |
| 1,2-Dichloroethane-d4 | 102 | 103 | 1 | | 70-130 |
| Toluene-d8 | 100 | 98 | 2 | | 70-130 |
| 4-Bromofluorobenzene | 98 | 99 | 1 | | 70-130 |
| Dibromofluoromethane | 99 | 100 | 1 | | 70-130 |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0812904

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|--------|-------|------|------------|------------------------|----|
| Blank Analysis for sample(s) 01-03 (WG335362-3) | | | | | | |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0904 16:54 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | |
| Chloroform | ND | ug/l | 0.75 | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | |
| Tetrachloroethene | ND | ug/l | 0.50 | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | |
| Bromoform | ND | ug/l | 2.0 | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Benzene | ND | ug/l | 0.50 | | | |
| Toluene | ND | ug/l | 0.75 | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | |
| Chloromethane | ND | ug/l | 2.5 | | | |
| Bromomethane | ND | ug/l | 1.0 | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | |
| Chloroethane | ND | ug/l | 1.0 | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | |
| Trichloroethene | ND | ug/l | 0.50 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| Methyl tert butyl ether | ND | ug/l | 1.0 | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | |
| o-Xylene | ND | ug/l | 1.0 | | | |
| cis-1,2-Dichloroethene | ND | ug/l | 0.50 | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | |
| Styrene | ND | ug/l | 1.0 | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | |
| Acetone | ND | ug/l | 5.0 | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | |
| 2-Butanone | ND | ug/l | 5.0 | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0812904

Continued

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--|----------|-------|-------------|------------|------------------------|----|
| Blank Analysis for sample(s) 01-03 (WG335362-3) | | | | | | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0904 16:54 PD | |
| Bromochloromethane | ND | ug/l | 2.5 | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | |
| Naphthalene | ND | ug/l | 2.5 | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 105 | % | 70-130 | | | |
| Toluene-d8 | 100 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 99.0 | % | 70-130 | | | |
| Dibromofluoromethane | 98.0 | % | 70-130 | | | |
| Blank Analysis for sample(s) 04-09,12 (WG335362-6) | | | | | | |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0905 09:33 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | |
| Chloroform | ND | ug/l | 0.75 | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | |
| Tetrachloroethene | ND | ug/l | 0.50 | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0812904

Continued

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|--|--------|-------|------|------------|-------|---------------|----|
| | | | | | PREP | ANAL | |
| Blank Analysis for sample(s) 04-09,12 (WG335362-6) | | | | | | | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0905 09:33 PD | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | | |
| Bromoform | ND | ug/l | 2.0 | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | |
| Benzene | ND | ug/l | 0.50 | | | | |
| Toluene | ND | ug/l | 0.75 | | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | | |
| Chloromethane | ND | ug/l | 2.5 | | | | |
| Bromomethane | ND | ug/l | 1.0 | | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | | |
| Chloroethane | ND | ug/l | 1.0 | | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | | |
| Trichloroethene | ND | ug/l | 0.50 | | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | | |
| Methyl tert butyl ether | ND | ug/l | 1.0 | | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | | |
| o-Xylene | ND | ug/l | 1.0 | | | | |
| cis-1,2-Dichloroethene | ND | ug/l | 0.50 | | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | | |
| Styrene | ND | ug/l | 1.0 | | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | | |
| Acetone | ND | ug/l | 5.0 | | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | | |
| 2-Butanone | ND | ug/l | 5.0 | | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | | |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0812904

Continued

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--|----------|-------|-------------|------------|------------------------|----|
| Blank Analysis for sample(s) 04-09,12 (WG335362-6) | | | | | | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0905 09:33 PD | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | |
| Naphthalene | ND | ug/l | 2.5 | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 104 | % | 70-130 | | | |
| Toluene-d8 | 99.0 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 102 | % | 70-130 | | | |
| Dibromofluoromethane | 99.0 | % | 70-130 | | | |
| Blank Analysis for sample(s) 10-11 (WG335362-9) | | | | | | |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0905 17:52 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | |
| Chloroform | ND | ug/l | 0.75 | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | |
| Tetrachloroethene | ND | ug/l | 0.50 | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | |
| Bromoform | ND | ug/l | 2.0 | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Benzene | ND | ug/l | 0.50 | | | |
| Toluene | ND | ug/l | 0.75 | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | |
| Chloromethane | ND | ug/l | 2.5 | | | |
| Bromomethane | ND | ug/l | 1.0 | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | |
| Chloroethane | ND | ug/l | 1.0 | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0812904

Continued

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|--------|-------|------|------------|------------------------|----|
| Blank Analysis for sample(s) 10-11 (WG335362-9) | | | | | | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0905 17:52 PD | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | |
| Trichloroethene | ND | ug/l | 0.50 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| Methyl tert butyl ether | ND | ug/l | 1.0 | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | |
| o-Xylene | ND | ug/l | 1.0 | | | |
| cis-1,2-Dichloroethene | ND | ug/l | 0.50 | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | |
| Styrene | ND | ug/l | 1.0 | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | |
| Acetone | ND | ug/l | 5.0 | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | |
| 2-Butanone | ND | ug/l | 5.0 | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | |
| Naphthalene | ND | ug/l | 2.5 | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0812904

Continued

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---|----------|-------|-------------|------------|-------|---------------|----|
| | | | | | PREP | ANAL | |
| Blank Analysis for sample(s) 10-11 (WG335362-9) | | | | | | | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0905 17:52 PD | |
| Surrogate(s) | Recovery | | QC Criteria | | | | |
| 1,2-Dichloroethane-d4 | 104 | % | 70-130 | | | | |
| Toluene-d8 | 100 | % | 70-130 | | | | |
| 4-Bromofluorobenzene | 102 | % | 70-130 | | | | |
| Dibromofluoromethane | 96.0 | % | 70-130 | | | | |

**ALPHA ANALYTICAL
ADDENDUM I**

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

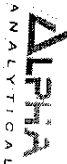
GLOSSARY OF TERMS AND SYMBOLS

| | |
|---------|--|
| REF | Reference number in which test method may be found. |
| METHOD | Method number by which analysis was performed. |
| ID | Initials of the analyst. |
| ND | Not detected in comparison to the reported detection limit. |
| NI | Not Ignitable. |
| ug/cart | Micrograms per Cartridge. |
| H | The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection. |

LIMITATION OF LIABILITIES

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.



CHAIN OF CUSTODY

PAGE 1 of 2

Project Information

Westborough, MA Mansfield, MA
TEL: 508-898-9220 TEL: 508-622-9300
FAX: 508-898-9193 FAX: 508-823-3288

Project Name:

Project Location: 85-600 Banks Ave

Project #: A180801

Project Manager: Kris Ahnslog

Bohemia, NY 11716

ALPHA Quote #:

Turn-Around Time

Phone: 631-589-6353

Fax: 631-589-8735

Email:

☒ Standard

☐ Rush (ONLY IF PRE-APPROVED)

☐ These samples have been previously analyzed by Alpha

Due Date: 9/8/08

Time:

Other Project Specific Requirements/Comments/Detect on Limits:

Date Rec'd in Lab

8/29/08

ALPHA Job #: 10812964

Report Information

FAX ☐ EMAIL ☐

ADEX ☐ Add'l Deliverables ☐

Regulatory Requirements/Report Limits

State/Ref Program

Criteria

MCP PRESUMPTIVE CERTAINTY-CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes ☐ No ☐ No ☐ No ☐ No ☐ No

Are MCP Analytical Methods Required?

ANALYSIS

SAMPLE HANDLING

Filtration ☐ Done

Not Needed ☒

Lab to do ☐

Preservation ☐

Lab to do ☐

(Please specify below)

ALPHA Lab ID
(Lab Use Only)

Sample ID

Collection
Date Time

Sample
Matrix

Sampler's
Initials

TCL VOCs 1260

Sample Specific
Comments

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MA MCP or CT RCP?

FORM NO. 01-0701
(Rev. 05-20-07)

Relinquished By

Container Type

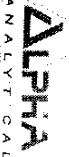
Preservative

Date/Time

Received By

Date/Time

Please print clearly, legibly, and completely. Samples can not be logged in and turn-around time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms



CHAIN OF CUSTODY

PAGE 2 OF 2

Project Information

Westborough, MA Mansfield, MA
TEL: 508-898-9220 TEL: 508-822-9300
FAX: 508-898-9193 FAX: 508-822-3289

Project Name:

Client Information

Project Location: 80-100 Banks Ave, North Attleboro, MA

Client P.W. Grosser

Project #: A180901

Address: 630 Johnson Avenue, Suite 7

Project Manager: Kris Almbus

Bohemia, NY 11716

ALPHA Quote #:

Phone: 631-589-6353

Turn-Around Time

Fax: 631-589-8705

☒ Standard

☐ Rust (ONLY IF PRE-APPROVED)

Email:

☐ These samples have been previously analyzed by Alpha

Due Date:

9/18/08

Time:

Other Project Specific Requirements/Comments/Detection Limits:

Date Rec'd in Lab:

8/20/08

ALPHA Job #:

10812904

Report Information Data Deliverables

☐ FAX

☐ EMAIL

☐ Same as Client Info

PO #

☐ ADEX

☐ Add'l Deliverables

Regulatory Requirements/Report Limits

State/Fed Program

Criteria

NYSDoc Aged Project

MCP PRESUMPTIVE CERTAINTY-CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

ANALYSIS

SAMPLE HANDLING

Filtration

☐ Done

☒ Not Needed

☐ Lab to do

☐ Preservation

☐ Lab to do

(Please specify below)

ALPHA Lab ID
(Lab Use Only)

Sample ID

Collection
Date Time

Sample
Matrix

Sampler's
Initials

Sample Specific
Comments

2904, 11

PMG-VP-2008-01 (K1-100)

9/15/08

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PMG-VP-2008-02 (K1-100)

9/15/08

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PLEASE ANSWER QUESTIONS ABOVE

IS YOUR PROJECT
MA MCP or CT RCP?

FORM NO. 01-2001
(Rev. 30-Jul-07)

Relinquished By:

2/2/08 Kaito Long

Container Type

46mL

Preservative

HCl

Date/Time

8/23/08 1445

Received By:

8/23/08 1535 Kaito Long

Date/Time

8/23/08 1535

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.

ALPHA ANALYTICAL

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220 www.alphalab.com

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: P.W. Grosser

Laboratory Job Number: L0813447

Address: 630 Johnson Avenue
Suite 7
Bohemia, NY 11716

Date Received: 11-SEP-2008

Date Reported: 22-SEP-2008

Attn: Mr. Kris Almskog

Delivery Method: Alpha

Project Number: AVB0801

Site: AVALON BAY

| ALPHA SAMPLE NUMBER | CLIENT IDENTIFICATION | SAMPLE LOCATION |
|---------------------|--------------------------|---------------------------------|
| L0813447-01 | TB091008 | 80 BARKS AVE., ROCKVILLE CENTER |
| L0813447-02 | PWG-DW-2008-27(12.5-13') | 80 BARKS AVE., ROCKVILLE CENTER |
| L0813447-03 | PWG-DW-2008-28(12-12.5') | 80 BARKS AVE., ROCKVILLE CENTER |
| L0813447-04 | PWG-DW-2008-29(10-10.5') | 80 BARKS AVE., ROCKVILLE CENTER |
| L0813447-05 | PWG-DW-2008-30(8.5-9') | 80 BARKS AVE., ROCKVILLE CENTER |
| L0813447-06 | PWG-DW-2008-31(8-8.5') | 80 BARKS AVE., ROCKVILLE CENTER |
| L0813447-07 | PWG-DW-2008-33(7-7.5') | 80 BARKS AVE., ROCKVILLE CENTER |
| L0813447-08 | PWG-DW-2008-34(5.5-6') | 80 BARKS AVE., ROCKVILLE CENTER |
| L0813447-09 | PWG-DW-2008-37(11-11.5') | 80 BARKS AVE., ROCKVILLE CENTER |
| L0813447-10 | PWG-DW-2008-101(5.5-6') | 80 BARKS AVE., ROCKVILLE CENTER |
| L0813447-11 | PWG-DW-2008-38(7-7.5') | 80 BARKS AVE., ROCKVILLE CENTER |
| L0813447-12 | PWG-DW-2008-39(8.5-9') | 80 BARKS AVE., ROCKVILLE CENTER |
| L0813447-13 | PWG-DW-2008-40(6-6.5') | 80 BARKS AVE., ROCKVILLE CENTER |
| L0813447-14 | PWG-DW-2008-41(9-9.5') | 80 BARKS AVE., ROCKVILLE CENTER |
| L0813447-15 | PWG-DW-2008-42(2-5') | 80 BARKS AVE., ROCKVILLE CENTER |

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: _____

Technical Representative

**ALPHA ANALYTICAL
NARRATIVE REPORT**

Laboratory Job Number: L0813447

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

Metals

L0813447-08 and -10 have elevated detection limits for Mercury due to the 5x dilutions required to quantitate the results within the calibration range.

The WG336219-1/-2 MS/MSD recoveries associated with L0813447-13 are outside the acceptance criteria for Antimony, Arsenic (MSD only), Chromium, Copper (MS only), Lead, and Manganese. Post-digestion spikes were performed with acceptable recoveries of 108%, 113%, 77%, 80%, 77%, and 98%, respectively. The MS recoveries for Aluminum, Calcium, Iron, Magnesium, and Zinc are invalid because the sample concentration is greater than four times the spike amount added. In addition, the associated MS/MSD RPDs are outside the acceptance criteria for Aluminum, Manganese, and Zinc. The elevated RPDs have been attributed to the non-homogenous nature of the sample utilized for the MS/MSD.

Volatile Organics

The surrogate recovery for L0813447-05 is above the acceptance criteria for 4-Bromofluorobenzene; however, the sample was not re-analyzed due to coelution with obvious interferences. A copy of the chromatogram is included as an attachment to this report. The results are not considered to be biased.

L0813447-10: The internal standard (IS) response for 1,4-Dichlorobenzene-d4 is below and the surrogate recoveries for Toluene-d8 and 4-Bromofluorobenzene are above the acceptance criteria; however, re-analysis achieved similar results. The results of both analyses are reported.

L0813447-11: The internal standard (IS) response for 1,4-Dichlorobenzene-d4 is below and the surrogate recovery for 4-Bromofluorobenzene is above the acceptance criteria; however, re-analysis achieved similar results. The results of both analyses are reported.

L0813447-11 re-analysis has elevated detection limits due to the 4x dilution required by the elevated concentrations of non-target compounds in the sample.

Semivolatile Organics

The following samples have elevated detection limits due to the dilutions required by matrix interferences encountered during the concentration of the samples:

L0813447-05, -07, -08, -10, -11, -12: 15x

L0813447-13: 5x

L0813447-06 has elevated detection limits due to the 10x dilution required by the sample matrix.

L0813447-09 has elevated detection limits due to the 10x dilution required by the matrix

ALPHA ANALYTICAL
NARRATIVE REPORT

Laboratory Job Number: L0813447

Continued

interferences encountered during the concentration of the sample and the 5x dilution required by the sample matrix.

The surrogate recoveries for L0813447-09 are below the acceptance criteria for 2-Fluorophenol, Phenol-d6, Nitrobenzene-d5, 2-Fluorobiphenyl, 2,4,6-Tribromophenol and 4-Terphenyl-d14 due to the dilutions required to quantitate the sample. Re-extraction is not required; therefore, the results of the original analysis are reported.

The WG336983-2/-3 LCS/LCSD recoveries associated with L0813447-02 through -14 was above the acceptance criteria for 2,4-Dinitrotoluene; however, the associated samples were non-detect for this target compound. The results of the original analysis are reported.

Semivolatile Organics-SIM

L0813447-03, -04, and -14 have elevated detection limits due to the 5x dilutions required by the sample matrices.

L0813447-05, -07, and -08 have elevated detection limits due to the 2x dilutions required by the matrix interferences encountered during the concentration of the samples and the 50x dilutions required by the sample matrices.

L0813447-06, and -09 through -13 have elevated detection limits due to the 5x dilutions required by the matrix interferences encountered during the concentration of the samples and the 20x dilutions required by the sample matrices.

The surrogate recoveries for L0813447-05 through -13 are below the acceptance criteria for 2-Fluorophenol, Phenol-d6, Nitrobenzene-d5, 2-Fluorobiphenyl, 2,4,6-Tribromophenol, and 4-Terphenyl-d14 due to the dilutions required to quantitate the samples. Re-extraction is not required; therefore, the results of the original analyses are reported.

TPH-DRO

L0813447-05, -09, and -11 have elevated detection limits due to the 10x dilutions required by the matrix interferences encountered during the concentration of the samples and the 5x dilutions required by the elevated concentrations of target compounds in the samples.

L0813447-06, -07, -08, and -10 have elevated detection limits due to the 10x dilutions required by the elevated concentrations of target compounds in the samples.

The following samples have elevated detection limits due to the dilutions required by matrix interferences encountered during the concentration of the samples:

L0813447-12: 10x

L0813447-13: 5x

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|---------------------------------------|-----------------------------------|
| Laboratory Sample Number: L0813447-01 | Date Collected: 10-SEP-2008 00:00 |
| TB091008 | Date Received : 11-SEP-2008 |
| Sample Matrix: WATER | Date Reported : 22-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 2-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-------------------|----|
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0912 12:49 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | |
| Chloroform | ND | ug/l | 0.75 | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | |
| Tetrachloroethene | ND | ug/l | 0.50 | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | |
| Bromoform | ND | ug/l | 2.0 | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Benzene | ND | ug/l | 0.50 | | | |
| Toluene | ND | ug/l | 0.75 | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | |
| Chloromethane | ND | ug/l | 2.5 | | | |
| Bromomethane | ND | ug/l | 1.0 | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | |
| Chloroethane | ND | ug/l | 1.0 | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | |
| Trichloroethene | ND | ug/l | 0.50 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| Methyl tert butyl ether | ND | ug/l | 1.0 | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | |
| o-Xylene | ND | ug/l | 1.0 | | | |
| cis-1,2-Dichloroethene | ND | ug/l | 0.50 | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813447-01
TB091008

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|-------------------|----|
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0912 12:49 PD | |
| Styrene | ND | ug/l | 1.0 | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | |
| Acetone | ND | ug/l | 5.0 | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | |
| 2-Butanone | ND | ug/l | 5.0 | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | |
| Naphthalene | ND | ug/l | 2.5 | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 102 | % | 70-130 | | | |
| Toluene-d8 | 98.0 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 105 | % | 70-130 | | | |
| Dibromofluoromethane | 98.0 | % | 70-130 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0813447-02 | Date Collected: 10-SEP-2008 08:15 |
| PWG-DW-2008-27(12.5-13') | Date Received : 11-SEP-2008 |
| Sample Matrix: SOIL | Date Reported : 22-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 3-Amber,1-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-----------------------|----|
| Solids, Total | 78 | % | 0.10 | 30 2540G | 0913 15:45 | NM |
| Total Metals | | | | | | |
| Aluminum, Total | 15000 | mg/kg | 6.3 | 1 6010B | 0912 18:00 0918 12:50 | AI |
| Antimony, Total | ND | mg/kg | 3.2 | 1 6010B | 0912 18:00 0918 12:50 | AI |
| Arsenic, Total | 0.90 | mg/kg | 0.63 | 1 6010B | 0912 18:00 0919 11:36 | AI |
| Barium, Total | 37 | mg/kg | 0.63 | 1 6010B | 0912 18:00 0918 12:50 | AI |
| Beryllium, Total | 0.36 | mg/kg | 0.32 | 1 6010B | 0912 18:00 0918 12:50 | AI |
| Cadmium, Total | 0.63 | mg/kg | 0.63 | 1 6010B | 0912 18:00 0918 12:50 | AI |
| Calcium, Total | 520 | mg/kg | 6.3 | 1 6010B | 0912 18:00 0918 12:50 | AI |
| Chromium, Total | 15 | mg/kg | 0.63 | 1 6010B | 0912 18:00 0918 12:50 | AI |
| Cobalt, Total | 4.0 | mg/kg | 1.3 | 1 6010B | 0912 18:00 0918 12:50 | AI |
| Copper, Total | 13 | mg/kg | 0.63 | 1 6010B | 0912 18:00 0918 12:50 | AI |
| Iron, Total | 16000 | mg/kg | 3.2 | 1 6010B | 0912 18:00 0918 12:50 | AI |
| Lead, Total | 10 | mg/kg | 3.2 | 1 6010B | 0912 18:00 0918 12:50 | AI |
| Magnesium, Total | 3200 | mg/kg | 6.3 | 1 6010B | 0912 18:00 0918 12:50 | AI |
| Manganese, Total | 120 | mg/kg | 0.63 | 1 6010B | 0912 18:00 0919 11:36 | AI |
| Mercury, Total | ND | mg/kg | 0.10 | 1 7471A | 0912 20:30 0914 14:13 | HG |
| Nickel, Total | 14 | mg/kg | 1.6 | 1 6010B | 0912 18:00 0918 12:50 | AI |
| Potassium, Total | 1100 | mg/kg | 160 | 1 6010B | 0912 18:00 0918 12:50 | AI |
| Selenium, Total | ND | mg/kg | 1.3 | 1 6010B | 0912 18:00 0919 11:36 | AI |
| Silver, Total | ND | mg/kg | 0.63 | 1 6010B | 0912 18:00 0918 12:50 | AI |
| Sodium, Total | ND | mg/kg | 130 | 1 6010B | 0912 18:00 0918 12:50 | AI |
| Thallium, Total | ND | mg/kg | 1.3 | 1 6010B | 0912 18:00 0918 12:50 | AI |
| Vanadium, Total | 27 | mg/kg | 0.63 | 1 6010B | 0912 18:00 0918 12:50 | AI |
| Zinc, Total | 61 | mg/kg | 3.2 | 1 6010B | 0912 18:00 0918 12:50 | AI |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0915 14:53 | PD |
| Methylene chloride | ND | ug/kg | 32. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 4.8 | | | |
| Chloroform | ND | ug/kg | 4.8 | | | |
| Carbon tetrachloride | ND | ug/kg | 3.2 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 11. | | | |
| Dibromochloromethane | ND | ug/kg | 3.2 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 4.8 | | | |
| Tetrachloroethene | ND | ug/kg | 3.2 | | | |
| Chlorobenzene | ND | ug/kg | 3.2 | | | |
| Trichlorofluoromethane | ND | ug/kg | 16. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813447-02
PWG-DW-2008-27(12.5-13')

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|--------|-------|-----|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0915 14:53 PD | | |
| 1,2-Dichloroethane | ND | ug/kg | 3.2 | | | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 3.2 | | | | | |
| Bromodichloromethane | ND | ug/kg | 3.2 | | | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 3.2 | | | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 3.2 | | | | | |
| 1,1-Dichloropropene | ND | ug/kg | 16. | | | | | |
| Bromoform | ND | ug/kg | 13. | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 3.2 | | | | | |
| Benzene | ND | ug/kg | 3.2 | | | | | |
| Toluene | ND | ug/kg | 4.8 | | | | | |
| Ethylbenzene | ND | ug/kg | 3.2 | | | | | |
| Chloromethane | ND | ug/kg | 16. | | | | | |
| Bromomethane | ND | ug/kg | 6.4 | | | | | |
| Vinyl chloride | ND | ug/kg | 6.4 | | | | | |
| Chloroethane | ND | ug/kg | 6.4 | | | | | |
| 1,1-Dichloroethene | ND | ug/kg | 3.2 | | | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 4.8 | | | | | |
| Trichloroethene | ND | ug/kg | 3.2 | | | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 16. | | | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 16. | | | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 16. | | | | | |
| Methyl tert butyl ether | ND | ug/kg | 6.4 | | | | | |
| p/m-Xylene | ND | ug/kg | 6.4 | | | | | |
| o-Xylene | ND | ug/kg | 6.4 | | | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 3.2 | | | | | |
| Dibromomethane | ND | ug/kg | 32. | | | | | |
| Styrene | ND | ug/kg | 6.4 | | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 32. | | | | | |
| Acetone | ND | ug/kg | 32. | | | | | |
| Carbon disulfide | ND | ug/kg | 32. | | | | | |
| 2-Butanone | ND | ug/kg | 32. | | | | | |
| Vinyl acetate | ND | ug/kg | 32. | | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 32. | | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 32. | | | | | |
| 2-Hexanone | ND | ug/kg | 32. | | | | | |
| Bromochloromethane | ND | ug/kg | 16. | | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 16. | | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 13. | | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 16. | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 3.2 | | | | | |
| Bromobenzene | ND | ug/kg | 16. | | | | | |
| n-Butylbenzene | ND | ug/kg | 3.2 | | | | | |
| sec-Butylbenzene | ND | ug/kg | 3.2 | | | | | |
| tert-Butylbenzene | ND | ug/kg | 16. | | | | | |
| o-Chlorotoluene | ND | ug/kg | 16. | | | | | |
| p-Chlorotoluene | ND | ug/kg | 16. | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 16. | | | | | |
| Hexachlorobutadiene | ND | ug/kg | 16. | | | | | |
| Isopropylbenzene | ND | ug/kg | 3.2 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813447-02
PWG-DW-2008-27(12.5-13')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|--------------------------|----|
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0915 14:53 PD | |
| p-Isopropyltoluene | ND | ug/kg | 3.2 | | | |
| Naphthalene | ND | ug/kg | 16. | | | |
| Acrylonitrile | ND | ug/kg | 32. | | | |
| n-Propylbenzene | ND | ug/kg | 3.2 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 16. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 16. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 16. | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 16. | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 13. | | | |
| 4-Ethyltoluene | ND | ug/kg | 13. | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 13. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 96.0 | % | 70-130 | | | |
| Toluene-d8 | 107 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 116 | % | 70-130 | | | |
| Dibromofluoromethane | 98.0 | % | 70-130 | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 0916 19:00 0918 11:54 PS | |
| Acenaphthene | ND | ug/kg | 430 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 430 | | | |
| Hexachlorobenzene | ND | ug/kg | 430 | | | |
| Bis(2-chloroethyl)ether | ND | ug/kg | 430 | | | |
| 2-Chloronaphthalene | ND | ug/kg | 510 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 430 | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 430 | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 430 | | | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 850 | | | |
| 2,4-Dinitrotoluene | ND | ug/kg | 430 | | | |
| 2,6-Dinitrotoluene | ND | ug/kg | 430 | | | |
| Fluoranthene | ND | ug/kg | 430 | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/kg | 430 | | | |
| 4-Bromophenyl phenyl ether | ND | ug/kg | 430 | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/kg | 430 | | | |
| Bis(2-chloroethoxy)methane | ND | ug/kg | 430 | | | |
| Hexachlorobutadiene | ND | ug/kg | 850 | | | |
| Hexachlorocyclopentadiene | ND | ug/kg | 850 | | | |
| Hexachloroethane | ND | ug/kg | 430 | | | |
| Isophorone | ND | ug/kg | 430 | | | |
| Naphthalene | ND | ug/kg | 430 | | | |
| Nitrobenzene | ND | ug/kg | 430 | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/kg | 1300 | | | |
| n-Nitrosodi-n-propylamine | ND | ug/kg | 430 | | | |
| Bis(2-Ethylhexyl)phthalate | ND | ug/kg | 850 | | | |
| Butyl benzyl phthalate | ND | ug/kg | 430 | | | |
| Di-n-butylphthalate | ND | ug/kg | 430 | | | |
| Di-n-octylphthalate | ND | ug/kg | 430 | | | |
| Diethyl phthalate | ND | ug/kg | 430 | | | |
| Dimethyl phthalate | ND | ug/kg | 430 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813447-02
PWG-DW-2008-27(12.5-13')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 8270C | 0916 19:00 0918 11:54 PS | |
| Benzo(a)anthracene | ND | ug/kg | 430 | | | |
| Benzo(a)pyrene | ND | ug/kg | 430 | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 430 | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 430 | | | |
| Chrysene | ND | ug/kg | 430 | | | |
| Acenaphthylene | ND | ug/kg | 430 | | | |
| Anthracene | ND | ug/kg | 430 | | | |
| Benzo(ghi)perylene | ND | ug/kg | 430 | | | |
| Fluorene | ND | ug/kg | 430 | | | |
| Phenanthrene | ND | ug/kg | 430 | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 430 | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 430 | | | |
| Pyrene | ND | ug/kg | 430 | | | |
| Biphenyl | ND | ug/kg | 430 | | | |
| 4-Chloroaniline | ND | ug/kg | 430 | | | |
| 2-Nitroaniline | ND | ug/kg | 430 | | | |
| 3-Nitroaniline | ND | ug/kg | 430 | | | |
| 4-Nitroaniline | ND | ug/kg | 600 | | | |
| Dibenzofuran | ND | ug/kg | 430 | | | |
| 2-Methylnaphthalene | ND | ug/kg | 430 | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/kg | 1700 | | | |
| Acetophenone | ND | ug/kg | 1700 | | | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 430 | | | |
| p-Chloro-M-Cresol | ND | ug/kg | 430 | | | |
| 2-Chlorophenol | ND | ug/kg | 510 | | | |
| 2,4-Dichlorophenol | ND | ug/kg | 850 | | | |
| 2,4-Dimethylphenol | ND | ug/kg | 430 | | | |
| 2-Nitrophenol | ND | ug/kg | 1700 | | | |
| 4-Nitrophenol | ND | ug/kg | 850 | | | |
| 2,4-Dinitrophenol | ND | ug/kg | 1700 | | | |
| 4,6-Dinitro-o-cresol | ND | ug/kg | 1700 | | | |
| Pentachlorophenol | ND | ug/kg | 1700 | | | |
| Phenol | ND | ug/kg | 600 | | | |
| 2-Methylphenol | ND | ug/kg | 510 | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/kg | 510 | | | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 430 | | | |
| Benzoic Acid | ND | ug/kg | 4300 | | | |
| Benzyl Alcohol | ND | ug/kg | 850 | | | |
| Carbazole | ND | ug/kg | 430 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 69.0 | % | 25-120 | | | |
| Phenol-d6 | 69.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 61.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 63.0 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 95.0 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 80.0 | % | 18-120 | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 8270C | 0912 21:30 0916 01:41 AK | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813447-02
PWG-DW-2008-27(12.5-13')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C-SIM cont'd | | | | 1 8270C | 0912 21:30 0916 01:41 AK | |
| Acenaphthene | ND | ug/kg | 17. | | | |
| 2-Chloronaphthalene | ND | ug/kg | 17. | | | |
| Fluoranthene | ND | ug/kg | 17. | | | |
| Hexachlorobutadiene | ND | ug/kg | 43. | | | |
| Naphthalene | ND | ug/kg | 17. | | | |
| Benzo(a)anthracene | ND | ug/kg | 17. | | | |
| Benzo(a)pyrene | ND | ug/kg | 17. | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 17. | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 17. | | | |
| Chrysene | ND | ug/kg | 17. | | | |
| Acenaphthylene | ND | ug/kg | 17. | | | |
| Anthracene | ND | ug/kg | 17. | | | |
| Benzo(ghi)perylene | ND | ug/kg | 17. | | | |
| Fluorene | ND | ug/kg | 17. | | | |
| Phenanthrene | ND | ug/kg | 17. | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 17. | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 17. | | | |
| Pyrene | ND | ug/kg | 17. | | | |
| 2-Methylnaphthalene | ND | ug/kg | 17. | | | |
| Pentachlorophenol | ND | ug/kg | 68. | | | |
| Hexachlorobenzene | ND | ug/kg | 68. | | | |
| Hexachloroethane | ND | ug/kg | 68. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 76.0 | % | 25-120 | | | |
| Phenol-d6 | 84.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 74.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 66.0 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 67.0 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 77.0 | % | 18-120 | | | |
| Petroleum Hydrocarbon Quantitation by GC-FID | | | | 1 8015B(M) | 0916 01:30 0917 20:55 JL | |
| TPH | ND | ug/kg | 42700 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| o-Terphenyl | 64.0 | % | 40-140 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0813447-03 | Date Collected: 10-SEP-2008 08:50 |
| PWG-DW-2008-28(12-12.5') | Date Received : 11-SEP-2008 |
| Sample Matrix: SOIL | Date Reported : 22-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 3-Amber,1-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-----------------------|----|
| Solids, Total | 68 | % | 0.10 | 30 2540G | 0913 15:45 | NM |
| Total Metals | | | | | | |
| Aluminum, Total | 12000 | mg/kg | 6.8 | 1 6010B | 0912 18:00 0918 12:53 | AI |
| Antimony, Total | ND | mg/kg | 3.4 | 1 6010B | 0912 18:00 0918 12:53 | AI |
| Arsenic, Total | 2.1 | mg/kg | 0.68 | 1 6010B | 0912 18:00 0919 11:39 | AI |
| Barium, Total | 41 | mg/kg | 0.68 | 1 6010B | 0912 18:00 0918 12:53 | AI |
| Beryllium, Total | 0.45 | mg/kg | 0.34 | 1 6010B | 0912 18:00 0918 12:53 | AI |
| Cadmium, Total | 2.2 | mg/kg | 0.68 | 1 6010B | 0912 18:00 0918 12:53 | AI |
| Calcium, Total | 760 | mg/kg | 6.8 | 1 6010B | 0912 18:00 0918 12:53 | AI |
| Chromium, Total | 14 | mg/kg | 0.68 | 1 6010B | 0912 18:00 0918 12:53 | AI |
| Cobalt, Total | 5.7 | mg/kg | 1.4 | 1 6010B | 0912 18:00 0918 12:53 | AI |
| Copper, Total | 30 | mg/kg | 0.68 | 1 6010B | 0912 18:00 0918 12:53 | AI |
| Iron, Total | 11000 | mg/kg | 3.4 | 1 6010B | 0912 18:00 0918 12:53 | AI |
| Lead, Total | 160 | mg/kg | 3.4 | 1 6010B | 0912 18:00 0918 12:53 | AI |
| Magnesium, Total | 1200 | mg/kg | 6.8 | 1 6010B | 0912 18:00 0918 12:53 | AI |
| Manganese, Total | 66 | mg/kg | 0.68 | 1 6010B | 0912 18:00 0919 11:39 | AI |
| Mercury, Total | ND | mg/kg | 0.12 | 1 7471A | 0912 20:30 0914 14:15 | HG |
| Nickel, Total | 15 | mg/kg | 1.7 | 1 6010B | 0912 18:00 0918 12:53 | AI |
| Potassium, Total | 480 | mg/kg | 170 | 1 6010B | 0912 18:00 0918 12:53 | AI |
| Selenium, Total | ND | mg/kg | 1.4 | 1 6010B | 0912 18:00 0919 11:39 | AI |
| Silver, Total | ND | mg/kg | 0.68 | 1 6010B | 0912 18:00 0918 12:53 | AI |
| Sodium, Total | ND | mg/kg | 140 | 1 6010B | 0912 18:00 0918 12:53 | AI |
| Thallium, Total | ND | mg/kg | 1.4 | 1 6010B | 0912 18:00 0918 12:53 | AI |
| Vanadium, Total | 30 | mg/kg | 0.68 | 1 6010B | 0912 18:00 0918 12:53 | AI |
| Zinc, Total | 210 | mg/kg | 3.4 | 1 6010B | 0912 18:00 0918 12:53 | AI |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0915 15:29 | PD |
| Methylene chloride | ND | ug/kg | 37. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 5.5 | | | |
| Chloroform | ND | ug/kg | 5.5 | | | |
| Carbon tetrachloride | ND | ug/kg | 3.7 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 13. | | | |
| Dibromochloromethane | ND | ug/kg | 3.7 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 5.5 | | | |
| Tetrachloroethene | ND | ug/kg | 3.7 | | | |
| Chlorobenzene | ND | ug/kg | 3.7 | | | |
| Trichlorofluoromethane | ND | ug/kg | 18. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813447-03
PWG-DW-2008-28(12-12.5')

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|--------|-------|-----|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0915 15:29 PD | | |
| 1,2-Dichloroethane | ND | ug/kg | 3.7 | | | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 3.7 | | | | | |
| Bromodichloromethane | ND | ug/kg | 3.7 | | | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 3.7 | | | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 3.7 | | | | | |
| 1,1-Dichloropropene | ND | ug/kg | 18. | | | | | |
| Bromoform | ND | ug/kg | 15. | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 3.7 | | | | | |
| Benzene | ND | ug/kg | 3.7 | | | | | |
| Toluene | ND | ug/kg | 5.5 | | | | | |
| Ethylbenzene | ND | ug/kg | 3.7 | | | | | |
| Chloromethane | ND | ug/kg | 18. | | | | | |
| Bromomethane | ND | ug/kg | 7.4 | | | | | |
| Vinyl chloride | ND | ug/kg | 7.4 | | | | | |
| Chloroethane | ND | ug/kg | 7.4 | | | | | |
| 1,1-Dichloroethene | ND | ug/kg | 3.7 | | | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 5.5 | | | | | |
| Trichloroethene | ND | ug/kg | 3.7 | | | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 18. | | | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 18. | | | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 18. | | | | | |
| Methyl tert butyl ether | ND | ug/kg | 7.4 | | | | | |
| p/m-Xylene | ND | ug/kg | 7.4 | | | | | |
| o-Xylene | ND | ug/kg | 7.4 | | | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 3.7 | | | | | |
| Dibromomethane | ND | ug/kg | 37. | | | | | |
| Styrene | ND | ug/kg | 7.4 | | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 37. | | | | | |
| Acetone | ND | ug/kg | 37. | | | | | |
| Carbon disulfide | ND | ug/kg | 37. | | | | | |
| 2-Butanone | ND | ug/kg | 37. | | | | | |
| Vinyl acetate | ND | ug/kg | 37. | | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 37. | | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 37. | | | | | |
| 2-Hexanone | ND | ug/kg | 37. | | | | | |
| Bromochloromethane | ND | ug/kg | 18. | | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 18. | | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 15. | | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 18. | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 3.7 | | | | | |
| Bromobenzene | ND | ug/kg | 18. | | | | | |
| n-Butylbenzene | ND | ug/kg | 3.7 | | | | | |
| sec-Butylbenzene | ND | ug/kg | 3.7 | | | | | |
| tert-Butylbenzene | ND | ug/kg | 18. | | | | | |
| o-Chlorotoluene | ND | ug/kg | 18. | | | | | |
| p-Chlorotoluene | ND | ug/kg | 18. | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 18. | | | | | |
| Hexachlorobutadiene | ND | ug/kg | 18. | | | | | |
| Isopropylbenzene | ND | ug/kg | 3.7 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813447-03
PWG-DW-2008-28(12-12.5')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|--------------------------|----|
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0915 15:29 PD | |
| p-Isopropyltoluene | ND | ug/kg | 3.7 | | | |
| Naphthalene | ND | ug/kg | 18. | | | |
| Acrylonitrile | ND | ug/kg | 37. | | | |
| n-Propylbenzene | ND | ug/kg | 3.7 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 18. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 18. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 18. | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 18. | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 15. | | | |
| 4-Ethyltoluene | ND | ug/kg | 15. | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 15. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 94.0 | % | 70-130 | | | |
| Toluene-d8 | 103 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 118 | % | 70-130 | | | |
| Dibromofluoromethane | 94.0 | % | 70-130 | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 0916 19:00 0918 12:17 PS | |
| Acenaphthene | ND | ug/kg | 490 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 490 | | | |
| Hexachlorobenzene | ND | ug/kg | 490 | | | |
| Bis(2-chloroethyl)ether | ND | ug/kg | 490 | | | |
| 2-Chloronaphthalene | ND | ug/kg | 590 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 490 | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 490 | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 490 | | | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 980 | | | |
| 2,4-Dinitrotoluene | ND | ug/kg | 490 | | | |
| 2,6-Dinitrotoluene | ND | ug/kg | 490 | | | |
| Fluoranthene | ND | ug/kg | 490 | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/kg | 490 | | | |
| 4-Bromophenyl phenyl ether | ND | ug/kg | 490 | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/kg | 490 | | | |
| Bis(2-chloroethoxy)methane | ND | ug/kg | 490 | | | |
| Hexachlorobutadiene | ND | ug/kg | 980 | | | |
| Hexachlorocyclopentadiene | ND | ug/kg | 980 | | | |
| Hexachloroethane | ND | ug/kg | 490 | | | |
| Isophorone | ND | ug/kg | 490 | | | |
| Naphthalene | ND | ug/kg | 490 | | | |
| Nitrobenzene | ND | ug/kg | 490 | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/kg | 1500 | | | |
| n-Nitrosodi-n-propylamine | ND | ug/kg | 490 | | | |
| Bis(2-Ethylhexyl)phthalate | ND | ug/kg | 980 | | | |
| Butyl benzyl phthalate | ND | ug/kg | 490 | | | |
| Di-n-butylphthalate | ND | ug/kg | 490 | | | |
| Di-n-octylphthalate | ND | ug/kg | 490 | | | |
| Diethyl phthalate | ND | ug/kg | 490 | | | |
| Dimethyl phthalate | ND | ug/kg | 490 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813447-03
PWG-DW-2008-28(12-12.5')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 8270C | 0916 19:00 0918 12:17 PS | |
| Benzo(a)anthracene | ND | ug/kg | 490 | | | |
| Benzo(a)pyrene | ND | ug/kg | 490 | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 490 | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 490 | | | |
| Chrysene | ND | ug/kg | 490 | | | |
| Acenaphthylene | ND | ug/kg | 490 | | | |
| Anthracene | ND | ug/kg | 490 | | | |
| Benzo(ghi)perylene | ND | ug/kg | 490 | | | |
| Fluorene | ND | ug/kg | 490 | | | |
| Phenanthrene | ND | ug/kg | 490 | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 490 | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 490 | | | |
| Pyrene | ND | ug/kg | 490 | | | |
| Biphenyl | ND | ug/kg | 490 | | | |
| 4-Chloroaniline | ND | ug/kg | 490 | | | |
| 2-Nitroaniline | ND | ug/kg | 490 | | | |
| 3-Nitroaniline | ND | ug/kg | 490 | | | |
| 4-Nitroaniline | ND | ug/kg | 690 | | | |
| Dibenzofuran | ND | ug/kg | 490 | | | |
| 2-Methylnaphthalene | ND | ug/kg | 490 | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/kg | 2000 | | | |
| Acetophenone | ND | ug/kg | 2000 | | | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 490 | | | |
| p-Chloro-M-Cresol | ND | ug/kg | 490 | | | |
| 2-Chlorophenol | ND | ug/kg | 590 | | | |
| 2,4-Dichlorophenol | ND | ug/kg | 980 | | | |
| 2,4-Dimethylphenol | ND | ug/kg | 490 | | | |
| 2-Nitrophenol | ND | ug/kg | 2000 | | | |
| 4-Nitrophenol | ND | ug/kg | 980 | | | |
| 2,4-Dinitrophenol | ND | ug/kg | 2000 | | | |
| 4,6-Dinitro-o-cresol | ND | ug/kg | 2000 | | | |
| Pentachlorophenol | ND | ug/kg | 2000 | | | |
| Phenol | ND | ug/kg | 690 | | | |
| 2-Methylphenol | ND | ug/kg | 590 | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/kg | 590 | | | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 490 | | | |
| Benzoic Acid | ND | ug/kg | 4900 | | | |
| Benzyl Alcohol | ND | ug/kg | 980 | | | |
| Carbazole | ND | ug/kg | 490 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 60.0 | % | 25-120 | | | |
| Phenol-d6 | 66.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 52.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 61.0 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 81.0 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 68.0 | % | 18-120 | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 8270C | 0912 21:30 0916 03:33 AK | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813447-03
PWG-DW-2008-28(12-12.5')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C-SIM cont'd | | | | 1 8270C | 0912 21:30 0916 03:33 AK | |
| Acenaphthene | ND | ug/kg | 98. | | | |
| 2-Chloronaphthalene | ND | ug/kg | 98. | | | |
| Fluoranthene | 220 | ug/kg | 98 | | | |
| Hexachlorobutadiene | ND | ug/kg | 240 | | | |
| Naphthalene | ND | ug/kg | 98. | | | |
| Benzo(a)anthracene | ND | ug/kg | 98. | | | |
| Benzo(a)pyrene | 210 | ug/kg | 98 | | | |
| Benzo(b)fluoranthene | 180 | ug/kg | 98 | | | |
| Benzo(k)fluoranthene | 180 | ug/kg | 98 | | | |
| Chrysene | ND | ug/kg | 98. | | | |
| Acenaphthylene | ND | ug/kg | 98. | | | |
| Anthracene | ND | ug/kg | 98. | | | |
| Benzo(ghi)perylene | ND | ug/kg | 98. | | | |
| Fluorene | ND | ug/kg | 98. | | | |
| Phenanthrene | ND | ug/kg | 98. | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 98. | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 98. | | | |
| Pyrene | 240 | ug/kg | 98 | | | |
| 2-Methylnaphthalene | ND | ug/kg | 98. | | | |
| Pentachlorophenol | ND | ug/kg | 390 | | | |
| Hexachlorobenzene | ND | ug/kg | 390 | | | |
| Hexachloroethane | ND | ug/kg | 390 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 79.0 | % | 25-120 | | | |
| Phenol-d6 | 87.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 71.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 73.0 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 72.0 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 76.0 | % | 18-120 | | | |
| Petroleum Hydrocarbon Quantitation by GC-FID | | | | 1 8015B(M) | 0916 01:30 0917 21:29 JL | |
| TPH | 165000 | ug/kg | 49000 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| o-Terphenyl | 88.0 | % | 40-140 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0813447-04 | Date Collected: 10-SEP-2008 09:15 |
| PWG-DW-2008-29(10-10.5') | Date Received : 11-SEP-2008 |
| Sample Matrix: SOIL | Date Reported : 22-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 3-Amber,1-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-----------------------|----|
| Solids, Total | 76 | % | 0.10 | 30 2540G | 0913 15:45 | NM |
| Total Metals | | | | | | |
| Aluminum, Total | 2100 | mg/kg | 6.1 | 1 6010B | 0912 18:00 0918 13:26 | AI |
| Antimony, Total | ND | mg/kg | 3.0 | 1 6010B | 0912 18:00 0918 13:26 | AI |
| Arsenic, Total | ND | mg/kg | 0.61 | 1 6010B | 0912 18:00 0919 12:08 | AI |
| Barium, Total | 9.3 | mg/kg | 0.61 | 1 6010B | 0912 18:00 0918 13:26 | AI |
| Beryllium, Total | ND | mg/kg | 0.30 | 1 6010B | 0912 18:00 0918 13:26 | AI |
| Cadmium, Total | ND | mg/kg | 0.61 | 1 6010B | 0912 18:00 0918 13:26 | AI |
| Calcium, Total | 130 | mg/kg | 6.1 | 1 6010B | 0912 18:00 0918 13:26 | AI |
| Chromium, Total | 3.2 | mg/kg | 0.61 | 1 6010B | 0912 18:00 0918 13:26 | AI |
| Cobalt, Total | ND | mg/kg | 1.2 | 1 6010B | 0912 18:00 0918 13:26 | AI |
| Copper, Total | 6.9 | mg/kg | 0.61 | 1 6010B | 0912 18:00 0918 13:26 | AI |
| Iron, Total | 2500 | mg/kg | 3.0 | 1 6010B | 0912 18:00 0918 13:26 | AI |
| Lead, Total | 36 | mg/kg | 3.0 | 1 6010B | 0912 18:00 0918 13:26 | AI |
| Magnesium, Total | 340 | mg/kg | 6.1 | 1 6010B | 0912 18:00 0918 13:26 | AI |
| Manganese, Total | 15 | mg/kg | 0.61 | 1 6010B | 0912 18:00 0919 12:08 | AI |
| Mercury, Total | ND | mg/kg | 0.10 | 1 7471A | 0912 20:30 0914 14:16 | HG |
| Nickel, Total | 3.4 | mg/kg | 1.5 | 1 6010B | 0912 18:00 0918 13:26 | AI |
| Potassium, Total | 160 | mg/kg | 150 | 1 6010B | 0912 18:00 0918 13:26 | AI |
| Selenium, Total | ND | mg/kg | 1.2 | 1 6010B | 0912 18:00 0919 12:08 | AI |
| Silver, Total | ND | mg/kg | 0.61 | 1 6010B | 0912 18:00 0918 13:26 | AI |
| Sodium, Total | ND | mg/kg | 120 | 1 6010B | 0912 18:00 0918 13:26 | AI |
| Thallium, Total | ND | mg/kg | 1.2 | 1 6010B | 0912 18:00 0918 13:26 | AI |
| Vanadium, Total | 5.3 | mg/kg | 0.61 | 1 6010B | 0912 18:00 0918 13:26 | AI |
| Zinc, Total | 64 | mg/kg | 3.0 | 1 6010B | 0912 18:00 0918 13:26 | AI |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0915 16:06 | PD |
| Methylene chloride | ND | ug/kg | 33. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 4.9 | | | |
| Chloroform | ND | ug/kg | 4.9 | | | |
| Carbon tetrachloride | ND | ug/kg | 3.3 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 12. | | | |
| Dibromochloromethane | ND | ug/kg | 3.3 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 4.9 | | | |
| Tetrachloroethene | ND | ug/kg | 3.3 | | | |
| Chlorobenzene | ND | ug/kg | 3.3 | | | |
| Trichlorofluoromethane | ND | ug/kg | 16. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813447-04
PWG-DW-2008-29(10-10.5')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---------------------------------------|--------|-------|-----|------------|-------|---------------|----|
| | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0915 16:06 PD | |
| 1,2-Dichloroethane | ND | ug/kg | 3.3 | | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 3.3 | | | | |
| Bromodichloromethane | ND | ug/kg | 3.3 | | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 3.3 | | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 3.3 | | | | |
| 1,1-Dichloropropene | ND | ug/kg | 16. | | | | |
| Bromoform | ND | ug/kg | 13. | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 3.3 | | | | |
| Benzene | ND | ug/kg | 3.3 | | | | |
| Toluene | ND | ug/kg | 4.9 | | | | |
| Ethylbenzene | ND | ug/kg | 3.3 | | | | |
| Chloromethane | ND | ug/kg | 16. | | | | |
| Bromomethane | ND | ug/kg | 6.6 | | | | |
| Vinyl chloride | ND | ug/kg | 6.6 | | | | |
| Chloroethane | ND | ug/kg | 6.6 | | | | |
| 1,1-Dichloroethene | ND | ug/kg | 3.3 | | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 4.9 | | | | |
| Trichloroethene | ND | ug/kg | 3.3 | | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 16. | | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 16. | | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 16. | | | | |
| Methyl tert butyl ether | ND | ug/kg | 6.6 | | | | |
| p/m-Xylene | ND | ug/kg | 6.6 | | | | |
| o-Xylene | ND | ug/kg | 6.6 | | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 3.3 | | | | |
| Dibromomethane | ND | ug/kg | 33. | | | | |
| Styrene | ND | ug/kg | 6.6 | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 33. | | | | |
| Acetone | ND | ug/kg | 33. | | | | |
| Carbon disulfide | ND | ug/kg | 33. | | | | |
| 2-Butanone | ND | ug/kg | 33. | | | | |
| Vinyl acetate | ND | ug/kg | 33. | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 33. | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 33. | | | | |
| 2-Hexanone | ND | ug/kg | 33. | | | | |
| Bromochloromethane | ND | ug/kg | 16. | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 16. | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 13. | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 16. | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 3.3 | | | | |
| Bromobenzene | ND | ug/kg | 16. | | | | |
| n-Butylbenzene | ND | ug/kg | 3.3 | | | | |
| sec-Butylbenzene | ND | ug/kg | 3.3 | | | | |
| tert-Butylbenzene | ND | ug/kg | 16. | | | | |
| o-Chlorotoluene | ND | ug/kg | 16. | | | | |
| p-Chlorotoluene | ND | ug/kg | 16. | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 16. | | | | |
| Hexachlorobutadiene | ND | ug/kg | 16. | | | | |
| Isopropylbenzene | ND | ug/kg | 3.3 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813447-04
PWG-DW-2008-29(10-10.5')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|--------------------------|----|
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0915 16:06 PD | |
| p-Isopropyltoluene | ND | ug/kg | 3.3 | | | |
| Naphthalene | ND | ug/kg | 16. | | | |
| Acrylonitrile | ND | ug/kg | 33. | | | |
| n-Propylbenzene | ND | ug/kg | 3.3 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 16. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 16. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 16. | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 16. | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 13. | | | |
| 4-Ethyltoluene | ND | ug/kg | 13. | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 13. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 101 | % | 70-130 | | | |
| Toluene-d8 | 110 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 118 | % | 70-130 | | | |
| Dibromofluoromethane | 99.0 | % | 70-130 | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 0916 19:00 0918 12:40 PS | |
| Acenaphthene | ND | ug/kg | 440 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 440 | | | |
| Hexachlorobenzene | ND | ug/kg | 440 | | | |
| Bis(2-chloroethyl)ether | ND | ug/kg | 440 | | | |
| 2-Chloronaphthalene | ND | ug/kg | 530 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 440 | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 440 | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 440 | | | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 880 | | | |
| 2,4-Dinitrotoluene | ND | ug/kg | 440 | | | |
| 2,6-Dinitrotoluene | ND | ug/kg | 440 | | | |
| Fluoranthene | ND | ug/kg | 440 | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/kg | 440 | | | |
| 4-Bromophenyl phenyl ether | ND | ug/kg | 440 | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/kg | 440 | | | |
| Bis(2-chloroethoxy)methane | ND | ug/kg | 440 | | | |
| Hexachlorobutadiene | ND | ug/kg | 880 | | | |
| Hexachlorocyclopentadiene | ND | ug/kg | 880 | | | |
| Hexachloroethane | ND | ug/kg | 440 | | | |
| Isophorone | ND | ug/kg | 440 | | | |
| Naphthalene | ND | ug/kg | 440 | | | |
| Nitrobenzene | ND | ug/kg | 440 | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/kg | 1300 | | | |
| n-Nitrosodi-n-propylamine | ND | ug/kg | 440 | | | |
| Bis(2-Ethylhexyl)phthalate | ND | ug/kg | 880 | | | |
| Butyl benzyl phthalate | ND | ug/kg | 440 | | | |
| Di-n-butylphthalate | ND | ug/kg | 440 | | | |
| Di-n-octylphthalate | ND | ug/kg | 440 | | | |
| Diethyl phthalate | ND | ug/kg | 440 | | | |
| Dimethyl phthalate | ND | ug/kg | 440 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813447-04
PWG-DW-2008-29(10-10.5')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 8270C | 0916 19:00 0918 12:40 PS | |
| Benzo(a)anthracene | ND | ug/kg | 440 | | | |
| Benzo(a)pyrene | ND | ug/kg | 440 | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 440 | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 440 | | | |
| Chrysene | ND | ug/kg | 440 | | | |
| Acenaphthylene | ND | ug/kg | 440 | | | |
| Anthracene | ND | ug/kg | 440 | | | |
| Benzo(ghi)perylene | ND | ug/kg | 440 | | | |
| Fluorene | ND | ug/kg | 440 | | | |
| Phenanthrene | ND | ug/kg | 440 | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 440 | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 440 | | | |
| Pyrene | ND | ug/kg | 440 | | | |
| Biphenyl | ND | ug/kg | 440 | | | |
| 4-Chloroaniline | ND | ug/kg | 440 | | | |
| 2-Nitroaniline | ND | ug/kg | 440 | | | |
| 3-Nitroaniline | ND | ug/kg | 440 | | | |
| 4-Nitroaniline | ND | ug/kg | 610 | | | |
| Dibenzofuran | ND | ug/kg | 440 | | | |
| 2-Methylnaphthalene | ND | ug/kg | 440 | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/kg | 1800 | | | |
| Acetophenone | ND | ug/kg | 1800 | | | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 440 | | | |
| p-Chloro-M-Cresol | ND | ug/kg | 440 | | | |
| 2-Chlorophenol | ND | ug/kg | 530 | | | |
| 2,4-Dichlorophenol | ND | ug/kg | 880 | | | |
| 2,4-Dimethylphenol | ND | ug/kg | 440 | | | |
| 2-Nitrophenol | ND | ug/kg | 1800 | | | |
| 4-Nitrophenol | ND | ug/kg | 880 | | | |
| 2,4-Dinitrophenol | ND | ug/kg | 1800 | | | |
| 4,6-Dinitro-o-cresol | ND | ug/kg | 1800 | | | |
| Pentachlorophenol | ND | ug/kg | 1800 | | | |
| Phenol | ND | ug/kg | 610 | | | |
| 2-Methylphenol | ND | ug/kg | 530 | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/kg | 530 | | | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 440 | | | |
| Benzoic Acid | ND | ug/kg | 4400 | | | |
| Benzyl Alcohol | ND | ug/kg | 880 | | | |
| Carbazole | ND | ug/kg | 440 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 83.0 | % | 25-120 | | | |
| Phenol-d6 | 85.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 71.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 76.0 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 112 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 76.0 | % | 18-120 | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 8270C | 0912 21:30 0916 04:20 AK | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813447-04
PWG-DW-2008-29(10-10.5')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C-SIM cont'd | | | | 1 8270C | 0912 21:30 0916 04:20 AK | |
| Acenaphthene | ND | ug/kg | 88. | | | |
| 2-Chloronaphthalene | ND | ug/kg | 88. | | | |
| Fluoranthene | ND | ug/kg | 88. | | | |
| Hexachlorobutadiene | ND | ug/kg | 220 | | | |
| Naphthalene | ND | ug/kg | 88. | | | |
| Benzo(a)anthracene | ND | ug/kg | 88. | | | |
| Benzo(a)pyrene | ND | ug/kg | 88. | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 88. | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 88. | | | |
| Chrysene | ND | ug/kg | 88. | | | |
| Acenaphthylene | ND | ug/kg | 88. | | | |
| Anthracene | ND | ug/kg | 88. | | | |
| Benzo(ghi)perylene | ND | ug/kg | 88. | | | |
| Fluorene | ND | ug/kg | 88. | | | |
| Phenanthrene | ND | ug/kg | 88. | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 88. | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 88. | | | |
| Pyrene | ND | ug/kg | 88. | | | |
| 2-Methylnaphthalene | ND | ug/kg | 88. | | | |
| Pentachlorophenol | ND | ug/kg | 350 | | | |
| Hexachlorobenzene | ND | ug/kg | 350 | | | |
| Hexachloroethane | ND | ug/kg | 350 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 70.0 | % | 25-120 | | | |
| Phenol-d6 | 73.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 64.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 64.0 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 71.0 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 67.0 | % | 18-120 | | | |
| Petroleum Hydrocarbon Quantitation by GC-FID | | | | 1 8015B(M) | 0916 01:30 0917 22:03 JL | |
| TPH | ND | ug/kg | 43800 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| o-Terphenyl | 69.0 | % | 40-140 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0813447-05 | Date Collected: 10-SEP-2008 09:30 |
| PWG-DW-2008-30(8.5-9') | Date Received : 11-SEP-2008 |
| Sample Matrix: SOIL | Date Reported : 22-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 3-Amber,1-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-----------------------|----|
| Solids, Total | 49 | % | 0.10 | 30 2540G | 0913 15:45 | NM |
| Total Metals | | | | | | |
| Aluminum, Total | 7000 | mg/kg | 9.9 | 1 6010B | 0912 18:00 0918 13:29 | AI |
| Antimony, Total | ND | mg/kg | 5.0 | 1 6010B | 0912 18:00 0918 13:29 | AI |
| Arsenic, Total | 1.1 | mg/kg | 0.99 | 1 6010B | 0912 18:00 0919 12:11 | AI |
| Barium, Total | 74 | mg/kg | 0.99 | 1 6010B | 0912 18:00 0918 13:29 | AI |
| Beryllium, Total | ND | mg/kg | 0.50 | 1 6010B | 0912 18:00 0918 13:29 | AI |
| Cadmium, Total | 4.0 | mg/kg | 0.99 | 1 6010B | 0912 18:00 0918 13:29 | AI |
| Calcium, Total | 20000 | mg/kg | 9.9 | 1 6010B | 0912 18:00 0918 13:29 | AI |
| Chromium, Total | 120 | mg/kg | 0.99 | 1 6010B | 0912 18:00 0918 13:29 | AI |
| Cobalt, Total | 6.2 | mg/kg | 2.0 | 1 6010B | 0912 18:00 0918 13:29 | AI |
| Copper, Total | 96 | mg/kg | 0.99 | 1 6010B | 0912 18:00 0918 13:29 | AI |
| Iron, Total | 10000 | mg/kg | 5.0 | 1 6010B | 0912 18:00 0918 13:29 | AI |
| Lead, Total | 970 | mg/kg | 5.0 | 1 6010B | 0912 18:00 0918 13:29 | AI |
| Magnesium, Total | 9900 | mg/kg | 9.9 | 1 6010B | 0912 18:00 0918 13:29 | AI |
| Manganese, Total | 110 | mg/kg | 0.99 | 1 6010B | 0912 18:00 0919 12:11 | AI |
| Mercury, Total | 0.85 | mg/kg | 0.17 | 1 7471A | 0912 20:30 0914 14:18 | HG |
| Nickel, Total | 34 | mg/kg | 2.5 | 1 6010B | 0912 18:00 0918 13:29 | AI |
| Potassium, Total | 540 | mg/kg | 250 | 1 6010B | 0912 18:00 0918 13:29 | AI |
| Selenium, Total | ND | mg/kg | 2.0 | 1 6010B | 0912 18:00 0919 12:11 | AI |
| Silver, Total | 1.3 | mg/kg | 0.99 | 1 6010B | 0912 18:00 0918 13:29 | AI |
| Sodium, Total | 3200 | mg/kg | 200 | 1 6010B | 0912 18:00 0918 13:29 | AI |
| Thallium, Total | ND | mg/kg | 2.0 | 1 6010B | 0912 18:00 0918 13:29 | AI |
| Vanadium, Total | 58 | mg/kg | 0.99 | 1 6010B | 0912 18:00 0918 13:29 | AI |
| Zinc, Total | 480 | mg/kg | 5.0 | 1 6010B | 0912 18:00 0918 13:29 | AI |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0915 16:42 | PD |
| Methylene chloride | ND | ug/kg | 51. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 7.6 | | | |
| Chloroform | ND | ug/kg | 7.6 | | | |
| Carbon tetrachloride | ND | ug/kg | 5.1 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 18. | | | |
| Dibromochloromethane | ND | ug/kg | 5.1 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 7.6 | | | |
| Tetrachloroethene | ND | ug/kg | 5.1 | | | |
| Chlorobenzene | ND | ug/kg | 5.1 | | | |
| Trichlorofluoromethane | ND | ug/kg | 26. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813447-05
PWG-DW-2008-30(8.5-9')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---------------------------------------|--------|-------|-----|------------|-------|---------------|----|
| | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0915 16:42 PD | |
| 1,2-Dichloroethane | ND | ug/kg | 5.1 | | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 5.1 | | | | |
| Bromodichloromethane | ND | ug/kg | 5.1 | | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 5.1 | | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 5.1 | | | | |
| 1,1-Dichloropropene | ND | ug/kg | 26. | | | | |
| Bromoform | ND | ug/kg | 20. | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 5.1 | | | | |
| Benzene | ND | ug/kg | 5.1 | | | | |
| Toluene | ND | ug/kg | 7.6 | | | | |
| Ethylbenzene | ND | ug/kg | 5.1 | | | | |
| Chloromethane | ND | ug/kg | 26. | | | | |
| Bromomethane | ND | ug/kg | 10. | | | | |
| Vinyl chloride | ND | ug/kg | 10. | | | | |
| Chloroethane | ND | ug/kg | 10. | | | | |
| 1,1-Dichloroethene | ND | ug/kg | 5.1 | | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 7.6 | | | | |
| Trichloroethene | ND | ug/kg | 5.1 | | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 26. | | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 26. | | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 26. | | | | |
| Methyl tert butyl ether | ND | ug/kg | 10. | | | | |
| p/m-Xylene | ND | ug/kg | 10. | | | | |
| o-Xylene | ND | ug/kg | 10. | | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 5.1 | | | | |
| Dibromomethane | ND | ug/kg | 51. | | | | |
| Styrene | ND | ug/kg | 10. | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 51. | | | | |
| Acetone | 70 | ug/kg | 51 | | | | |
| Carbon disulfide | ND | ug/kg | 51. | | | | |
| 2-Butanone | ND | ug/kg | 51. | | | | |
| Vinyl acetate | ND | ug/kg | 51. | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 51. | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 51. | | | | |
| 2-Hexanone | ND | ug/kg | 51. | | | | |
| Bromochloromethane | ND | ug/kg | 26. | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 26. | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 20. | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 26. | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 5.1 | | | | |
| Bromobenzene | ND | ug/kg | 26. | | | | |
| n-Butylbenzene | ND | ug/kg | 5.1 | | | | |
| sec-Butylbenzene | ND | ug/kg | 5.1 | | | | |
| tert-Butylbenzene | ND | ug/kg | 26. | | | | |
| o-Chlorotoluene | ND | ug/kg | 26. | | | | |
| p-Chlorotoluene | ND | ug/kg | 26. | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 26. | | | | |
| Hexachlorobutadiene | ND | ug/kg | 26. | | | | |
| Isopropylbenzene | ND | ug/kg | 5.1 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813447-05
PWG-DW-2008-30(8.5-9')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|--------------------------|----|
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0915 16:42 PD | |
| p-Isopropyltoluene | 11 | ug/kg | 5.1 | | | |
| Naphthalene | ND | ug/kg | 26. | | | |
| Acrylonitrile | ND | ug/kg | 51. | | | |
| n-Propylbenzene | ND | ug/kg | 5.1 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 26. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 26. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 26. | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 26. | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 20. | | | |
| 4-Ethyltoluene | ND | ug/kg | 20. | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 20. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 99.0 | % | 70-130 | | | |
| Toluene-d8 | 113 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 145 | % | 70-130 | | | |
| Dibromofluoromethane | 101 | % | 70-130 | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 0916 19:00 0918 13:04 PS | |
| Acenaphthene | ND | ug/kg | 10000 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 10000 | | | |
| Hexachlorobenzene | ND | ug/kg | 10000 | | | |
| Bis(2-chloroethyl)ether | ND | ug/kg | 10000 | | | |
| 2-Chloronaphthalene | ND | ug/kg | 12000 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 10000 | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 10000 | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 10000 | | | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 20000 | | | |
| 2,4-Dinitrotoluene | ND | ug/kg | 10000 | | | |
| 2,6-Dinitrotoluene | ND | ug/kg | 10000 | | | |
| Fluoranthene | ND | ug/kg | 10000 | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/kg | 10000 | | | |
| 4-Bromophenyl phenyl ether | ND | ug/kg | 10000 | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/kg | 10000 | | | |
| Bis(2-chloroethoxy)methane | ND | ug/kg | 10000 | | | |
| Hexachlorobutadiene | ND | ug/kg | 20000 | | | |
| Hexachlorocyclopentadiene | ND | ug/kg | 20000 | | | |
| Hexachloroethane | ND | ug/kg | 10000 | | | |
| Isophorone | ND | ug/kg | 10000 | | | |
| Naphthalene | ND | ug/kg | 10000 | | | |
| Nitrobenzene | ND | ug/kg | 10000 | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/kg | 31000 | | | |
| n-Nitrosodi-n-propylamine | ND | ug/kg | 10000 | | | |
| Bis(2-Ethylhexyl)phthalate | 23000 | ug/kg | 20000 | | | |
| Butyl benzyl phthalate | ND | ug/kg | 10000 | | | |
| Di-n-butylphthalate | ND | ug/kg | 10000 | | | |
| Di-n-octylphthalate | ND | ug/kg | 10000 | | | |
| Diethyl phthalate | ND | ug/kg | 10000 | | | |
| Dimethyl phthalate | ND | ug/kg | 10000 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813447-05
PWG-DW-2008-30(8.5-9')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---|----------|-------|-------------|------------|-------|------------|---------------|
| | | | | | PREP | ANAL | |
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 | 8270C | 0916 19:00 | 0918 13:04 PS |
| Benzo(a)anthracene | ND | ug/kg | 10000 | | | | |
| Benzo(a)pyrene | ND | ug/kg | 10000 | | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 10000 | | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 10000 | | | | |
| Chrysene | ND | ug/kg | 10000 | | | | |
| Acenaphthylene | ND | ug/kg | 10000 | | | | |
| Anthracene | ND | ug/kg | 10000 | | | | |
| Benzo(ghi)perylene | ND | ug/kg | 10000 | | | | |
| Fluorene | ND | ug/kg | 10000 | | | | |
| Phenanthrene | ND | ug/kg | 10000 | | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 10000 | | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 10000 | | | | |
| Pyrene | ND | ug/kg | 10000 | | | | |
| Biphenyl | ND | ug/kg | 10000 | | | | |
| 4-Chloroaniline | ND | ug/kg | 10000 | | | | |
| 2-Nitroaniline | ND | ug/kg | 10000 | | | | |
| 3-Nitroaniline | ND | ug/kg | 10000 | | | | |
| 4-Nitroaniline | ND | ug/kg | 14000 | | | | |
| Dibenzofuran | ND | ug/kg | 10000 | | | | |
| 2-Methylnaphthalene | ND | ug/kg | 10000 | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/kg | 41000 | | | | |
| Acetophenone | ND | ug/kg | 41000 | | | | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 10000 | | | | |
| P-Chloro-M-Cresol | ND | ug/kg | 10000 | | | | |
| 2-Chlorophenol | ND | ug/kg | 12000 | | | | |
| 2,4-Dichlorophenol | ND | ug/kg | 20000 | | | | |
| 2,4-Dimethylphenol | ND | ug/kg | 10000 | | | | |
| 2-Nitrophenol | ND | ug/kg | 41000 | | | | |
| 4-Nitrophenol | ND | ug/kg | 20000 | | | | |
| 2,4-Dinitrophenol | ND | ug/kg | 41000 | | | | |
| 4,6-Dinitro-o-cresol | ND | ug/kg | 41000 | | | | |
| Pentachlorophenol | ND | ug/kg | 41000 | | | | |
| Phenol | ND | ug/kg | 14000 | | | | |
| 2-Methylphenol | ND | ug/kg | 12000 | | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/kg | 12000 | | | | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 10000 | | | | |
| Benzoic Acid | ND | ug/kg | 100000 | | | | |
| Benzyl Alcohol | ND | ug/kg | 20000 | | | | |
| Carbazole | ND | ug/kg | 10000 | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | |
| 2-Fluorophenol | 84.0 | % | 25-120 | | | | |
| Phenol-d6 | 77.0 | % | 10-120 | | | | |
| Nitrobenzene-d5 | 78.0 | % | 23-120 | | | | |
| 2-Fluorobiphenyl | 75.0 | % | 30-120 | | | | |
| 2,4,6-Tribromophenol | 84.0 | % | 19-120 | | | | |
| 4-Terphenyl-d14 | 64.0 | % | 18-120 | | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 | 8270C | 0912 21:30 | 0916 05:07 AK |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813447-05
PWG-DW-2008-30(8.5-9')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---|----------|-------|-------------|------------|----------|------------|---------------|
| | | | | | PREP | ANAL | |
| Semivolatile Organics by EPA 8270C-SIM cont'd | | | | 1 | 8270C | 0912 21:30 | 0916 05:07 AK |
| Acenaphthene | ND | ug/kg | 2700 | | | | |
| 2-Chloronaphthalene | ND | ug/kg | 2700 | | | | |
| Fluoranthene | 6700 | ug/kg | 2700 | | | | |
| Hexachlorobutadiene | ND | ug/kg | 6800 | | | | |
| Naphthalene | ND | ug/kg | 2700 | | | | |
| Benzo(a)anthracene | ND | ug/kg | 2700 | | | | |
| Benzo(a)pyrene | 5400 | ug/kg | 2700 | | | | |
| Benzo(b)fluoranthene | 5000 | ug/kg | 2700 | | | | |
| Benzo(k)fluoranthene | 4900 | ug/kg | 2700 | | | | |
| Chrysene | ND | ug/kg | 2700 | | | | |
| Acenaphthylene | ND | ug/kg | 2700 | | | | |
| Anthracene | ND | ug/kg | 2700 | | | | |
| Benzo(ghi)perylene | 5900 | ug/kg | 2700 | | | | |
| Fluorene | ND | ug/kg | 2700 | | | | |
| Phenanthrene | ND | ug/kg | 2700 | | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 2700 | | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 2700 | | | | |
| Pyrene | 6500 | ug/kg | 2700 | | | | |
| 2-Methylnaphthalene | ND | ug/kg | 2700 | | | | |
| Pentachlorophenol | ND | ug/kg | 11000 | | | | |
| Hexachlorobenzene | ND | ug/kg | 11000 | | | | |
| Hexachloroethane | ND | ug/kg | 11000 | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | |
| 2-Fluorophenol | ND | % | 25-120 | | | | |
| Phenol-d6 | ND | % | 10-120 | | | | |
| Nitrobenzene-d5 | ND | % | 23-120 | | | | |
| 2-Fluorobiphenyl | ND | % | 30-120 | | | | |
| 2,4,6-Tribromophenol | ND | % | 19-120 | | | | |
| 4-Terphenyl-d14 | ND | % | 18-120 | | | | |
| Petroleum Hydrocarbon Quantitation by GC-FID | | | | 1 | 8015B(M) | 0916 01:30 | 0918 11:51 JL |
| TPH | 10700000 | ug/kg | 3400000 | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | |
| o-Terphenyl | 92.0 | % | 40-140 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0813447-06 | Date Collected: 10-SEP-2008 09:45 |
| PWG-DW-2008-31(8-8.5') | Date Received : 11-SEP-2008 |
| Sample Matrix: SOIL | Date Reported : 22-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 3-Amber,1-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-----------------------|----|
| Solids, Total | 68 | % | 0.10 | 30 2540G | 0913 15:45 | NM |
| Total Metals | | | | | | |
| Aluminum, Total | 5400 | mg/kg | 7.2 | 1 6010B | 0912 18:00 0918 13:32 | AI |
| Antimony, Total | ND | mg/kg | 3.6 | 1 6010B | 0912 18:00 0918 13:32 | AI |
| Arsenic, Total | 1.3 | mg/kg | 0.72 | 1 6010B | 0912 18:00 0919 12:14 | AI |
| Barium, Total | 35 | mg/kg | 0.72 | 1 6010B | 0912 18:00 0918 13:32 | AI |
| Beryllium, Total | ND | mg/kg | 0.36 | 1 6010B | 0912 18:00 0918 13:32 | AI |
| Cadmium, Total | 1.2 | mg/kg | 0.72 | 1 6010B | 0912 18:00 0918 13:32 | AI |
| Calcium, Total | 4700 | mg/kg | 7.2 | 1 6010B | 0912 18:00 0918 13:32 | AI |
| Chromium, Total | 29 | mg/kg | 0.72 | 1 6010B | 0912 18:00 0918 13:32 | AI |
| Cobalt, Total | 2.6 | mg/kg | 1.4 | 1 6010B | 0912 18:00 0918 13:32 | AI |
| Copper, Total | 24 | mg/kg | 0.72 | 1 6010B | 0912 18:00 0918 13:32 | AI |
| Iron, Total | 7400 | mg/kg | 3.6 | 1 6010B | 0912 18:00 0918 13:32 | AI |
| Lead, Total | 520 | mg/kg | 3.6 | 1 6010B | 0912 18:00 0918 13:32 | AI |
| Magnesium, Total | 3200 | mg/kg | 7.2 | 1 6010B | 0912 18:00 0918 13:32 | AI |
| Manganese, Total | 54 | mg/kg | 0.72 | 1 6010B | 0912 18:00 0919 12:14 | AI |
| Mercury, Total | 0.59 | mg/kg | 0.12 | 1 7471A | 0912 20:30 0914 14:20 | HG |
| Nickel, Total | 14 | mg/kg | 1.8 | 1 6010B | 0912 18:00 0918 13:32 | AI |
| Potassium, Total | 340 | mg/kg | 180 | 1 6010B | 0912 18:00 0918 13:32 | AI |
| Selenium, Total | ND | mg/kg | 1.4 | 1 6010B | 0912 18:00 0919 12:14 | AI |
| Silver, Total | ND | mg/kg | 0.72 | 1 6010B | 0912 18:00 0918 13:32 | AI |
| Sodium, Total | ND | mg/kg | 140 | 1 6010B | 0912 18:00 0918 13:32 | AI |
| Thallium, Total | ND | mg/kg | 1.4 | 1 6010B | 0912 18:00 0918 13:32 | AI |
| Vanadium, Total | 33 | mg/kg | 0.72 | 1 6010B | 0912 18:00 0918 13:32 | AI |
| Zinc, Total | 240 | mg/kg | 3.6 | 1 6010B | 0912 18:00 0918 13:32 | AI |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0915 17:18 | PD |
| Methylene chloride | ND | ug/kg | 37. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 5.5 | | | |
| Chloroform | ND | ug/kg | 5.5 | | | |
| Carbon tetrachloride | ND | ug/kg | 3.7 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 13. | | | |
| Dibromochloromethane | ND | ug/kg | 3.7 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 5.5 | | | |
| Tetrachloroethene | ND | ug/kg | 3.7 | | | |
| Chlorobenzene | ND | ug/kg | 3.7 | | | |
| Trichlorofluoromethane | ND | ug/kg | 18. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813447-06
PWG-DW-2008-31(8-8.5')

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|--------|-------|-----|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0915 17:18 PD | | |
| 1,2-Dichloroethane | ND | ug/kg | 3.7 | | | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 3.7 | | | | | |
| Bromodichloromethane | ND | ug/kg | 3.7 | | | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 3.7 | | | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 3.7 | | | | | |
| 1,1-Dichloropropene | ND | ug/kg | 18. | | | | | |
| Bromoform | ND | ug/kg | 15. | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 3.7 | | | | | |
| Benzene | ND | ug/kg | 3.7 | | | | | |
| Toluene | ND | ug/kg | 5.5 | | | | | |
| Ethylbenzene | ND | ug/kg | 3.7 | | | | | |
| Chloromethane | ND | ug/kg | 18. | | | | | |
| Bromomethane | ND | ug/kg | 7.4 | | | | | |
| Vinyl chloride | ND | ug/kg | 7.4 | | | | | |
| Chloroethane | ND | ug/kg | 7.4 | | | | | |
| 1,1-Dichloroethene | ND | ug/kg | 3.7 | | | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 5.5 | | | | | |
| Trichloroethene | ND | ug/kg | 3.7 | | | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 18. | | | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 18. | | | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 18. | | | | | |
| Methyl tert butyl ether | ND | ug/kg | 7.4 | | | | | |
| p/m-Xylene | ND | ug/kg | 7.4 | | | | | |
| o-Xylene | ND | ug/kg | 7.4 | | | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 3.7 | | | | | |
| Dibromomethane | ND | ug/kg | 37. | | | | | |
| Styrene | ND | ug/kg | 7.4 | | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 37. | | | | | |
| Acetone | ND | ug/kg | 37. | | | | | |
| Carbon disulfide | ND | ug/kg | 37. | | | | | |
| 2-Butanone | ND | ug/kg | 37. | | | | | |
| Vinyl acetate | ND | ug/kg | 37. | | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 37. | | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 37. | | | | | |
| 2-Hexanone | ND | ug/kg | 37. | | | | | |
| Bromochloromethane | ND | ug/kg | 18. | | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 18. | | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 15. | | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 18. | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 3.7 | | | | | |
| Bromobenzene | ND | ug/kg | 18. | | | | | |
| n-Butylbenzene | ND | ug/kg | 3.7 | | | | | |
| sec-Butylbenzene | ND | ug/kg | 3.7 | | | | | |
| tert-Butylbenzene | ND | ug/kg | 18. | | | | | |
| o-Chlorotoluene | ND | ug/kg | 18. | | | | | |
| p-Chlorotoluene | ND | ug/kg | 18. | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 18. | | | | | |
| Hexachlorobutadiene | ND | ug/kg | 18. | | | | | |
| Isopropylbenzene | ND | ug/kg | 3.7 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813447-06
PWG-DW-2008-31(8-8.5')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|--------------------------|----|
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0915 17:18 PD | |
| p-Isopropyltoluene | ND | ug/kg | 3.7 | | | |
| Naphthalene | ND | ug/kg | 18. | | | |
| Acrylonitrile | ND | ug/kg | 37. | | | |
| n-Propylbenzene | ND | ug/kg | 3.7 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 18. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 18. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 18. | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 18. | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 15. | | | |
| 4-Ethyltoluene | ND | ug/kg | 15. | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 15. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 99.0 | % | 70-130 | | | |
| Toluene-d8 | 113 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 123 | % | 70-130 | | | |
| Dibromofluoromethane | 101 | % | 70-130 | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 0916 19:00 0918 13:27 PS | |
| Acenaphthene | ND | ug/kg | 4900 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 4900 | | | |
| Hexachlorobenzene | ND | ug/kg | 4900 | | | |
| Bis(2-chloroethyl)ether | ND | ug/kg | 4900 | | | |
| 2-Chloronaphthalene | ND | ug/kg | 5900 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 4900 | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 4900 | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 4900 | | | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 9800 | | | |
| 2,4-Dinitrotoluene | ND | ug/kg | 4900 | | | |
| 2,6-Dinitrotoluene | ND | ug/kg | 4900 | | | |
| Fluoranthene | ND | ug/kg | 4900 | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/kg | 4900 | | | |
| 4-Bromophenyl phenyl ether | ND | ug/kg | 4900 | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/kg | 4900 | | | |
| Bis(2-chloroethoxy)methane | ND | ug/kg | 4900 | | | |
| Hexachlorobutadiene | ND | ug/kg | 9800 | | | |
| Hexachlorocyclopentadiene | ND | ug/kg | 9800 | | | |
| Hexachloroethane | ND | ug/kg | 4900 | | | |
| Isophorone | ND | ug/kg | 4900 | | | |
| Naphthalene | ND | ug/kg | 4900 | | | |
| Nitrobenzene | ND | ug/kg | 4900 | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/kg | 15000 | | | |
| n-Nitrosodi-n-propylamine | ND | ug/kg | 4900 | | | |
| Bis(2-Ethylhexyl)phthalate | ND | ug/kg | 9800 | | | |
| Butyl benzyl phthalate | ND | ug/kg | 4900 | | | |
| Di-n-butylphthalate | ND | ug/kg | 4900 | | | |
| Di-n-octylphthalate | ND | ug/kg | 4900 | | | |
| Diethyl phthalate | ND | ug/kg | 4900 | | | |
| Dimethyl phthalate | ND | ug/kg | 4900 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813447-06
PWG-DW-2008-31(8-8.5')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 8270C | 0916 19:00 0918 13:27 PS | |
| Benzo(a)anthracene | ND | ug/kg | 4900 | | | |
| Benzo(a)pyrene | ND | ug/kg | 4900 | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 4900 | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 4900 | | | |
| Chrysene | ND | ug/kg | 4900 | | | |
| Acenaphthylene | ND | ug/kg | 4900 | | | |
| Anthracene | ND | ug/kg | 4900 | | | |
| Benzo(ghi)perylene | ND | ug/kg | 4900 | | | |
| Fluorene | ND | ug/kg | 4900 | | | |
| Phenanthrene | ND | ug/kg | 4900 | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 4900 | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 4900 | | | |
| Pyrene | ND | ug/kg | 4900 | | | |
| Biphenyl | ND | ug/kg | 4900 | | | |
| 4-Chloroaniline | ND | ug/kg | 4900 | | | |
| 2-Nitroaniline | ND | ug/kg | 4900 | | | |
| 3-Nitroaniline | ND | ug/kg | 4900 | | | |
| 4-Nitroaniline | ND | ug/kg | 6900 | | | |
| Dibenzofuran | ND | ug/kg | 4900 | | | |
| 2-Methylnaphthalene | ND | ug/kg | 4900 | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/kg | 20000 | | | |
| Acetophenone | ND | ug/kg | 20000 | | | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 4900 | | | |
| p-Chloro-M-Cresol | ND | ug/kg | 4900 | | | |
| 2-Chlorophenol | ND | ug/kg | 5900 | | | |
| 2,4-Dichlorophenol | ND | ug/kg | 9800 | | | |
| 2,4-Dimethylphenol | ND | ug/kg | 4900 | | | |
| 2-Nitrophenol | ND | ug/kg | 20000 | | | |
| 4-Nitrophenol | ND | ug/kg | 9800 | | | |
| 2,4-Dinitrophenol | ND | ug/kg | 20000 | | | |
| 4,6-Dinitro-o-cresol | ND | ug/kg | 20000 | | | |
| Pentachlorophenol | ND | ug/kg | 20000 | | | |
| Phenol | ND | ug/kg | 6900 | | | |
| 2-Methylphenol | ND | ug/kg | 5900 | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/kg | 5900 | | | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 4900 | | | |
| Benzoic Acid | ND | ug/kg | 49000 | | | |
| Benzyl Alcohol | ND | ug/kg | 9800 | | | |
| Carbazole | ND | ug/kg | 4900 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 69.0 | % | 25-120 | | | |
| Phenol-d6 | 76.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 69.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 72.0 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 93.0 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 63.0 | % | 18-120 | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 8270C | 0912 21:30 0916 05:54 AK | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813447-06
PWG-DW-2008-31(8-8.5')

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---|----------|-------|-------------|-----|----------|------------|------------|----|
| | | | | | | PREP | ANAL | |
| Semivolatile Organics by EPA 8270C-SIM cont'd | | | | 1 | 8270C | 0912 21:30 | 0916 05:54 | AK |
| Acenaphthene | ND | ug/kg | 2000 | | | | | |
| 2-Chloronaphthalene | ND | ug/kg | 2000 | | | | | |
| Fluoranthene | 3900 | ug/kg | 2000 | | | | | |
| Hexachlorobutadiene | ND | ug/kg | 4900 | | | | | |
| Naphthalene | ND | ug/kg | 2000 | | | | | |
| Benzo(a)anthracene | ND | ug/kg | 2000 | | | | | |
| Benzo(a)pyrene | ND | ug/kg | 2000 | | | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 2000 | | | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 2000 | | | | | |
| Chrysene | ND | ug/kg | 2000 | | | | | |
| Acenaphthylene | ND | ug/kg | 2000 | | | | | |
| Anthracene | ND | ug/kg | 2000 | | | | | |
| Benzo(ghi)perylene | ND | ug/kg | 2000 | | | | | |
| Fluorene | ND | ug/kg | 2000 | | | | | |
| Phenanthrene | ND | ug/kg | 2000 | | | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 2000 | | | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 2000 | | | | | |
| Pyrene | 4100 | ug/kg | 2000 | | | | | |
| 2-Methylnaphthalene | ND | ug/kg | 2000 | | | | | |
| Pentachlorophenol | ND | ug/kg | 7800 | | | | | |
| Hexachlorobenzene | ND | ug/kg | 7800 | | | | | |
| Hexachloroethane | ND | ug/kg | 7800 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 2-Fluorophenol | ND | % | 25-120 | | | | | |
| Phenol-d6 | ND | % | 10-120 | | | | | |
| Nitrobenzene-d5 | ND | % | 23-120 | | | | | |
| 2-Fluorobiphenyl | ND | % | 30-120 | | | | | |
| 2,4,6-Tribromophenol | ND | % | 19-120 | | | | | |
| 4-Terphenyl-d14 | ND | % | 18-120 | | | | | |
| Petroleum Hydrocarbon Quantitation by GC-FID | | | | 1 | 8015B(M) | 0916 01:30 | 0917 23:11 | JL |
| TPH | 6340000 | ug/kg | 490000 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| o-Terphenyl | 94.0 | % | 40-140 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0813447-07 | Date Collected: 10-SEP-2008 10:00 |
| PWG-DW-2008-33(7-7.5') | Date Received : 11-SEP-2008 |
| Sample Matrix: SOIL | Date Reported : 22-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 3-Amber,1-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-----------------------|----|
| Solids, Total | 69 | % | 0.10 | 30 2540G | 0913 15:45 | NM |
| Total Metals | | | | | | |
| Aluminum, Total | 2300 | mg/kg | 7.2 | 1 6010B | 0912 18:00 0918 13:35 | AI |
| Antimony, Total | ND | mg/kg | 3.6 | 1 6010B | 0912 18:00 0918 13:35 | AI |
| Arsenic, Total | 0.92 | mg/kg | 0.72 | 1 6010B | 0912 18:00 0919 12:17 | AI |
| Barium, Total | 21 | mg/kg | 0.72 | 1 6010B | 0912 18:00 0918 13:35 | AI |
| Beryllium, Total | ND | mg/kg | 0.36 | 1 6010B | 0912 18:00 0918 13:35 | AI |
| Cadmium, Total | 0.84 | mg/kg | 0.72 | 1 6010B | 0912 18:00 0918 13:35 | AI |
| Calcium, Total | 12000 | mg/kg | 7.2 | 1 6010B | 0912 18:00 0918 13:35 | AI |
| Chromium, Total | 30 | mg/kg | 0.72 | 1 6010B | 0912 18:00 0918 13:35 | AI |
| Cobalt, Total | 1.8 | mg/kg | 1.4 | 1 6010B | 0912 18:00 0918 13:35 | AI |
| Copper, Total | 24 | mg/kg | 0.72 | 1 6010B | 0912 18:00 0918 13:35 | AI |
| Iron, Total | 3700 | mg/kg | 3.6 | 1 6010B | 0912 18:00 0918 13:35 | AI |
| Lead, Total | 210 | mg/kg | 3.6 | 1 6010B | 0912 18:00 0918 13:35 | AI |
| Magnesium, Total | 7300 | mg/kg | 7.2 | 1 6010B | 0912 18:00 0918 13:35 | AI |
| Manganese, Total | 36 | mg/kg | 0.72 | 1 6010B | 0912 18:00 0919 12:17 | AI |
| Mercury, Total | 0.27 | mg/kg | 0.11 | 1 7471A | 0912 20:30 0914 14:22 | HG |
| Nickel, Total | 9.7 | mg/kg | 1.8 | 1 6010B | 0912 18:00 0918 13:35 | AI |
| Potassium, Total | 200 | mg/kg | 180 | 1 6010B | 0912 18:00 0918 13:35 | AI |
| Selenium, Total | ND | mg/kg | 1.4 | 1 6010B | 0912 18:00 0919 12:17 | AI |
| Silver, Total | ND | mg/kg | 0.72 | 1 6010B | 0912 18:00 0918 13:35 | AI |
| Sodium, Total | ND | mg/kg | 140 | 1 6010B | 0912 18:00 0918 13:35 | AI |
| Thallium, Total | ND | mg/kg | 1.4 | 1 6010B | 0912 18:00 0918 13:35 | AI |
| Vanadium, Total | 22 | mg/kg | 0.72 | 1 6010B | 0912 18:00 0918 13:35 | AI |
| Zinc, Total | 170 | mg/kg | 3.6 | 1 6010B | 0912 18:00 0918 13:35 | AI |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0915 17:55 | PD |
| Methylene chloride | ND | ug/kg | 36. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 5.4 | | | |
| Chloroform | ND | ug/kg | 5.4 | | | |
| Carbon tetrachloride | ND | ug/kg | 3.6 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 13. | | | |
| Dibromochloromethane | ND | ug/kg | 3.6 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 5.4 | | | |
| Tetrachloroethene | ND | ug/kg | 3.6 | | | |
| Chlorobenzene | ND | ug/kg | 3.6 | | | |
| Trichlorofluoromethane | ND | ug/kg | 18. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813447-07
PWG-DW-2008-33(7-7.5')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---------------------------------------|--------|-------|-----|------------|-------|---------------|----|
| | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0915 17:55 PD | |
| 1,2-Dichloroethane | ND | ug/kg | 3.6 | | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 3.6 | | | | |
| Bromodichloromethane | ND | ug/kg | 3.6 | | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 3.6 | | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 3.6 | | | | |
| 1,1-Dichloropropene | ND | ug/kg | 18. | | | | |
| Bromoform | ND | ug/kg | 14. | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 3.6 | | | | |
| Benzene | ND | ug/kg | 3.6 | | | | |
| Toluene | ND | ug/kg | 5.4 | | | | |
| Ethylbenzene | ND | ug/kg | 3.6 | | | | |
| Chloromethane | ND | ug/kg | 18. | | | | |
| Bromomethane | ND | ug/kg | 7.2 | | | | |
| Vinyl chloride | ND | ug/kg | 7.2 | | | | |
| Chloroethane | ND | ug/kg | 7.2 | | | | |
| 1,1-Dichloroethene | ND | ug/kg | 3.6 | | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 5.4 | | | | |
| Trichloroethene | ND | ug/kg | 3.6 | | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 18. | | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 18. | | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 18. | | | | |
| Methyl tert butyl ether | ND | ug/kg | 7.2 | | | | |
| p/m-Xylene | ND | ug/kg | 7.2 | | | | |
| o-Xylene | ND | ug/kg | 7.2 | | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 3.6 | | | | |
| Dibromomethane | ND | ug/kg | 36. | | | | |
| Styrene | ND | ug/kg | 7.2 | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 36. | | | | |
| Acetone | 43 | ug/kg | 36 | | | | |
| Carbon disulfide | ND | ug/kg | 36. | | | | |
| 2-Butanone | ND | ug/kg | 36. | | | | |
| Vinyl acetate | ND | ug/kg | 36. | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 36. | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 36. | | | | |
| 2-Hexanone | ND | ug/kg | 36. | | | | |
| Bromochloromethane | ND | ug/kg | 18. | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 18. | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 14. | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 18. | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 3.6 | | | | |
| Bromobenzene | ND | ug/kg | 18. | | | | |
| n-Butylbenzene | ND | ug/kg | 3.6 | | | | |
| sec-Butylbenzene | ND | ug/kg | 3.6 | | | | |
| tert-Butylbenzene | ND | ug/kg | 18. | | | | |
| o-Chlorotoluene | ND | ug/kg | 18. | | | | |
| p-Chlorotoluene | ND | ug/kg | 18. | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 18. | | | | |
| Hexachlorobutadiene | ND | ug/kg | 18. | | | | |
| Isopropylbenzene | ND | ug/kg | 3.6 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813447-07
PWG-DW-2008-33(7-7.5')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|--------------------------|----|
| <hr/> | | | | | | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0915 17:55 PD | |
| p-Isopropyltoluene | ND | ug/kg | 3.6 | | | |
| Naphthalene | ND | ug/kg | 18. | | | |
| Acrylonitrile | ND | ug/kg | 36. | | | |
| n-Propylbenzene | ND | ug/kg | 3.6 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 18. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 18. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 18. | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 18. | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 14. | | | |
| 4-Ethyltoluene | ND | ug/kg | 14. | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 14. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 100 | % | 70-130 | | | |
| Toluene-d8 | 113 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 128 | % | 70-130 | | | |
| Dibromofluoromethane | 101 | % | 70-130 | | | |
| <hr/> | | | | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 0916 19:00 0918 13:50 PS | |
| Acenaphthene | ND | ug/kg | 7200 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 7200 | | | |
| Hexachlorobenzene | ND | ug/kg | 7200 | | | |
| Bis(2-chloroethyl)ether | ND | ug/kg | 7200 | | | |
| 2-Chloronaphthalene | ND | ug/kg | 8700 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 7200 | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 7200 | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 7200 | | | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 14000 | | | |
| 2,4-Dinitrotoluene | ND | ug/kg | 7200 | | | |
| 2,6-Dinitrotoluene | ND | ug/kg | 7200 | | | |
| Fluoranthene | ND | ug/kg | 7200 | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/kg | 7200 | | | |
| 4-Bromophenyl phenyl ether | ND | ug/kg | 7200 | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/kg | 7200 | | | |
| Bis(2-chloroethoxy)methane | ND | ug/kg | 7200 | | | |
| Hexachlorobutadiene | ND | ug/kg | 14000 | | | |
| Hexachlorocyclopentadiene | ND | ug/kg | 14000 | | | |
| Hexachloroethane | ND | ug/kg | 7200 | | | |
| Isophorone | ND | ug/kg | 7200 | | | |
| Naphthalene | ND | ug/kg | 7200 | | | |
| Nitrobenzene | ND | ug/kg | 7200 | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/kg | 22000 | | | |
| n-Nitrosodi-n-propylamine | ND | ug/kg | 7200 | | | |
| Bis(2-Ethylhexyl)phthalate | 19000 | ug/kg | 14000 | | | |
| Butyl benzyl phthalate | ND | ug/kg | 7200 | | | |
| Di-n-butylphthalate | ND | ug/kg | 7200 | | | |
| Di-n-octylphthalate | ND | ug/kg | 7200 | | | |
| Diethyl phthalate | ND | ug/kg | 7200 | | | |
| Dimethyl phthalate | ND | ug/kg | 7200 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813447-07
PWG-DW-2008-33(7-7.5')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---|----------|-------|-------------|------------|-------|------------|---------------|
| | | | | | PREP | ANAL | |
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 | 8270C | 0916 19:00 | 0918 13:50 PS |
| Benzo(a)anthracene | ND | ug/kg | 7200 | | | | |
| Benzo(a)pyrene | ND | ug/kg | 7200 | | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 7200 | | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 7200 | | | | |
| Chrysene | ND | ug/kg | 7200 | | | | |
| Acenaphthylene | ND | ug/kg | 7200 | | | | |
| Anthracene | ND | ug/kg | 7200 | | | | |
| Benzo(ghi)perylene | ND | ug/kg | 7200 | | | | |
| Fluorene | ND | ug/kg | 7200 | | | | |
| Phenanthrene | ND | ug/kg | 7200 | | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 7200 | | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 7200 | | | | |
| Pyrene | ND | ug/kg | 7200 | | | | |
| Biphenyl | ND | ug/kg | 7200 | | | | |
| 4-Chloroaniline | ND | ug/kg | 7200 | | | | |
| 2-Nitroaniline | ND | ug/kg | 7200 | | | | |
| 3-Nitroaniline | ND | ug/kg | 7200 | | | | |
| 4-Nitroaniline | ND | ug/kg | 10000 | | | | |
| Dibenzofuran | ND | ug/kg | 7200 | | | | |
| 2-Methylnaphthalene | ND | ug/kg | 7200 | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/kg | 29000 | | | | |
| Acetophenone | ND | ug/kg | 29000 | | | | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 7200 | | | | |
| P-Chloro-M-Cresol | ND | ug/kg | 7200 | | | | |
| 2-Chlorophenol | ND | ug/kg | 8700 | | | | |
| 2,4-Dichlorophenol | ND | ug/kg | 14000 | | | | |
| 2,4-Dimethylphenol | ND | ug/kg | 7200 | | | | |
| 2-Nitrophenol | ND | ug/kg | 29000 | | | | |
| 4-Nitrophenol | ND | ug/kg | 14000 | | | | |
| 2,4-Dinitrophenol | ND | ug/kg | 29000 | | | | |
| 4,6-Dinitro-o-cresol | ND | ug/kg | 29000 | | | | |
| Pentachlorophenol | ND | ug/kg | 29000 | | | | |
| Phenol | ND | ug/kg | 10000 | | | | |
| 2-Methylphenol | ND | ug/kg | 8700 | | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/kg | 8700 | | | | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 7200 | | | | |
| Benzoic Acid | ND | ug/kg | 72000 | | | | |
| Benzyl Alcohol | ND | ug/kg | 14000 | | | | |
| Carbazole | ND | ug/kg | 7200 | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | |
| 2-Fluorophenol | 103 | % | 25-120 | | | | |
| Phenol-d6 | 98.0 | % | 10-120 | | | | |
| Nitrobenzene-d5 | 92.0 | % | 23-120 | | | | |
| 2-Fluorobiphenyl | 85.0 | % | 30-120 | | | | |
| 2,4,6-Tribromophenol | 109 | % | 19-120 | | | | |
| 4-Terphenyl-d14 | 78.0 | % | 18-120 | | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 | 8270C | 0912 21:30 | 0916 06:40 AK |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813447-07
PWG-DW-2008-33(7-7.5')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---|----------|-------|-------------|------------|----------|------------|---------------|
| | | | | | PREP | ANAL | |
| Semivolatile Organics by EPA 8270C-SIM cont'd | | | | 1 | 8270C | 0912 21:30 | 0916 06:40 AK |
| Acenaphthene | ND | ug/kg | 1900 | | | | |
| 2-Chloronaphthalene | ND | ug/kg | 1900 | | | | |
| Fluoranthene | ND | ug/kg | 1900 | | | | |
| Hexachlorobutadiene | ND | ug/kg | 4800 | | | | |
| Naphthalene | ND | ug/kg | 1900 | | | | |
| Benzo(a)anthracene | ND | ug/kg | 1900 | | | | |
| Benzo(a)pyrene | ND | ug/kg | 1900 | | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 1900 | | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 1900 | | | | |
| Chrysene | ND | ug/kg | 1900 | | | | |
| Acenaphthylene | ND | ug/kg | 1900 | | | | |
| Anthracene | ND | ug/kg | 1900 | | | | |
| Benzo(ghi)perylene | ND | ug/kg | 1900 | | | | |
| Fluorene | ND | ug/kg | 1900 | | | | |
| Phenanthrene | ND | ug/kg | 1900 | | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 1900 | | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 1900 | | | | |
| Pyrene | ND | ug/kg | 1900 | | | | |
| 2-Methylnaphthalene | ND | ug/kg | 1900 | | | | |
| Pentachlorophenol | ND | ug/kg | 7700 | | | | |
| Hexachlorobenzene | ND | ug/kg | 7700 | | | | |
| Hexachloroethane | ND | ug/kg | 7700 | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | |
| 2-Fluorophenol | ND | % | 25-120 | | | | |
| Phenol-d6 | ND | % | 10-120 | | | | |
| Nitrobenzene-d5 | ND | % | 23-120 | | | | |
| 2-Fluorobiphenyl | ND | % | 30-120 | | | | |
| 2,4,6-Tribromophenol | ND | % | 19-120 | | | | |
| 4-Terphenyl-d14 | ND | % | 18-120 | | | | |
| Petroleum Hydrocarbon Quantitation by GC-FID | | | | 1 | 8015B(M) | 0916 01:30 | 0917 23:46 JL |
| TPH | 3590000 | ug/kg | 483000 | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | |
| o-Terphenyl | 89.0 | % | 40-140 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0813447-08 | Date Collected: 10-SEP-2008 10:15 |
| PWG-DW-2008-34(5.5-6') | Date Received : 11-SEP-2008 |
| Sample Matrix: SOIL | Date Reported : 22-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 3-Amber,1-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-----------------------|----|
| Solids, Total | 66 | % | 0.10 | 30 2540G | 0913 15:45 | NM |
| Total Metals | | | | | | |
| Aluminum, Total | 4200 | mg/kg | 7.4 | 1 6010B | 0912 18:00 0918 13:38 | AI |
| Antimony, Total | ND | mg/kg | 3.7 | 1 6010B | 0912 18:00 0918 13:38 | AI |
| Arsenic, Total | 1.3 | mg/kg | 0.74 | 1 6010B | 0912 18:00 0919 12:20 | AI |
| Barium, Total | 41 | mg/kg | 0.74 | 1 6010B | 0912 18:00 0918 13:38 | AI |
| Beryllium, Total | ND | mg/kg | 0.37 | 1 6010B | 0912 18:00 0918 13:38 | AI |
| Cadmium, Total | 1.8 | mg/kg | 0.74 | 1 6010B | 0912 18:00 0918 13:38 | AI |
| Calcium, Total | 14000 | mg/kg | 7.4 | 1 6010B | 0912 18:00 0918 13:38 | AI |
| Chromium, Total | 39 | mg/kg | 0.74 | 1 6010B | 0912 18:00 0918 13:38 | AI |
| Cobalt, Total | 3.0 | mg/kg | 1.5 | 1 6010B | 0912 18:00 0918 13:38 | AI |
| Copper, Total | 35 | mg/kg | 0.74 | 1 6010B | 0912 18:00 0918 13:38 | AI |
| Iron, Total | 7900 | mg/kg | 3.7 | 1 6010B | 0912 18:00 0918 13:38 | AI |
| Lead, Total | 300 | mg/kg | 3.7 | 1 6010B | 0912 18:00 0918 13:38 | AI |
| Magnesium, Total | 8300 | mg/kg | 7.4 | 1 6010B | 0912 18:00 0918 13:38 | AI |
| Manganese, Total | 54 | mg/kg | 0.74 | 1 6010B | 0912 18:00 0919 12:20 | AI |
| Mercury, Total | 4.1 | mg/kg | 0.58 | 1 7471A | 0912 20:30 0914 16:06 | HG |
| Nickel, Total | 14 | mg/kg | 1.8 | 1 6010B | 0912 18:00 0918 13:38 | AI |
| Potassium, Total | 300 | mg/kg | 180 | 1 6010B | 0912 18:00 0918 13:38 | AI |
| Selenium, Total | ND | mg/kg | 1.5 | 1 6010B | 0912 18:00 0919 12:20 | AI |
| Silver, Total | 4.4 | mg/kg | 0.74 | 1 6010B | 0912 18:00 0918 13:38 | AI |
| Sodium, Total | ND | mg/kg | 150 | 1 6010B | 0912 18:00 0918 13:38 | AI |
| Thallium, Total | ND | mg/kg | 1.5 | 1 6010B | 0912 18:00 0918 13:38 | AI |
| Vanadium, Total | 26 | mg/kg | 0.74 | 1 6010B | 0912 18:00 0918 13:38 | AI |
| Zinc, Total | 270 | mg/kg | 3.7 | 1 6010B | 0912 18:00 0918 13:38 | AI |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0915 18:31 | PD |
| Methylene chloride | ND | ug/kg | 38. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 5.7 | | | |
| Chloroform | ND | ug/kg | 5.7 | | | |
| Carbon tetrachloride | ND | ug/kg | 3.8 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 13. | | | |
| Dibromochloromethane | ND | ug/kg | 3.8 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 5.7 | | | |
| Tetrachloroethene | ND | ug/kg | 3.8 | | | |
| Chlorobenzene | ND | ug/kg | 3.8 | | | |
| Trichlorofluoromethane | ND | ug/kg | 19. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813447-08
PWG-DW-2008-34(5.5-6')

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|--------|-------|-----|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0915 18:31 PD | | |
| 1,2-Dichloroethane | ND | ug/kg | 3.8 | | | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 3.8 | | | | | |
| Bromodichloromethane | ND | ug/kg | 3.8 | | | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 3.8 | | | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 3.8 | | | | | |
| 1,1-Dichloropropene | ND | ug/kg | 19. | | | | | |
| Bromoform | ND | ug/kg | 15. | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 3.8 | | | | | |
| Benzene | ND | ug/kg | 3.8 | | | | | |
| Toluene | ND | ug/kg | 5.7 | | | | | |
| Ethylbenzene | ND | ug/kg | 3.8 | | | | | |
| Chloromethane | ND | ug/kg | 19. | | | | | |
| Bromomethane | ND | ug/kg | 7.6 | | | | | |
| Vinyl chloride | ND | ug/kg | 7.6 | | | | | |
| Chloroethane | ND | ug/kg | 7.6 | | | | | |
| 1,1-Dichloroethene | ND | ug/kg | 3.8 | | | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 5.7 | | | | | |
| Trichloroethene | ND | ug/kg | 3.8 | | | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 19. | | | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 19. | | | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 19. | | | | | |
| Methyl tert butyl ether | ND | ug/kg | 7.6 | | | | | |
| p/m-Xylene | ND | ug/kg | 7.6 | | | | | |
| o-Xylene | ND | ug/kg | 7.6 | | | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 3.8 | | | | | |
| Dibromomethane | ND | ug/kg | 38. | | | | | |
| Styrene | ND | ug/kg | 7.6 | | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 38. | | | | | |
| Acetone | 48 | ug/kg | 38 | | | | | |
| Carbon disulfide | ND | ug/kg | 38. | | | | | |
| 2-Butanone | ND | ug/kg | 38. | | | | | |
| Vinyl acetate | ND | ug/kg | 38. | | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 38. | | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 38. | | | | | |
| 2-Hexanone | ND | ug/kg | 38. | | | | | |
| Bromochloromethane | ND | ug/kg | 19. | | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 19. | | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 15. | | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 19. | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 3.8 | | | | | |
| Bromobenzene | ND | ug/kg | 19. | | | | | |
| n-Butylbenzene | ND | ug/kg | 3.8 | | | | | |
| sec-Butylbenzene | ND | ug/kg | 3.8 | | | | | |
| tert-Butylbenzene | ND | ug/kg | 19. | | | | | |
| o-Chlorotoluene | ND | ug/kg | 19. | | | | | |
| p-Chlorotoluene | ND | ug/kg | 19. | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 19. | | | | | |
| Hexachlorobutadiene | ND | ug/kg | 19. | | | | | |
| Isopropylbenzene | ND | ug/kg | 3.8 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813447-08
PWG-DW-2008-34(5.5-6')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|-------------------|---------------|
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0915 18:31 | PD |
| p-Isopropyltoluene | ND | ug/kg | 3.8 | | | |
| Naphthalene | ND | ug/kg | 19. | | | |
| Acrylonitrile | ND | ug/kg | 38. | | | |
| n-Propylbenzene | ND | ug/kg | 3.8 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 19. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 19. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 19. | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 19. | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 15. | | | |
| 4-Ethyltoluene | ND | ug/kg | 15. | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 15. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 85.0 | % | 70-130 | | | |
| Toluene-d8 | 94.0 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 99.0 | % | 70-130 | | | |
| Dibromofluoromethane | 85.0 | % | 70-130 | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 0916 19:00 | 0918 14:14 PS |
| Acenaphthene | ND | ug/kg | 7600 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 7600 | | | |
| Hexachlorobenzene | ND | ug/kg | 7600 | | | |
| Bis(2-chloroethyl)ether | ND | ug/kg | 7600 | | | |
| 2-Chloronaphthalene | ND | ug/kg | 9100 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 7600 | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 7600 | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 7600 | | | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 15000 | | | |
| 2,4-Dinitrotoluene | ND | ug/kg | 7600 | | | |
| 2,6-Dinitrotoluene | ND | ug/kg | 7600 | | | |
| Fluoranthene | ND | ug/kg | 7600 | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/kg | 7600 | | | |
| 4-Bromophenyl phenyl ether | ND | ug/kg | 7600 | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/kg | 7600 | | | |
| Bis(2-chloroethoxy)methane | ND | ug/kg | 7600 | | | |
| Hexachlorobutadiene | ND | ug/kg | 15000 | | | |
| Hexachlorocyclopentadiene | ND | ug/kg | 15000 | | | |
| Hexachloroethane | ND | ug/kg | 7600 | | | |
| Isophorone | ND | ug/kg | 7600 | | | |
| Naphthalene | ND | ug/kg | 7600 | | | |
| Nitrobenzene | ND | ug/kg | 7600 | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/kg | 23000 | | | |
| n-Nitrosodi-n-propylamine | ND | ug/kg | 7600 | | | |
| Bis(2-Ethylhexyl)phthalate | ND | ug/kg | 15000 | | | |
| Butyl benzyl phthalate | ND | ug/kg | 7600 | | | |
| Di-n-butylphthalate | ND | ug/kg | 7600 | | | |
| Di-n-octylphthalate | ND | ug/kg | 7600 | | | |
| Diethyl phthalate | ND | ug/kg | 7600 | | | |
| Dimethyl phthalate | ND | ug/kg | 7600 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813447-08
PWG-DW-2008-34(5.5-6')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 8270C | 0916 19:00 0918 14:14 PS | |
| Benzo(a)anthracene | ND | ug/kg | 7600 | | | |
| Benzo(a)pyrene | ND | ug/kg | 7600 | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 7600 | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 7600 | | | |
| Chrysene | ND | ug/kg | 7600 | | | |
| Acenaphthylene | ND | ug/kg | 7600 | | | |
| Anthracene | ND | ug/kg | 7600 | | | |
| Benzo(ghi)perylene | ND | ug/kg | 7600 | | | |
| Fluorene | ND | ug/kg | 7600 | | | |
| Phenanthrene | ND | ug/kg | 7600 | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 7600 | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 7600 | | | |
| Pyrene | ND | ug/kg | 7600 | | | |
| Biphenyl | ND | ug/kg | 7600 | | | |
| 4-Chloroaniline | ND | ug/kg | 7600 | | | |
| 2-Nitroaniline | ND | ug/kg | 7600 | | | |
| 3-Nitroaniline | ND | ug/kg | 7600 | | | |
| 4-Nitroaniline | ND | ug/kg | 11000 | | | |
| Dibenzofuran | ND | ug/kg | 7600 | | | |
| 2-Methylnaphthalene | ND | ug/kg | 7600 | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/kg | 30000 | | | |
| Acetophenone | ND | ug/kg | 30000 | | | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 7600 | | | |
| p-Chloro-M-Cresol | ND | ug/kg | 7600 | | | |
| 2-Chlorophenol | ND | ug/kg | 9100 | | | |
| 2,4-Dichlorophenol | ND | ug/kg | 15000 | | | |
| 2,4-Dimethylphenol | ND | ug/kg | 7600 | | | |
| 2-Nitrophenol | ND | ug/kg | 30000 | | | |
| 4-Nitrophenol | ND | ug/kg | 15000 | | | |
| 2,4-Dinitrophenol | ND | ug/kg | 30000 | | | |
| 4,6-Dinitro-o-cresol | ND | ug/kg | 30000 | | | |
| Pentachlorophenol | ND | ug/kg | 30000 | | | |
| Phenol | ND | ug/kg | 11000 | | | |
| 2-Methylphenol | ND | ug/kg | 9100 | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/kg | 9100 | | | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 7600 | | | |
| Benzoic Acid | ND | ug/kg | 76000 | | | |
| Benzyl Alcohol | ND | ug/kg | 15000 | | | |
| Carbazole | ND | ug/kg | 7600 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 97.0 | % | 25-120 | | | |
| Phenol-d6 | 93.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 89.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 82.0 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 103 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 73.0 | % | 18-120 | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 8270C | 0912 21:30 0916 07:26 AK | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813447-08
PWG-DW-2008-34(5.5-6')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C-SIM cont'd | | | | 1 8270C | 0912 21:30 0916 07:26 AK | |
| Acenaphthene | ND | ug/kg | 2000 | | | |
| 2-Chloronaphthalene | ND | ug/kg | 2000 | | | |
| Fluoranthene | ND | ug/kg | 2000 | | | |
| Hexachlorobutadiene | ND | ug/kg | 5000 | | | |
| Naphthalene | ND | ug/kg | 2000 | | | |
| Benzo(a)anthracene | ND | ug/kg | 2000 | | | |
| Benzo(a)pyrene | ND | ug/kg | 2000 | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 2000 | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 2000 | | | |
| Chrysene | ND | ug/kg | 2000 | | | |
| Acenaphthylene | ND | ug/kg | 2000 | | | |
| Anthracene | ND | ug/kg | 2000 | | | |
| Benzo(ghi)perylene | ND | ug/kg | 2000 | | | |
| Fluorene | ND | ug/kg | 2000 | | | |
| Phenanthrene | 2000 | ug/kg | 2000 | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 2000 | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 2000 | | | |
| Pyrene | ND | ug/kg | 2000 | | | |
| 2-Methylnaphthalene | 11000 | ug/kg | 2000 | | | |
| Pentachlorophenol | ND | ug/kg | 8100 | | | |
| Hexachlorobenzene | ND | ug/kg | 8100 | | | |
| Hexachloroethane | ND | ug/kg | 8100 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | ND | % | 25-120 | | | |
| Phenol-d6 | ND | % | 10-120 | | | |
| Nitrobenzene-d5 | ND | % | 23-120 | | | |
| 2-Fluorobiphenyl | ND | % | 30-120 | | | |
| 2,4,6-Tribromophenol | ND | % | 19-120 | | | |
| 4-Terphenyl-d14 | ND | % | 18-120 | | | |
| Petroleum Hydrocarbon Quantitation by GC-FID | | | | 1 8015B(M) | 0916 01:30 0918 00:20 JL | |
| TPH | 4820000 | ug/kg | 505000 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| o-Terphenyl | 89.0 | % | 40-140 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0813447-09 | Date Collected: 10-SEP-2008 10:30 |
| PWG-DW-2008-37(11-11.5') | Date Received : 11-SEP-2008 |
| Sample Matrix: SOIL | Date Reported : 22-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 3-Amber,1-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-----------------------|----|
| Solids, Total | 54 | % | 0.10 | 30 2540G | 0913 15:45 | NM |
| Total Metals | | | | | | |
| Aluminum, Total | 9600 | mg/kg | 8.5 | 1 6010B | 0912 18:00 0918 13:41 | AI |
| Antimony, Total | ND | mg/kg | 4.2 | 1 6010B | 0912 18:00 0918 13:41 | AI |
| Arsenic, Total | 4.2 | mg/kg | 0.85 | 1 6010B | 0912 18:00 0919 12:23 | AI |
| Barium, Total | 58 | mg/kg | 0.85 | 1 6010B | 0912 18:00 0918 13:41 | AI |
| Beryllium, Total | ND | mg/kg | 0.42 | 1 6010B | 0912 18:00 0918 13:41 | AI |
| Cadmium, Total | 6.3 | mg/kg | 0.85 | 1 6010B | 0912 18:00 0918 13:41 | AI |
| Calcium, Total | 3100 | mg/kg | 8.5 | 1 6010B | 0912 18:00 0918 13:41 | AI |
| Chromium, Total | 91 | mg/kg | 0.85 | 1 6010B | 0912 18:00 0918 13:41 | AI |
| Cobalt, Total | 5.5 | mg/kg | 1.7 | 1 6010B | 0912 18:00 0918 13:41 | AI |
| Copper, Total | 240 | mg/kg | 0.85 | 1 6010B | 0912 18:00 0918 13:41 | AI |
| Iron, Total | 11000 | mg/kg | 4.2 | 1 6010B | 0912 18:00 0918 13:41 | AI |
| Lead, Total | 890 | mg/kg | 4.2 | 1 6010B | 0912 18:00 0918 13:41 | AI |
| Magnesium, Total | 2200 | mg/kg | 8.5 | 1 6010B | 0912 18:00 0918 13:41 | AI |
| Manganese, Total | 64 | mg/kg | 0.85 | 1 6010B | 0912 18:00 0919 12:23 | AI |
| Mercury, Total | 1.6 | mg/kg | 0.14 | 1 7471A | 0912 20:30 0914 14:26 | HG |
| Nickel, Total | 42 | mg/kg | 2.1 | 1 6010B | 0912 18:00 0918 13:41 | AI |
| Potassium, Total | 650 | mg/kg | 210 | 1 6010B | 0912 18:00 0918 13:41 | AI |
| Selenium, Total | 2.5 | mg/kg | 1.7 | 1 6010B | 0912 18:00 0919 12:23 | AI |
| Silver, Total | 2.9 | mg/kg | 0.85 | 1 6010B | 0912 18:00 0918 13:41 | AI |
| Sodium, Total | ND | mg/kg | 170 | 1 6010B | 0912 18:00 0918 13:41 | AI |
| Thallium, Total | ND | mg/kg | 1.7 | 1 6010B | 0912 18:00 0918 13:41 | AI |
| Vanadium, Total | 70 | mg/kg | 0.85 | 1 6010B | 0912 18:00 0918 13:41 | AI |
| Zinc, Total | 730 | mg/kg | 4.2 | 1 6010B | 0912 18:00 0918 13:41 | AI |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0915 19:08 | PD |
| Methylene chloride | ND | ug/kg | 46. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 6.9 | | | |
| Chloroform | ND | ug/kg | 6.9 | | | |
| Carbon tetrachloride | ND | ug/kg | 4.6 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 16. | | | |
| Dibromochloromethane | ND | ug/kg | 4.6 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 6.9 | | | |
| Tetrachloroethene | ND | ug/kg | 4.6 | | | |
| Chlorobenzene | ND | ug/kg | 4.6 | | | |
| Trichlorofluoromethane | ND | ug/kg | 23. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813447-09
PWG-DW-2008-37(11-11.5')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---------------------------------------|--------|-------|-----|------------|-------|---------------|----|
| | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0915 19:08 PD | |
| 1,2-Dichloroethane | ND | ug/kg | 4.6 | | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 4.6 | | | | |
| Bromodichloromethane | ND | ug/kg | 4.6 | | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 4.6 | | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 4.6 | | | | |
| 1,1-Dichloropropene | ND | ug/kg | 23. | | | | |
| Bromoform | ND | ug/kg | 18. | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 4.6 | | | | |
| Benzene | ND | ug/kg | 4.6 | | | | |
| Toluene | ND | ug/kg | 6.9 | | | | |
| Ethylbenzene | ND | ug/kg | 4.6 | | | | |
| Chloromethane | ND | ug/kg | 23. | | | | |
| Bromomethane | ND | ug/kg | 9.2 | | | | |
| Vinyl chloride | ND | ug/kg | 9.2 | | | | |
| Chloroethane | ND | ug/kg | 9.2 | | | | |
| 1,1-Dichloroethene | ND | ug/kg | 4.6 | | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 6.9 | | | | |
| Trichloroethene | ND | ug/kg | 4.6 | | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 23. | | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 23. | | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 23. | | | | |
| Methyl tert butyl ether | ND | ug/kg | 9.2 | | | | |
| p/m-Xylene | ND | ug/kg | 9.2 | | | | |
| o-Xylene | ND | ug/kg | 9.2 | | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 4.6 | | | | |
| Dibromomethane | ND | ug/kg | 46. | | | | |
| Styrene | ND | ug/kg | 9.2 | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 46. | | | | |
| Acetone | 67 | ug/kg | 46 | | | | |
| Carbon disulfide | ND | ug/kg | 46. | | | | |
| 2-Butanone | ND | ug/kg | 46. | | | | |
| Vinyl acetate | ND | ug/kg | 46. | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 46. | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 46. | | | | |
| 2-Hexanone | ND | ug/kg | 46. | | | | |
| Bromochloromethane | ND | ug/kg | 23. | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 23. | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 18. | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 23. | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 4.6 | | | | |
| Bromobenzene | ND | ug/kg | 23. | | | | |
| n-Butylbenzene | ND | ug/kg | 4.6 | | | | |
| sec-Butylbenzene | ND | ug/kg | 4.6 | | | | |
| tert-Butylbenzene | ND | ug/kg | 23. | | | | |
| o-Chlorotoluene | ND | ug/kg | 23. | | | | |
| p-Chlorotoluene | ND | ug/kg | 23. | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 23. | | | | |
| Hexachlorobutadiene | ND | ug/kg | 23. | | | | |
| Isopropylbenzene | ND | ug/kg | 4.6 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813447-09
PWG-DW-2008-37(11-11.5')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|--------------------------|----|
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0915 19:08 PD | |
| p-Isopropyltoluene | ND | ug/kg | 4.6 | | | |
| Naphthalene | ND | ug/kg | 23. | | | |
| Acrylonitrile | ND | ug/kg | 46. | | | |
| n-Propylbenzene | ND | ug/kg | 4.6 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 23. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 23. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 23. | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 23. | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 18. | | | |
| 4-Ethyltoluene | ND | ug/kg | 18. | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 18. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 97.0 | % | 70-130 | | | |
| Toluene-d8 | 109 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 125 | % | 70-130 | | | |
| Dibromofluoromethane | 98.0 | % | 70-130 | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 0916 19:00 0918 14:37 PS | |
| Acenaphthene | ND | ug/kg | 31000 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 31000 | | | |
| Hexachlorobenzene | ND | ug/kg | 31000 | | | |
| Bis(2-chloroethyl)ether | ND | ug/kg | 31000 | | | |
| 2-Chloronaphthalene | ND | ug/kg | 37000 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 31000 | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 31000 | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 31000 | | | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 62000 | | | |
| 2,4-Dinitrotoluene | ND | ug/kg | 31000 | | | |
| 2,6-Dinitrotoluene | ND | ug/kg | 31000 | | | |
| Fluoranthene | ND | ug/kg | 31000 | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/kg | 31000 | | | |
| 4-Bromophenyl phenyl ether | ND | ug/kg | 31000 | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/kg | 31000 | | | |
| Bis(2-chloroethoxy)methane | ND | ug/kg | 31000 | | | |
| Hexachlorobutadiene | ND | ug/kg | 62000 | | | |
| Hexachlorocyclopentadiene | ND | ug/kg | 62000 | | | |
| Hexachloroethane | ND | ug/kg | 31000 | | | |
| Isophorone | ND | ug/kg | 31000 | | | |
| Naphthalene | ND | ug/kg | 31000 | | | |
| Nitrobenzene | ND | ug/kg | 31000 | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/kg | 92000 | | | |
| n-Nitrosodi-n-propylamine | ND | ug/kg | 31000 | | | |
| Bis(2-Ethylhexyl)phthalate | ND | ug/kg | 62000 | | | |
| Butyl benzyl phthalate | ND | ug/kg | 31000 | | | |
| Di-n-butylphthalate | ND | ug/kg | 31000 | | | |
| Di-n-octylphthalate | ND | ug/kg | 31000 | | | |
| Diethyl phthalate | ND | ug/kg | 31000 | | | |
| Dimethyl phthalate | ND | ug/kg | 31000 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813447-09
PWG-DW-2008-37(11-11.5')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 8270C | 0916 19:00 0918 14:37 PS | |
| Benzo(a)anthracene | ND | ug/kg | 31000 | | | |
| Benzo(a)pyrene | ND | ug/kg | 31000 | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 31000 | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 31000 | | | |
| Chrysene | ND | ug/kg | 31000 | | | |
| Acenaphthylene | ND | ug/kg | 31000 | | | |
| Anthracene | ND | ug/kg | 31000 | | | |
| Benzo(ghi)perylene | ND | ug/kg | 31000 | | | |
| Fluorene | ND | ug/kg | 31000 | | | |
| Phenanthrene | ND | ug/kg | 31000 | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 31000 | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 31000 | | | |
| Pyrene | ND | ug/kg | 31000 | | | |
| Biphenyl | ND | ug/kg | 31000 | | | |
| 4-Chloroaniline | ND | ug/kg | 31000 | | | |
| 2-Nitroaniline | ND | ug/kg | 31000 | | | |
| 3-Nitroaniline | ND | ug/kg | 31000 | | | |
| 4-Nitroaniline | ND | ug/kg | 43000 | | | |
| Dibenzofuran | ND | ug/kg | 31000 | | | |
| 2-Methylnaphthalene | ND | ug/kg | 31000 | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/kg | 120000 | | | |
| Acetophenone | ND | ug/kg | 120000 | | | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 31000 | | | |
| p-Chloro-M-Cresol | ND | ug/kg | 31000 | | | |
| 2-Chlorophenol | ND | ug/kg | 37000 | | | |
| 2,4-Dichlorophenol | ND | ug/kg | 62000 | | | |
| 2,4-Dimethylphenol | ND | ug/kg | 31000 | | | |
| 2-Nitrophenol | ND | ug/kg | 120000 | | | |
| 4-Nitrophenol | ND | ug/kg | 62000 | | | |
| 2,4-Dinitrophenol | ND | ug/kg | 120000 | | | |
| 4,6-Dinitro-o-cresol | ND | ug/kg | 120000 | | | |
| Pentachlorophenol | ND | ug/kg | 120000 | | | |
| Phenol | ND | ug/kg | 43000 | | | |
| 2-Methylphenol | ND | ug/kg | 37000 | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/kg | 37000 | | | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 31000 | | | |
| Benzoic Acid | ND | ug/kg | 310000 | | | |
| Benzyl Alcohol | ND | ug/kg | 62000 | | | |
| Carbazole | ND | ug/kg | 31000 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | ND | % | 25-120 | | | |
| Phenol-d6 | ND | % | 10-120 | | | |
| Nitrobenzene-d5 | ND | % | 23-120 | | | |
| 2-Fluorobiphenyl | ND | % | 30-120 | | | |
| 2,4,6-Tribromophenol | ND | % | 19-120 | | | |
| 4-Terphenyl-d14 | ND | % | 18-120 | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 8270C | 0912 21:30 0916 08:12 AK | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813447-09
PWG-DW-2008-37(11-11.5')

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---|----------|-------|-------------|-----|----------|------------|------------|----|
| | | | | | | PREP | ANAL | |
| Semivolatile Organics by EPA 8270C-SIM cont'd | | | | 1 | 8270C | 0912 21:30 | 0916 08:12 | AK |
| Acenaphthene | ND | ug/kg | 2500 | | | | | |
| 2-Chloronaphthalene | ND | ug/kg | 2500 | | | | | |
| Fluoranthene | 4800 | ug/kg | 2500 | | | | | |
| Hexachlorobutadiene | ND | ug/kg | 6200 | | | | | |
| Naphthalene | ND | ug/kg | 2500 | | | | | |
| Benzo(a)anthracene | ND | ug/kg | 2500 | | | | | |
| Benzo(a)pyrene | ND | ug/kg | 2500 | | | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 2500 | | | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 2500 | | | | | |
| Chrysene | ND | ug/kg | 2500 | | | | | |
| Acenaphthylene | ND | ug/kg | 2500 | | | | | |
| Anthracene | ND | ug/kg | 2500 | | | | | |
| Benzo(ghi)perylene | ND | ug/kg | 2500 | | | | | |
| Fluorene | ND | ug/kg | 2500 | | | | | |
| Phenanthrene | ND | ug/kg | 2500 | | | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 2500 | | | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 2500 | | | | | |
| Pyrene | 5000 | ug/kg | 2500 | | | | | |
| 2-Methylnaphthalene | ND | ug/kg | 2500 | | | | | |
| Pentachlorophenol | ND | ug/kg | 9900 | | | | | |
| Hexachlorobenzene | ND | ug/kg | 9900 | | | | | |
| Hexachloroethane | ND | ug/kg | 9900 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 2-Fluorophenol | ND | % | 25-120 | | | | | |
| Phenol-d6 | ND | % | 10-120 | | | | | |
| Nitrobenzene-d5 | ND | % | 23-120 | | | | | |
| 2-Fluorobiphenyl | ND | % | 30-120 | | | | | |
| 2,4,6-Tribromophenol | ND | % | 19-120 | | | | | |
| 4-Terphenyl-d14 | ND | % | 18-120 | | | | | |
| Petroleum Hydrocarbon Quantitation by GC-FID | | | | 1 | 8015B(M) | 0916 01:30 | 0918 11:18 | JL |
| TPH | 9730000 | ug/kg | 3090000 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| o-Terphenyl | 92.0 | % | 40-140 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0813447-10 | Date Collected: 10-SEP-2008 10:20 |
| PWG-DW-2008-101(5.5-6') | Date Received : 11-SEP-2008 |
| Sample Matrix: SOIL | Date Reported : 22-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 3-Amber,1-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-----------------------|----|
| Solids, Total | 64 | % | 0.10 | 30 2540G | 0913 15:45 | NM |
| Total Metals | | | | | | |
| Aluminum, Total | 3900 | mg/kg | 7.6 | 1 6010B | 0912 18:00 0918 13:44 | AI |
| Antimony, Total | ND | mg/kg | 3.8 | 1 6010B | 0912 18:00 0918 13:44 | AI |
| Arsenic, Total | 1.1 | mg/kg | 0.76 | 1 6010B | 0912 18:00 0919 12:26 | AI |
| Barium, Total | 33 | mg/kg | 0.76 | 1 6010B | 0912 18:00 0918 13:44 | AI |
| Beryllium, Total | ND | mg/kg | 0.38 | 1 6010B | 0912 18:00 0918 13:44 | AI |
| Cadmium, Total | 1.6 | mg/kg | 0.76 | 1 6010B | 0912 18:00 0918 13:44 | AI |
| Calcium, Total | 11000 | mg/kg | 7.6 | 1 6010B | 0912 18:00 0918 13:44 | AI |
| Chromium, Total | 28 | mg/kg | 0.76 | 1 6010B | 0912 18:00 0918 13:44 | AI |
| Cobalt, Total | 2.6 | mg/kg | 1.5 | 1 6010B | 0912 18:00 0918 13:44 | AI |
| Copper, Total | 41 | mg/kg | 0.76 | 1 6010B | 0912 18:00 0918 13:44 | AI |
| Iron, Total | 6100 | mg/kg | 3.8 | 1 6010B | 0912 18:00 0918 13:44 | AI |
| Lead, Total | 270 | mg/kg | 3.8 | 1 6010B | 0912 18:00 0918 13:44 | AI |
| Magnesium, Total | 6300 | mg/kg | 7.6 | 1 6010B | 0912 18:00 0918 13:44 | AI |
| Manganese, Total | 60 | mg/kg | 0.76 | 1 6010B | 0912 18:00 0919 12:26 | AI |
| Mercury, Total | 4.6 | mg/kg | 0.63 | 1 7471A | 0912 20:30 0914 16:08 | HG |
| Nickel, Total | 13 | mg/kg | 1.9 | 1 6010B | 0912 18:00 0918 13:44 | AI |
| Potassium, Total | 250 | mg/kg | 190 | 1 6010B | 0912 18:00 0918 13:44 | AI |
| Selenium, Total | ND | mg/kg | 1.5 | 1 6010B | 0912 18:00 0919 12:26 | AI |
| Silver, Total | 0.98 | mg/kg | 0.76 | 1 6010B | 0912 18:00 0918 13:44 | AI |
| Sodium, Total | ND | mg/kg | 150 | 1 6010B | 0912 18:00 0918 13:44 | AI |
| Thallium, Total | ND | mg/kg | 1.5 | 1 6010B | 0912 18:00 0918 13:44 | AI |
| Vanadium, Total | 25 | mg/kg | 0.76 | 1 6010B | 0912 18:00 0918 13:44 | AI |
| Zinc, Total | 300 | mg/kg | 3.8 | 1 6010B | 0912 18:00 0918 13:44 | AI |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0915 19:44 | PD |
| Methylene chloride | ND | ug/kg | 39. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 5.8 | | | |
| Chloroform | ND | ug/kg | 5.8 | | | |
| Carbon tetrachloride | ND | ug/kg | 3.9 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 14. | | | |
| Dibromochloromethane | ND | ug/kg | 3.9 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 5.8 | | | |
| Tetrachloroethene | ND | ug/kg | 3.9 | | | |
| Chlorobenzene | ND | ug/kg | 3.9 | | | |
| Trichlorofluoromethane | ND | ug/kg | 20. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813447-10
PWG-DW-2008-101(5.5-6')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---------------------------------------|--------|-------|-----|------------|-------|---------------|----|
| | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0915 19:44 PD | |
| 1,2-Dichloroethane | ND | ug/kg | 3.9 | | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 3.9 | | | | |
| Bromodichloromethane | ND | ug/kg | 3.9 | | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 3.9 | | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 3.9 | | | | |
| 1,1-Dichloropropene | ND | ug/kg | 20. | | | | |
| Bromoform | ND | ug/kg | 16. | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 3.9 | | | | |
| Benzene | ND | ug/kg | 3.9 | | | | |
| Toluene | ND | ug/kg | 5.8 | | | | |
| Ethylbenzene | ND | ug/kg | 3.9 | | | | |
| Chloromethane | ND | ug/kg | 20. | | | | |
| Bromomethane | ND | ug/kg | 7.8 | | | | |
| Vinyl chloride | ND | ug/kg | 7.8 | | | | |
| Chloroethane | ND | ug/kg | 7.8 | | | | |
| 1,1-Dichloroethene | ND | ug/kg | 3.9 | | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 5.8 | | | | |
| Trichloroethene | ND | ug/kg | 3.9 | | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 20. | | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 20. | | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 20. | | | | |
| Methyl tert butyl ether | ND | ug/kg | 7.8 | | | | |
| p/m-Xylene | ND | ug/kg | 7.8 | | | | |
| o-Xylene | ND | ug/kg | 7.8 | | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 3.9 | | | | |
| Dibromomethane | ND | ug/kg | 39. | | | | |
| Styrene | ND | ug/kg | 7.8 | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 39. | | | | |
| Acetone | 180 | ug/kg | 39 | | | | |
| Carbon disulfide | ND | ug/kg | 39. | | | | |
| 2-Butanone | 58 | ug/kg | 39 | | | | |
| Vinyl acetate | ND | ug/kg | 39. | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 39. | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 39. | | | | |
| 2-Hexanone | ND | ug/kg | 39. | | | | |
| Bromochloromethane | ND | ug/kg | 20. | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 20. | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 16. | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 20. | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 3.9 | | | | |
| Bromobenzene | ND | ug/kg | 20. | | | | |
| n-Butylbenzene | 7.5 | ug/kg | 3.9 | | | | |
| sec-Butylbenzene | 10 | ug/kg | 3.9 | | | | |
| tert-Butylbenzene | ND | ug/kg | 20. | | | | |
| o-Chlorotoluene | ND | ug/kg | 20. | | | | |
| p-Chlorotoluene | ND | ug/kg | 20. | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 20. | | | | |
| Hexachlorobutadiene | ND | ug/kg | 20. | | | | |
| Isopropylbenzene | 22 | ug/kg | 3.9 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813447-10
PWG-DW-2008-101(5.5-6')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|-------------------|----|
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0915 19:44 PD | |
| p-Isopropyltoluene | ND | ug/kg | 3.9 | | | |
| Naphthalene | ND | ug/kg | 20. | | | |
| Acrylonitrile | ND | ug/kg | 39. | | | |
| n-Propylbenzene | 11 | ug/kg | 3.9 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 20. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 20. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 20. | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 20. | | | |
| 1,4-Diethylbenzene | 18 | ug/kg | 16 | | | |
| 4-Ethyltoluene | ND | ug/kg | 16. | | | |
| 1,2,4,5-Tetramethylbenzene | 20 | ug/kg | 16 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 117 | % | 70-130 | | | |
| Toluene-d8 | 131 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 180 | % | 70-130 | | | |
| Dibromofluoromethane | 118 | % | 70-130 | | | |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0916 15:13 PD | |
| Methylene chloride | ND | ug/kg | 39. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 5.8 | | | |
| Chloroform | ND | ug/kg | 5.8 | | | |
| Carbon tetrachloride | ND | ug/kg | 3.9 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 14. | | | |
| Dibromochloromethane | ND | ug/kg | 3.9 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 5.8 | | | |
| Tetrachloroethene | ND | ug/kg | 3.9 | | | |
| Chlorobenzene | ND | ug/kg | 3.9 | | | |
| Trichlorofluoromethane | ND | ug/kg | 20. | | | |
| 1,2-Dichloroethane | ND | ug/kg | 3.9 | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 3.9 | | | |
| Bromodichloromethane | ND | ug/kg | 3.9 | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 3.9 | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 3.9 | | | |
| 1,1-Dichloropropene | ND | ug/kg | 20. | | | |
| Bromoform | ND | ug/kg | 16. | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 3.9 | | | |
| Benzene | ND | ug/kg | 3.9 | | | |
| Toluene | ND | ug/kg | 5.8 | | | |
| Ethylbenzene | ND | ug/kg | 3.9 | | | |
| Chloromethane | ND | ug/kg | 20. | | | |
| Bromomethane | ND | ug/kg | 7.8 | | | |
| Vinyl chloride | ND | ug/kg | 7.8 | | | |
| Chloroethane | ND | ug/kg | 7.8 | | | |
| 1,1-Dichloroethene | ND | ug/kg | 3.9 | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 5.8 | | | |
| Trichloroethene | ND | ug/kg | 3.9 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 20. | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 20. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813447-10
PWG-DW-2008-101(5.5-6')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|--------------------------|----|
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0916 15:13 PD | |
| 1,4-Dichlorobenzene | ND | ug/kg | 20. | | | |
| Methyl tert butyl ether | ND | ug/kg | 7.8 | | | |
| p/m-Xylene | ND | ug/kg | 7.8 | | | |
| o-Xylene | ND | ug/kg | 7.8 | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 3.9 | | | |
| Dibromomethane | ND | ug/kg | 39. | | | |
| Styrene | ND | ug/kg | 7.8 | | | |
| Dichlorodifluoromethane | ND | ug/kg | 39. | | | |
| Acetone | 190 | ug/kg | 39 | | | |
| Carbon disulfide | ND | ug/kg | 39. | | | |
| 2-Butanone | 59 | ug/kg | 39 | | | |
| Vinyl acetate | ND | ug/kg | 39. | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 39. | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 39. | | | |
| 2-Hexanone | ND | ug/kg | 39. | | | |
| Bromochloromethane | ND | ug/kg | 20. | | | |
| 2,2-Dichloropropane | ND | ug/kg | 20. | | | |
| 1,2-Dibromoethane | ND | ug/kg | 16. | | | |
| 1,3-Dichloropropane | ND | ug/kg | 20. | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 3.9 | | | |
| Bromobenzene | ND | ug/kg | 20. | | | |
| n-Butylbenzene | 13 | ug/kg | 3.9 | | | |
| sec-Butylbenzene | 16 | ug/kg | 3.9 | | | |
| tert-Butylbenzene | ND | ug/kg | 20. | | | |
| o-Chlorotoluene | ND | ug/kg | 20. | | | |
| p-Chlorotoluene | ND | ug/kg | 20. | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 20. | | | |
| Hexachlorobutadiene | ND | ug/kg | 20. | | | |
| Isopropylbenzene | 28 | ug/kg | 3.9 | | | |
| p-Isopropyltoluene | ND | ug/kg | 3.9 | | | |
| Naphthalene | ND | ug/kg | 20. | | | |
| Acrylonitrile | ND | ug/kg | 39. | | | |
| n-Propylbenzene | 16 | ug/kg | 3.9 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 20. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 20. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 20. | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 20. | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 16. | | | |
| 4-Ethyltoluene | ND | ug/kg | 16. | | | |
| 1,2,4,5-Tetramethylbenzene | 31 | ug/kg | 16 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 97.0 | % | 70-130 | | | |
| Toluene-d8 | 106 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 134 | % | 70-130 | | | |
| Dibromofluoromethane | 97.0 | % | 70-130 | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 0916 19:00 0918 15:00 PS | |
| Acenaphthene | ND | ug/kg | 7800 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813447-10
PWG-DW-2008-101(5.5-6')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---|--------|-------|-------|------------|------------|------------|----|
| | | | | | PREP | ANAL | |
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 8270C | 0916 19:00 | 0918 15:00 | PS |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 7800 | | | | |
| Hexachlorobenzene | ND | ug/kg | 7800 | | | | |
| Bis(2-chloroethyl)ether | ND | ug/kg | 7800 | | | | |
| 2-Chloronaphthalene | ND | ug/kg | 9400 | | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 7800 | | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 7800 | | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 7800 | | | | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 16000 | | | | |
| 2,4-Dinitrotoluene | ND | ug/kg | 7800 | | | | |
| 2,6-Dinitrotoluene | ND | ug/kg | 7800 | | | | |
| Fluoranthene | ND | ug/kg | 7800 | | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/kg | 7800 | | | | |
| 4-Bromophenyl phenyl ether | ND | ug/kg | 7800 | | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/kg | 7800 | | | | |
| Bis(2-chloroethoxy)methane | ND | ug/kg | 7800 | | | | |
| Hexachlorobutadiene | ND | ug/kg | 16000 | | | | |
| Hexachlorocyclopentadiene | ND | ug/kg | 16000 | | | | |
| Hexachloroethane | ND | ug/kg | 7800 | | | | |
| Isophorone | ND | ug/kg | 7800 | | | | |
| Naphthalene | ND | ug/kg | 7800 | | | | |
| Nitrobenzene | ND | ug/kg | 7800 | | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/kg | 23000 | | | | |
| n-Nitrosodi-n-propylamine | ND | ug/kg | 7800 | | | | |
| Bis(2-Ethylhexyl)phthalate | ND | ug/kg | 16000 | | | | |
| Butyl benzyl phthalate | ND | ug/kg | 7800 | | | | |
| Di-n-butylphthalate | ND | ug/kg | 7800 | | | | |
| Di-n-octylphthalate | ND | ug/kg | 7800 | | | | |
| Diethyl phthalate | ND | ug/kg | 7800 | | | | |
| Dimethyl phthalate | ND | ug/kg | 7800 | | | | |
| Benzo(a)anthracene | ND | ug/kg | 7800 | | | | |
| Benzo(a)pyrene | ND | ug/kg | 7800 | | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 7800 | | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 7800 | | | | |
| Chrysene | ND | ug/kg | 7800 | | | | |
| Acenaphthylene | ND | ug/kg | 7800 | | | | |
| Anthracene | ND | ug/kg | 7800 | | | | |
| Benzo(ghi)perylene | ND | ug/kg | 7800 | | | | |
| Fluorene | ND | ug/kg | 7800 | | | | |
| Phenanthrene | ND | ug/kg | 7800 | | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 7800 | | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 7800 | | | | |
| Pyrene | ND | ug/kg | 7800 | | | | |
| Biphenyl | ND | ug/kg | 7800 | | | | |
| 4-Chloroaniline | ND | ug/kg | 7800 | | | | |
| 2-Nitroaniline | ND | ug/kg | 7800 | | | | |
| 3-Nitroaniline | ND | ug/kg | 7800 | | | | |
| 4-Nitroaniline | ND | ug/kg | 11000 | | | | |
| Dibenzofuran | ND | ug/kg | 7800 | | | | |
| 2-Methylnaphthalene | 8600 | ug/kg | 7800 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813447-10
PWG-DW-2008-101(5.5-6')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---|----------|-------|-------------|------------|------------|------------|----|
| | | | | | PREP | ANAL | |
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 8270C | 0916 19:00 | 0918 15:00 | PS |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/kg | 31000 | | | | |
| Acetophenone | ND | ug/kg | 31000 | | | | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 7800 | | | | |
| P-Chloro-M-Cresol | ND | ug/kg | 7800 | | | | |
| 2-Chlorophenol | ND | ug/kg | 9400 | | | | |
| 2,4-Dichlorophenol | ND | ug/kg | 16000 | | | | |
| 2,4-Dimethylphenol | ND | ug/kg | 7800 | | | | |
| 2-Nitrophenol | ND | ug/kg | 31000 | | | | |
| 4-Nitrophenol | ND | ug/kg | 16000 | | | | |
| 2,4-Dinitrophenol | ND | ug/kg | 31000 | | | | |
| 4,6-Dinitro-o-cresol | ND | ug/kg | 31000 | | | | |
| Pentachlorophenol | ND | ug/kg | 31000 | | | | |
| Phenol | ND | ug/kg | 11000 | | | | |
| 2-Methylphenol | ND | ug/kg | 9400 | | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/kg | 9400 | | | | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 7800 | | | | |
| Benzoic Acid | ND | ug/kg | 78000 | | | | |
| Benzyl Alcohol | ND | ug/kg | 16000 | | | | |
| Carbazole | ND | ug/kg | 7800 | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | |
| 2-Fluorophenol | 102 | % | 25-120 | | | | |
| Phenol-d6 | 97.0 | % | 10-120 | | | | |
| Nitrobenzene-d5 | 91.0 | % | 23-120 | | | | |
| 2-Fluorobiphenyl | 81.0 | % | 30-120 | | | | |
| 2,4,6-Tribromophenol | 111 | % | 19-120 | | | | |
| 4-Terphenyl-d14 | 74.0 | % | 18-120 | | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 8270C | 0912 21:30 | 0916 08:59 | AK |
| Acenaphthene | ND | ug/kg | 2100 | | | | |
| 2-Chloronaphthalene | ND | ug/kg | 2100 | | | | |
| Fluoranthene | ND | ug/kg | 2100 | | | | |
| Hexachlorobutadiene | ND | ug/kg | 5200 | | | | |
| Naphthalene | ND | ug/kg | 2100 | | | | |
| Benzo(a)anthracene | ND | ug/kg | 2100 | | | | |
| Benzo(a)pyrene | ND | ug/kg | 2100 | | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 2100 | | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 2100 | | | | |
| Chrysene | ND | ug/kg | 2100 | | | | |
| Acenaphthylene | ND | ug/kg | 2100 | | | | |
| Anthracene | ND | ug/kg | 2100 | | | | |
| Benzo(ghi)perylene | ND | ug/kg | 2100 | | | | |
| Fluorene | ND | ug/kg | 2100 | | | | |
| Phenanthrene | ND | ug/kg | 2100 | | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 2100 | | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 2100 | | | | |
| Pyrene | ND | ug/kg | 2100 | | | | |
| 2-Methylnaphthalene | 13000 | ug/kg | 2100 | | | | |
| Pentachlorophenol | ND | ug/kg | 8300 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813447-10
PWG-DW-2008-101(5.5-6')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C-SIM cont'd | | | | 1 8270C | 0912 21:30 0916 08:59 AK | |
| Hexachlorobenzene | ND | ug/kg | 8300 | | | |
| Hexachloroethane | ND | ug/kg | 8300 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | ND | % | 25-120 | | | |
| Phenol-d6 | ND | % | 10-120 | | | |
| Nitrobenzene-d5 | ND | % | 23-120 | | | |
| 2-Fluorobiphenyl | ND | % | 30-120 | | | |
| 2,4,6-Tribromophenol | ND | % | 19-120 | | | |
| 4-Terphenyl-d14 | ND | % | 18-120 | | | |
| Petroleum Hydrocarbon Quantitation by GC-FID | | | | 1 8015B(M) | 0916 01:30 0918 01:28 JL | |
| TPH | 5530000 | ug/kg | 521000 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| o-Terphenyl | 93.0 | % | 40-140 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0813447-11 | Date Collected: 10-SEP-2008 10:45 |
| PWG-DW-2008-38(7-7.5') | Date Received : 11-SEP-2008 |
| Sample Matrix: SOIL | Date Reported : 22-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 3-Amber,1-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-----------------------|----|
| Solids, Total | 68 | % | 0.10 | 30 2540G | 0913 15:45 | NM |
| Total Metals | | | | | | |
| Aluminum, Total | 2600 | mg/kg | 7.0 | 1 6010B | 0912 18:00 0918 13:47 | AI |
| Antimony, Total | ND | mg/kg | 3.5 | 1 6010B | 0912 18:00 0918 13:47 | AI |
| Arsenic, Total | 1.0 | mg/kg | 0.70 | 1 6010B | 0912 18:00 0919 12:29 | AI |
| Barium, Total | 24 | mg/kg | 0.70 | 1 6010B | 0912 18:00 0918 13:47 | AI |
| Beryllium, Total | ND | mg/kg | 0.35 | 1 6010B | 0912 18:00 0918 13:47 | AI |
| Cadmium, Total | 0.77 | mg/kg | 0.70 | 1 6010B | 0912 18:00 0918 13:47 | AI |
| Calcium, Total | 28000 | mg/kg | 7.0 | 1 6010B | 0912 18:00 0918 13:47 | AI |
| Chromium, Total | 25 | mg/kg | 0.70 | 1 6010B | 0912 18:00 0918 13:47 | AI |
| Cobalt, Total | 2.3 | mg/kg | 1.4 | 1 6010B | 0912 18:00 0918 13:47 | AI |
| Copper, Total | 33 | mg/kg | 0.70 | 1 6010B | 0912 18:00 0918 13:47 | AI |
| Iron, Total | 5900 | mg/kg | 3.5 | 1 6010B | 0912 18:00 0918 13:47 | AI |
| Lead, Total | 120 | mg/kg | 3.5 | 1 6010B | 0912 18:00 0918 13:47 | AI |
| Magnesium, Total | 18000 | mg/kg | 7.0 | 1 6010B | 0912 18:00 0918 13:47 | AI |
| Manganese, Total | 77 | mg/kg | 0.70 | 1 6010B | 0912 18:00 0919 12:29 | AI |
| Mercury, Total | 0.37 | mg/kg | 0.11 | 1 7471A | 0912 20:30 0914 14:30 | HG |
| Nickel, Total | 9.2 | mg/kg | 1.8 | 1 6010B | 0912 18:00 0918 13:47 | AI |
| Potassium, Total | 330 | mg/kg | 180 | 1 6010B | 0912 18:00 0918 13:47 | AI |
| Selenium, Total | ND | mg/kg | 1.4 | 1 6010B | 0912 18:00 0919 12:29 | AI |
| Silver, Total | 0.98 | mg/kg | 0.70 | 1 6010B | 0912 18:00 0918 13:47 | AI |
| Sodium, Total | ND | mg/kg | 140 | 1 6010B | 0912 18:00 0918 13:47 | AI |
| Thallium, Total | ND | mg/kg | 1.4 | 1 6010B | 0912 18:00 0918 13:47 | AI |
| Vanadium, Total | 25 | mg/kg | 0.70 | 1 6010B | 0912 18:00 0918 13:47 | AI |
| Zinc, Total | 270 | mg/kg | 3.5 | 1 6010B | 0912 18:00 0918 13:47 | AI |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0915 20:21 | PD |
| Methylene chloride | ND | ug/kg | 37. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 5.5 | | | |
| Chloroform | ND | ug/kg | 5.5 | | | |
| Carbon tetrachloride | ND | ug/kg | 3.7 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 13. | | | |
| Dibromochloromethane | ND | ug/kg | 3.7 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 5.5 | | | |
| Tetrachloroethene | ND | ug/kg | 3.7 | | | |
| Chlorobenzene | ND | ug/kg | 3.7 | | | |
| Trichlorofluoromethane | ND | ug/kg | 18. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813447-11
PWG-DW-2008-38(7-7.5')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---------------------------------------|--------|-------|-----|------------|-------|---------------|----|
| | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0915 20:21 PD | |
| 1,2-Dichloroethane | ND | ug/kg | 3.7 | | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 3.7 | | | | |
| Bromodichloromethane | ND | ug/kg | 3.7 | | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 3.7 | | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 3.7 | | | | |
| 1,1-Dichloropropene | ND | ug/kg | 18. | | | | |
| Bromoform | ND | ug/kg | 15. | | | | |
| 1,1,2,2-Tetrachloroethane | 280 | ug/kg | 3.7 | | | | |
| Benzene | ND | ug/kg | 3.7 | | | | |
| Toluene | 25 | ug/kg | 5.5 | | | | |
| Ethylbenzene | 4.5 | ug/kg | 3.7 | | | | |
| Chloromethane | ND | ug/kg | 18. | | | | |
| Bromomethane | ND | ug/kg | 7.4 | | | | |
| Vinyl chloride | ND | ug/kg | 7.4 | | | | |
| Chloroethane | ND | ug/kg | 7.4 | | | | |
| 1,1-Dichloroethene | ND | ug/kg | 3.7 | | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 5.5 | | | | |
| Trichloroethene | ND | ug/kg | 3.7 | | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 18. | | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 18. | | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 18. | | | | |
| Methyl tert butyl ether | ND | ug/kg | 7.4 | | | | |
| p/m-Xylene | 7.9 | ug/kg | 7.4 | | | | |
| o-Xylene | ND | ug/kg | 7.4 | | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 3.7 | | | | |
| Dibromomethane | ND | ug/kg | 37. | | | | |
| Styrene | ND | ug/kg | 7.4 | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 37. | | | | |
| Acetone | 130 | ug/kg | 37 | | | | |
| Carbon disulfide | ND | ug/kg | 37. | | | | |
| 2-Butanone | ND | ug/kg | 37. | | | | |
| Vinyl acetate | ND | ug/kg | 37. | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 37. | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 37. | | | | |
| 2-Hexanone | ND | ug/kg | 37. | | | | |
| Bromochloromethane | ND | ug/kg | 18. | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 18. | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 15. | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 18. | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 3.7 | | | | |
| Bromobenzene | ND | ug/kg | 18. | | | | |
| n-Butylbenzene | 130 | ug/kg | 3.7 | | | | |
| sec-Butylbenzene | 57 | ug/kg | 3.7 | | | | |
| tert-Butylbenzene | ND | ug/kg | 18. | | | | |
| o-Chlorotoluene | ND | ug/kg | 18. | | | | |
| p-Chlorotoluene | ND | ug/kg | 18. | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 18. | | | | |
| Hexachlorobutadiene | ND | ug/kg | 18. | | | | |
| Isopropylbenzene | 3.9 | ug/kg | 3.7 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813447-11
PWG-DW-2008-38(7-7.5')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|-------------------|----|
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0915 20:21 PD | |
| p-Isopropyltoluene | 110 | ug/kg | 3.7 | | | |
| Naphthalene | 180 | ug/kg | 18 | | | |
| Acrylonitrile | ND | ug/kg | 37. | | | |
| n-Propylbenzene | ND | ug/kg | 3.7 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 18. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 18. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 18. | | | |
| 1,2,4-Trimethylbenzene | 53 | ug/kg | 18 | | | |
| 1,4-Diethylbenzene | 310 | ug/kg | 15 | | | |
| 4-Ethyltoluene | ND | ug/kg | 15. | | | |
| 1,2,4,5-Tetramethylbenzene | 150 | ug/kg | 15 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 106 | % | 70-130 | | | |
| Toluene-d8 | 123 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 203 | % | 70-130 | | | |
| Dibromofluoromethane | 107 | % | 70-130 | | | |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0916 15:50 PD | |
| Methylene chloride | ND | ug/kg | 150 | | | |
| 1,1-Dichloroethane | ND | ug/kg | 22. | | | |
| Chloroform | ND | ug/kg | 22. | | | |
| Carbon tetrachloride | ND | ug/kg | 15. | | | |
| 1,2-Dichloropropane | ND | ug/kg | 51. | | | |
| Dibromochloromethane | ND | ug/kg | 15. | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 22. | | | |
| Tetrachloroethene | ND | ug/kg | 15. | | | |
| Chlorobenzene | ND | ug/kg | 15. | | | |
| Trichlorofluoromethane | ND | ug/kg | 74. | | | |
| 1,2-Dichloroethane | ND | ug/kg | 15. | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 15. | | | |
| Bromodichloromethane | ND | ug/kg | 15. | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 15. | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 15. | | | |
| 1,1-Dichloropropene | ND | ug/kg | 74. | | | |
| Bromoform | ND | ug/kg | 59. | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 15. | | | |
| Benzene | ND | ug/kg | 15. | | | |
| Toluene | 42 | ug/kg | 22 | | | |
| Ethylbenzene | ND | ug/kg | 15. | | | |
| Chloromethane | ND | ug/kg | 74. | | | |
| Bromomethane | ND | ug/kg | 29. | | | |
| Vinyl chloride | ND | ug/kg | 29. | | | |
| Chloroethane | ND | ug/kg | 29. | | | |
| 1,1-Dichloroethene | ND | ug/kg | 15. | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 22. | | | |
| Trichloroethene | ND | ug/kg | 15. | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 74. | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 74. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813447-11
PWG-DW-2008-38(7-7.5')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|--------------------------|----|
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0916 15:50 PD | |
| 1,4-Dichlorobenzene | ND | ug/kg | 74. | | | |
| Methyl tert butyl ether | ND | ug/kg | 29. | | | |
| p/m-Xylene | ND | ug/kg | 29. | | | |
| o-Xylene | ND | ug/kg | 29. | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 15. | | | |
| Dibromomethane | ND | ug/kg | 150 | | | |
| Styrene | ND | ug/kg | 29. | | | |
| Dichlorodifluoromethane | ND | ug/kg | 150 | | | |
| Acetone | 320 | ug/kg | 150 | | | |
| Carbon disulfide | ND | ug/kg | 150 | | | |
| 2-Butanone | ND | ug/kg | 150 | | | |
| Vinyl acetate | ND | ug/kg | 150 | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 150 | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 150 | | | |
| 2-Hexanone | ND | ug/kg | 150 | | | |
| Bromochloromethane | ND | ug/kg | 74. | | | |
| 2,2-Dichloropropane | ND | ug/kg | 74. | | | |
| 1,2-Dibromoethane | ND | ug/kg | 59. | | | |
| 1,3-Dichloropropane | ND | ug/kg | 74. | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 15. | | | |
| Bromobenzene | ND | ug/kg | 74. | | | |
| n-Butylbenzene | 140 | ug/kg | 15 | | | |
| sec-Butylbenzene | 57 | ug/kg | 15 | | | |
| tert-Butylbenzene | ND | ug/kg | 74. | | | |
| o-Chlorotoluene | ND | ug/kg | 74. | | | |
| p-Chlorotoluene | ND | ug/kg | 74. | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 74. | | | |
| Hexachlorobutadiene | ND | ug/kg | 74. | | | |
| Isopropylbenzene | ND | ug/kg | 15. | | | |
| p-Isopropyltoluene | 110 | ug/kg | 15 | | | |
| Naphthalene | 370 | ug/kg | 74 | | | |
| Acrylonitrile | ND | ug/kg | 150 | | | |
| n-Propylbenzene | ND | ug/kg | 15. | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 74. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 74. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 74. | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 74. | | | |
| 1,4-Diethylbenzene | 340 | ug/kg | 59 | | | |
| 4-Ethyltoluene | ND | ug/kg | 59. | | | |
| 1,2,4,5-Tetramethylbenzene | 230 | ug/kg | 59 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 121 | % | 70-130 | | | |
| Toluene-d8 | 131 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 143 | % | 70-130 | | | |
| Dibromofluoromethane | 123 | % | 70-130 | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 0916 19:00 0918 15:24 PS | |
| Acenaphthene | ND | ug/kg | 7400 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813447-11
PWG-DW-2008-38(7-7.5')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---|--------|-------|-------|------------|------------|------------|----|
| | | | | | PREP | ANAL | |
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 8270C | 0916 19:00 | 0918 15:24 | PS |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 7400 | | | | |
| Hexachlorobenzene | ND | ug/kg | 7400 | | | | |
| Bis(2-chloroethyl)ether | ND | ug/kg | 7400 | | | | |
| 2-Chloronaphthalene | ND | ug/kg | 8800 | | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 7400 | | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 7400 | | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 7400 | | | | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 15000 | | | | |
| 2,4-Dinitrotoluene | ND | ug/kg | 7400 | | | | |
| 2,6-Dinitrotoluene | ND | ug/kg | 7400 | | | | |
| Fluoranthene | ND | ug/kg | 7400 | | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/kg | 7400 | | | | |
| 4-Bromophenyl phenyl ether | ND | ug/kg | 7400 | | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/kg | 7400 | | | | |
| Bis(2-chloroethoxy)methane | ND | ug/kg | 7400 | | | | |
| Hexachlorobutadiene | ND | ug/kg | 15000 | | | | |
| Hexachlorocyclopentadiene | ND | ug/kg | 15000 | | | | |
| Hexachloroethane | ND | ug/kg | 7400 | | | | |
| Isophorone | ND | ug/kg | 7400 | | | | |
| Naphthalene | ND | ug/kg | 7400 | | | | |
| Nitrobenzene | ND | ug/kg | 7400 | | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/kg | 22000 | | | | |
| n-Nitrosodi-n-propylamine | ND | ug/kg | 7400 | | | | |
| Bis(2-Ethylhexyl)phthalate | ND | ug/kg | 15000 | | | | |
| Butyl benzyl phthalate | ND | ug/kg | 7400 | | | | |
| Di-n-butylphthalate | ND | ug/kg | 7400 | | | | |
| Di-n-octylphthalate | ND | ug/kg | 7400 | | | | |
| Diethyl phthalate | ND | ug/kg | 7400 | | | | |
| Dimethyl phthalate | ND | ug/kg | 7400 | | | | |
| Benzo(a)anthracene | ND | ug/kg | 7400 | | | | |
| Benzo(a)pyrene | ND | ug/kg | 7400 | | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 7400 | | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 7400 | | | | |
| Chrysene | ND | ug/kg | 7400 | | | | |
| Acenaphthylene | ND | ug/kg | 7400 | | | | |
| Anthracene | ND | ug/kg | 7400 | | | | |
| Benzo(ghi)perylene | ND | ug/kg | 7400 | | | | |
| Fluorene | ND | ug/kg | 7400 | | | | |
| Phenanthrene | ND | ug/kg | 7400 | | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 7400 | | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 7400 | | | | |
| Pyrene | ND | ug/kg | 7400 | | | | |
| Biphenyl | ND | ug/kg | 7400 | | | | |
| 4-Chloroaniline | ND | ug/kg | 7400 | | | | |
| 2-Nitroaniline | ND | ug/kg | 7400 | | | | |
| 3-Nitroaniline | ND | ug/kg | 7400 | | | | |
| 4-Nitroaniline | ND | ug/kg | 10000 | | | | |
| Dibenzofuran | ND | ug/kg | 7400 | | | | |
| 2-Methylnaphthalene | ND | ug/kg | 7400 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813447-11
PWG-DW-2008-38(7-7.5')

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---|----------|-------|-------------|-----|--------|------------|------------|----|
| | | | | | | PREP | ANAL | |
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 | 8270C | 0916 19:00 | 0918 15:24 | PS |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/kg | 29000 | | | | | |
| Acetophenone | ND | ug/kg | 29000 | | | | | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 7400 | | | | | |
| P-Chloro-M-Cresol | ND | ug/kg | 7400 | | | | | |
| 2-Chlorophenol | ND | ug/kg | 8800 | | | | | |
| 2,4-Dichlorophenol | ND | ug/kg | 15000 | | | | | |
| 2,4-Dimethylphenol | ND | ug/kg | 7400 | | | | | |
| 2-Nitrophenol | ND | ug/kg | 29000 | | | | | |
| 4-Nitrophenol | ND | ug/kg | 15000 | | | | | |
| 2,4-Dinitrophenol | ND | ug/kg | 29000 | | | | | |
| 4,6-Dinitro-o-cresol | ND | ug/kg | 29000 | | | | | |
| Pentachlorophenol | ND | ug/kg | 29000 | | | | | |
| Phenol | ND | ug/kg | 10000 | | | | | |
| 2-Methylphenol | ND | ug/kg | 8800 | | | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/kg | 8800 | | | | | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 7400 | | | | | |
| Benzoic Acid | ND | ug/kg | 74000 | | | | | |
| Benzyl Alcohol | ND | ug/kg | 15000 | | | | | |
| Carbazole | ND | ug/kg | 7400 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 2-Fluorophenol | 97.0 | % | 25-120 | | | | | |
| Phenol-d6 | 101 | % | 10-120 | | | | | |
| Nitrobenzene-d5 | 91.0 | % | 23-120 | | | | | |
| 2-Fluorobiphenyl | 91.0 | % | 30-120 | | | | | |
| 2,4,6-Tribromophenol | 118 | % | 19-120 | | | | | |
| 4-Terphenyl-d14 | 77.0 | % | 18-120 | | | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 | 8270C | 0912 21:30 | 0916 17:46 | AK |
| Acenaphthene | ND | ug/kg | 2000 | | | | | |
| 2-Chloronaphthalene | ND | ug/kg | 2000 | | | | | |
| Fluoranthene | 5700 | ug/kg | 2000 | | | | | |
| Hexachlorobutadiene | ND | ug/kg | 4900 | | | | | |
| Naphthalene | ND | ug/kg | 2000 | | | | | |
| Benzo(a)anthracene | ND | ug/kg | 2000 | | | | | |
| Benzo(a)pyrene | 4200 | ug/kg | 2000 | | | | | |
| Benzo(b)fluoranthene | 3900 | ug/kg | 2000 | | | | | |
| Benzo(k)fluoranthene | 4000 | ug/kg | 2000 | | | | | |
| Chrysene | 2000 | ug/kg | 2000 | | | | | |
| Acenaphthylene | ND | ug/kg | 2000 | | | | | |
| Anthracene | ND | ug/kg | 2000 | | | | | |
| Benzo(ghi)perylene | 4500 | ug/kg | 2000 | | | | | |
| Fluorene | ND | ug/kg | 2000 | | | | | |
| Phenanthrene | 2600 | ug/kg | 2000 | | | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 2000 | | | | | |
| Indeno(1,2,3-cd)Pyrene | 4800 | ug/kg | 2000 | | | | | |
| Pyrene | 5800 | ug/kg | 2000 | | | | | |
| 2-Methylnaphthalene | 2400 | ug/kg | 2000 | | | | | |
| Pentachlorophenol | ND | ug/kg | 7800 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813447-11
PWG-DW-2008-38(7-7.5')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C-SIM cont'd | | | | 1 8270C | 0912 21:30 0916 17:46 AK | |
| Hexachlorobenzene | ND | ug/kg | 7800 | | | |
| Hexachloroethane | ND | ug/kg | 7800 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | ND | % | 25-120 | | | |
| Phenol-d6 | ND | % | 10-120 | | | |
| Nitrobenzene-d5 | ND | % | 23-120 | | | |
| 2-Fluorobiphenyl | ND | % | 30-120 | | | |
| 2,4,6-Tribromophenol | ND | % | 19-120 | | | |
| 4-Terphenyl-d14 | ND | % | 18-120 | | | |
| Petroleum Hydrocarbon Quantitation by GC-FID | | | | 1 8015B(M) | 0916 01:30 0918 10:44 JL | |
| TPH | 10000000 | ug/kg | 2450000 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| o-Terphenyl | 93.0 | % | 40-140 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0813447-12 | Date Collected: 10-SEP-2008 11:00 |
| PWG-DW-2008-39(8.5-9') | Date Received : 11-SEP-2008 |
| Sample Matrix: SOIL | Date Reported : 22-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 3-Amber,1-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-----------------------|----|
| Solids, Total | 70 | % | 0.10 | 30 2540G | 0913 15:45 | NM |
| Total Metals | | | | | | |
| Aluminum, Total | 2900 | mg/kg | 6.5 | 1 6010B | 0912 18:00 0918 13:50 | AI |
| Antimony, Total | ND | mg/kg | 3.3 | 1 6010B | 0912 18:00 0918 13:50 | AI |
| Arsenic, Total | 0.91 | mg/kg | 0.65 | 1 6010B | 0912 18:00 0919 12:32 | AI |
| Barium, Total | 24 | mg/kg | 0.65 | 1 6010B | 0912 18:00 0918 13:50 | AI |
| Beryllium, Total | ND | mg/kg | 0.33 | 1 6010B | 0912 18:00 0918 13:50 | AI |
| Cadmium, Total | 1.4 | mg/kg | 0.65 | 1 6010B | 0912 18:00 0918 13:50 | AI |
| Calcium, Total | 16000 | mg/kg | 6.5 | 1 6010B | 0912 18:00 0918 13:50 | AI |
| Chromium, Total | 30 | mg/kg | 0.65 | 1 6010B | 0912 18:00 0918 13:50 | AI |
| Cobalt, Total | 2.3 | mg/kg | 1.3 | 1 6010B | 0912 18:00 0918 13:50 | AI |
| Copper, Total | 39 | mg/kg | 0.65 | 1 6010B | 0912 18:00 0918 13:50 | AI |
| Iron, Total | 4600 | mg/kg | 3.3 | 1 6010B | 0912 18:00 0918 13:50 | AI |
| Lead, Total | 170 | mg/kg | 3.3 | 1 6010B | 0912 18:00 0918 13:50 | AI |
| Magnesium, Total | 10000 | mg/kg | 6.5 | 1 6010B | 0912 18:00 0918 13:50 | AI |
| Manganese, Total | 49 | mg/kg | 0.65 | 1 6010B | 0912 18:00 0919 12:32 | AI |
| Mercury, Total | 0.45 | mg/kg | 0.11 | 1 7471A | 0912 20:30 0914 14:36 | HG |
| Nickel, Total | 11 | mg/kg | 1.6 | 1 6010B | 0912 18:00 0918 13:50 | AI |
| Potassium, Total | 340 | mg/kg | 160 | 1 6010B | 0912 18:00 0918 13:50 | AI |
| Selenium, Total | ND | mg/kg | 1.3 | 1 6010B | 0912 18:00 0919 12:32 | AI |
| Silver, Total | 0.70 | mg/kg | 0.65 | 1 6010B | 0912 18:00 0918 13:50 | AI |
| Sodium, Total | ND | mg/kg | 130 | 1 6010B | 0912 18:00 0918 13:50 | AI |
| Thallium, Total | ND | mg/kg | 1.3 | 1 6010B | 0912 18:00 0918 13:50 | AI |
| Vanadium, Total | 26 | mg/kg | 0.65 | 1 6010B | 0912 18:00 0918 13:50 | AI |
| Zinc, Total | 390 | mg/kg | 3.3 | 1 6010B | 0912 18:00 0918 13:50 | AI |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0915 20:57 | PD |
| Methylene chloride | ND | ug/kg | 36. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 5.4 | | | |
| Chloroform | ND | ug/kg | 5.4 | | | |
| Carbon tetrachloride | ND | ug/kg | 3.6 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 12. | | | |
| Dibromochloromethane | ND | ug/kg | 3.6 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 5.4 | | | |
| Tetrachloroethene | ND | ug/kg | 3.6 | | | |
| Chlorobenzene | ND | ug/kg | 3.6 | | | |
| Trichlorofluoromethane | ND | ug/kg | 18. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813447-12
PWG-DW-2008-39(8.5-9')

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|--------|-------|-----|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0915 20:57 PD | | |
| 1,2-Dichloroethane | ND | ug/kg | 3.6 | | | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 3.6 | | | | | |
| Bromodichloromethane | ND | ug/kg | 3.6 | | | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 3.6 | | | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 3.6 | | | | | |
| 1,1-Dichloropropene | ND | ug/kg | 18. | | | | | |
| Bromoform | ND | ug/kg | 14. | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 3.6 | | | | | |
| Benzene | ND | ug/kg | 3.6 | | | | | |
| Toluene | ND | ug/kg | 5.4 | | | | | |
| Ethylbenzene | 5.0 | ug/kg | 3.6 | | | | | |
| Chloromethane | ND | ug/kg | 18. | | | | | |
| Bromomethane | ND | ug/kg | 7.1 | | | | | |
| Vinyl chloride | ND | ug/kg | 7.1 | | | | | |
| Chloroethane | ND | ug/kg | 7.1 | | | | | |
| 1,1-Dichloroethene | ND | ug/kg | 3.6 | | | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 5.4 | | | | | |
| Trichloroethene | ND | ug/kg | 3.6 | | | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 18. | | | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 18. | | | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 18. | | | | | |
| Methyl tert butyl ether | ND | ug/kg | 7.1 | | | | | |
| p/m-Xylene | ND | ug/kg | 7.1 | | | | | |
| o-Xylene | ND | ug/kg | 7.1 | | | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 3.6 | | | | | |
| Dibromomethane | ND | ug/kg | 36. | | | | | |
| Styrene | ND | ug/kg | 7.1 | | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 36. | | | | | |
| Acetone | 74 | ug/kg | 36 | | | | | |
| Carbon disulfide | ND | ug/kg | 36. | | | | | |
| 2-Butanone | ND | ug/kg | 36. | | | | | |
| Vinyl acetate | ND | ug/kg | 36. | | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 36. | | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 36. | | | | | |
| 2-Hexanone | ND | ug/kg | 36. | | | | | |
| Bromochloromethane | ND | ug/kg | 18. | | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 18. | | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 14. | | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 18. | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 3.6 | | | | | |
| Bromobenzene | ND | ug/kg | 18. | | | | | |
| n-Butylbenzene | ND | ug/kg | 3.6 | | | | | |
| sec-Butylbenzene | ND | ug/kg | 3.6 | | | | | |
| tert-Butylbenzene | ND | ug/kg | 18. | | | | | |
| o-Chlorotoluene | ND | ug/kg | 18. | | | | | |
| p-Chlorotoluene | ND | ug/kg | 18. | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 18. | | | | | |
| Hexachlorobutadiene | ND | ug/kg | 18. | | | | | |
| Isopropylbenzene | ND | ug/kg | 3.6 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813447-12
PWG-DW-2008-39(8.5-9')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|--------------------------|----|
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0915 20:57 PD | |
| p-Isopropyltoluene | ND | ug/kg | 3.6 | | | |
| Naphthalene | ND | ug/kg | 18. | | | |
| Acrylonitrile | ND | ug/kg | 36. | | | |
| n-Propylbenzene | ND | ug/kg | 3.6 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 18. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 18. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 18. | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 18. | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 14. | | | |
| 4-Ethyltoluene | ND | ug/kg | 14. | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 14. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 90.0 | % | 70-130 | | | |
| Toluene-d8 | 100 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 120 | % | 70-130 | | | |
| Dibromofluoromethane | 91.0 | % | 70-130 | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 0916 19:00 0918 15:47 PS | |
| Acenaphthene | ND | ug/kg | 7100 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 7100 | | | |
| Hexachlorobenzene | ND | ug/kg | 7100 | | | |
| Bis(2-chloroethyl)ether | ND | ug/kg | 7100 | | | |
| 2-Chloronaphthalene | ND | ug/kg | 8600 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 7100 | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 7100 | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 7100 | | | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 14000 | | | |
| 2,4-Dinitrotoluene | ND | ug/kg | 7100 | | | |
| 2,6-Dinitrotoluene | ND | ug/kg | 7100 | | | |
| Fluoranthene | ND | ug/kg | 7100 | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/kg | 7100 | | | |
| 4-Bromophenyl phenyl ether | ND | ug/kg | 7100 | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/kg | 7100 | | | |
| Bis(2-chloroethoxy)methane | ND | ug/kg | 7100 | | | |
| Hexachlorobutadiene | ND | ug/kg | 14000 | | | |
| Hexachlorocyclopentadiene | ND | ug/kg | 14000 | | | |
| Hexachloroethane | ND | ug/kg | 7100 | | | |
| Isophorone | ND | ug/kg | 7100 | | | |
| Naphthalene | ND | ug/kg | 7100 | | | |
| Nitrobenzene | ND | ug/kg | 7100 | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/kg | 21000 | | | |
| n-Nitrosodi-n-propylamine | ND | ug/kg | 7100 | | | |
| Bis(2-Ethylhexyl)phthalate | 200000 | ug/kg | 14000 | | | |
| Butyl benzyl phthalate | ND | ug/kg | 7100 | | | |
| Di-n-butylphthalate | ND | ug/kg | 7100 | | | |
| Di-n-octylphthalate | ND | ug/kg | 7100 | | | |
| Diethyl phthalate | ND | ug/kg | 7100 | | | |
| Dimethyl phthalate | ND | ug/kg | 7100 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813447-12
PWG-DW-2008-39(8.5-9')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 8270C | 0916 19:00 0918 15:47 PS | |
| Benzo(a)anthracene | ND | ug/kg | 7100 | | | |
| Benzo(a)pyrene | ND | ug/kg | 7100 | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 7100 | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 7100 | | | |
| Chrysene | ND | ug/kg | 7100 | | | |
| Acenaphthylene | ND | ug/kg | 7100 | | | |
| Anthracene | ND | ug/kg | 7100 | | | |
| Benzo(ghi)perylene | ND | ug/kg | 7100 | | | |
| Fluorene | ND | ug/kg | 7100 | | | |
| Phenanthrene | ND | ug/kg | 7100 | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 7100 | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 7100 | | | |
| Pyrene | ND | ug/kg | 7100 | | | |
| Biphenyl | ND | ug/kg | 7100 | | | |
| 4-Chloroaniline | ND | ug/kg | 7100 | | | |
| 2-Nitroaniline | ND | ug/kg | 7100 | | | |
| 3-Nitroaniline | ND | ug/kg | 7100 | | | |
| 4-Nitroaniline | ND | ug/kg | 10000 | | | |
| Dibenzofuran | ND | ug/kg | 7100 | | | |
| 2-Methylnaphthalene | ND | ug/kg | 7100 | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/kg | 28000 | | | |
| Acetophenone | ND | ug/kg | 28000 | | | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 7100 | | | |
| p-Chloro-M-Cresol | ND | ug/kg | 7100 | | | |
| 2-Chlorophenol | ND | ug/kg | 8600 | | | |
| 2,4-Dichlorophenol | ND | ug/kg | 14000 | | | |
| 2,4-Dimethylphenol | ND | ug/kg | 7100 | | | |
| 2-Nitrophenol | ND | ug/kg | 28000 | | | |
| 4-Nitrophenol | ND | ug/kg | 14000 | | | |
| 2,4-Dinitrophenol | ND | ug/kg | 28000 | | | |
| 4,6-Dinitro-o-cresol | ND | ug/kg | 28000 | | | |
| Pentachlorophenol | ND | ug/kg | 28000 | | | |
| Phenol | ND | ug/kg | 10000 | | | |
| 2-Methylphenol | ND | ug/kg | 8600 | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/kg | 8600 | | | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 7100 | | | |
| Benzoic Acid | ND | ug/kg | 71000 | | | |
| Benzyl Alcohol | ND | ug/kg | 14000 | | | |
| Carbazole | ND | ug/kg | 7100 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 109 | % | 25-120 | | | |
| Phenol-d6 | 100 | % | 10-120 | | | |
| Nitrobenzene-d5 | 96.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 93.0 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 111 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 76.0 | % | 18-120 | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 8270C | 0912 21:30 0916 18:32 AK | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813447-12
PWG-DW-2008-39(8.5-9')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C-SIM cont'd | | | | 1 8270C | 0912 21:30 0916 18:32 AK | |
| Acenaphthene | ND | ug/kg | 1900 | | | |
| 2-Chloronaphthalene | ND | ug/kg | 1900 | | | |
| Fluoranthene | 4300 | ug/kg | 1900 | | | |
| Hexachlorobutadiene | ND | ug/kg | 4800 | | | |
| Naphthalene | ND | ug/kg | 1900 | | | |
| Benzo(a)anthracene | ND | ug/kg | 1900 | | | |
| Benzo(a)pyrene | ND | ug/kg | 1900 | | | |
| Benzo(b)fluoranthene | 3300 | ug/kg | 1900 | | | |
| Benzo(k)fluoranthene | 3300 | ug/kg | 1900 | | | |
| Chrysene | ND | ug/kg | 1900 | | | |
| Acenaphthylene | ND | ug/kg | 1900 | | | |
| Anthracene | ND | ug/kg | 1900 | | | |
| Benzo(ghi)perylene | ND | ug/kg | 1900 | | | |
| Fluorene | ND | ug/kg | 1900 | | | |
| Phenanthrene | ND | ug/kg | 1900 | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 1900 | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 1900 | | | |
| Pyrene | 4500 | ug/kg | 1900 | | | |
| 2-Methylnaphthalene | ND | ug/kg | 1900 | | | |
| Pentachlorophenol | ND | ug/kg | 7600 | | | |
| Hexachlorobenzene | ND | ug/kg | 7600 | | | |
| Hexachloroethane | ND | ug/kg | 7600 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | ND | % | 25-120 | | | |
| Phenol-d6 | ND | % | 10-120 | | | |
| Nitrobenzene-d5 | ND | % | 23-120 | | | |
| 2-Fluorobiphenyl | ND | % | 30-120 | | | |
| 2,4,6-Tribromophenol | ND | % | 19-120 | | | |
| 4-Terphenyl-d14 | ND | % | 18-120 | | | |
| Petroleum Hydrocarbon Quantitation by GC-FID | | | | 1 8015B(M) | 0916 01:30 0918 03:10 JL | |
| TPH | 3270000 | ug/kg | 476000 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| o-Terphenyl | 95.0 | % | 40-140 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0813447-13 | Date Collected: 10-SEP-2008 11:10 |
| PWG-DW-2008-40(6-6.5') | Date Received : 11-SEP-2008 |
| Sample Matrix: SOIL | Date Reported : 22-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 3-Amber,1-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-----------------------|----|
| Solids, Total | 91 | % | 0.10 | 30 2540G | 0913 15:45 | NM |
| Total Metals | | | | | | |
| Aluminum, Total | 2400 | mg/kg | 5.1 | 1 6010B | 0912 18:00 0918 12:35 | AI |
| Antimony, Total | ND | mg/kg | 2.5 | 1 6010B | 0912 18:00 0918 12:35 | AI |
| Arsenic, Total | 0.51 | mg/kg | 0.51 | 1 6010B | 0912 18:00 0919 11:21 | AI |
| Barium, Total | 15 | mg/kg | 0.51 | 1 6010B | 0912 18:00 0918 12:35 | AI |
| Beryllium, Total | ND | mg/kg | 0.25 | 1 6010B | 0912 18:00 0918 12:35 | AI |
| Cadmium, Total | 0.82 | mg/kg | 0.51 | 1 6010B | 0912 18:00 0918 12:35 | AI |
| Calcium, Total | 16000 | mg/kg | 5.1 | 1 6010B | 0912 18:00 0918 12:35 | AI |
| Chromium, Total | 13 | mg/kg | 0.51 | 1 6010B | 0912 18:00 0918 12:35 | AI |
| Cobalt, Total | 2.0 | mg/kg | 1.0 | 1 6010B | 0912 18:00 0918 12:35 | AI |
| Copper, Total | 12 | mg/kg | 0.51 | 1 6010B | 0912 18:00 0918 12:35 | AI |
| Iron, Total | 5300 | mg/kg | 2.5 | 1 6010B | 0912 18:00 0918 12:35 | AI |
| Lead, Total | 90 | mg/kg | 2.5 | 1 6010B | 0912 18:00 0918 12:35 | AI |
| Magnesium, Total | 10000 | mg/kg | 5.1 | 1 6010B | 0912 18:00 0918 12:35 | AI |
| Manganese, Total | 85 | mg/kg | 0.51 | 1 6010B | 0912 18:00 0919 11:21 | AI |
| Mercury, Total | 1.0 | mg/kg | 0.09 | 1 7471A | 0912 20:30 0914 14:38 | HG |
| Nickel, Total | 7.8 | mg/kg | 1.3 | 1 6010B | 0912 18:00 0918 12:35 | AI |
| Potassium, Total | 260 | mg/kg | 130 | 1 6010B | 0912 18:00 0918 12:35 | AI |
| Selenium, Total | ND | mg/kg | 1.0 | 1 6010B | 0912 18:00 0919 11:21 | AI |
| Silver, Total | 0.76 | mg/kg | 0.51 | 1 6010B | 0912 18:00 0918 12:35 | AI |
| Sodium, Total | ND | mg/kg | 100 | 1 6010B | 0912 18:00 0918 12:35 | AI |
| Thallium, Total | ND | mg/kg | 1.0 | 1 6010B | 0912 18:00 0918 12:35 | AI |
| Vanadium, Total | 13 | mg/kg | 0.51 | 1 6010B | 0912 18:00 0918 12:35 | AI |
| Zinc, Total | 160 | mg/kg | 2.5 | 1 6010B | 0912 18:00 0918 12:35 | AI |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0915 21:34 | PD |
| Methylene chloride | ND | ug/kg | 27. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 4.1 | | | |
| Chloroform | ND | ug/kg | 4.1 | | | |
| Carbon tetrachloride | ND | ug/kg | 2.7 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 9.6 | | | |
| Dibromochloromethane | ND | ug/kg | 2.7 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 4.1 | | | |
| Tetrachloroethene | ND | ug/kg | 2.7 | | | |
| Chlorobenzene | ND | ug/kg | 2.7 | | | |
| Trichlorofluoromethane | ND | ug/kg | 14. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813447-13
PWG-DW-2008-40(6-6.5')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---------------------------------------|--------|-------|-----|------------|-------|---------------|----|
| | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0915 21:34 PD | |
| 1,2-Dichloroethane | ND | ug/kg | 2.7 | | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 2.7 | | | | |
| Bromodichloromethane | ND | ug/kg | 2.7 | | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 2.7 | | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 2.7 | | | | |
| 1,1-Dichloropropene | ND | ug/kg | 14. | | | | |
| Bromoform | ND | ug/kg | 11. | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 2.7 | | | | |
| Benzene | ND | ug/kg | 2.7 | | | | |
| Toluene | ND | ug/kg | 4.1 | | | | |
| Ethylbenzene | ND | ug/kg | 2.7 | | | | |
| Chloromethane | ND | ug/kg | 14. | | | | |
| Bromomethane | ND | ug/kg | 5.5 | | | | |
| Vinyl chloride | ND | ug/kg | 5.5 | | | | |
| Chloroethane | ND | ug/kg | 5.5 | | | | |
| 1,1-Dichloroethene | ND | ug/kg | 2.7 | | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 4.1 | | | | |
| Trichloroethene | ND | ug/kg | 2.7 | | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 14. | | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 14. | | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 14. | | | | |
| Methyl tert butyl ether | ND | ug/kg | 5.5 | | | | |
| p/m-Xylene | ND | ug/kg | 5.5 | | | | |
| o-Xylene | ND | ug/kg | 5.5 | | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 2.7 | | | | |
| Dibromomethane | ND | ug/kg | 27. | | | | |
| Styrene | ND | ug/kg | 5.5 | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 27. | | | | |
| Acetone | ND | ug/kg | 27. | | | | |
| Carbon disulfide | ND | ug/kg | 27. | | | | |
| 2-Butanone | ND | ug/kg | 27. | | | | |
| Vinyl acetate | ND | ug/kg | 27. | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 27. | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 27. | | | | |
| 2-Hexanone | ND | ug/kg | 27. | | | | |
| Bromochloromethane | ND | ug/kg | 14. | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 14. | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 11. | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 14. | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 2.7 | | | | |
| Bromobenzene | ND | ug/kg | 14. | | | | |
| n-Butylbenzene | ND | ug/kg | 2.7 | | | | |
| sec-Butylbenzene | ND | ug/kg | 2.7 | | | | |
| tert-Butylbenzene | ND | ug/kg | 14. | | | | |
| o-Chlorotoluene | ND | ug/kg | 14. | | | | |
| p-Chlorotoluene | ND | ug/kg | 14. | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 14. | | | | |
| Hexachlorobutadiene | ND | ug/kg | 14. | | | | |
| Isopropylbenzene | ND | ug/kg | 2.7 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813447-13
PWG-DW-2008-40(6-6.5')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|--------------------------|----|
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0915 21:34 PD | |
| p-Isopropyltoluene | ND | ug/kg | 2.7 | | | |
| Naphthalene | ND | ug/kg | 14. | | | |
| Acrylonitrile | ND | ug/kg | 27. | | | |
| n-Propylbenzene | ND | ug/kg | 2.7 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 14. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 14. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 14. | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 14. | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 11. | | | |
| 4-Ethyltoluene | ND | ug/kg | 11. | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 11. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 92.0 | % | 70-130 | | | |
| Toluene-d8 | 102 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 107 | % | 70-130 | | | |
| Dibromofluoromethane | 92.0 | % | 70-130 | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 0916 19:00 0918 16:10 PS | |
| Acenaphthene | ND | ug/kg | 1800 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 1800 | | | |
| Hexachlorobenzene | ND | ug/kg | 1800 | | | |
| Bis(2-chloroethyl)ether | ND | ug/kg | 1800 | | | |
| 2-Chloronaphthalene | ND | ug/kg | 2200 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 1800 | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 1800 | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 1800 | | | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 3700 | | | |
| 2,4-Dinitrotoluene | ND | ug/kg | 1800 | | | |
| 2,6-Dinitrotoluene | ND | ug/kg | 1800 | | | |
| Fluoranthene | ND | ug/kg | 1800 | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/kg | 1800 | | | |
| 4-Bromophenyl phenyl ether | ND | ug/kg | 1800 | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/kg | 1800 | | | |
| Bis(2-chloroethoxy)methane | ND | ug/kg | 1800 | | | |
| Hexachlorobutadiene | ND | ug/kg | 3700 | | | |
| Hexachlorocyclopentadiene | ND | ug/kg | 3700 | | | |
| Hexachloroethane | ND | ug/kg | 1800 | | | |
| Isophorone | ND | ug/kg | 1800 | | | |
| Naphthalene | ND | ug/kg | 1800 | | | |
| Nitrobenzene | ND | ug/kg | 1800 | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/kg | 5500 | | | |
| n-Nitrosodi-n-propylamine | ND | ug/kg | 1800 | | | |
| Bis(2-Ethylhexyl)phthalate | ND | ug/kg | 3700 | | | |
| Butyl benzyl phthalate | ND | ug/kg | 1800 | | | |
| Di-n-butylphthalate | ND | ug/kg | 1800 | | | |
| Di-n-octylphthalate | ND | ug/kg | 1800 | | | |
| Diethyl phthalate | ND | ug/kg | 1800 | | | |
| Dimethyl phthalate | ND | ug/kg | 1800 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813447-13
PWG-DW-2008-40(6-6.5')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 8270C | 0916 19:00 0918 16:10 PS | |
| Benzo(a)anthracene | ND | ug/kg | 1800 | | | |
| Benzo(a)pyrene | ND | ug/kg | 1800 | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 1800 | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 1800 | | | |
| Chrysene | ND | ug/kg | 1800 | | | |
| Acenaphthylene | ND | ug/kg | 1800 | | | |
| Anthracene | ND | ug/kg | 1800 | | | |
| Benzo(ghi)perylene | ND | ug/kg | 1800 | | | |
| Fluorene | ND | ug/kg | 1800 | | | |
| Phenanthrene | ND | ug/kg | 1800 | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 1800 | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 1800 | | | |
| Pyrene | ND | ug/kg | 1800 | | | |
| Biphenyl | ND | ug/kg | 1800 | | | |
| 4-Chloroaniline | ND | ug/kg | 1800 | | | |
| 2-Nitroaniline | ND | ug/kg | 1800 | | | |
| 3-Nitroaniline | ND | ug/kg | 1800 | | | |
| 4-Nitroaniline | ND | ug/kg | 2600 | | | |
| Dibenzofuran | ND | ug/kg | 1800 | | | |
| 2-Methylnaphthalene | ND | ug/kg | 1800 | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/kg | 7300 | | | |
| Acetophenone | ND | ug/kg | 7300 | | | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 1800 | | | |
| p-Chloro-M-Cresol | ND | ug/kg | 1800 | | | |
| 2-Chlorophenol | ND | ug/kg | 2200 | | | |
| 2,4-Dichlorophenol | ND | ug/kg | 3700 | | | |
| 2,4-Dimethylphenol | ND | ug/kg | 1800 | | | |
| 2-Nitrophenol | ND | ug/kg | 7300 | | | |
| 4-Nitrophenol | ND | ug/kg | 3700 | | | |
| 2,4-Dinitrophenol | ND | ug/kg | 7300 | | | |
| 4,6-Dinitro-o-cresol | ND | ug/kg | 7300 | | | |
| Pentachlorophenol | ND | ug/kg | 7300 | | | |
| Phenol | ND | ug/kg | 2600 | | | |
| 2-Methylphenol | ND | ug/kg | 2200 | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/kg | 2200 | | | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 1800 | | | |
| Benzoic Acid | ND | ug/kg | 18000 | | | |
| Benzyl Alcohol | ND | ug/kg | 3700 | | | |
| Carbazole | ND | ug/kg | 1800 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 109 | % | 25-120 | | | |
| Phenol-d6 | 112 | % | 10-120 | | | |
| Nitrobenzene-d5 | 98.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 95.0 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 119 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 80.0 | % | 18-120 | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 8270C | 0912 21:30 0916 19:20 AK | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813447-13
PWG-DW-2008-40(6-6.5')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---|----------|-------|-------------|------------|----------|------------|---------------|
| | | | | | PREP | ANAL | |
| Semivolatile Organics by EPA 8270C-SIM cont'd | | | | 1 | 8270C | 0912 21:30 | 0916 19:20 AK |
| Acenaphthene | ND | ug/kg | 1500 | | | | |
| 2-Chloronaphthalene | ND | ug/kg | 1500 | | | | |
| Fluoranthene | ND | ug/kg | 1500 | | | | |
| Hexachlorobutadiene | ND | ug/kg | 3700 | | | | |
| Naphthalene | ND | ug/kg | 1500 | | | | |
| Benzo(a)anthracene | ND | ug/kg | 1500 | | | | |
| Benzo(a)pyrene | ND | ug/kg | 1500 | | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 1500 | | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 1500 | | | | |
| Chrysene | ND | ug/kg | 1500 | | | | |
| Acenaphthylene | ND | ug/kg | 1500 | | | | |
| Anthracene | ND | ug/kg | 1500 | | | | |
| Benzo(ghi)perylene | ND | ug/kg | 1500 | | | | |
| Fluorene | ND | ug/kg | 1500 | | | | |
| Phenanthrene | ND | ug/kg | 1500 | | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 1500 | | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 1500 | | | | |
| Pyrene | ND | ug/kg | 1500 | | | | |
| 2-Methylnaphthalene | ND | ug/kg | 1500 | | | | |
| Pentachlorophenol | ND | ug/kg | 5900 | | | | |
| Hexachlorobenzene | ND | ug/kg | 5900 | | | | |
| Hexachloroethane | ND | ug/kg | 5900 | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | |
| 2-Fluorophenol | ND | % | 25-120 | | | | |
| Phenol-d6 | ND | % | 10-120 | | | | |
| Nitrobenzene-d5 | ND | % | 23-120 | | | | |
| 2-Fluorobiphenyl | ND | % | 30-120 | | | | |
| 2,4,6-Tribromophenol | ND | % | 19-120 | | | | |
| 4-Terphenyl-d14 | ND | % | 18-120 | | | | |
| Petroleum Hydrocarbon Quantitation by GC-FID | | | | 1 | 8015B(M) | 0916 01:30 | 0918 03:44 JL |
| TPH | 645000 | ug/kg | 183000 | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | |
| o-Terphenyl | 103 | % | 40-140 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0813447-14 | Date Collected: 10-SEP-2008 11:20 |
| PWG-DW-2008-41(9-9.5') | Date Received : 11-SEP-2008 |
| Sample Matrix: SOIL | Date Reported : 22-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 3-Amber,1-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-----------------------|----|
| Solids, Total | 79 | % | 0.10 | 30 2540G | 0913 15:45 | NM |
| Total Metals | | | | | | |
| Aluminum, Total | 820 | mg/kg | 6.2 | 1 6010B | 0912 18:00 0918 12:47 | AI |
| Antimony, Total | ND | mg/kg | 3.1 | 1 6010B | 0912 18:00 0918 12:47 | AI |
| Arsenic, Total | ND | mg/kg | 0.62 | 1 6010B | 0912 18:00 0919 11:33 | AI |
| Barium, Total | 1.8 | mg/kg | 0.62 | 1 6010B | 0912 18:00 0918 12:47 | AI |
| Beryllium, Total | ND | mg/kg | 0.31 | 1 6010B | 0912 18:00 0918 12:47 | AI |
| Cadmium, Total | ND | mg/kg | 0.62 | 1 6010B | 0912 18:00 0918 12:47 | AI |
| Calcium, Total | 170 | mg/kg | 6.2 | 1 6010B | 0912 18:00 0918 12:47 | AI |
| Chromium, Total | 4.0 | mg/kg | 0.62 | 1 6010B | 0912 18:00 0918 12:47 | AI |
| Cobalt, Total | ND | mg/kg | 1.2 | 1 6010B | 0912 18:00 0918 12:47 | AI |
| Copper, Total | 3.6 | mg/kg | 0.62 | 1 6010B | 0912 18:00 0918 12:47 | AI |
| Iron, Total | 1300 | mg/kg | 3.1 | 1 6010B | 0912 18:00 0918 12:47 | AI |
| Lead, Total | 5.0 | mg/kg | 3.1 | 1 6010B | 0912 18:00 0918 12:47 | AI |
| Magnesium, Total | 120 | mg/kg | 6.2 | 1 6010B | 0912 18:00 0918 12:47 | AI |
| Manganese, Total | 3.4 | mg/kg | 0.62 | 1 6010B | 0912 18:00 0919 11:33 | AI |
| Mercury, Total | 0.17 | mg/kg | 0.09 | 1 7471A | 0912 20:30 0914 14:39 | HG |
| Nickel, Total | 1.5 | mg/kg | 1.5 | 1 6010B | 0912 18:00 0918 12:47 | AI |
| Potassium, Total | ND | mg/kg | 150 | 1 6010B | 0912 18:00 0918 12:47 | AI |
| Selenium, Total | ND | mg/kg | 1.2 | 1 6010B | 0912 18:00 0919 11:33 | AI |
| Silver, Total | ND | mg/kg | 0.62 | 1 6010B | 0912 18:00 0918 12:47 | AI |
| Sodium, Total | ND | mg/kg | 120 | 1 6010B | 0912 18:00 0918 12:47 | AI |
| Thallium, Total | ND | mg/kg | 1.2 | 1 6010B | 0912 18:00 0918 12:47 | AI |
| Vanadium, Total | 2.1 | mg/kg | 0.62 | 1 6010B | 0912 18:00 0918 12:47 | AI |
| Zinc, Total | 18 | mg/kg | 3.1 | 1 6010B | 0912 18:00 0918 12:47 | AI |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0915 22:10 | PD |
| Methylene chloride | ND | ug/kg | 32. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 4.7 | | | |
| Chloroform | ND | ug/kg | 4.7 | | | |
| Carbon tetrachloride | ND | ug/kg | 3.2 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 11. | | | |
| Dibromochloromethane | ND | ug/kg | 3.2 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 4.7 | | | |
| Tetrachloroethene | ND | ug/kg | 3.2 | | | |
| Chlorobenzene | ND | ug/kg | 3.2 | | | |
| Trichlorofluoromethane | ND | ug/kg | 16. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813447-14
PWG-DW-2008-41(9-9.5')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---------------------------------------|--------|-------|-----|------------|-------|---------------|----|
| | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0915 22:10 PD | |
| 1,2-Dichloroethane | ND | ug/kg | 3.2 | | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 3.2 | | | | |
| Bromodichloromethane | ND | ug/kg | 3.2 | | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 3.2 | | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 3.2 | | | | |
| 1,1-Dichloropropene | ND | ug/kg | 16. | | | | |
| Bromoform | ND | ug/kg | 13. | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 3.2 | | | | |
| Benzene | ND | ug/kg | 3.2 | | | | |
| Toluene | ND | ug/kg | 4.7 | | | | |
| Ethylbenzene | ND | ug/kg | 3.2 | | | | |
| Chloromethane | ND | ug/kg | 16. | | | | |
| Bromomethane | ND | ug/kg | 6.3 | | | | |
| Vinyl chloride | ND | ug/kg | 6.3 | | | | |
| Chloroethane | ND | ug/kg | 6.3 | | | | |
| 1,1-Dichloroethene | ND | ug/kg | 3.2 | | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 4.7 | | | | |
| Trichloroethene | ND | ug/kg | 3.2 | | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 16. | | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 16. | | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 16. | | | | |
| Methyl tert butyl ether | ND | ug/kg | 6.3 | | | | |
| p/m-Xylene | ND | ug/kg | 6.3 | | | | |
| o-Xylene | ND | ug/kg | 6.3 | | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 3.2 | | | | |
| Dibromomethane | ND | ug/kg | 32. | | | | |
| Styrene | ND | ug/kg | 6.3 | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 32. | | | | |
| Acetone | ND | ug/kg | 32. | | | | |
| Carbon disulfide | ND | ug/kg | 32. | | | | |
| 2-Butanone | ND | ug/kg | 32. | | | | |
| Vinyl acetate | ND | ug/kg | 32. | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 32. | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 32. | | | | |
| 2-Hexanone | ND | ug/kg | 32. | | | | |
| Bromochloromethane | ND | ug/kg | 16. | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 16. | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 13. | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 16. | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 3.2 | | | | |
| Bromobenzene | ND | ug/kg | 16. | | | | |
| n-Butylbenzene | ND | ug/kg | 3.2 | | | | |
| sec-Butylbenzene | ND | ug/kg | 3.2 | | | | |
| tert-Butylbenzene | ND | ug/kg | 16. | | | | |
| o-Chlorotoluene | ND | ug/kg | 16. | | | | |
| p-Chlorotoluene | ND | ug/kg | 16. | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 16. | | | | |
| Hexachlorobutadiene | ND | ug/kg | 16. | | | | |
| Isopropylbenzene | ND | ug/kg | 3.2 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813447-14
PWG-DW-2008-41(9-9.5')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|--------------------------|----|
| <hr/> | | | | | | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0915 22:10 PD | |
| p-Isopropyltoluene | ND | ug/kg | 3.2 | | | |
| Naphthalene | ND | ug/kg | 16. | | | |
| Acrylonitrile | ND | ug/kg | 32. | | | |
| n-Propylbenzene | ND | ug/kg | 3.2 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 16. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 16. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 16. | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 16. | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 13. | | | |
| 4-Ethyltoluene | ND | ug/kg | 13. | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 13. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 84.0 | % | 70-130 | | | |
| Toluene-d8 | 95.0 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 100 | % | 70-130 | | | |
| Dibromofluoromethane | 85.0 | % | 70-130 | | | |
| <hr/> | | | | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 0916 19:00 0918 16:33 PS | |
| Acenaphthene | ND | ug/kg | 420 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 420 | | | |
| Hexachlorobenzene | ND | ug/kg | 420 | | | |
| Bis(2-chloroethyl)ether | ND | ug/kg | 420 | | | |
| 2-Chloronaphthalene | ND | ug/kg | 510 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 420 | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 420 | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 420 | | | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 840 | | | |
| 2,4-Dinitrotoluene | ND | ug/kg | 420 | | | |
| 2,6-Dinitrotoluene | ND | ug/kg | 420 | | | |
| Fluoranthene | ND | ug/kg | 420 | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/kg | 420 | | | |
| 4-Bromophenyl phenyl ether | ND | ug/kg | 420 | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/kg | 420 | | | |
| Bis(2-chloroethoxy)methane | ND | ug/kg | 420 | | | |
| Hexachlorobutadiene | ND | ug/kg | 840 | | | |
| Hexachlorocyclopentadiene | ND | ug/kg | 840 | | | |
| Hexachloroethane | ND | ug/kg | 420 | | | |
| Isophorone | ND | ug/kg | 420 | | | |
| Naphthalene | ND | ug/kg | 420 | | | |
| Nitrobenzene | ND | ug/kg | 420 | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/kg | 1300 | | | |
| n-Nitrosodi-n-propylamine | ND | ug/kg | 420 | | | |
| Bis(2-Ethylhexyl)phthalate | ND | ug/kg | 840 | | | |
| Butyl benzyl phthalate | ND | ug/kg | 420 | | | |
| Di-n-butylphthalate | ND | ug/kg | 420 | | | |
| Di-n-octylphthalate | ND | ug/kg | 420 | | | |
| Diethyl phthalate | ND | ug/kg | 420 | | | |
| Dimethyl phthalate | ND | ug/kg | 420 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813447-14
PWG-DW-2008-41(9-9.5')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---|----------|-------|-------------|------------|-------|------------|---------------|
| | | | | | PREP | ANAL | |
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 | 8270C | 0916 19:00 | 0918 16:33 PS |
| Benzo(a)anthracene | ND | ug/kg | 420 | | | | |
| Benzo(a)pyrene | ND | ug/kg | 420 | | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 420 | | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 420 | | | | |
| Chrysene | ND | ug/kg | 420 | | | | |
| Acenaphthylene | ND | ug/kg | 420 | | | | |
| Anthracene | ND | ug/kg | 420 | | | | |
| Benzo(ghi)perylene | ND | ug/kg | 420 | | | | |
| Fluorene | ND | ug/kg | 420 | | | | |
| Phenanthrene | ND | ug/kg | 420 | | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 420 | | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 420 | | | | |
| Pyrene | ND | ug/kg | 420 | | | | |
| Biphenyl | ND | ug/kg | 420 | | | | |
| 4-Chloroaniline | ND | ug/kg | 420 | | | | |
| 2-Nitroaniline | ND | ug/kg | 420 | | | | |
| 3-Nitroaniline | ND | ug/kg | 420 | | | | |
| 4-Nitroaniline | ND | ug/kg | 590 | | | | |
| Dibenzofuran | ND | ug/kg | 420 | | | | |
| 2-Methylnaphthalene | ND | ug/kg | 420 | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/kg | 1700 | | | | |
| Acetophenone | ND | ug/kg | 1700 | | | | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 420 | | | | |
| P-Chloro-M-Cresol | ND | ug/kg | 420 | | | | |
| 2-Chlorophenol | ND | ug/kg | 510 | | | | |
| 2,4-Dichlorophenol | ND | ug/kg | 840 | | | | |
| 2,4-Dimethylphenol | ND | ug/kg | 420 | | | | |
| 2-Nitrophenol | ND | ug/kg | 1700 | | | | |
| 4-Nitrophenol | ND | ug/kg | 840 | | | | |
| 2,4-Dinitrophenol | ND | ug/kg | 1700 | | | | |
| 4,6-Dinitro-o-cresol | ND | ug/kg | 1700 | | | | |
| Pentachlorophenol | ND | ug/kg | 1700 | | | | |
| Phenol | ND | ug/kg | 590 | | | | |
| 2-Methylphenol | ND | ug/kg | 510 | | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/kg | 510 | | | | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 420 | | | | |
| Benzoic Acid | ND | ug/kg | 4200 | | | | |
| Benzyl Alcohol | ND | ug/kg | 840 | | | | |
| Carbazole | ND | ug/kg | 420 | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | |
| 2-Fluorophenol | 83.0 | % | 25-120 | | | | |
| Phenol-d6 | 87.0 | % | 10-120 | | | | |
| Nitrobenzene-d5 | 78.0 | % | 23-120 | | | | |
| 2-Fluorobiphenyl | 75.0 | % | 30-120 | | | | |
| 2,4,6-Tribromophenol | 84.0 | % | 19-120 | | | | |
| 4-Terphenyl-d14 | 67.0 | % | 18-120 | | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 | 8270C | 0912 21:30 | 0916 20:08 AK |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813447-14
PWG-DW-2008-41(9-9.5')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C-SIM cont'd | | | | 1 8270C | 0912 21:30 0916 20:08 AK | |
| Acenaphthene | ND | ug/kg | 84. | | | |
| 2-Chloronaphthalene | ND | ug/kg | 84. | | | |
| Fluoranthene | ND | ug/kg | 84. | | | |
| Hexachlorobutadiene | ND | ug/kg | 210 | | | |
| Naphthalene | ND | ug/kg | 84. | | | |
| Benzo(a)anthracene | ND | ug/kg | 84. | | | |
| Benzo(a)pyrene | ND | ug/kg | 84. | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 84. | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 84. | | | |
| Chrysene | ND | ug/kg | 84. | | | |
| Acenaphthylene | ND | ug/kg | 84. | | | |
| Anthracene | ND | ug/kg | 84. | | | |
| Benzo(ghi)perylene | ND | ug/kg | 84. | | | |
| Fluorene | ND | ug/kg | 84. | | | |
| Phenanthrene | ND | ug/kg | 84. | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 84. | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 84. | | | |
| Pyrene | ND | ug/kg | 84. | | | |
| 2-Methylnaphthalene | ND | ug/kg | 84. | | | |
| Pentachlorophenol | ND | ug/kg | 340 | | | |
| Hexachlorobenzene | ND | ug/kg | 340 | | | |
| Hexachloroethane | ND | ug/kg | 340 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 60.0 | % | 25-120 | | | |
| Phenol-d6 | 66.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 53.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 56.0 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 47.0 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 63.0 | % | 18-120 | | | |
| Petroleum Hydrocarbon Quantitation by GC-FID | | | | 1 8015B(M) | 0916 01:30 0918 04:18 JL | |
| TPH | 168000 | ug/kg | 42200 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| o-Terphenyl | 88.0 | % | 40-140 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0813447-15 Date Collected: 10-SEP-2008 11:35
PWG-DW-2008-42(2-5') Date Received : 11-SEP-2008
Sample Matrix: SOIL Date Reported : 22-SEP-2008
Condition of Sample: Satisfactory Field Prep: None
Number & Type of Containers: 3-Amber,1-Vial

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|-----------|--------|-------|-----|------------|-------------------|----|
|-----------|--------|-------|-----|------------|-------------------|----|

***** THIS SAMPLE IS ON HOLD *****

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0813447

| Parameter | Value 1 | Value 2 | Units | RPD | RPD Limits |
|--|----------|---------|-------|-----|-------------|
| Solids, Total for sample(s) 02-14 (L0813406-41, WG336296-1) | | | | | |
| Solids, Total | 68 | 68 | % | 0 | 20 |
| Total Metals for sample(s) 02-14 (L0813344-25, WG336225-3) | | | | | |
| Mercury, Total | 1.1 | 0.80 | mg/kg | 32 | 35 |
| Petroleum Hydrocarbon Quantitation by GC-FID for sample(s) 02-14 (L0813447-02, WG336438-3) | | | | | |
| TPH | ND | ND | ug/kg | NC | 40 |
| Surrogate(s) | Recovery | | | | QC Criteria |
| o-Terphenyl | 64.0 | 61.0 | % | | 40-140 |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0813447

| Parameter | % Recovery | QC Criteria |
|-----------|------------|-------------|
|-----------|------------|-------------|

Total Metals LCS for sample(s) 02-14 (WG336219-4)

| | | |
|------------------|-----|--------|
| Aluminum, Total | 105 | 75-125 |
| Antimony, Total | 109 | 75-125 |
| Arsenic, Total | 107 | 75-125 |
| Barium, Total | 106 | 75-125 |
| Beryllium, Total | 105 | 75-125 |
| Cadmium, Total | 107 | 75-125 |
| Calcium, Total | 98 | 75-125 |
| Chromium, Total | 100 | 75-125 |
| Cobalt, Total | 105 | 75-125 |
| Copper, Total | 96 | 75-125 |
| Iron, Total | 98 | 75-125 |
| Lead, Total | 103 | 75-125 |
| Magnesium, Total | 92 | 75-125 |
| Manganese, Total | 96 | 75-125 |
| Nickel, Total | 105 | 75-125 |
| Potassium, Total | 102 | 75-125 |
| Selenium, Total | 104 | 75-125 |
| Silver, Total | 102 | 75-125 |
| Sodium, Total | 105 | 75-125 |
| Thallium, Total | 107 | 75-125 |
| Vanadium, Total | 100 | 75-125 |
| Zinc, Total | 100 | 75-125 |

Total Metals LCS for sample(s) 02-14 (WG336225-2)

| | | |
|----------------|-----|--------|
| Mercury, Total | 101 | 80-120 |
|----------------|-----|--------|

Petroleum Hydrocarbon Quantitation by GC-FID LCS for sample(s) 02-14 (WG336438-2)

| | | |
|-----|-----|--------|
| TPH | 101 | 40-140 |
|-----|-----|--------|

Surrogate(s)

| | | |
|-------------|----|--------|
| o-Terphenyl | 85 | 40-140 |
|-------------|----|--------|

Total Metals SPIKE for sample(s) 02-14 (L0813344-25, WG336225-4)

| | | |
|----------------|---|--------|
| Mercury, Total | 0 | 70-130 |
|----------------|---|--------|

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0813447

| Parameter | LCS % | LCSD % | RPD | RPD Limit | QC Limits |
|---|-------|--------|-----|-----------|-----------|
| Volatile Organics by EPA 8260B for sample(s) 02-14 (WG336650-1, WG336650-2) | | | | | |
| Chlorobenzene | 101 | 97 | 4 | 30 | 60-133 |
| Benzene | 95 | 94 | 1 | 30 | 66-142 |
| Toluene | 98 | 95 | 3 | 30 | 59-139 |
| 1,1-Dichloroethene | 91 | 92 | 1 | 30 | 59-172 |
| Trichloroethene | 95 | 93 | 2 | 30 | 62-137 |
| Surrogate(s) | | | | | |
| 1,2-Dichloroethane-d4 | 83 | 90 | 8 | | 70-130 |
| Toluene-d8 | 94 | 102 | 8 | | 70-130 |
| 4-Bromofluorobenzene | 92 | 102 | 10 | | 70-130 |
| Dibromofluoromethane | 89 | 97 | 9 | | 70-130 |
| Volatile Organics by EPA 8260B for sample(s) 10-11 (WG336650-4, WG336650-5) | | | | | |
| Chlorobenzene | 87 | 85 | 2 | 30 | 60-133 |
| Benzene | 89 | 86 | 3 | 30 | 66-142 |
| Toluene | 88 | 87 | 1 | 30 | 59-139 |
| 1,1-Dichloroethene | 86 | 81 | 6 | 30 | 59-172 |
| Trichloroethene | 86 | 85 | 1 | 30 | 62-137 |
| Surrogate(s) | | | | | |
| 1,2-Dichloroethane-d4 | 88 | 87 | 1 | | 70-130 |
| Toluene-d8 | 99 | 100 | 1 | | 70-130 |
| 4-Bromofluorobenzene | 99 | 97 | 2 | | 70-130 |
| Dibromofluoromethane | 96 | 96 | 0 | | 70-130 |
| Volatile Organics by EPA 8260B for sample(s) 01 (WG336088-4, WG336088-5) | | | | | |
| Chlorobenzene | 96 | 101 | 5 | 20 | 75-130 |
| Benzene | 97 | 102 | 5 | 20 | 76-127 |
| Toluene | 95 | 102 | 7 | 20 | 76-125 |
| 1,1-Dichloroethene | 93 | 99 | 6 | 20 | 61-145 |
| Trichloroethene | 93 | 99 | 6 | 20 | 71-120 |
| Surrogate(s) | | | | | |
| 1,2-Dichloroethane-d4 | 102 | 102 | 0 | | 70-130 |
| Toluene-d8 | 99 | 100 | 1 | | 70-130 |
| 4-Bromofluorobenzene | 100 | 99 | 1 | | 70-130 |
| Dibromofluoromethane | 101 | 101 | 0 | | 70-130 |
| Semivolatile Organics by EPA 8270C for sample(s) 02-14 (WG336983-2, WG336983-3) | | | | | |
| Acenaphthene | 83 | 84 | 1 | 50 | 31-137 |
| 1,2,4-Trichlorobenzene | 75 | 78 | 4 | 50 | 38-107 |
| 2-Chloronaphthalene | 85 | 85 | 0 | 50 | 40-140 |
| 1,2-Dichlorobenzene | 79 | 82 | 4 | 50 | 40-140 |
| 1,4-Dichlorobenzene | 75 | 76 | 1 | 50 | 28-104 |
| 2,4-Dinitrotoluene | 107 | 106 | 1 | 50 | 28-89 |
| 2,6-Dinitrotoluene | 89 | 93 | 4 | 50 | 40-140 |
| Fluoranthene | 101 | 99 | 2 | 50 | 40-140 |
| 4-Chlorophenyl phenyl ether | 86 | 97 | 12 | 50 | 40-140 |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0813447

Continued

| Parameter | LCS % | LCSD % | RPD | RPD Limit | QC Limits |
|---|-------|--------|-----|-----------|-----------|
| Semivolatile Organics by EPA 8270C for sample(s) 02-14 (WG336983-2, WG336983-3) | | | | | |
| n-Nitrosodi-n-propylamine | 83 | 79 | 5 | 50 | 41-126 |
| Butyl benzyl phthalate | 112 | 109 | 3 | 50 | 40-140 |
| Anthracene | 95 | 93 | 2 | 50 | 40-140 |
| Pyrene | 98 | 97 | 1 | 50 | 35-142 |
| P-Chloro-M-Cresol | 89 | 90 | 1 | 50 | 26-103 |
| 2-Chlorophenol | 84 | 81 | 4 | 50 | 25-102 |
| 2-Nitrophenol | 88 | 81 | 8 | 50 | 30-130 |
| 4-Nitrophenol | 96 | 98 | 2 | 50 | 11-114 |
| 2,4-Dinitrophenol | 83 | 86 | 4 | 50 | 30-130 |
| Pentachlorophenol | 88 | 88 | 0 | 50 | 17-109 |
| Phenol | 82 | 84 | 2 | 50 | 26-90 |
| Surrogate(s) | | | | | |
| 2-Fluorophenol | 97 | 90 | 7 | | 25-120 |
| Phenol-d6 | 95 | 89 | 7 | | 10-120 |
| Nitrobenzene-d5 | 89 | 79 | 12 | | 23-120 |
| 2-Fluorobiphenyl | 84 | 80 | 5 | | 30-120 |
| 2,4,6-Tribromophenol | 110 | 98 | 12 | | 19-120 |
| 4-Terphenyl-d14 | 85 | 77 | 10 | | 18-120 |
| Semivolatile Organics by EPA 8270C-SIM for sample(s) 02-14 (WG336244-2, WG336244-3) | | | | | |
| Acenaphthene | 70 | 61 | 14 | | 31-137 |
| 2-Chloronaphthalene | 74 | 65 | 13 | | 40-140 |
| Fluoranthene | 94 | 86 | 9 | | 40-140 |
| Anthracene | 85 | 77 | 10 | | 40-140 |
| Pyrene | 95 | 87 | 9 | | 35-142 |
| Pentachlorophenol | 24 | 21 | 13 | | 17-109 |
| Surrogate(s) | | | | | |
| 2-Fluorophenol | 73 | 62 | 16 | | 25-120 |
| Phenol-d6 | 80 | 68 | 16 | | 10-120 |
| Nitrobenzene-d5 | 71 | 60 | 17 | | 23-120 |
| 2-Fluorobiphenyl | 66 | 57 | 15 | | 30-120 |
| 2,4,6-Tribromophenol | 48 | 43 | 11 | | 19-120 |
| 4-Terphenyl-d14 | 83 | 76 | 9 | | 18-120 |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0813447

| Parameter | MS % | MSD % | RPD | RPD Limit | MS/MSD Limits |
|--|------|-------|-----|-----------|---------------|
| Total Metals for sample(s) 02-14 (L0813447-13, WG336219-2) | | | | | |
| Aluminum, Total | 956 | 566 | 51 | 35 | 75-125 |
| Antimony, Total | 57 | 60 | 5 | 35 | 75-125 |
| Arsenic, Total | 113 | 138 | 20 | 35 | 75-125 |
| Barium, Total | 110 | 99 | 11 | 35 | 75-125 |
| Beryllium, Total | 111 | 102 | 8 | 35 | 75-125 |
| Cadmium, Total | 108 | 110 | 2 | 35 | 75-125 |
| Calcium, Total | 0 | 0 | NC | 35 | 75-125 |
| Chromium, Total | 134 | 141 | 5 | 35 | 75-125 |
| Cobalt, Total | 99 | 98 | 1 | 35 | 75-125 |
| Copper, Total | 130 | 121 | 7 | 35 | 75-125 |
| Iron, Total | 2680 | 1880 | 35 | 35 | 75-125 |
| Lead, Total | 188 | 185 | 2 | 35 | 75-125 |
| Magnesium, Total | 0 | 0 | NC | 35 | 75-125 |
| Manganese, Total | 172 | 320 | 60 | 35 | 75-125 |
| Nickel, Total | 104 | 106 | 2 | 35 | 75-125 |
| Potassium, Total | 109 | 94 | 15 | 35 | 75-125 |
| Selenium, Total | 105 | 105 | 0 | 35 | 75-125 |
| Silver, Total | 104 | 102 | 2 | 35 | 75-125 |
| Sodium, Total | 113 | 107 | 5 | 35 | 75-125 |
| Thallium, Total | 96 | 97 | 1 | 35 | 75-125 |
| Vanadium, Total | 107 | 102 | 5 | 35 | 75-125 |
| Zinc, Total | 459 | 188 | 84 | 35 | 75-125 |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0813447

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|--------|-------|------|------------|--------------------------|----|
| Blank Analysis for sample(s) 02-14 (WG336219-3) | | | | | | |
| Total Metals | | | | | | |
| Aluminum, Total | ND | mg/kg | 5.0 | 1 6010B | 0912 18:00 0918 12:27 AI | |
| Antimony, Total | ND | mg/kg | 2.5 | 1 6010B | 0912 18:00 0918 12:27 AI | |
| Arsenic, Total | ND | mg/kg | 0.50 | 1 6010B | 0912 18:00 0919 11:12 AI | |
| Barium, Total | ND | mg/kg | 0.50 | 1 6010B | 0912 18:00 0918 12:27 AI | |
| Beryllium, Total | ND | mg/kg | 0.25 | 1 6010B | 0912 18:00 0918 12:27 AI | |
| Cadmium, Total | ND | mg/kg | 0.50 | 1 6010B | 0912 18:00 0918 12:27 AI | |
| Calcium, Total | ND | mg/kg | 5.0 | 1 6010B | 0912 18:00 0918 12:27 AI | |
| Chromium, Total | ND | mg/kg | 0.50 | 1 6010B | 0912 18:00 0918 12:27 AI | |
| Cobalt, Total | ND | mg/kg | 1.0 | 1 6010B | 0912 18:00 0918 12:27 AI | |
| Copper, Total | ND | mg/kg | 0.50 | 1 6010B | 0912 18:00 0918 12:27 AI | |
| Iron, Total | ND | mg/kg | 2.5 | 1 6010B | 0912 18:00 0918 12:27 AI | |
| Lead, Total | ND | mg/kg | 2.5 | 1 6010B | 0912 18:00 0918 12:27 AI | |
| Magnesium, Total | ND | mg/kg | 5.0 | 1 6010B | 0912 18:00 0918 12:27 AI | |
| Manganese, Total | ND | mg/kg | 0.50 | 1 6010B | 0912 18:00 0919 11:12 AI | |
| Nickel, Total | ND | mg/kg | 1.2 | 1 6010B | 0912 18:00 0918 12:27 AI | |
| Potassium, Total | ND | mg/kg | 120 | 1 6010B | 0912 18:00 0918 12:27 AI | |
| Selenium, Total | ND | mg/kg | 1.0 | 1 6010B | 0912 18:00 0919 11:12 AI | |
| Silver, Total | ND | mg/kg | 0.50 | 1 6010B | 0912 18:00 0918 12:27 AI | |
| Sodium, Total | ND | mg/kg | 100 | 1 6010B | 0912 18:00 0918 12:27 AI | |
| Thallium, Total | ND | mg/kg | 1.0 | 1 6010B | 0912 18:00 0918 12:27 AI | |
| Vanadium, Total | ND | mg/kg | 0.50 | 1 6010B | 0912 18:00 0918 12:27 AI | |
| Zinc, Total | ND | mg/kg | 2.5 | 1 6010B | 0912 18:00 0918 12:27 AI | |
| Blank Analysis for sample(s) 02-14 (WG336225-1) | | | | | | |
| Total Metals | | | | | | |
| Mercury, Total | ND | mg/kg | 0.08 | 1 7471A | 0912 20:30 0914 13:49 HG | |
| Blank Analysis for sample(s) 01 (WG336088-6) | | | | | | |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0912 11:36 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | |
| Chloroform | ND | ug/l | 0.75 | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | |
| Tetrachloroethene | ND | ug/l | 0.50 | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0813447

Continued

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--|--------|-------|------|------------|-------------------|----|
| Blank Analysis for sample(s) 01 (WG336088-6) | | | | | | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0912 11:36 PD | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | |
| Bromoform | ND | ug/l | 2.0 | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Benzene | ND | ug/l | 0.50 | | | |
| Toluene | ND | ug/l | 0.75 | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | |
| Chloromethane | ND | ug/l | 2.5 | | | |
| Bromomethane | ND | ug/l | 1.0 | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | |
| Chloroethane | ND | ug/l | 1.0 | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | |
| Trichloroethene | ND | ug/l | 0.50 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| Methyl tert butyl ether | ND | ug/l | 1.0 | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | |
| o-Xylene | ND | ug/l | 1.0 | | | |
| cis-1,2-Dichloroethene | ND | ug/l | 0.50 | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | |
| Styrene | ND | ug/l | 1.0 | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | |
| Acetone | ND | ug/l | 5.0 | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | |
| 2-Butanone | ND | ug/l | 5.0 | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0813447

Continued

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|-------------------|----|
| Blank Analysis for sample(s) 01 (WG336088-6) | | | | | | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0912 11:36 PD | |
| Naphthalene | ND | ug/l | 2.5 | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 102 | % | 70-130 | | | |
| Toluene-d8 | 99.0 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 103 | % | 70-130 | | | |
| Dibromofluoromethane | 95.0 | % | 70-130 | | | |
| Blank Analysis for sample(s) 02-14 (WG336650-3) | | | | | | |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0915 13:31 PD | |
| Methylene chloride | ND | ug/kg | 25. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 3.8 | | | |
| Chloroform | ND | ug/kg | 3.8 | | | |
| Carbon tetrachloride | ND | ug/kg | 2.5 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 8.8 | | | |
| Dibromochloromethane | ND | ug/kg | 2.5 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 3.8 | | | |
| Tetrachloroethene | ND | ug/kg | 2.5 | | | |
| Chlorobenzene | ND | ug/kg | 2.5 | | | |
| Trichlorofluoromethane | ND | ug/kg | 12. | | | |
| 1,2-Dichloroethane | ND | ug/kg | 2.5 | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 2.5 | | | |
| Bromodichloromethane | ND | ug/kg | 2.5 | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 2.5 | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 2.5 | | | |
| 1,1-Dichloropropene | ND | ug/kg | 12. | | | |
| Bromoform | ND | ug/kg | 10. | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 2.5 | | | |
| Benzene | ND | ug/kg | 2.5 | | | |
| Toluene | ND | ug/kg | 3.8 | | | |
| Ethylbenzene | ND | ug/kg | 2.5 | | | |
| Chloromethane | ND | ug/kg | 12. | | | |
| Bromomethane | ND | ug/kg | 5.0 | | | |
| Vinyl chloride | ND | ug/kg | 5.0 | | | |
| Chloroethane | ND | ug/kg | 5.0 | | | |
| 1,1-Dichloroethene | ND | ug/kg | 2.5 | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 3.8 | | | |
| Trichloroethene | ND | ug/kg | 2.5 | | | |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0813447

Continued

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-----|-------------|------------------------|----|
| Blank Analysis for sample(s) 02-14 (WG336650-3) | | | | | | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0915 13:31 PD | |
| 1,2-Dichlorobenzene | ND | ug/kg | 12. | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 12. | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 12. | | | |
| Methyl tert butyl ether | ND | ug/kg | 5.0 | | | |
| p/m-Xylene | ND | ug/kg | 5.0 | | | |
| o-Xylene | ND | ug/kg | 5.0 | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 2.5 | | | |
| Dibromomethane | ND | ug/kg | 25. | | | |
| Styrene | ND | ug/kg | 5.0 | | | |
| Dichlorodifluoromethane | ND | ug/kg | 25. | | | |
| Acetone | ND | ug/kg | 25. | | | |
| Carbon disulfide | ND | ug/kg | 25. | | | |
| 2-Butanone | ND | ug/kg | 25. | | | |
| Vinyl acetate | ND | ug/kg | 25. | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 25. | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 25. | | | |
| 2-Hexanone | ND | ug/kg | 25. | | | |
| Bromochloromethane | ND | ug/kg | 12. | | | |
| 2,2-Dichloropropane | ND | ug/kg | 12. | | | |
| 1,2-Dibromoethane | ND | ug/kg | 10. | | | |
| 1,3-Dichloropropane | ND | ug/kg | 12. | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 2.5 | | | |
| Bromobenzene | ND | ug/kg | 12. | | | |
| n-Butylbenzene | ND | ug/kg | 2.5 | | | |
| sec-Butylbenzene | ND | ug/kg | 2.5 | | | |
| tert-Butylbenzene | ND | ug/kg | 12. | | | |
| o-Chlorotoluene | ND | ug/kg | 12. | | | |
| p-Chlorotoluene | ND | ug/kg | 12. | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 12. | | | |
| Hexachlorobutadiene | ND | ug/kg | 12. | | | |
| Isopropylbenzene | ND | ug/kg | 2.5 | | | |
| p-Isopropyltoluene | ND | ug/kg | 2.5 | | | |
| Naphthalene | ND | ug/kg | 12. | | | |
| Acrylonitrile | ND | ug/kg | 25. | | | |
| n-Propylbenzene | ND | ug/kg | 2.5 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 12. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 12. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 12. | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 12. | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 10. | | | |
| 4-Ethyltoluene | ND | ug/kg | 10. | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 10. | | | |
| Surrogate(s) | Recovery | | | QC Criteria | | |
| 1,2-Dichloroethane-d4 | 94.0 | % | | 70-130 | | |
| Toluene-d8 | 109 | % | | 70-130 | | |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0813447

Continued

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|--------|-------|--------|------------|-------------------|----|
| Blank Analysis for sample(s) 02-14 (WG336650-3) | | | | | | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0915 13:31 PD | |
| 4-Bromofluorobenzene | 115 | % | 70-130 | | | |
| Dibromofluoromethane | 98.0 | % | 70-130 | | | |
| Blank Analysis for sample(s) 10-11 (WG336650-6) | | | | | | |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0916 11:35 PD | |
| Methylene chloride | ND | ug/kg | 25. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 3.8 | | | |
| Chloroform | ND | ug/kg | 3.8 | | | |
| Carbon tetrachloride | ND | ug/kg | 2.5 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 8.8 | | | |
| Dibromochloromethane | ND | ug/kg | 2.5 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 3.8 | | | |
| Tetrachloroethene | ND | ug/kg | 2.5 | | | |
| Chlorobenzene | ND | ug/kg | 2.5 | | | |
| Trichlorofluoromethane | ND | ug/kg | 12. | | | |
| 1,2-Dichloroethane | ND | ug/kg | 2.5 | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 2.5 | | | |
| Bromodichloromethane | ND | ug/kg | 2.5 | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 2.5 | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 2.5 | | | |
| 1,1-Dichloropropene | ND | ug/kg | 12. | | | |
| Bromoform | ND | ug/kg | 10. | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 2.5 | | | |
| Benzene | ND | ug/kg | 2.5 | | | |
| Toluene | ND | ug/kg | 3.8 | | | |
| Ethylbenzene | ND | ug/kg | 2.5 | | | |
| Chloromethane | ND | ug/kg | 12. | | | |
| Bromomethane | ND | ug/kg | 5.0 | | | |
| Vinyl chloride | ND | ug/kg | 5.0 | | | |
| Chloroethane | ND | ug/kg | 5.0 | | | |
| 1,1-Dichloroethene | ND | ug/kg | 2.5 | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 3.8 | | | |
| Trichloroethene | ND | ug/kg | 2.5 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 12. | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 12. | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 12. | | | |
| Methyl tert butyl ether | ND | ug/kg | 5.0 | | | |
| p/m-Xylene | ND | ug/kg | 5.0 | | | |
| o-Xylene | ND | ug/kg | 5.0 | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 2.5 | | | |
| Dibromomethane | ND | ug/kg | 25. | | | |
| Styrene | ND | ug/kg | 5.0 | | | |
| Dichlorodifluoromethane | ND | ug/kg | 25. | | | |
| Acetone | ND | ug/kg | 25. | | | |
| Carbon disulfide | ND | ug/kg | 25. | | | |
| 2-Butanone | ND | ug/kg | 25. | | | |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0813447

Continued

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Blank Analysis for sample(s) 10-11 (WG336650-6) | | | | | | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0916 11:35 PD | |
| Vinyl acetate | ND | ug/kg | 25. | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 25. | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 25. | | | |
| 2-Hexanone | ND | ug/kg | 25. | | | |
| Bromochloromethane | ND | ug/kg | 12. | | | |
| 2,2-Dichloropropane | ND | ug/kg | 12. | | | |
| 1,2-Dibromoethane | ND | ug/kg | 10. | | | |
| 1,3-Dichloropropane | ND | ug/kg | 12. | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 2.5 | | | |
| Bromobenzene | ND | ug/kg | 12. | | | |
| n-Butylbenzene | ND | ug/kg | 2.5 | | | |
| sec-Butylbenzene | ND | ug/kg | 2.5 | | | |
| tert-Butylbenzene | ND | ug/kg | 12. | | | |
| o-Chlorotoluene | ND | ug/kg | 12. | | | |
| p-Chlorotoluene | ND | ug/kg | 12. | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 12. | | | |
| Hexachlorobutadiene | ND | ug/kg | 12. | | | |
| Isopropylbenzene | ND | ug/kg | 2.5 | | | |
| p-Isopropyltoluene | ND | ug/kg | 2.5 | | | |
| Naphthalene | ND | ug/kg | 12. | | | |
| Acrylonitrile | ND | ug/kg | 25. | | | |
| n-Propylbenzene | ND | ug/kg | 2.5 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 12. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 12. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 12. | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 12. | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 10. | | | |
| 4-Ethyltoluene | ND | ug/kg | 10. | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 10. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 101 | % | 70-130 | | | |
| Toluene-d8 | 117 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 123 | % | 70-130 | | | |
| Dibromofluoromethane | 106 | % | 70-130 | | | |
| Blank Analysis for sample(s) 02-14 (WG336983-1) | | | | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 0916 19:00 0918 10:44 PS | |
| Acenaphthene | ND | ug/kg | 330 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 330 | | | |
| Hexachlorobenzene | ND | ug/kg | 330 | | | |
| Bis(2-chloroethyl)ether | ND | ug/kg | 330 | | | |
| 2-Chloronaphthalene | ND | ug/kg | 400 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 330 | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 330 | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 330 | | | |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0813447

Continued

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---|--------|-------|------|------------|------------|------------|----|
| | | | | | PREP | ANAL | |
| Blank Analysis for sample(s) 02-14 (WG336983-1) | | | | | | | |
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 8270C | 0916 19:00 | 0918 10:44 | PS |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 670 | | | | |
| 2,4-Dinitrotoluene | ND | ug/kg | 330 | | | | |
| 2,6-Dinitrotoluene | ND | ug/kg | 330 | | | | |
| Fluoranthene | ND | ug/kg | 330 | | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/kg | 330 | | | | |
| 4-Bromophenyl phenyl ether | ND | ug/kg | 330 | | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/kg | 330 | | | | |
| Bis(2-chloroethoxy)methane | ND | ug/kg | 330 | | | | |
| Hexachlorobutadiene | ND | ug/kg | 670 | | | | |
| Hexachlorocyclopentadiene | ND | ug/kg | 670 | | | | |
| Hexachloroethane | ND | ug/kg | 330 | | | | |
| Isophorone | ND | ug/kg | 330 | | | | |
| Naphthalene | ND | ug/kg | 330 | | | | |
| Nitrobenzene | ND | ug/kg | 330 | | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/kg | 1000 | | | | |
| n-Nitrosodi-n-propylamine | ND | ug/kg | 330 | | | | |
| Bis(2-Ethylhexyl)phthalate | ND | ug/kg | 670 | | | | |
| Butyl benzyl phthalate | ND | ug/kg | 330 | | | | |
| Di-n-butylphthalate | ND | ug/kg | 330 | | | | |
| Di-n-octylphthalate | ND | ug/kg | 330 | | | | |
| Diethyl phthalate | ND | ug/kg | 330 | | | | |
| Dimethyl phthalate | ND | ug/kg | 330 | | | | |
| Benzo(a)anthracene | ND | ug/kg | 330 | | | | |
| Benzo(a)pyrene | ND | ug/kg | 330 | | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 330 | | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 330 | | | | |
| Chrysene | ND | ug/kg | 330 | | | | |
| Acenaphthylene | ND | ug/kg | 330 | | | | |
| Anthracene | ND | ug/kg | 330 | | | | |
| Benzo(ghi)perylene | ND | ug/kg | 330 | | | | |
| Fluorene | ND | ug/kg | 330 | | | | |
| Phenanthrene | ND | ug/kg | 330 | | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 330 | | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 330 | | | | |
| Pyrene | ND | ug/kg | 330 | | | | |
| Biphenyl | ND | ug/kg | 330 | | | | |
| 4-Chloroaniline | ND | ug/kg | 330 | | | | |
| 2-Nitroaniline | ND | ug/kg | 330 | | | | |
| 3-Nitroaniline | ND | ug/kg | 330 | | | | |
| 4-Nitroaniline | ND | ug/kg | 470 | | | | |
| Dibenzofuran | ND | ug/kg | 330 | | | | |
| 2-Methylnaphthalene | ND | ug/kg | 330 | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/kg | 1300 | | | | |
| Acetophenone | ND | ug/kg | 1300 | | | | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 330 | | | | |
| P-Chloro-M-Cresol | ND | ug/kg | 330 | | | | |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0813447

Continued

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Blank Analysis for sample(s) 02-14 (WG336983-1) | | | | | | |
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 8270C | 0916 19:00 0918 10:44 PS | |
| 2-Chlorophenol | ND | ug/kg | 400 | | | |
| 2,4-Dichlorophenol | ND | ug/kg | 670 | | | |
| 2,4-Dimethylphenol | ND | ug/kg | 330 | | | |
| 2-Nitrophenol | ND | ug/kg | 1300 | | | |
| 4-Nitrophenol | ND | ug/kg | 670 | | | |
| 2,4-Dinitrophenol | ND | ug/kg | 1300 | | | |
| 4,6-Dinitro-o-cresol | ND | ug/kg | 1300 | | | |
| Pentachlorophenol | ND | ug/kg | 1300 | | | |
| Phenol | ND | ug/kg | 470 | | | |
| 2-Methylphenol | ND | ug/kg | 400 | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/kg | 400 | | | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 330 | | | |
| Benzoic Acid | ND | ug/kg | 3300 | | | |
| Benzyl Alcohol | ND | ug/kg | 670 | | | |
| Carbazole | ND | ug/kg | 330 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 86.0 | % | 25-120 | | | |
| Phenol-d6 | 84.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 78.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 77.0 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 40.0 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 83.0 | % | 18-120 | | | |
| Blank Analysis for sample(s) 02-14 (WG336244-1) | | | | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 8270C | 0912 21:30 0915 17:07 AK | |
| Acenaphthene | ND | ug/kg | 13. | | | |
| 2-Chloronaphthalene | ND | ug/kg | 13. | | | |
| Fluoranthene | ND | ug/kg | 13. | | | |
| Hexachlorobutadiene | ND | ug/kg | 33. | | | |
| Naphthalene | ND | ug/kg | 13. | | | |
| Benzo(a)anthracene | ND | ug/kg | 13. | | | |
| Benzo(a)pyrene | ND | ug/kg | 13. | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 13. | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 13. | | | |
| Chrysene | ND | ug/kg | 13. | | | |
| Acenaphthylene | ND | ug/kg | 13. | | | |
| Anthracene | ND | ug/kg | 13. | | | |
| Benzo(ghi)perylene | ND | ug/kg | 13. | | | |
| Fluorene | ND | ug/kg | 13. | | | |
| Phenanthrene | ND | ug/kg | 13. | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 13. | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 13. | | | |
| Pyrene | ND | ug/kg | 13. | | | |
| 2-Methylnaphthalene | ND | ug/kg | 13. | | | |
| Pentachlorophenol | ND | ug/kg | 53. | | | |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0813447

Continued

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP | DATE ANAL | ID |
|---|----------|-------|-------------|------------|--------------|--------------|----|
| Blank Analysis for sample(s) 02-14 (WG336244-1) | | | | | | | |
| Semivolatile Organics by EPA 8270C-SIM cont'd | | | | 1 8270C | 0912 21:30 | 0915 17:07 | AK |
| Hexachlorobenzene | ND | ug/kg | 53. | | | | |
| Hexachloroethane | ND | ug/kg | 53. | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | |
| 2-Fluorophenol | 70.0 | % | 25-120 | | | | |
| Phenol-d6 | 78.0 | % | 10-120 | | | | |
| Nitrobenzene-d5 | 71.0 | % | 23-120 | | | | |
| 2-Fluorobiphenyl | 64.0 | % | 30-120 | | | | |
| 2,4,6-Tribromophenol | 57.0 | % | 19-120 | | | | |
| 4-Terphenyl-d14 | 79.0 | % | 18-120 | | | | |
| Blank Analysis for sample(s) 02-14 (WG336438-1) | | | | | | | |
| Petroleum Hydrocarbon Quantitation by GC-FID | | | | 1 8015B(M) | 0916 01:30 | 0917 19:12 | JL |
| TPH | ND | ug/kg | 33300 | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | |
| o-Terphenyl | 53.0 | % | 40-140 | | | | |

**ALPHA ANALYTICAL
ADDENDUM I**

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.
30. Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

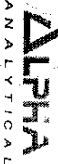
GLOSSARY OF TERMS AND SYMBOLS

| | |
|---------|--|
| REF | Reference number in which test method may be found. |
| METHOD | Method number by which analysis was performed. |
| ID | Initials of the analyst. |
| ND | Not detected in comparison to the reported detection limit. |
| NI | Not Ignitable. |
| ug/cart | Micrograms per Cartridge. |
| H | The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection. |

LIMITATION OF LIABILITIES

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.



CHAIN OF CUSTODY

PAGE OF

Project Information

Westborough, MA
TEL: 508-898-9220
FAX: 508-898-9193

Project Name:
Avalon Box

Mansfield, MA
TEL: 508-822-9300
FAX: 508-822-3288

Project Location: *80 Banks Ave. Eastville, MA*

Client: P.W. Grosser

Project # *A180901*

Address: 630 Johnson Avenue, Suite 7

Project Manager: *Kris Almsky*

Bohemia, NY 11716

ALPHA Quote #:

Phone: 631-589-6353

Turn-Around Time

Fax: 631-589-8765

☒ Standard ☐ Rush (ONLY IF PRE-APPROVED)

Email:

☐ These samples have been previously analyzed by Alpha

Due Date: *9/18/08* Time:

Other Project Specific Requirements/Comments/Detection Limits:

Date Rec'd in Lab:

9/11/08

ALPHA Job #: *L0813471*

Report Information Data Deliverables

☐ FAX ☐ EMAIL

☐ ADEX ☐ Add'l Deliverables

Billing Information

PO #:

Regulatory Requirements/Report Limits

State/ Fed Program

Criteria

NY/DC Analytical Series, Federal (HSP)

MCP PRESUMPTIVE CERTAINTY-CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

ANALYSIS

SAMPLE HANDLING

Filtration

☐ Done

☐ Not Needed

☐ Lab to do

☐ Preservation

☐ Lab to do

(Please specify below)

Sample Specific Comments

| ALPHA Lab ID (Lab Use Only) | Sample ID | Collection Date | Time | Sample Matrix | Sampler's Initials |
|--------------------------------|-----------|--------------------|------|------------------|-----------------------|
|--------------------------------|-----------|--------------------|------|------------------|-----------------------|

TCL 8228
TCL 8228
TAL Matrix 6010/7000
TPH 8015

13492.11
ALG-DL-2005-38 (7-7.5')
17
ALG-DL-2005-34 (8.5-9')
13
ALG-DL-2005-40 (6-6.5')
14
ALG-DL-2005-41 (9-9.5')
15
ALG-DL-2005-42 (2-5')

9/10/08
6045
5
722
1100
1110
1120
1135

Hold Sample

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MA MCP or CT RCP?

FORM NO. 01-9-10
(Rev. 30-Jul-07)

Relinquished By:

Date/Time

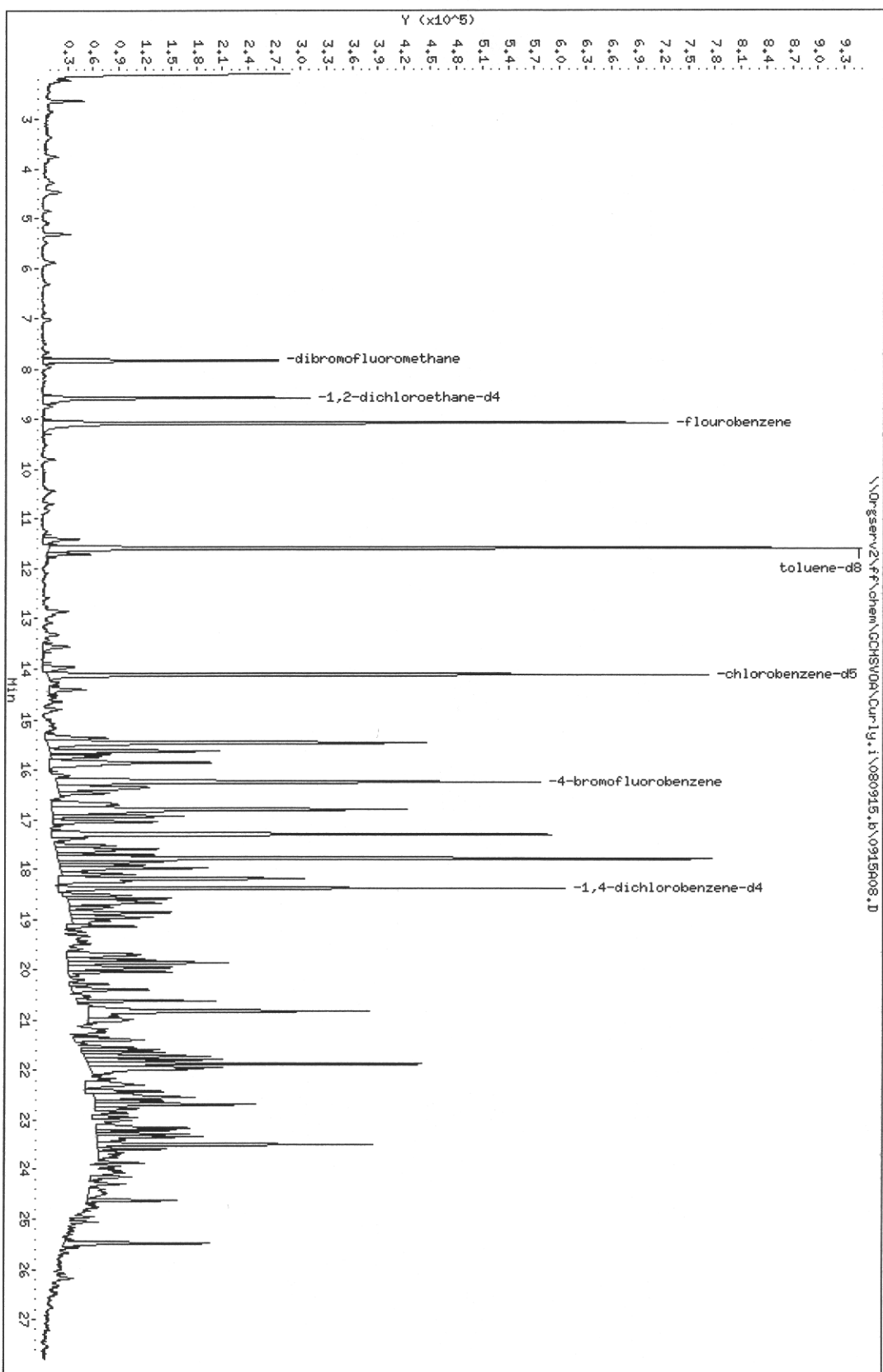
Received By:

Date/Time

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.

Data File: \\0rgserv2\ff\chem\GCMSV08\Cur1y.i\080915.b\0915A08.D
Date : 15-SEP-2008 16:42
Client ID:
Sample Info: L0813447-05,3,2.0
Volume Injected (uL): 0.1
Column phase:

Instrument: cur1y.i
Operator: PD
Column diameter: 0.53





ANALYTICAL REPORT

Lab Number: L0813541

Client: P. W. Grosser
630 Johnson Avenue
Suite 7
Bohemia, NY 11716

ATTN: Kris Almskog

Project Name: FORMER DARBY DRUG

Project Number: AVB0801

Report Date: 09/25/08

Certifications & Approvals: MA (M-MA030), NY (11627), CT (PH-0141), NH (2206), NJ (MA015), RI (LAO00299), ME (MA0030), PA (Registration #68-02089), LA NELAC (03090), FL NELAC (E87814), US Army Corps of Engineers.

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Project Name: FORMER DARBY DRUG
Project Number: AVB0801

Lab Number: L0813541
Report Date: 09/25/08

| Alpha Sample ID | Client ID | Sample Location |
|------------------------|------------------|------------------------|
| L0813541-01 | PWG-SG-2008-01 | ROCKVILLE CENTRE |
| L0813541-02 | PWG-SG-2008-02 | ROCKVILLE CENTRE |
| L0813541-03 | PWG-SG-2008-03 | ROCKVILLE CENTRE |
| L0813541-04 | PWG-SG-2008-04 | ROCKVILLE CENTRE |
| L0813541-05 | PWG-SG-2008-05 | ROCKVILLE CENTRE |
| L0813541-06 | PWG-SG-2008-06 | ROCKVILLE CENTRE |
| L0813541-07 | PWG-SG-2008-07 | ROCKVILLE CENTRE |
| L0813541-08 | PWG-SG-2008-08 | ROCKVILLE CENTRE |
| L0813541-09 | PWG-SG-2008-09 | ROCKVILLE CENTRE |
| L0813541-10 | PWG-SG-2008-10 | ROCKVILLE CENTRE |
| L0813541-11 | PWG-SG-2008-11 | ROCKVILLE CENTRE |
| L0813541-12 | PWG-SG-2008-12 | ROCKVILLE CENTRE |

Project Name: FORMER DARBY DRUG
Project Number: AVB0801

Lab Number: L0813541
Report Date: 09/25/08

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

TO-15

L0813541-01 and -03: results for Propylene should be considered estimated due to co-elution with a non-target peak.

L0813541-05, WG336905-4 Duplicate, L0813541-07, -09 through -11 have elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

L0813541-05, -07 and -11 required re-analysis on a dilution in order to quantitate the sample within the calibration range. The result is reported as a "greater than" value for the compound that exceeded the calibration on the initial analysis. The re-analysis was performed only for the compound which exceeded the calibration range.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Title: Technical Director/Representative

Date: 09/25/08

AIR

Project Name: FORMER DARBY DRUG
Project Number: AVB0801

Lab Number: L0813541
Report Date: 09/25/08

SAMPLE RESULTS

Lab ID: L0813541-01
Client ID: PWG-SG-2008-01
Sample Location: ROCKVILLE CENTRE
Matrix: Soil_Vapor
Analytical Method: 48,TO-15
Analytical Date: 09/17/08 15:28
Analyst: RY

Date Collected: 09/10/08 13:10
Date Received: 09/11/08
Field Prep: Not Specified

| Parameter | ppbV | | ug/m3 | | Qualifier | Dilution Factor |
|---|---------|-------|---------|-------|-----------|-----------------|
| | Results | RDL | Results | RDL | | |
| Low Level Volatile Organic Compounds in Air | | | | | | |
| 1,1,1-Trichloroethane | 0.244 | 0.200 | 1.33 | 1.09 | | 1 |
| 1,1,2,2-Tetrachloroethane | ND | 0.200 | ND | 1.37 | | 1 |
| 1,1,2-Trichloroethane | ND | 0.200 | ND | 1.09 | | 1 |
| 1,1-Dichloroethane | ND | 0.200 | ND | 0.809 | | 1 |
| 1,1-Dichloroethene | ND | 0.200 | ND | 0.792 | | 1 |
| 1,2,4-Trichlorobenzene | ND | 0.200 | ND | 1.48 | | 1 |
| 1,2,4-Trimethylbenzene | 1.12 | 0.200 | 5.50 | 0.982 | | 1 |
| 1,2-Dibromoethane | ND | 0.200 | ND | 1.54 | | 1 |
| 1,2-Dichlorobenzene | ND | 0.200 | ND | 1.20 | | 1 |
| 1,2-Dichloroethane | ND | 0.200 | ND | 0.809 | | 1 |
| 1,2-Dichloropropane | ND | 0.200 | ND | 0.924 | | 1 |
| 1,3,5-Trimethybenzene | 0.464 | 0.200 | 2.28 | 0.982 | | 1 |
| 1,3-Butadiene | ND | 0.200 | ND | 0.442 | | 1 |
| 1,3-Dichlorobenzene | ND | 0.200 | ND | 1.20 | | 1 |
| 1,4-Dichlorobenzene | 6.11 | 0.200 | 36.7 | 1.20 | | 1 |
| 1,4-Dioxane | ND | 0.200 | ND | 0.720 | | 1 |
| 2,2,4-Trimethylpentane | ND | 0.200 | ND | 0.934 | | 1 |
| 2-Butanone | 0.965 | 0.200 | 2.84 | 0.589 | | 1 |
| 2-Hexanone | ND | 0.200 | ND | 0.819 | | 1 |
| 3-Chloropropene | ND | 0.200 | ND | 0.626 | | 1 |
| 4-Ethyltoluene | ND | 0.200 | ND | 0.982 | | 1 |
| Acetone | 7.06 | 0.500 | 16.7 | 1.19 | | 1 |
| Benzene | ND | 0.200 | ND | 0.638 | | 1 |
| Benzyl chloride | ND | 0.200 | ND | 1.03 | | 1 |
| Bromodichloromethane | ND | 0.200 | ND | 1.34 | | 1 |



Project Name: FORMER DARBY DRUG**Lab Number:** L0813541**Project Number:** AVB0801**Report Date:** 09/25/08**SAMPLE RESULTS**

Lab ID: L0813541-01

Date Collected: 09/10/08 13:10

Client ID: PWG-SG-2008-01

Date Received: 09/11/08

Sample Location: ROCKVILLE CENTRE

Field Prep: Not Specified

| Parameter | ppbV | | ug/m3 | | Qualifier | Dilution Factor |
|---|---------|-------|---------|-------|-----------|-----------------|
| | Results | RDL | Results | RDL | | |
| Low Level Volatile Organic Compounds in Air | | | | | | |
| Bromoform | ND | 0.200 | ND | 2.06 | | 1 |
| Bromomethane | ND | 0.200 | ND | 0.776 | | 1 |
| Carbon disulfide | 0.254 | 0.200 | 0.789 | 0.622 | | 1 |
| Carbon tetrachloride | ND | 0.200 | ND | 1.26 | | 1 |
| Chlorobenzene | ND | 0.200 | ND | 0.920 | | 1 |
| Chloroethane | ND | 0.200 | ND | 0.527 | | 1 |
| Chloroform | ND | 0.200 | ND | 0.976 | | 1 |
| Chloromethane | ND | 0.200 | ND | 0.413 | | 1 |
| cis-1,2-Dichloroethene | ND | 0.200 | ND | 0.792 | | 1 |
| cis-1,3-Dichloropropene | ND | 0.200 | ND | 0.907 | | 1 |
| Cyclohexane | 0.274 | 0.200 | 0.942 | 0.688 | | 1 |
| Dibromochloromethane | ND | 0.200 | ND | 1.70 | | 1 |
| Dichlorodifluoromethane | 1.08 | 0.200 | 5.34 | 0.988 | | 1 |
| Ethanol | 4.66 | 2.50 | 8.78 | 4.71 | | 1 |
| Ethyl Acetate | ND | 0.500 | ND | 1.80 | | 1 |
| Ethylbenzene | 0.588 | 0.200 | 2.55 | 0.868 | | 1 |
| Freon-113 | ND | 0.200 | ND | 1.53 | | 1 |
| Freon-114 | 0.257 | 0.200 | 1.79 | 1.40 | | 1 |
| Hexachlorobutadiene | ND | 0.200 | ND | 2.13 | | 1 |
| Isopropanol | ND | 0.500 | ND | 1.23 | | 1 |
| Methylene chloride | ND | 0.500 | ND | 1.74 | | 1 |
| 4-Methyl-2-pentanone | ND | 0.200 | ND | 0.819 | | 1 |
| Methyl tert butyl ether | ND | 0.200 | ND | 0.720 | | 1 |
| p/m-Xylene | 1.99 | 0.400 | 8.63 | 1.74 | | 1 |
| o-Xylene | 0.813 | 0.200 | 3.53 | 0.868 | | 1 |
| Heptane | ND | 0.200 | ND | 0.819 | | 1 |
| n-Hexane | ND | 0.200 | ND | 0.704 | | 1 |
| Propylene | ND | 0.200 | ND | 0.344 | | 1 |



Project Name: FORMER DARBY DRUG**Lab Number:** L0813541**Project Number:** AVB0801**Report Date:** 09/25/08**SAMPLE RESULTS****Lab ID:** L0813541-01**Date Collected:** 09/10/08 13:10**Client ID:** PWG-SG-2008-01**Date Received:** 09/11/08**Sample Location:** ROCKVILLE CENTRE**Field Prep:** Not Specified

| Parameter | ppbV | | ug/m3 | | Qualifier | Dilution Factor |
|---|---------|-------|---------|-------|-----------|-----------------|
| | Results | RDL | Results | RDL | | |
| Low Level Volatile Organic Compounds in Air | | | | | | |
| Styrene | 0.948 | 0.200 | 4.03 | 0.851 | | 1 |
| Tetrachloroethene | 4.59 | 0.200 | 31.1 | 1.36 | | 1 |
| Tetrahydrofuran | ND | 0.200 | ND | 0.589 | | 1 |
| Toluene | 1.95 | 0.200 | 7.34 | 0.753 | | 1 |
| trans-1,2-Dichloroethene | ND | 0.200 | ND | 0.792 | | 1 |
| trans-1,3-Dichloropropene | ND | 0.200 | ND | 0.907 | | 1 |
| Trichloroethene | 0.355 | 0.200 | 1.91 | 1.07 | | 1 |
| Trichlorofluoromethane | 0.448 | 0.200 | 2.52 | 1.12 | | 1 |
| Vinyl acetate | ND | 0.200 | ND | 0.704 | | 1 |
| Vinyl bromide | ND | 0.200 | ND | 0.874 | | 1 |
| Vinyl chloride | ND | 0.200 | ND | 0.511 | | 1 |

Project Name: FORMER DARBY DRUG
Project Number: AVB0801

Lab Number: L0813541
Report Date: 09/25/08

SAMPLE RESULTS

Lab ID: L0813541-02
Client ID: PWG-SG-2008-02
Sample Location: ROCKVILLE CENTRE
Matrix: Soil_Vapor
Analytical Method: 48,TO-15
Analytical Date: 09/17/08 16:02
Analyst: RY

Date Collected: 09/10/08 13:30
Date Received: 09/11/08
Field Prep: Not Specified

| Parameter | ppbV | | ug/m3 | | Qualifier | Dilution Factor |
|---|---------|-------|---------|-------|-----------|-----------------|
| | Results | RDL | Results | RDL | | |
| Low Level Volatile Organic Compounds in Air | | | | | | |
| 1,1,1-Trichloroethane | 5.08 | 0.200 | 27.7 | 1.09 | | 1 |
| 1,1,2,2-Tetrachloroethane | ND | 0.200 | ND | 1.37 | | 1 |
| 1,1,2-Trichloroethane | ND | 0.200 | ND | 1.09 | | 1 |
| 1,1-Dichloroethane | ND | 0.200 | ND | 0.809 | | 1 |
| 1,1-Dichloroethene | ND | 0.200 | ND | 0.792 | | 1 |
| 1,2,4-Trichlorobenzene | ND | 0.200 | ND | 1.48 | | 1 |
| 1,2,4-Trimethylbenzene | 1.13 | 0.200 | 5.56 | 0.982 | | 1 |
| 1,2-Dibromoethane | ND | 0.200 | ND | 1.54 | | 1 |
| 1,2-Dichlorobenzene | ND | 0.200 | ND | 1.20 | | 1 |
| 1,2-Dichloroethane | ND | 0.200 | ND | 0.809 | | 1 |
| 1,2-Dichloropropane | ND | 0.200 | ND | 0.924 | | 1 |
| 1,3,5-Trimethybenzene | 0.522 | 0.200 | 2.56 | 0.982 | | 1 |
| 1,3-Butadiene | ND | 0.200 | ND | 0.442 | | 1 |
| 1,3-Dichlorobenzene | ND | 0.200 | ND | 1.20 | | 1 |
| 1,4-Dichlorobenzene | 6.35 | 0.200 | 38.2 | 1.20 | | 1 |
| 1,4-Dioxane | ND | 0.200 | ND | 0.720 | | 1 |
| 2,2,4-Trimethylpentane | ND | 0.200 | ND | 0.934 | | 1 |
| 2-Butanone | 1.02 | 0.200 | 3.01 | 0.589 | | 1 |
| 2-Hexanone | ND | 0.200 | ND | 0.819 | | 1 |
| 3-Chloropropene | ND | 0.200 | ND | 0.626 | | 1 |
| 4-Ethyltoluene | ND | 0.200 | ND | 0.982 | | 1 |
| Acetone | 6.76 | 0.500 | 16.0 | 1.19 | | 1 |
| Benzene | ND | 0.200 | ND | 0.638 | | 1 |
| Benzyl chloride | ND | 0.200 | ND | 1.03 | | 1 |
| Bromodichloromethane | ND | 0.200 | ND | 1.34 | | 1 |



Project Name: FORMER DARBY DRUG**Lab Number:** L0813541**Project Number:** AVB0801**Report Date:** 09/25/08**SAMPLE RESULTS**

Lab ID: L0813541-02

Date Collected: 09/10/08 13:30

Client ID: PWG-SG-2008-02

Date Received: 09/11/08

Sample Location: ROCKVILLE CENTRE

Field Prep: Not Specified

| Parameter | ppbV | | ug/m3 | | Qualifier | Dilution Factor |
|---|---------|-------|---------|-------|-----------|-----------------|
| | Results | RDL | Results | RDL | | |
| Low Level Volatile Organic Compounds in Air | | | | | | |
| Bromoform | ND | 0.200 | ND | 2.06 | | 1 |
| Bromomethane | ND | 0.200 | ND | 0.776 | | 1 |
| Carbon disulfide | ND | 0.200 | ND | 0.622 | | 1 |
| Carbon tetrachloride | ND | 0.200 | ND | 1.26 | | 1 |
| Chlorobenzene | ND | 0.200 | ND | 0.920 | | 1 |
| Chloroethane | ND | 0.200 | ND | 0.527 | | 1 |
| Chloroform | 1.17 | 0.200 | 5.72 | 0.976 | | 1 |
| Chloromethane | ND | 0.200 | ND | 0.413 | | 1 |
| cis-1,2-Dichloroethene | ND | 0.200 | ND | 0.792 | | 1 |
| cis-1,3-Dichloropropene | ND | 0.200 | ND | 0.907 | | 1 |
| Cyclohexane | 0.281 | 0.200 | 0.965 | 0.688 | | 1 |
| Dibromochloromethane | ND | 0.200 | ND | 1.70 | | 1 |
| Dichlorodifluoromethane | 0.966 | 0.200 | 4.78 | 0.988 | | 1 |
| Ethanol | 6.28 | 2.50 | 11.8 | 4.71 | | 1 |
| Ethyl Acetate | ND | 0.500 | ND | 1.80 | | 1 |
| Ethylbenzene | 0.705 | 0.200 | 3.06 | 0.868 | | 1 |
| Freon-113 | ND | 0.200 | ND | 1.53 | | 1 |
| Freon-114 | ND | 0.200 | ND | 1.40 | | 1 |
| Hexachlorobutadiene | ND | 0.200 | ND | 2.13 | | 1 |
| Isopropanol | ND | 0.500 | ND | 1.23 | | 1 |
| Methylene chloride | ND | 0.500 | ND | 1.74 | | 1 |
| 4-Methyl-2-pentanone | ND | 0.200 | ND | 0.819 | | 1 |
| Methyl tert butyl ether | ND | 0.200 | ND | 0.720 | | 1 |
| p/m-Xylene | 2.21 | 0.400 | 9.60 | 1.74 | | 1 |
| o-Xylene | 0.896 | 0.200 | 3.88 | 0.868 | | 1 |
| Heptane | ND | 0.200 | ND | 0.819 | | 1 |
| n-Hexane | ND | 0.200 | ND | 0.704 | | 1 |
| Propylene | ND | 0.200 | ND | 0.344 | | 1 |



Project Name: FORMER DARBY DRUG**Lab Number:** L0813541**Project Number:** AVB0801**Report Date:** 09/25/08**SAMPLE RESULTS****Lab ID:** L0813541-02**Date Collected:** 09/10/08 13:30**Client ID:** PWG-SG-2008-02**Date Received:** 09/11/08**Sample Location:** ROCKVILLE CENTRE**Field Prep:** Not Specified

| Parameter | ppbV | | ug/m3 | | Qualifier | Dilution Factor |
|---|---------|-------|---------|-------|-----------|-----------------|
| | Results | RDL | Results | RDL | | |
| Low Level Volatile Organic Compounds in Air | | | | | | |
| Styrene | 0.973 | 0.200 | 4.14 | 0.851 | | 1 |
| Tetrachloroethene | 6.72 | 0.200 | 45.6 | 1.36 | | 1 |
| Tetrahydrofuran | ND | 0.200 | ND | 0.589 | | 1 |
| Toluene | 2.18 | 0.200 | 8.22 | 0.753 | | 1 |
| trans-1,2-Dichloroethene | ND | 0.200 | ND | 0.792 | | 1 |
| trans-1,3-Dichloropropene | ND | 0.200 | ND | 0.907 | | 1 |
| Trichloroethene | 0.320 | 0.200 | 1.72 | 1.07 | | 1 |
| Trichlorofluoromethane | 1.14 | 0.200 | 6.38 | 1.12 | | 1 |
| Vinyl acetate | ND | 0.200 | ND | 0.704 | | 1 |
| Vinyl bromide | ND | 0.200 | ND | 0.874 | | 1 |
| Vinyl chloride | ND | 0.200 | ND | 0.511 | | 1 |

Project Name: FORMER DARBY DRUG
Project Number: AVB0801

Lab Number: L0813541
Report Date: 09/25/08

SAMPLE RESULTS

Lab ID: L0813541-03
Client ID: PWG-SG-2008-03
Sample Location: ROCKVILLE CENTRE
Matrix: Soil_Vapor
Analytical Method: 48,TO-15
Analytical Date: 09/17/08 16:39
Analyst: RY

Date Collected: 09/10/08 13:34
Date Received: 09/11/08
Field Prep: Not Specified

| Parameter | ppbV | | ug/m3 | | Qualifier | Dilution Factor |
|---|---------|-------|---------|-------|-----------|-----------------|
| | Results | RDL | Results | RDL | | |
| Low Level Volatile Organic Compounds in Air | | | | | | |
| 1,1,1-Trichloroethane | 1.80 | 0.200 | 9.81 | 1.09 | | 1 |
| 1,1,2,2-Tetrachloroethane | ND | 0.200 | ND | 1.37 | | 1 |
| 1,1,2-Trichloroethane | ND | 0.200 | ND | 1.09 | | 1 |
| 1,1-Dichloroethane | ND | 0.200 | ND | 0.809 | | 1 |
| 1,1-Dichloroethene | ND | 0.200 | ND | 0.792 | | 1 |
| 1,2,4-Trichlorobenzene | ND | 0.200 | ND | 1.48 | | 1 |
| 1,2,4-Trimethylbenzene | 1.60 | 0.200 | 7.86 | 0.982 | | 1 |
| 1,2-Dibromoethane | ND | 0.200 | ND | 1.54 | | 1 |
| 1,2-Dichlorobenzene | ND | 0.200 | ND | 1.20 | | 1 |
| 1,2-Dichloroethane | ND | 0.200 | ND | 0.809 | | 1 |
| 1,2-Dichloropropane | ND | 0.200 | ND | 0.924 | | 1 |
| 1,3,5-Trimethybenzene | 0.675 | 0.200 | 3.32 | 0.982 | | 1 |
| 1,3-Butadiene | ND | 0.200 | ND | 0.442 | | 1 |
| 1,3-Dichlorobenzene | ND | 0.200 | ND | 1.20 | | 1 |
| 1,4-Dichlorobenzene | 8.02 | 0.200 | 48.2 | 1.20 | | 1 |
| 1,4-Dioxane | ND | 0.200 | ND | 0.720 | | 1 |
| 2,2,4-Trimethylpentane | ND | 0.200 | ND | 0.934 | | 1 |
| 2-Butanone | 1.40 | 0.200 | 4.14 | 0.589 | | 1 |
| 2-Hexanone | ND | 0.200 | ND | 0.819 | | 1 |
| 3-Chloropropene | ND | 0.200 | ND | 0.626 | | 1 |
| 4-Ethyltoluene | 0.231 | 0.200 | 1.14 | 0.982 | | 1 |
| Acetone | 10.1 | 0.500 | 24.0 | 1.19 | | 1 |
| Benzene | ND | 0.200 | ND | 0.638 | | 1 |
| Benzyl chloride | ND | 0.200 | ND | 1.03 | | 1 |
| Bromodichloromethane | ND | 0.200 | ND | 1.34 | | 1 |



Project Name: FORMER DARBY DRUG**Lab Number:** L0813541**Project Number:** AVB0801**Report Date:** 09/25/08**SAMPLE RESULTS**

Lab ID: L0813541-03

Date Collected: 09/10/08 13:34

Client ID: PWG-SG-2008-03

Date Received: 09/11/08

Sample Location: ROCKVILLE CENTRE

Field Prep: Not Specified

| Parameter | ppbV | | ug/m3 | | Qualifier | Dilution Factor |
|---|---------|-------|---------|-------|-----------|-----------------|
| | Results | RDL | Results | RDL | | |
| Low Level Volatile Organic Compounds in Air | | | | | | |
| Bromoform | ND | 0.200 | ND | 2.06 | | 1 |
| Bromomethane | ND | 0.200 | ND | 0.776 | | 1 |
| Carbon disulfide | 0.971 | 0.200 | 3.02 | 0.622 | | 1 |
| Carbon tetrachloride | ND | 0.200 | ND | 1.26 | | 1 |
| Chlorobenzene | ND | 0.200 | ND | 0.920 | | 1 |
| Chloroethane | ND | 0.200 | ND | 0.527 | | 1 |
| Chloroform | 4.41 | 0.200 | 21.5 | 0.976 | | 1 |
| Chloromethane | 0.204 | 0.200 | 0.420 | 0.413 | | 1 |
| cis-1,2-Dichloroethene | ND | 0.200 | ND | 0.792 | | 1 |
| cis-1,3-Dichloropropene | ND | 0.200 | ND | 0.907 | | 1 |
| Cyclohexane | 0.566 | 0.200 | 1.95 | 0.688 | | 1 |
| Dibromochloromethane | ND | 0.200 | ND | 1.70 | | 1 |
| Dichlorodifluoromethane | 1.93 | 0.200 | 9.56 | 0.988 | | 1 |
| Ethanol | 9.02 | 2.50 | 17.0 | 4.71 | | 1 |
| Ethyl Acetate | ND | 0.500 | ND | 1.80 | | 1 |
| Ethylbenzene | 0.910 | 0.200 | 3.95 | 0.868 | | 1 |
| Freon-113 | 0.216 | 0.200 | 1.66 | 1.53 | | 1 |
| Freon-114 | 0.281 | 0.200 | 1.96 | 1.40 | | 1 |
| Hexachlorobutadiene | ND | 0.200 | ND | 2.13 | | 1 |
| Isopropanol | ND | 0.500 | ND | 1.23 | | 1 |
| Methylene chloride | ND | 0.500 | ND | 1.74 | | 1 |
| 4-Methyl-2-pentanone | ND | 0.200 | ND | 0.819 | | 1 |
| Methyl tert butyl ether | ND | 0.200 | ND | 0.720 | | 1 |
| p/m-Xylene | 2.82 | 0.400 | 12.2 | 1.74 | | 1 |
| o-Xylene | 1.19 | 0.200 | 5.16 | 0.868 | | 1 |
| Heptane | 0.217 | 0.200 | 0.887 | 0.819 | | 1 |
| n-Hexane | 0.402 | 0.200 | 1.42 | 0.704 | | 1 |
| Propylene | 1.22 | 0.200 | 2.10 | 0.344 | | 1 |



Project Name: FORMER DARBY DRUG**Lab Number:** L0813541**Project Number:** AVB0801**Report Date:** 09/25/08**SAMPLE RESULTS****Lab ID:** L0813541-03**Date Collected:** 09/10/08 13:34**Client ID:** PWG-SG-2008-03**Date Received:** 09/11/08**Sample Location:** ROCKVILLE CENTRE**Field Prep:** Not Specified

| Parameter | ppbV | | ug/m3 | | Qualifier | Dilution Factor |
|---|---------|-------|---------|-------|-----------|-----------------|
| | Results | RDL | Results | RDL | | |
| Low Level Volatile Organic Compounds in Air | | | | | | |
| Styrene | 1.19 | 0.200 | 5.05 | 0.851 | | 1 |
| Tetrachloroethene | 3.91 | 0.200 | 26.5 | 1.36 | | 1 |
| Tetrahydrofuran | ND | 0.200 | ND | 0.589 | | 1 |
| Toluene | 2.90 | 0.200 | 10.9 | 0.753 | | 1 |
| trans-1,2-Dichloroethene | ND | 0.200 | ND | 0.792 | | 1 |
| trans-1,3-Dichloropropene | ND | 0.200 | ND | 0.907 | | 1 |
| Trichloroethene | 1.23 | 0.200 | 6.60 | 1.07 | | 1 |
| Trichlorofluoromethane | 3.26 | 0.200 | 18.3 | 1.12 | | 1 |
| Vinyl acetate | ND | 0.200 | ND | 0.704 | | 1 |
| Vinyl bromide | ND | 0.200 | ND | 0.874 | | 1 |
| Vinyl chloride | ND | 0.200 | ND | 0.511 | | 1 |

Project Name: FORMER DARBY DRUG
Project Number: AVB0801

Lab Number: L0813541
Report Date: 09/25/08

SAMPLE RESULTS

Lab ID: L0813541-04
Client ID: PWG-SG-2008-04
Sample Location: ROCKVILLE CENTRE
Matrix: Soil_Vapor
Analytical Method: 48,TO-15
Analytical Date: 09/17/08 17:13
Analyst: RY

Date Collected: 09/10/08 12:29
Date Received: 09/11/08
Field Prep: Not Specified

| Parameter | ppbV | | ug/m3 | | Qualifier | Dilution Factor |
|---|---------|-------|---------|-------|-----------|-----------------|
| | Results | RDL | Results | RDL | | |
| Low Level Volatile Organic Compounds in Air | | | | | | |
| 1,1,1-Trichloroethane | ND | 0.200 | ND | 1.09 | | 1 |
| 1,1,2,2-Tetrachloroethane | ND | 0.200 | ND | 1.37 | | 1 |
| 1,1,2-Trichloroethane | ND | 0.200 | ND | 1.09 | | 1 |
| 1,1-Dichloroethane | ND | 0.200 | ND | 0.809 | | 1 |
| 1,1-Dichloroethene | ND | 0.200 | ND | 0.792 | | 1 |
| 1,2,4-Trichlorobenzene | ND | 0.200 | ND | 1.48 | | 1 |
| 1,2,4-Trimethylbenzene | 0.961 | 0.200 | 4.72 | 0.982 | | 1 |
| 1,2-Dibromoethane | ND | 0.200 | ND | 1.54 | | 1 |
| 1,2-Dichlorobenzene | ND | 0.200 | ND | 1.20 | | 1 |
| 1,2-Dichloroethane | ND | 0.200 | ND | 0.809 | | 1 |
| 1,2-Dichloropropane | ND | 0.200 | ND | 0.924 | | 1 |
| 1,3,5-Trimethybenzene | 0.464 | 0.200 | 2.28 | 0.982 | | 1 |
| 1,3-Butadiene | ND | 0.200 | ND | 0.442 | | 1 |
| 1,3-Dichlorobenzene | ND | 0.200 | ND | 1.20 | | 1 |
| 1,4-Dichlorobenzene | 5.92 | 0.200 | 35.5 | 1.20 | | 1 |
| 1,4-Dioxane | ND | 0.200 | ND | 0.720 | | 1 |
| 2,2,4-Trimethylpentane | ND | 0.200 | ND | 0.934 | | 1 |
| 2-Butanone | 12.6 | 0.200 | 37.1 | 0.589 | | 1 |
| 2-Hexanone | 2.28 | 0.200 | 9.32 | 0.819 | | 1 |
| 3-Chloropropene | ND | 0.200 | ND | 0.626 | | 1 |
| 4-Ethyltoluene | ND | 0.200 | ND | 0.982 | | 1 |
| Acetone | 47.9 | 0.500 | 114 | 1.19 | | 1 |
| Benzene | 0.259 | 0.200 | 0.828 | 0.638 | | 1 |
| Benzyl chloride | ND | 0.200 | ND | 1.03 | | 1 |
| Bromodichloromethane | ND | 0.200 | ND | 1.34 | | 1 |



Project Name: FORMER DARBY DRUG**Lab Number:** L0813541**Project Number:** AVB0801**Report Date:** 09/25/08**SAMPLE RESULTS**

Lab ID: L0813541-04

Date Collected: 09/10/08 12:29

Client ID: PWG-SG-2008-04

Date Received: 09/11/08

Sample Location: ROCKVILLE CENTRE

Field Prep: Not Specified

| Parameter | ppbV | | ug/m3 | | Qualifier | Dilution Factor |
|---|---------|-------|---------|-------|-----------|-----------------|
| | Results | RDL | Results | RDL | | |
| Low Level Volatile Organic Compounds in Air | | | | | | |
| Bromoform | ND | 0.200 | ND | 2.06 | | 1 |
| Bromomethane | ND | 0.200 | ND | 0.776 | | 1 |
| Carbon disulfide | 0.230 | 0.200 | 0.715 | 0.622 | | 1 |
| Carbon tetrachloride | ND | 0.200 | ND | 1.26 | | 1 |
| Chlorobenzene | ND | 0.200 | ND | 0.920 | | 1 |
| Chloroethane | ND | 0.200 | ND | 0.527 | | 1 |
| Chloroform | 0.397 | 0.200 | 1.94 | 0.976 | | 1 |
| Chloromethane | ND | 0.200 | ND | 0.413 | | 1 |
| cis-1,2-Dichloroethene | ND | 0.200 | ND | 0.792 | | 1 |
| cis-1,3-Dichloropropene | ND | 0.200 | ND | 0.907 | | 1 |
| Cyclohexane | 0.398 | 0.200 | 1.37 | 0.688 | | 1 |
| Dibromochloromethane | ND | 0.200 | ND | 1.70 | | 1 |
| Dichlorodifluoromethane | 0.699 | 0.200 | 3.46 | 0.988 | | 1 |
| Ethanol | 9.70 | 2.50 | 18.2 | 4.71 | | 1 |
| Ethyl Acetate | ND | 0.500 | ND | 1.80 | | 1 |
| Ethylbenzene | 0.889 | 0.200 | 3.86 | 0.868 | | 1 |
| Freon-113 | 0.216 | 0.200 | 1.65 | 1.53 | | 1 |
| Freon-114 | ND | 0.200 | ND | 1.40 | | 1 |
| Hexachlorobutadiene | ND | 0.200 | ND | 2.13 | | 1 |
| Isopropanol | 1.53 | 0.500 | 3.75 | 1.23 | | 1 |
| Methylene chloride | ND | 0.500 | ND | 1.74 | | 1 |
| 4-Methyl-2-pentanone | ND | 0.200 | ND | 0.819 | | 1 |
| Methyl tert butyl ether | ND | 0.200 | ND | 0.720 | | 1 |
| p/m-Xylene | 2.76 | 0.400 | 12.0 | 1.74 | | 1 |
| o-Xylene | 1.15 | 0.200 | 5.00 | 0.868 | | 1 |
| Heptane | 0.295 | 0.200 | 1.21 | 0.819 | | 1 |
| n-Hexane | 0.248 | 0.200 | 0.872 | 0.704 | | 1 |
| Propylene | 1.90 | 0.200 | 3.28 | 0.344 | | 1 |



Project Name: FORMER DARBY DRUG**Lab Number:** L0813541**Project Number:** AVB0801**Report Date:** 09/25/08**SAMPLE RESULTS****Lab ID:** L0813541-04**Date Collected:** 09/10/08 12:29**Client ID:** PWG-SG-2008-04**Date Received:** 09/11/08**Sample Location:** ROCKVILLE CENTRE**Field Prep:** Not Specified

| Parameter | ppbV | | ug/m3 | | Qualifier | Dilution Factor |
|---|---------|-------|---------|-------|-----------|-----------------|
| | Results | RDL | Results | RDL | | |
| Low Level Volatile Organic Compounds in Air | | | | | | |
| Styrene | 1.09 | 0.200 | 4.62 | 0.851 | | 1 |
| Tetrachloroethene | 3.30 | 0.200 | 22.4 | 1.36 | | 1 |
| Tetrahydrofuran | ND | 0.200 | ND | 0.589 | | 1 |
| Toluene | 2.84 | 0.200 | 10.7 | 0.753 | | 1 |
| trans-1,2-Dichloroethene | ND | 0.200 | ND | 0.792 | | 1 |
| trans-1,3-Dichloropropene | ND | 0.200 | ND | 0.907 | | 1 |
| Trichloroethene | 0.404 | 0.200 | 2.17 | 1.07 | | 1 |
| Trichlorofluoromethane | 0.824 | 0.200 | 4.62 | 1.12 | | 1 |
| Vinyl acetate | ND | 0.200 | ND | 0.704 | | 1 |
| Vinyl bromide | ND | 0.200 | ND | 0.874 | | 1 |
| Vinyl chloride | ND | 0.200 | ND | 0.511 | | 1 |

Project Name: FORMER DARBY DRUG
Project Number: AVB0801

Lab Number: L0813541
Report Date: 09/25/08

SAMPLE RESULTS

Lab ID: L0813541-05
Client ID: PWG-SG-2008-05
Sample Location: ROCKVILLE CENTRE
Matrix: Soil_Vapor
Analytical Method: 48,TO-15
Analytical Date: 09/17/08 17:44
Analyst: RY

Date Collected: 09/10/08 12:31
Date Received: 09/11/08
Field Prep: Not Specified

| Parameter | ppbV | | ug/m3 | | Qualifier | Dilution Factor |
|---|---------|------|---------|------|-----------|-----------------|
| | Results | RDL | Results | RDL | | |
| Low Level Volatile Organic Compounds in Air | | | | | | |
| 1,1,1-Trichloroethane | ND | 2.00 | ND | 10.9 | | 10 |
| 1,1,2,2-Tetrachloroethane | ND | 2.00 | ND | 13.7 | | 10 |
| 1,1,2-Trichloroethane | ND | 2.00 | ND | 10.9 | | 10 |
| 1,1-Dichloroethane | ND | 2.00 | ND | 8.09 | | 10 |
| 1,1-Dichloroethene | ND | 2.00 | ND | 7.92 | | 10 |
| 1,2,4-Trichlorobenzene | ND | 2.00 | ND | 14.8 | | 10 |
| 1,2,4-Trimethylbenzene | ND | 2.00 | ND | 9.82 | | 10 |
| 1,2-Dibromoethane | ND | 2.00 | ND | 15.4 | | 10 |
| 1,2-Dichlorobenzene | ND | 2.00 | ND | 12.0 | | 10 |
| 1,2-Dichloroethane | ND | 2.00 | ND | 8.09 | | 10 |
| 1,2-Dichloropropane | ND | 2.00 | ND | 9.24 | | 10 |
| 1,3,5-Trimethybenzene | ND | 2.00 | ND | 9.82 | | 10 |
| 1,3-Butadiene | ND | 2.00 | ND | 4.42 | | 10 |
| 1,3-Dichlorobenzene | ND | 2.00 | ND | 12.0 | | 10 |
| 1,4-Dichlorobenzene | 2.88 | 2.00 | 17.3 | 12.0 | | 10 |
| 1,4-Dioxane | ND | 2.00 | ND | 7.20 | | 10 |
| 2,2,4-Trimethylpentane | ND | 2.00 | ND | 9.34 | | 10 |
| 2-Butanone | 143 | 2.00 | 421 | 5.89 | | 10 |
| 2-Hexanone | 2.31 | 2.00 | 9.46 | 8.19 | | 10 |
| 3-Chloropropene | ND | 2.00 | ND | 6.26 | | 10 |
| 4-Ethyltoluene | ND | 2.00 | ND | 9.82 | | 10 |
| Acetone | >1000 | 5 | >2375 | 11.9 | | 10 |
| Benzene | ND | 2.00 | ND | 6.38 | | 10 |
| Benzyl chloride | ND | 2.00 | ND | 10.3 | | 10 |
| Bromodichloromethane | ND | 2.00 | ND | 13.4 | | 10 |



Project Name: FORMER DARBY DRUG**Lab Number:** L0813541**Project Number:** AVB0801**Report Date:** 09/25/08**SAMPLE RESULTS****Lab ID:** L0813541-05**Date Collected:** 09/10/08 12:31**Client ID:** PWG-SG-2008-05**Date Received:** 09/11/08**Sample Location:** ROCKVILLE CENTRE**Field Prep:** Not Specified

| Parameter | ppbV | | ug/m3 | | Qualifier | Dilution Factor |
|---|---------|------|---------|------|-----------|-----------------|
| | Results | RDL | Results | RDL | | |
| Low Level Volatile Organic Compounds in Air | | | | | | |
| Bromoform | ND | 2.00 | ND | 20.6 | | 10 |
| Bromomethane | ND | 2.00 | ND | 7.76 | | 10 |
| Carbon disulfide | ND | 2.00 | ND | 6.22 | | 10 |
| Carbon tetrachloride | ND | 2.00 | ND | 12.6 | | 10 |
| Chlorobenzene | ND | 2.00 | ND | 9.20 | | 10 |
| Chloroethane | ND | 2.00 | ND | 5.27 | | 10 |
| Chloroform | ND | 2.00 | ND | 9.76 | | 10 |
| Chloromethane | ND | 2.00 | ND | 4.13 | | 10 |
| cis-1,2-Dichloroethene | ND | 2.00 | ND | 7.92 | | 10 |
| cis-1,3-Dichloropropene | ND | 2.00 | ND | 9.07 | | 10 |
| Cyclohexane | ND | 2.00 | ND | 6.88 | | 10 |
| Dibromochloromethane | ND | 2.00 | ND | 17.0 | | 10 |
| Dichlorodifluoromethane | ND | 2.00 | ND | 9.88 | | 10 |
| Ethanol | 110 | 25.0 | 206 | 47.1 | | 10 |
| Ethyl Acetate | ND | 5.00 | ND | 18.0 | | 10 |
| Ethylbenzene | ND | 2.00 | ND | 8.68 | | 10 |
| Freon-113 | ND | 2.00 | ND | 15.3 | | 10 |
| Freon-114 | ND | 2.00 | ND | 14.0 | | 10 |
| Hexachlorobutadiene | ND | 2.00 | ND | 21.3 | | 10 |
| Isopropanol | 53.0 | 5.00 | 130 | 12.3 | | 10 |
| Methylene chloride | ND | 5.00 | ND | 17.4 | | 10 |
| 4-Methyl-2-pentanone | ND | 2.00 | ND | 8.19 | | 10 |
| Methyl tert butyl ether | ND | 2.00 | ND | 7.20 | | 10 |
| p/m-Xylene | ND | 4.00 | ND | 17.4 | | 10 |
| o-Xylene | ND | 2.00 | ND | 8.68 | | 10 |
| Heptane | ND | 2.00 | ND | 8.19 | | 10 |
| n-Hexane | ND | 2.00 | ND | 7.04 | | 10 |
| Propylene | 157 | 2.00 | 270 | 3.44 | | 10 |



Project Name: FORMER DARBY DRUG**Lab Number:** L0813541**Project Number:** AVB0801**Report Date:** 09/25/08**SAMPLE RESULTS****Lab ID:** L0813541-05**Date Collected:** 09/10/08 12:31**Client ID:** PWG-SG-2008-05**Date Received:** 09/11/08**Sample Location:** ROCKVILLE CENTRE**Field Prep:** Not Specified

| Parameter | ppbV | | ug/m3 | | Qualifier | Dilution Factor |
|---|---------|------|---------|------|-----------|-----------------|
| | Results | RDL | Results | RDL | | |
| Low Level Volatile Organic Compounds in Air | | | | | | |
| Styrene | ND | 2.00 | ND | 8.51 | | 10 |
| Tetrachloroethene | 2.95 | 2.00 | 20.0 | 13.6 | | 10 |
| Tetrahydrofuran | ND | 2.00 | ND | 5.89 | | 10 |
| Toluene | 3.75 | 2.00 | 14.1 | 7.53 | | 10 |
| trans-1,2-Dichloroethene | ND | 2.00 | ND | 7.92 | | 10 |
| trans-1,3-Dichloropropene | ND | 2.00 | ND | 9.07 | | 10 |
| Trichloroethene | ND | 2.00 | ND | 10.7 | | 10 |
| Trichlorofluoromethane | ND | 2.00 | ND | 11.2 | | 10 |
| Vinyl acetate | ND | 2.00 | ND | 7.04 | | 10 |
| Vinyl bromide | ND | 2.00 | ND | 8.74 | | 10 |
| Vinyl chloride | ND | 2.00 | ND | 5.11 | | 10 |

Project Name: FORMER DARBY DRUG
Project Number: AVB0801

Lab Number: L0813541
Report Date: 09/25/08

SAMPLE RESULTS

Lab ID: L0813541-05 R
Client ID: PWG-SG-2008-05
Sample Location: ROCKVILLE CENTRE
Matrix: Soil_Vapor
Analytical Method: 48,TO-15
Analytical Date: 09/17/08 22:46
Analyst: RY

Date Collected: 09/10/08 12:31
Date Received: 09/11/08
Field Prep: Not Specified

| Parameter | ppbV | | ug/m3 | | Qualifier | Dilution Factor |
|---|---------|------|---------|------|-----------|-----------------|
| | Results | RDL | Results | RDL | | |
| Low Level Volatile Organic Compounds in Air | | | | | | |
| Acetone | 800 | 12.5 | 1900 | 29.7 | | 25 |

Project Name: FORMER DARBY DRUG
Project Number: AVB0801

Lab Number: L0813541
Report Date: 09/25/08

SAMPLE RESULTS

Lab ID: L0813541-06
Client ID: PWG-SG-2008-06
Sample Location: ROCKVILLE CENTRE
Matrix: Soil_Vapor
Analytical Method: 48,TO-15
Analytical Date: 09/17/08 18:50
Analyst: RY

Date Collected: 09/10/08 12:34
Date Received: 09/11/08
Field Prep: Not Specified

| Parameter | ppbV | | ug/m3 | | Qualifier | Dilution Factor |
|---|---------|-------|---------|-------|-----------|-----------------|
| | Results | RDL | Results | RDL | | |
| Low Level Volatile Organic Compounds in Air | | | | | | |
| 1,1,1-Trichloroethane | ND | 0.200 | ND | 1.09 | | 1 |
| 1,1,2,2-Tetrachloroethane | ND | 0.200 | ND | 1.37 | | 1 |
| 1,1,2-Trichloroethane | ND | 0.200 | ND | 1.09 | | 1 |
| 1,1-Dichloroethane | ND | 0.200 | ND | 0.809 | | 1 |
| 1,1-Dichloroethene | ND | 0.200 | ND | 0.792 | | 1 |
| 1,2,4-Trichlorobenzene | ND | 0.200 | ND | 1.48 | | 1 |
| 1,2,4-Trimethylbenzene | 0.998 | 0.200 | 4.90 | 0.982 | | 1 |
| 1,2-Dibromoethane | ND | 0.200 | ND | 1.54 | | 1 |
| 1,2-Dichlorobenzene | ND | 0.200 | ND | 1.20 | | 1 |
| 1,2-Dichloroethane | ND | 0.200 | ND | 0.809 | | 1 |
| 1,2-Dichloropropane | ND | 0.200 | ND | 0.924 | | 1 |
| 1,3,5-Trimethybenzene | 0.454 | 0.200 | 2.23 | 0.982 | | 1 |
| 1,3-Butadiene | ND | 0.200 | ND | 0.442 | | 1 |
| 1,3-Dichlorobenzene | ND | 0.200 | ND | 1.20 | | 1 |
| 1,4-Dichlorobenzene | 5.68 | 0.200 | 34.1 | 1.20 | | 1 |
| 1,4-Dioxane | ND | 0.200 | ND | 0.720 | | 1 |
| 2,2,4-Trimethylpentane | ND | 0.200 | ND | 0.934 | | 1 |
| 2-Butanone | 13.6 | 0.200 | 40.1 | 0.589 | | 1 |
| 2-Hexanone | 3.00 | 0.200 | 12.2 | 0.819 | | 1 |
| 3-Chloropropene | ND | 0.200 | ND | 0.626 | | 1 |
| 4-Ethyltoluene | ND | 0.200 | ND | 0.982 | | 1 |
| Acetone | 45.7 | 0.500 | 108 | 1.19 | | 1 |
| Benzene | ND | 0.200 | ND | 0.638 | | 1 |
| Benzyl chloride | ND | 0.200 | ND | 1.03 | | 1 |
| Bromodichloromethane | ND | 0.200 | ND | 1.34 | | 1 |



Project Name: FORMER DARBY DRUG**Lab Number:** L0813541**Project Number:** AVB0801**Report Date:** 09/25/08**SAMPLE RESULTS**

Lab ID: L0813541-06

Date Collected: 09/10/08 12:34

Client ID: PWG-SG-2008-06

Date Received: 09/11/08

Sample Location: ROCKVILLE CENTRE

Field Prep: Not Specified

| Parameter | ppbV | | ug/m3 | | Qualifier | Dilution Factor |
|---|---------|-------|---------|-------|-----------|-----------------|
| | Results | RDL | Results | RDL | | |
| Low Level Volatile Organic Compounds in Air | | | | | | |
| Bromoform | ND | 0.200 | ND | 2.06 | | 1 |
| Bromomethane | ND | 0.200 | ND | 0.776 | | 1 |
| Carbon disulfide | ND | 0.200 | ND | 0.622 | | 1 |
| Carbon tetrachloride | ND | 0.200 | ND | 1.26 | | 1 |
| Chlorobenzene | ND | 0.200 | ND | 0.920 | | 1 |
| Chloroethane | ND | 0.200 | ND | 0.527 | | 1 |
| Chloroform | ND | 0.200 | ND | 0.976 | | 1 |
| Chloromethane | ND | 0.200 | ND | 0.413 | | 1 |
| cis-1,2-Dichloroethene | ND | 0.200 | ND | 0.792 | | 1 |
| cis-1,3-Dichloropropene | ND | 0.200 | ND | 0.907 | | 1 |
| Cyclohexane | 0.306 | 0.200 | 1.05 | 0.688 | | 1 |
| Dibromochloromethane | ND | 0.200 | ND | 1.70 | | 1 |
| Dichlorodifluoromethane | 0.562 | 0.200 | 2.78 | 0.988 | | 1 |
| Ethanol | 9.56 | 2.50 | 18.0 | 4.71 | | 1 |
| Ethyl Acetate | ND | 0.500 | ND | 1.80 | | 1 |
| Ethylbenzene | 1.82 | 0.200 | 7.92 | 0.868 | | 1 |
| Freon-113 | ND | 0.200 | ND | 1.53 | | 1 |
| Freon-114 | ND | 0.200 | ND | 1.40 | | 1 |
| Hexachlorobutadiene | ND | 0.200 | ND | 2.13 | | 1 |
| Isopropanol | 1.12 | 0.500 | 2.74 | 1.23 | | 1 |
| Methylene chloride | ND | 0.500 | ND | 1.74 | | 1 |
| 4-Methyl-2-pentanone | ND | 0.200 | ND | 0.819 | | 1 |
| Methyl tert butyl ether | ND | 0.200 | ND | 0.720 | | 1 |
| p/m-Xylene | 6.06 | 0.400 | 26.3 | 1.74 | | 1 |
| o-Xylene | 2.24 | 0.200 | 9.74 | 0.868 | | 1 |
| Heptane | 0.365 | 0.200 | 1.49 | 0.819 | | 1 |
| n-Hexane | 0.258 | 0.200 | 0.909 | 0.704 | | 1 |
| Propylene | 1.70 | 0.200 | 2.92 | 0.344 | | 1 |



Project Name: FORMER DARBY DRUG**Lab Number:** L0813541**Project Number:** AVB0801**Report Date:** 09/25/08**SAMPLE RESULTS****Lab ID:** L0813541-06**Date Collected:** 09/10/08 12:34**Client ID:** PWG-SG-2008-06**Date Received:** 09/11/08**Sample Location:** ROCKVILLE CENTRE**Field Prep:** Not Specified

| Parameter | ppbV | | ug/m3 | | Qualifier | Dilution Factor |
|---|---------|-------|---------|-------|-----------|-----------------|
| | Results | RDL | Results | RDL | | |
| Low Level Volatile Organic Compounds in Air | | | | | | |
| Styrene | 0.918 | 0.200 | 3.90 | 0.851 | | 1 |
| Tetrachloroethene | 1.05 | 0.200 | 7.12 | 1.36 | | 1 |
| Tetrahydrofuran | ND | 0.200 | ND | 0.589 | | 1 |
| Toluene | 2.91 | 0.200 | 11.0 | 0.753 | | 1 |
| trans-1,2-Dichloroethene | ND | 0.200 | ND | 0.792 | | 1 |
| trans-1,3-Dichloropropene | ND | 0.200 | ND | 0.907 | | 1 |
| Trichloroethene | 0.278 | 0.200 | 1.49 | 1.07 | | 1 |
| Trichlorofluoromethane | 0.326 | 0.200 | 1.83 | 1.12 | | 1 |
| Vinyl acetate | ND | 0.200 | ND | 0.704 | | 1 |
| Vinyl bromide | ND | 0.200 | ND | 0.874 | | 1 |
| Vinyl chloride | ND | 0.200 | ND | 0.511 | | 1 |

Project Name: FORMER DARBY DRUG
Project Number: AVB0801

Lab Number: L0813541
Report Date: 09/25/08

SAMPLE RESULTS

Lab ID: L0813541-07
Client ID: PWG-SG-2008-07
Sample Location: ROCKVILLE CENTRE
Matrix: Soil_Vapor
Analytical Method: 48,TO-15
Analytical Date: 09/17/08 19:23
Analyst: RY

Date Collected: 09/10/08 12:40
Date Received: 09/11/08
Field Prep: Not Specified

| Parameter | ppbV | | ug/m3 | | Qualifier | Dilution Factor |
|---|---------|------|---------|------|-----------|-----------------|
| | Results | RDL | Results | RDL | | |
| Low Level Volatile Organic Compounds in Air | | | | | | |
| 1,1,1-Trichloroethane | ND | 2.00 | ND | 10.9 | | 10 |
| 1,1,2,2-Tetrachloroethane | ND | 2.00 | ND | 13.7 | | 10 |
| 1,1,2-Trichloroethane | ND | 2.00 | ND | 10.9 | | 10 |
| 1,1-Dichloroethane | ND | 2.00 | ND | 8.09 | | 10 |
| 1,1-Dichloroethene | ND | 2.00 | ND | 7.92 | | 10 |
| 1,2,4-Trichlorobenzene | ND | 2.00 | ND | 14.8 | | 10 |
| 1,2,4-Trimethylbenzene | ND | 2.00 | ND | 9.82 | | 10 |
| 1,2-Dibromoethane | ND | 2.00 | ND | 15.4 | | 10 |
| 1,2-Dichlorobenzene | ND | 2.00 | ND | 12.0 | | 10 |
| 1,2-Dichloroethane | ND | 2.00 | ND | 8.09 | | 10 |
| 1,2-Dichloropropane | ND | 2.00 | ND | 9.24 | | 10 |
| 1,3,5-Trimethybenzene | ND | 2.00 | ND | 9.82 | | 10 |
| 1,3-Butadiene | ND | 2.00 | ND | 4.42 | | 10 |
| 1,3-Dichlorobenzene | ND | 2.00 | ND | 12.0 | | 10 |
| 1,4-Dichlorobenzene | 3.79 | 2.00 | 22.8 | 12.0 | | 10 |
| 1,4-Dioxane | ND | 2.00 | ND | 7.20 | | 10 |
| 2,2,4-Trimethylpentane | ND | 2.00 | ND | 9.34 | | 10 |
| 2-Butanone | 254 | 2.00 | 749 | 5.89 | | 10 |
| 2-Hexanone | 5.58 | 2.00 | 22.8 | 8.19 | | 10 |
| 3-Chloropropene | ND | 2.00 | ND | 6.26 | | 10 |
| 4-Ethyltoluene | ND | 2.00 | ND | 9.82 | | 10 |
| Acetone | >1000 | 5 | >2375 | 11.9 | | 10 |
| Benzene | ND | 2.00 | ND | 6.38 | | 10 |
| Benzyl chloride | ND | 2.00 | ND | 10.3 | | 10 |
| Bromodichloromethane | ND | 2.00 | ND | 13.4 | | 10 |



Project Name: FORMER DARBY DRUG**Lab Number:** L0813541**Project Number:** AVB0801**Report Date:** 09/25/08**SAMPLE RESULTS**

Lab ID: L0813541-07

Date Collected: 09/10/08 12:40

Client ID: PWG-SG-2008-07

Date Received: 09/11/08

Sample Location: ROCKVILLE CENTRE

Field Prep: Not Specified

| Parameter | ppbV | | ug/m3 | | Qualifier | Dilution Factor |
|---|---------|------|---------|------|-----------|-----------------|
| | Results | RDL | Results | RDL | | |
| Low Level Volatile Organic Compounds in Air | | | | | | |
| Bromoform | ND | 2.00 | ND | 20.6 | | 10 |
| Bromomethane | ND | 2.00 | ND | 7.76 | | 10 |
| Carbon disulfide | ND | 2.00 | ND | 6.22 | | 10 |
| Carbon tetrachloride | ND | 2.00 | ND | 12.6 | | 10 |
| Chlorobenzene | ND | 2.00 | ND | 9.20 | | 10 |
| Chloroethane | ND | 2.00 | ND | 5.27 | | 10 |
| Chloroform | ND | 2.00 | ND | 9.76 | | 10 |
| Chloromethane | ND | 2.00 | ND | 4.13 | | 10 |
| cis-1,2-Dichloroethene | ND | 2.00 | ND | 7.92 | | 10 |
| cis-1,3-Dichloropropene | ND | 2.00 | ND | 9.07 | | 10 |
| Cyclohexane | ND | 2.00 | ND | 6.88 | | 10 |
| Dibromochloromethane | ND | 2.00 | ND | 17.0 | | 10 |
| Dichlorodifluoromethane | ND | 2.00 | ND | 9.88 | | 10 |
| Ethanol | 242 | 25.0 | 455 | 47.1 | | 10 |
| Ethyl Acetate | ND | 5.00 | ND | 18.0 | | 10 |
| Ethylbenzene | ND | 2.00 | ND | 8.68 | | 10 |
| Freon-113 | ND | 2.00 | ND | 15.3 | | 10 |
| Freon-114 | ND | 2.00 | ND | 14.0 | | 10 |
| Hexachlorobutadiene | ND | 2.00 | ND | 21.3 | | 10 |
| Isopropanol | 94.4 | 5.00 | 232 | 12.3 | | 10 |
| Methylene chloride | ND | 5.00 | ND | 17.4 | | 10 |
| 4-Methyl-2-pentanone | ND | 2.00 | ND | 8.19 | | 10 |
| Methyl tert butyl ether | ND | 2.00 | ND | 7.20 | | 10 |
| p/m-Xylene | 5.24 | 4.00 | 22.7 | 17.4 | | 10 |
| o-Xylene | ND | 2.00 | ND | 8.68 | | 10 |
| Heptane | ND | 2.00 | ND | 8.19 | | 10 |
| n-Hexane | ND | 2.00 | ND | 7.04 | | 10 |
| Propylene | 227 | 2.00 | 390 | 3.44 | | 10 |



Project Name: FORMER DARBY DRUG**Lab Number:** L0813541**Project Number:** AVB0801**Report Date:** 09/25/08**SAMPLE RESULTS**

Lab ID: L0813541-07

Date Collected: 09/10/08 12:40

Client ID: PWG-SG-2008-07

Date Received: 09/11/08

Sample Location: ROCKVILLE CENTRE

Field Prep: Not Specified

| Parameter | ppbV | | ug/m3 | | Qualifier | Dilution Factor |
|---|---------|------|---------|------|-----------|-----------------|
| | Results | RDL | Results | RDL | | |
| Low Level Volatile Organic Compounds in Air | | | | | | |
| Styrene | ND | 2.00 | ND | 8.51 | | 10 |
| Tetrachloroethene | 9.18 | 2.00 | 62.2 | 13.6 | | 10 |
| Tetrahydrofuran | ND | 2.00 | ND | 5.89 | | 10 |
| Toluene | 2.82 | 2.00 | 10.6 | 7.53 | | 10 |
| trans-1,2-Dichloroethene | ND | 2.00 | ND | 7.92 | | 10 |
| trans-1,3-Dichloropropene | ND | 2.00 | ND | 9.07 | | 10 |
| Trichloroethene | ND | 2.00 | ND | 10.7 | | 10 |
| Trichlorofluoromethane | ND | 2.00 | ND | 11.2 | | 10 |
| Vinyl acetate | ND | 2.00 | ND | 7.04 | | 10 |
| Vinyl bromide | ND | 2.00 | ND | 8.74 | | 10 |
| Vinyl chloride | ND | 2.00 | ND | 5.11 | | 10 |

Project Name: FORMER DARBY DRUG**Lab Number:** L0813541**Project Number:** AVB0801**Report Date:** 09/25/08**SAMPLE RESULTS**

Lab ID: L0813541-07 R

Date Collected: 09/10/08 12:40

Client ID: PWG-SG-2008-07

Date Received: 09/11/08

Sample Location: ROCKVILLE CENTRE

Field Prep: Not Specified

Matrix: Soil_Vapor

Analytical Method: 48,TO-15

Analytical Date: 09/18/08 19:45

Analyst: RY

| Parameter | ppbV | | ug/m3 | | Qualifier | Dilution Factor |
|---|---------|------|---------|------|-----------|-----------------|
| | Results | RDL | Results | RDL | | |
| Low Level Volatile Organic Compounds in Air | | | | | | |
| Acetone | 1630 | 12.5 | 3870 | 29.7 | | 25 |

Project Name: FORMER DARBY DRUG
Project Number: AVB0801

Lab Number: L0813541
Report Date: 09/25/08

SAMPLE RESULTS

Lab ID: L0813541-08
Client ID: PWG-SG-2008-08
Sample Location: ROCKVILLE CENTRE
Matrix: Soil_Vapor
Analytical Method: 48,TO-15
Analytical Date: 09/17/08 19:57
Analyst: RY

Date Collected: 09/10/08 12:42
Date Received: 09/11/08
Field Prep: Not Specified

| Parameter | ppbV | | ug/m3 | | Qualifier | Dilution Factor |
|---|---------|-------|---------|-------|-----------|-----------------|
| | Results | RDL | Results | RDL | | |
| Low Level Volatile Organic Compounds in Air | | | | | | |
| 1,1,1-Trichloroethane | ND | 0.200 | ND | 1.09 | | 1 |
| 1,1,2,2-Tetrachloroethane | ND | 0.200 | ND | 1.37 | | 1 |
| 1,1,2-Trichloroethane | ND | 0.200 | ND | 1.09 | | 1 |
| 1,1-Dichloroethane | ND | 0.200 | ND | 0.809 | | 1 |
| 1,1-Dichloroethene | ND | 0.200 | ND | 0.792 | | 1 |
| 1,2,4-Trichlorobenzene | ND | 0.200 | ND | 1.48 | | 1 |
| 1,2,4-Trimethylbenzene | 0.789 | 0.200 | 3.88 | 0.982 | | 1 |
| 1,2-Dibromoethane | ND | 0.200 | ND | 1.54 | | 1 |
| 1,2-Dichlorobenzene | ND | 0.200 | ND | 1.20 | | 1 |
| 1,2-Dichloroethane | ND | 0.200 | ND | 0.809 | | 1 |
| 1,2-Dichloropropane | ND | 0.200 | ND | 0.924 | | 1 |
| 1,3,5-Trimethybenzene | 0.377 | 0.200 | 1.85 | 0.982 | | 1 |
| 1,3-Butadiene | ND | 0.200 | ND | 0.442 | | 1 |
| 1,3-Dichlorobenzene | ND | 0.200 | ND | 1.20 | | 1 |
| 1,4-Dichlorobenzene | 4.05 | 0.200 | 24.3 | 1.20 | | 1 |
| 1,4-Dioxane | ND | 0.200 | ND | 0.720 | | 1 |
| 2,2,4-Trimethylpentane | ND | 0.200 | ND | 0.934 | | 1 |
| 2-Butanone | 4.21 | 0.200 | 12.4 | 0.589 | | 1 |
| 2-Hexanone | 0.940 | 0.200 | 3.84 | 0.819 | | 1 |
| 3-Chloropropene | ND | 0.200 | ND | 0.626 | | 1 |
| 4-Ethyltoluene | ND | 0.200 | ND | 0.982 | | 1 |
| Acetone | 15.2 | 0.500 | 36.0 | 1.19 | | 1 |
| Benzene | ND | 0.200 | ND | 0.638 | | 1 |
| Benzyl chloride | ND | 0.200 | ND | 1.03 | | 1 |
| Bromodichloromethane | ND | 0.200 | ND | 1.34 | | 1 |



Project Name: FORMER DARBY DRUG**Lab Number:** L0813541**Project Number:** AVB0801**Report Date:** 09/25/08**SAMPLE RESULTS**

Lab ID: L0813541-08

Date Collected: 09/10/08 12:42

Client ID: PWG-SG-2008-08

Date Received: 09/11/08

Sample Location: ROCKVILLE CENTRE

Field Prep: Not Specified

| Parameter | ppbV | | ug/m3 | | Qualifier | Dilution Factor |
|---|---------|-------|---------|-------|-----------|-----------------|
| | Results | RDL | Results | RDL | | |
| Low Level Volatile Organic Compounds in Air | | | | | | |
| Bromoform | ND | 0.200 | ND | 2.06 | | 1 |
| Bromomethane | ND | 0.200 | ND | 0.776 | | 1 |
| Carbon disulfide | ND | 0.200 | ND | 0.622 | | 1 |
| Carbon tetrachloride | ND | 0.200 | ND | 1.26 | | 1 |
| Chlorobenzene | ND | 0.200 | ND | 0.920 | | 1 |
| Chloroethane | ND | 0.200 | ND | 0.527 | | 1 |
| Chloroform | ND | 0.200 | ND | 0.976 | | 1 |
| Chloromethane | ND | 0.200 | ND | 0.413 | | 1 |
| cis-1,2-Dichloroethene | ND | 0.200 | ND | 0.792 | | 1 |
| cis-1,3-Dichloropropene | ND | 0.200 | ND | 0.907 | | 1 |
| Cyclohexane | 0.284 | 0.200 | 0.975 | 0.688 | | 1 |
| Dibromochloromethane | ND | 0.200 | ND | 1.70 | | 1 |
| Dichlorodifluoromethane | 0.598 | 0.200 | 2.95 | 0.988 | | 1 |
| Ethanol | 4.37 | 2.50 | 8.23 | 4.71 | | 1 |
| Ethyl Acetate | ND | 0.500 | ND | 1.80 | | 1 |
| Ethylbenzene | 0.733 | 0.200 | 3.18 | 0.868 | | 1 |
| Freon-113 | ND | 0.200 | ND | 1.53 | | 1 |
| Freon-114 | ND | 0.200 | ND | 1.40 | | 1 |
| Hexachlorobutadiene | ND | 0.200 | ND | 2.13 | | 1 |
| Isopropanol | 0.521 | 0.500 | 1.28 | 1.23 | | 1 |
| Methylene chloride | 0.888 | 0.500 | 3.08 | 1.74 | | 1 |
| 4-Methyl-2-pentanone | ND | 0.200 | ND | 0.819 | | 1 |
| Methyl tert butyl ether | ND | 0.200 | ND | 0.720 | | 1 |
| p/m-Xylene | 2.32 | 0.400 | 10.0 | 1.74 | | 1 |
| o-Xylene | 0.947 | 0.200 | 4.11 | 0.868 | | 1 |
| Heptane | ND | 0.200 | ND | 0.819 | | 1 |
| n-Hexane | 0.289 | 0.200 | 1.02 | 0.704 | | 1 |
| Propylene | 0.957 | 0.200 | 1.64 | 0.344 | | 1 |



Project Name: FORMER DARBY DRUG**Lab Number:** L0813541**Project Number:** AVB0801**Report Date:** 09/25/08**SAMPLE RESULTS****Lab ID:** L0813541-08**Date Collected:** 09/10/08 12:42**Client ID:** PWG-SG-2008-08**Date Received:** 09/11/08**Sample Location:** ROCKVILLE CENTRE**Field Prep:** Not Specified

| Parameter | ppbV | | ug/m3 | | Qualifier | Dilution Factor |
|---|---------|-------|---------|-------|-----------|-----------------|
| | Results | RDL | Results | RDL | | |
| Low Level Volatile Organic Compounds in Air | | | | | | |
| Styrene | 0.710 | 0.200 | 3.02 | 0.851 | | 1 |
| Tetrachloroethene | 0.603 | 0.200 | 4.09 | 1.36 | | 1 |
| Tetrahydrofuran | ND | 0.200 | ND | 0.589 | | 1 |
| Toluene | 1.88 | 0.200 | 7.07 | 0.753 | | 1 |
| trans-1,2-Dichloroethene | ND | 0.200 | ND | 0.792 | | 1 |
| trans-1,3-Dichloropropene | ND | 0.200 | ND | 0.907 | | 1 |
| Trichloroethene | 0.254 | 0.200 | 1.36 | 1.07 | | 1 |
| Trichlorofluoromethane | 0.335 | 0.200 | 1.88 | 1.12 | | 1 |
| Vinyl acetate | ND | 0.200 | ND | 0.704 | | 1 |
| Vinyl bromide | ND | 0.200 | ND | 0.874 | | 1 |
| Vinyl chloride | ND | 0.200 | ND | 0.511 | | 1 |

Project Name: FORMER DARBY DRUG
Project Number: AVB0801

Lab Number: L0813541
Report Date: 09/25/08

SAMPLE RESULTS

Lab ID: L0813541-09
Client ID: PWG-SG-2008-09
Sample Location: ROCKVILLE CENTRE
Matrix: Soil_Vapor
Analytical Method: 48,TO-15
Analytical Date: 09/17/08 20:31
Analyst: RY

Date Collected: 09/10/08 12:53
Date Received: 09/11/08
Field Prep: Not Specified

| Parameter | ppbV | | ug/m3 | | Qualifier | Dilution Factor |
|---|---------|------|---------|------|-----------|-----------------|
| | Results | RDL | Results | RDL | | |
| Low Level Volatile Organic Compounds in Air | | | | | | |
| 1,1,1-Trichloroethane | ND | 5.00 | ND | 27.2 | | 25 |
| 1,1,2,2-Tetrachloroethane | ND | 5.00 | ND | 34.3 | | 25 |
| 1,1,2-Trichloroethane | ND | 5.00 | ND | 27.2 | | 25 |
| 1,1-Dichloroethane | ND | 5.00 | ND | 20.2 | | 25 |
| 1,1-Dichloroethene | ND | 5.00 | ND | 19.8 | | 25 |
| 1,2,4-Trichlorobenzene | ND | 5.00 | ND | 37.1 | | 25 |
| 1,2,4-Trimethylbenzene | ND | 5.00 | ND | 24.6 | | 25 |
| 1,2-Dibromoethane | ND | 5.00 | ND | 38.4 | | 25 |
| 1,2-Dichlorobenzene | ND | 5.00 | ND | 30.0 | | 25 |
| 1,2-Dichloroethane | ND | 5.00 | ND | 20.2 | | 25 |
| 1,2-Dichloropropane | ND | 5.00 | ND | 23.1 | | 25 |
| 1,3,5-Trimethybenzene | ND | 5.00 | ND | 24.6 | | 25 |
| 1,3-Butadiene | ND | 5.00 | ND | 11.0 | | 25 |
| 1,3-Dichlorobenzene | ND | 5.00 | ND | 30.0 | | 25 |
| 1,4-Dichlorobenzene | ND | 5.00 | ND | 30.0 | | 25 |
| 1,4-Dioxane | ND | 5.00 | ND | 18.0 | | 25 |
| 2,2,4-Trimethylpentane | ND | 5.00 | ND | 23.3 | | 25 |
| 2-Butanone | 132 | 5.00 | 388 | 14.7 | | 25 |
| 2-Hexanone | ND | 5.00 | ND | 20.5 | | 25 |
| 3-Chloropropene | ND | 5.00 | ND | 15.6 | | 25 |
| 4-Ethyltoluene | ND | 5.00 | ND | 24.6 | | 25 |
| Acetone | 960 | 12.5 | 2280 | 29.7 | | 25 |
| Benzene | ND | 5.00 | ND | 16.0 | | 25 |
| Benzyl chloride | ND | 5.00 | ND | 25.9 | | 25 |
| Bromodichloromethane | ND | 5.00 | ND | 33.5 | | 25 |



Project Name: FORMER DARBY DRUG**Lab Number:** L0813541**Project Number:** AVB0801**Report Date:** 09/25/08**SAMPLE RESULTS**

Lab ID: L0813541-09

Date Collected: 09/10/08 12:53

Client ID: PWG-SG-2008-09

Date Received: 09/11/08

Sample Location: ROCKVILLE CENTRE

Field Prep: Not Specified

| Parameter | ppbV | | ug/m3 | | Qualifier | Dilution Factor |
|---|---------|------|---------|------|-----------|-----------------|
| | Results | RDL | Results | RDL | | |
| Low Level Volatile Organic Compounds in Air | | | | | | |
| Bromoform | ND | 5.00 | ND | 51.6 | | 25 |
| Bromomethane | ND | 5.00 | ND | 19.4 | | 25 |
| Carbon disulfide | ND | 5.00 | ND | 15.6 | | 25 |
| Carbon tetrachloride | ND | 5.00 | ND | 31.4 | | 25 |
| Chlorobenzene | ND | 5.00 | ND | 23.0 | | 25 |
| Chloroethane | ND | 5.00 | ND | 13.2 | | 25 |
| Chloroform | ND | 5.00 | ND | 24.4 | | 25 |
| Chloromethane | ND | 5.00 | ND | 10.3 | | 25 |
| cis-1,2-Dichloroethene | ND | 5.00 | ND | 19.8 | | 25 |
| cis-1,3-Dichloropropene | ND | 5.00 | ND | 22.7 | | 25 |
| Cyclohexane | ND | 5.00 | ND | 17.2 | | 25 |
| Dibromochloromethane | ND | 5.00 | ND | 42.6 | | 25 |
| Dichlorodifluoromethane | ND | 5.00 | ND | 24.7 | | 25 |
| Ethanol | 128 | 62.5 | 240 | 118 | | 25 |
| Ethyl Acetate | ND | 12.5 | ND | 45.0 | | 25 |
| Ethylbenzene | ND | 5.00 | ND | 21.7 | | 25 |
| Freon-113 | ND | 5.00 | ND | 38.3 | | 25 |
| Freon-114 | ND | 5.00 | ND | 34.9 | | 25 |
| Hexachlorobutadiene | ND | 5.00 | ND | 53.3 | | 25 |
| Isopropanol | 75.2 | 12.5 | 185 | 30.7 | | 25 |
| Methylene chloride | ND | 12.5 | ND | 43.4 | | 25 |
| 4-Methyl-2-pentanone | ND | 5.00 | ND | 20.5 | | 25 |
| Methyl tert butyl ether | ND | 5.00 | ND | 18.0 | | 25 |
| p/m-Xylene | ND | 10.0 | ND | 43.4 | | 25 |
| o-Xylene | ND | 5.00 | ND | 21.7 | | 25 |
| Heptane | ND | 5.00 | ND | 20.5 | | 25 |
| n-Hexane | ND | 5.00 | ND | 17.6 | | 25 |
| Propylene | 236 | 5.00 | 406 | 8.60 | | 25 |



Project Name: FORMER DARBY DRUG**Lab Number:** L0813541**Project Number:** AVB0801**Report Date:** 09/25/08**SAMPLE RESULTS**

Lab ID: L0813541-09

Date Collected: 09/10/08 12:53

Client ID: PWG-SG-2008-09

Date Received: 09/11/08

Sample Location: ROCKVILLE CENTRE

Field Prep: Not Specified

| Parameter | ppbV | | ug/m3 | | Qualifier | Dilution Factor |
|---|---------|------|---------|------|-----------|-----------------|
| | Results | RDL | Results | RDL | | |
| Low Level Volatile Organic Compounds in Air | | | | | | |
| Styrene | ND | 5.00 | ND | 21.3 | | 25 |
| Tetrachloroethene | 1420 | 5.00 | 9660 | 33.9 | | 25 |
| Tetrahydrofuran | ND | 5.00 | ND | 14.7 | | 25 |
| Toluene | ND | 5.00 | ND | 18.8 | | 25 |
| trans-1,2-Dichloroethene | ND | 5.00 | ND | 19.8 | | 25 |
| trans-1,3-Dichloropropene | ND | 5.00 | ND | 22.7 | | 25 |
| Trichloroethene | 5.53 | 5.00 | 29.7 | 26.8 | | 25 |
| Trichlorofluoromethane | ND | 5.00 | ND | 28.1 | | 25 |
| Vinyl acetate | ND | 5.00 | ND | 17.6 | | 25 |
| Vinyl bromide | ND | 5.00 | ND | 21.8 | | 25 |
| Vinyl chloride | ND | 5.00 | ND | 12.8 | | 25 |

Project Name: FORMER DARBY DRUG
Project Number: AVB0801

Lab Number: L0813541
Report Date: 09/25/08

SAMPLE RESULTS

Lab ID: L0813541-10
Client ID: PWG-SG-2008-10
Sample Location: ROCKVILLE CENTRE
Matrix: Soil_Vapor
Analytical Method: 48,TO-15
Analytical Date: 09/17/08 21:05
Analyst: RY

Date Collected: 09/10/08 12:44
Date Received: 09/11/08
Field Prep: Not Specified

| Parameter | ppbV | | ug/m3 | | Qualifier | Dilution Factor |
|---|---------|------|---------|------|-----------|-----------------|
| | Results | RDL | Results | RDL | | |
| Low Level Volatile Organic Compounds in Air | | | | | | |
| 1,1,1-Trichloroethane | ND | 2.00 | ND | 10.9 | | 10 |
| 1,1,2,2-Tetrachloroethane | ND | 2.00 | ND | 13.7 | | 10 |
| 1,1,2-Trichloroethane | ND | 2.00 | ND | 10.9 | | 10 |
| 1,1-Dichloroethane | ND | 2.00 | ND | 8.09 | | 10 |
| 1,1-Dichloroethene | ND | 2.00 | ND | 7.92 | | 10 |
| 1,2,4-Trichlorobenzene | ND | 2.00 | ND | 14.8 | | 10 |
| 1,2,4-Trimethylbenzene | ND | 2.00 | ND | 9.82 | | 10 |
| 1,2-Dibromoethane | ND | 2.00 | ND | 15.4 | | 10 |
| 1,2-Dichlorobenzene | ND | 2.00 | ND | 12.0 | | 10 |
| 1,2-Dichloroethane | ND | 2.00 | ND | 8.09 | | 10 |
| 1,2-Dichloropropane | ND | 2.00 | ND | 9.24 | | 10 |
| 1,3,5-Trimethybenzene | ND | 2.00 | ND | 9.82 | | 10 |
| 1,3-Butadiene | ND | 2.00 | ND | 4.42 | | 10 |
| 1,3-Dichlorobenzene | ND | 2.00 | ND | 12.0 | | 10 |
| 1,4-Dichlorobenzene | 3.35 | 2.00 | 20.1 | 12.0 | | 10 |
| 1,4-Dioxane | ND | 2.00 | ND | 7.20 | | 10 |
| 2,2,4-Trimethylpentane | ND | 2.00 | ND | 9.34 | | 10 |
| 2-Butanone | 102 | 2.00 | 299 | 5.89 | | 10 |
| 2-Hexanone | 2.24 | 2.00 | 9.18 | 8.19 | | 10 |
| 3-Chloropropene | ND | 2.00 | ND | 6.26 | | 10 |
| 4-Ethyltoluene | ND | 2.00 | ND | 9.82 | | 10 |
| Acetone | 688 | 5.00 | 1630 | 11.9 | | 10 |
| Benzene | ND | 2.00 | ND | 6.38 | | 10 |
| Benzyl chloride | ND | 2.00 | ND | 10.3 | | 10 |
| Bromodichloromethane | ND | 2.00 | ND | 13.4 | | 10 |



Project Name: FORMER DARBY DRUG**Lab Number:** L0813541**Project Number:** AVB0801**Report Date:** 09/25/08**SAMPLE RESULTS****Lab ID:** L0813541-10**Date Collected:** 09/10/08 12:44**Client ID:** PWG-SG-2008-10**Date Received:** 09/11/08**Sample Location:** ROCKVILLE CENTRE**Field Prep:** Not Specified

| Parameter | ppbV | | ug/m3 | | Qualifier | Dilution Factor |
|---|---------|------|---------|------|-----------|-----------------|
| | Results | RDL | Results | RDL | | |
| Low Level Volatile Organic Compounds in Air | | | | | | |
| Bromoform | ND | 2.00 | ND | 20.6 | | 10 |
| Bromomethane | ND | 2.00 | ND | 7.76 | | 10 |
| Carbon disulfide | ND | 2.00 | ND | 6.22 | | 10 |
| Carbon tetrachloride | ND | 2.00 | ND | 12.6 | | 10 |
| Chlorobenzene | ND | 2.00 | ND | 9.20 | | 10 |
| Chloroethane | ND | 2.00 | ND | 5.27 | | 10 |
| Chloroform | ND | 2.00 | ND | 9.76 | | 10 |
| Chloromethane | ND | 2.00 | ND | 4.13 | | 10 |
| cis-1,2-Dichloroethene | ND | 2.00 | ND | 7.92 | | 10 |
| cis-1,3-Dichloropropene | ND | 2.00 | ND | 9.07 | | 10 |
| Cyclohexane | ND | 2.00 | ND | 6.88 | | 10 |
| Dibromochloromethane | ND | 2.00 | ND | 17.0 | | 10 |
| Dichlorodifluoromethane | ND | 2.00 | ND | 9.88 | | 10 |
| Ethanol | 72.0 | 25.0 | 136 | 47.1 | | 10 |
| Ethyl Acetate | ND | 5.00 | ND | 18.0 | | 10 |
| Ethylbenzene | ND | 2.00 | ND | 8.68 | | 10 |
| Freon-113 | ND | 2.00 | ND | 15.3 | | 10 |
| Freon-114 | ND | 2.00 | ND | 14.0 | | 10 |
| Hexachlorobutadiene | ND | 2.00 | ND | 21.3 | | 10 |
| Isopropanol | 11.0 | 5.00 | 26.9 | 12.3 | | 10 |
| Methylene chloride | ND | 5.00 | ND | 17.4 | | 10 |
| 4-Methyl-2-pentanone | ND | 2.00 | ND | 8.19 | | 10 |
| Methyl tert butyl ether | ND | 2.00 | ND | 7.20 | | 10 |
| p/m-Xylene | ND | 4.00 | ND | 17.4 | | 10 |
| o-Xylene | ND | 2.00 | ND | 8.68 | | 10 |
| Heptane | ND | 2.00 | ND | 8.19 | | 10 |
| n-Hexane | ND | 2.00 | ND | 7.04 | | 10 |
| Propylene | 94.8 | 2.00 | 163 | 3.44 | | 10 |



Project Name: FORMER DARBY DRUG**Lab Number:** L0813541**Project Number:** AVB0801**Report Date:** 09/25/08**SAMPLE RESULTS**

Lab ID: L0813541-10

Date Collected: 09/10/08 12:44

Client ID: PWG-SG-2008-10

Date Received: 09/11/08

Sample Location: ROCKVILLE CENTRE

Field Prep: Not Specified

| Parameter | ppbV | | ug/m3 | | Qualifier | Dilution Factor |
|---|---------|------|---------|------|-----------|-----------------|
| | Results | RDL | Results | RDL | | |
| Low Level Volatile Organic Compounds in Air | | | | | | |
| Styrene | ND | 2.00 | ND | 8.51 | | 10 |
| Tetrachloroethene | ND | 2.00 | ND | 13.6 | | 10 |
| Tetrahydrofuran | ND | 2.00 | ND | 5.89 | | 10 |
| Toluene | 2.89 | 2.00 | 10.9 | 7.53 | | 10 |
| trans-1,2-Dichloroethene | ND | 2.00 | ND | 7.92 | | 10 |
| trans-1,3-Dichloropropene | ND | 2.00 | ND | 9.07 | | 10 |
| Trichloroethene | ND | 2.00 | ND | 10.7 | | 10 |
| Trichlorofluoromethane | ND | 2.00 | ND | 11.2 | | 10 |
| Vinyl acetate | ND | 2.00 | ND | 7.04 | | 10 |
| Vinyl bromide | ND | 2.00 | ND | 8.74 | | 10 |
| Vinyl chloride | ND | 2.00 | ND | 5.11 | | 10 |

Project Name: FORMER DARBY DRUG**Lab Number:** L0813541**Project Number:** AVB0801**Report Date:** 09/25/08**SAMPLE RESULTS**

Lab ID: L0813541-11
Client ID: PWG-SG-2008-11
Sample Location: ROCKVILLE CENTRE
Matrix: Soil_Vapor
Analytical Method: 48,TO-15
Analytical Date: 09/17/08 21:39
Analyst: RY

Date Collected: 09/10/08 13:04
Date Received: 09/11/08
Field Prep: Not Specified

| Parameter | ppbV | | ug/m3 | | Qualifier | Dilution Factor |
|---|---------|------|---------|------|-----------|-----------------|
| | Results | RDL | Results | RDL | | |
| Low Level Volatile Organic Compounds in Air | | | | | | |
| 1,1,1-Trichloroethane | ND | 51.7 | ND | 282. | | 258.6 |
| 1,1,2,2-Tetrachloroethane | ND | 51.7 | ND | 355. | | 258.6 |
| 1,1,2-Trichloroethane | ND | 51.7 | ND | 282. | | 258.6 |
| 1,1-Dichloroethane | ND | 51.7 | ND | 209. | | 258.6 |
| 1,1-Dichloroethene | ND | 51.7 | ND | 205. | | 258.6 |
| 1,2,4-Trichlorobenzene | ND | 51.7 | ND | 384. | | 258.6 |
| 1,2,4-Trimethylbenzene | ND | 51.7 | ND | 254. | | 258.6 |
| 1,2-Dibromoethane | ND | 51.7 | ND | 397. | | 258.6 |
| 1,2-Dichlorobenzene | ND | 51.7 | ND | 311. | | 258.6 |
| 1,2-Dichloroethane | ND | 51.7 | ND | 209. | | 258.6 |
| 1,2-Dichloropropane | ND | 51.7 | ND | 239. | | 258.6 |
| 1,3,5-Trimethybenzene | ND | 51.7 | ND | 254. | | 258.6 |
| 1,3-Butadiene | ND | 51.7 | ND | 114. | | 258.6 |
| 1,3-Dichlorobenzene | ND | 51.7 | ND | 311. | | 258.6 |
| 1,4-Dichlorobenzene | ND | 51.7 | ND | 311. | | 258.6 |
| 1,4-Dioxane | ND | 51.7 | ND | 186. | | 258.6 |
| 2,2,4-Trimethylpentane | ND | 51.7 | ND | 241. | | 258.6 |
| 2-Butanone | ND | 51.7 | ND | 152. | | 258.6 |
| 2-Hexanone | ND | 51.7 | ND | 212. | | 258.6 |
| 3-Chloropropene | ND | 51.7 | ND | 162. | | 258.6 |
| 4-Ethyltoluene | ND | 51.7 | ND | 254. | | 258.6 |
| Acetone | ND | 129 | ND | 307 | | 258.6 |
| Benzene | ND | 51.7 | ND | 165. | | 258.6 |
| Benzyl chloride | ND | 51.7 | ND | 268. | | 258.6 |
| Bromodichloromethane | ND | 51.7 | ND | 346. | | 258.6 |



Project Name: FORMER DARBY DRUG**Lab Number:** L0813541**Project Number:** AVB0801**Report Date:** 09/25/08**SAMPLE RESULTS****Lab ID:** L0813541-11**Date Collected:** 09/10/08 13:04**Client ID:** PWG-SG-2008-11**Date Received:** 09/11/08**Sample Location:** ROCKVILLE CENTRE**Field Prep:** Not Specified

| Parameter | ppbV | | ug/m3 | | Qualifier | Dilution Factor |
|---|---------|------|---------|------|-----------|-----------------|
| | Results | RDL | Results | RDL | | |
| Low Level Volatile Organic Compounds in Air | | | | | | |
| Bromoform | ND | 51.7 | ND | 534. | | 258.6 |
| Bromomethane | ND | 51.7 | ND | 201. | | 258.6 |
| Carbon disulfide | ND | 51.7 | ND | 161 | | 258.6 |
| Carbon tetrachloride | ND | 51.7 | ND | 325. | | 258.6 |
| Chlorobenzene | ND | 51.7 | ND | 238. | | 258.6 |
| Chloroethane | ND | 51.7 | ND | 136. | | 258.6 |
| Chloroform | 74.1 | 51.7 | 362 | 252 | | 258.6 |
| Chloromethane | ND | 51.7 | ND | 107. | | 258.6 |
| cis-1,2-Dichloroethene | 8470 | 51.7 | 33500 | 205 | | 258.6 |
| cis-1,3-Dichloropropene | ND | 51.7 | ND | 234. | | 258.6 |
| Cyclohexane | ND | 51.7 | ND | 178. | | 258.6 |
| Dibromochloromethane | ND | 51.7 | ND | 440. | | 258.6 |
| Dichlorodifluoromethane | ND | 51.7 | ND | 256 | | 258.6 |
| Ethanol | ND | 646. | ND | 1220 | | 258.6 |
| Ethyl Acetate | ND | 129. | ND | 466. | | 258.6 |
| Ethylbenzene | ND | 51.7 | ND | 224. | | 258.6 |
| Freon-113 | 113 | 51.7 | 869 | 396 | | 258.6 |
| Freon-114 | ND | 51.7 | ND | 361. | | 258.6 |
| Hexachlorobutadiene | ND | 51.7 | ND | 551. | | 258.6 |
| Isopropanol | ND | 129 | ND | 318 | | 258.6 |
| Methylene chloride | ND | 129 | ND | 449 | | 258.6 |
| 4-Methyl-2-pentanone | ND | 51.7 | ND | 212. | | 258.6 |
| Methyl tert butyl ether | ND | 51.7 | ND | 186. | | 258.6 |
| p/m-Xylene | ND | 103. | ND | 449. | | 258.6 |
| o-Xylene | ND | 51.7 | ND | 224. | | 258.6 |
| Heptane | ND | 51.7 | ND | 212. | | 258.6 |
| n-Hexane | ND | 51.7 | ND | 182. | | 258.6 |
| Propylene | ND | 51.7 | ND | 88.9 | | 258.6 |



Project Name: FORMER DARBY DRUG**Lab Number:** L0813541**Project Number:** AVB0801**Report Date:** 09/25/08**SAMPLE RESULTS****Lab ID:** L0813541-11**Date Collected:** 09/10/08 13:04**Client ID:** PWG-SG-2008-11**Date Received:** 09/11/08**Sample Location:** ROCKVILLE CENTRE**Field Prep:** Not Specified

| Parameter | ppbV | | ug/m3 | | Qualifier | Dilution Factor |
|---|---------|------|---------|------|-----------|-----------------|
| | Results | RDL | Results | RDL | | |
| Low Level Volatile Organic Compounds in Air | | | | | | |
| Styrene | ND | 51.7 | ND | 220. | | 258.6 |
| Tetrachloroethene | >25860 | 51.7 | >175393 | 350 | | 258.6 |
| Tetrahydrofuran | ND | 51.7 | ND | 152. | | 258.6 |
| Toluene | ND | 51.7 | ND | 195. | | 258.6 |
| trans-1,2-Dichloroethene | 339 | 51.7 | 1340 | 205 | | 258.6 |
| trans-1,3-Dichloropropene | ND | 51.7 | ND | 234. | | 258.6 |
| Trichloroethene | 3560 | 51.7 | 19100 | 278 | | 258.6 |
| Trichlorofluoromethane | ND | 51.7 | ND | 290 | | 258.6 |
| Vinyl acetate | ND | 51.7 | ND | 182. | | 258.6 |
| Vinyl bromide | ND | 51.7 | ND | 226. | | 258.6 |
| Vinyl chloride | ND | 51.7 | ND | 132. | | 258.6 |



Project Name: FORMER DARBY DRUG**Lab Number:** L0813541**Project Number:** AVB0801**Report Date:** 09/25/08**SAMPLE RESULTS**

Lab ID: L0813541-11 R

Date Collected: 09/10/08 13:04

Client ID: PWG-SG-2008-11

Date Received: 09/11/08

Sample Location: ROCKVILLE CENTRE

Field Prep: Not Specified

Matrix: Soil_Vapor

Analytical Method: 48,TO-15

Analytical Date: 09/18/08 21:58

Analyst: RY

| Parameter | ppbV | | ug/m3 | | Qualifier | Dilution Factor |
|---|---------|-----|---------|------|-----------|-----------------|
| | Results | RDL | Results | RDL | | |
| Low Level Volatile Organic Compounds in Air | | | | | | |
| Tetrachloroethene | 249000 | 647 | 1680000 | 4380 | | 3234 |

Project Name: FORMER DARBY DRUG
Project Number: AVB0801

Lab Number: L0813541
Report Date: 09/25/08

SAMPLE RESULTS

Lab ID: L0813541-12
Client ID: PWG-SG-2008-12
Sample Location: ROCKVILLE CENTRE
Matrix: Soil_Vapor
Analytical Method: 48,TO-15
Analytical Date: 09/17/08 22:13
Analyst: RY

Date Collected: 09/10/08 13:02
Date Received: 09/11/08
Field Prep: Not Specified

| Parameter | ppbV | | ug/m3 | | Qualifier | Dilution Factor |
|---|---------|-------|---------|-------|-----------|-----------------|
| | Results | RDL | Results | RDL | | |
| Low Level Volatile Organic Compounds in Air | | | | | | |
| 1,1,1-Trichloroethane | 3.09 | 0.200 | 16.8 | 1.09 | | 1 |
| 1,1,2,2-Tetrachloroethane | ND | 0.200 | ND | 1.37 | | 1 |
| 1,1,2-Trichloroethane | ND | 0.200 | ND | 1.09 | | 1 |
| 1,1-Dichloroethane | ND | 0.200 | ND | 0.809 | | 1 |
| 1,1-Dichloroethene | ND | 0.200 | ND | 0.792 | | 1 |
| 1,2,4-Trichlorobenzene | ND | 0.200 | ND | 1.48 | | 1 |
| 1,2,4-Trimethylbenzene | 1.21 | 0.200 | 5.95 | 0.982 | | 1 |
| 1,2-Dibromoethane | ND | 0.200 | ND | 1.54 | | 1 |
| 1,2-Dichlorobenzene | ND | 0.200 | ND | 1.20 | | 1 |
| 1,2-Dichloroethane | ND | 0.200 | ND | 0.809 | | 1 |
| 1,2-Dichloropropane | ND | 0.200 | ND | 0.924 | | 1 |
| 1,3,5-Trimethybenzene | 0.552 | 0.200 | 2.71 | 0.982 | | 1 |
| 1,3-Butadiene | ND | 0.200 | ND | 0.442 | | 1 |
| 1,3-Dichlorobenzene | ND | 0.200 | ND | 1.20 | | 1 |
| 1,4-Dichlorobenzene | 6.68 | 0.200 | 40.1 | 1.20 | | 1 |
| 1,4-Dioxane | ND | 0.200 | ND | 0.720 | | 1 |
| 2,2,4-Trimethylpentane | ND | 0.200 | ND | 0.934 | | 1 |
| 2-Butanone | 0.957 | 0.200 | 2.82 | 0.589 | | 1 |
| 2-Hexanone | ND | 0.200 | ND | 0.819 | | 1 |
| 3-Chloropropene | ND | 0.200 | ND | 0.626 | | 1 |
| 4-Ethyltoluene | ND | 0.200 | ND | 0.982 | | 1 |
| Acetone | 6.82 | 0.500 | 16.2 | 1.19 | | 1 |
| Benzene | ND | 0.200 | ND | 0.638 | | 1 |
| Benzyl chloride | ND | 0.200 | ND | 1.03 | | 1 |
| Bromodichloromethane | ND | 0.200 | ND | 1.34 | | 1 |



Project Name: FORMER DARBY DRUG**Lab Number:** L0813541**Project Number:** AVB0801**Report Date:** 09/25/08**SAMPLE RESULTS**

Lab ID: L0813541-12

Date Collected: 09/10/08 13:02

Client ID: PWG-SG-2008-12

Date Received: 09/11/08

Sample Location: ROCKVILLE CENTRE

Field Prep: Not Specified

| Parameter | ppbV | | ug/m3 | | Qualifier | Dilution Factor |
|---|---------|-------|---------|-------|-----------|-----------------|
| | Results | RDL | Results | RDL | | |
| Low Level Volatile Organic Compounds in Air | | | | | | |
| Bromoform | ND | 0.200 | ND | 2.06 | | 1 |
| Bromomethane | ND | 0.200 | ND | 0.776 | | 1 |
| Carbon disulfide | ND | 0.200 | ND | 0.622 | | 1 |
| Carbon tetrachloride | ND | 0.200 | ND | 1.26 | | 1 |
| Chlorobenzene | ND | 0.200 | ND | 0.920 | | 1 |
| Chloroethane | ND | 0.200 | ND | 0.527 | | 1 |
| Chloroform | 0.256 | 0.200 | 1.25 | 0.976 | | 1 |
| Chloromethane | ND | 0.200 | ND | 0.413 | | 1 |
| cis-1,2-Dichloroethene | ND | 0.200 | ND | 0.792 | | 1 |
| cis-1,3-Dichloropropene | ND | 0.200 | ND | 0.907 | | 1 |
| Cyclohexane | 0.310 | 0.200 | 1.07 | 0.688 | | 1 |
| Dibromochloromethane | ND | 0.200 | ND | 1.70 | | 1 |
| Dichlorodifluoromethane | 0.718 | 0.200 | 3.55 | 0.988 | | 1 |
| Ethanol | 9.30 | 2.50 | 17.5 | 4.71 | | 1 |
| Ethyl Acetate | ND | 0.500 | ND | 1.80 | | 1 |
| Ethylbenzene | 0.676 | 0.200 | 2.93 | 0.868 | | 1 |
| Freon-113 | ND | 0.200 | ND | 1.53 | | 1 |
| Freon-114 | ND | 0.200 | ND | 1.40 | | 1 |
| Hexachlorobutadiene | ND | 0.200 | ND | 2.13 | | 1 |
| Isopropanol | ND | 0.500 | ND | 1.23 | | 1 |
| Methylene chloride | ND | 0.500 | ND | 1.74 | | 1 |
| 4-Methyl-2-pentanone | ND | 0.200 | ND | 0.819 | | 1 |
| Methyl tert butyl ether | ND | 0.200 | ND | 0.720 | | 1 |
| p/m-Xylene | 2.14 | 0.400 | 9.30 | 1.74 | | 1 |
| o-Xylene | 0.875 | 0.200 | 3.80 | 0.868 | | 1 |
| Heptane | ND | 0.200 | ND | 0.819 | | 1 |
| n-Hexane | ND | 0.200 | ND | 0.704 | | 1 |
| Propylene | ND | 0.200 | ND | 0.344 | | 1 |



Project Name: FORMER DARBY DRUG**Lab Number:** L0813541**Project Number:** AVB0801**Report Date:** 09/25/08**SAMPLE RESULTS****Lab ID:** L0813541-12**Date Collected:** 09/10/08 13:02**Client ID:** PWG-SG-2008-12**Date Received:** 09/11/08**Sample Location:** ROCKVILLE CENTRE**Field Prep:** Not Specified

| Parameter | ppbV | | ug/m3 | | Qualifier | Dilution Factor |
|---|---------|-------|---------|-------|-----------|-----------------|
| | Results | RDL | Results | RDL | | |
| Low Level Volatile Organic Compounds in Air | | | | | | |
| Styrene | 1.02 | 0.200 | 4.36 | 0.851 | | 1 |
| Tetrachloroethene | 23.0 | 0.200 | 156 | 1.36 | | 1 |
| Tetrahydrofuran | ND | 0.200 | ND | 0.589 | | 1 |
| Toluene | 2.06 | 0.200 | 7.76 | 0.753 | | 1 |
| trans-1,2-Dichloroethene | ND | 0.200 | ND | 0.792 | | 1 |
| trans-1,3-Dichloropropene | ND | 0.200 | ND | 0.907 | | 1 |
| Trichloroethene | 0.629 | 0.200 | 3.38 | 1.07 | | 1 |
| Trichlorofluoromethane | 0.484 | 0.200 | 2.72 | 1.12 | | 1 |
| Vinyl acetate | ND | 0.200 | ND | 0.704 | | 1 |
| Vinyl bromide | ND | 0.200 | ND | 0.874 | | 1 |
| Vinyl chloride | ND | 0.200 | ND | 0.511 | | 1 |

Project Name: FORMER DARBY DRUG

Lab Number: L0813541

Project Number: AVB0801

Report Date: 09/25/08

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 09/17/08 10:06

| Parameter | ppbV | | ug/m3 | | Qualifier | Dilution Factor |
|--|---------|-------|---------|-------|-----------|-----------------|
| | Results | RDL | Results | RDL | | |
| Low Level Volatile Organic Compounds in Air for sample(s): 01-12 Batch: WG336905-3 | | | | | | |
| 1,1,1-Trichloroethane | ND | 0.200 | ND | 1.09 | | 1 |
| 1,1,2,2-Tetrachloroethane | ND | 0.200 | ND | 1.37 | | 1 |
| 1,1,2-Trichloroethane | ND | 0.200 | ND | 1.09 | | 1 |
| 1,1-Dichloroethane | ND | 0.200 | ND | 0.809 | | 1 |
| 1,1-Dichloroethene | ND | 0.200 | ND | 0.792 | | 1 |
| 1,2,4-Trichlorobenzene | ND | 0.200 | ND | 1.48 | | 1 |
| 1,2,4-Trimethylbenzene | ND | 0.200 | ND | 0.982 | | 1 |
| 1,2-Dibromoethane | ND | 0.200 | ND | 1.54 | | 1 |
| 1,2-Dichlorobenzene | ND | 0.200 | ND | 1.20 | | 1 |
| 1,2-Dichloroethane | ND | 0.200 | ND | 0.809 | | 1 |
| 1,2-Dichloropropane | ND | 0.200 | ND | 0.924 | | 1 |
| 1,3,5-Trimethybenzene | ND | 0.200 | ND | 0.982 | | 1 |
| 1,3-Butadiene | ND | 0.200 | ND | 0.442 | | 1 |
| 1,3-Dichlorobenzene | ND | 0.200 | ND | 1.20 | | 1 |
| 1,4-Dichlorobenzene | ND | 0.200 | ND | 1.20 | | 1 |
| 1,4-Dioxane | ND | 0.200 | ND | 0.720 | | 1 |
| 2,2,4-Trimethylpentane | ND | 0.200 | ND | 0.934 | | 1 |
| 2-Butanone | ND | 0.200 | ND | 0.589 | | 1 |
| 2-Hexanone | ND | 0.200 | ND | 0.819 | | 1 |
| 3-Chloropropene | ND | 0.200 | ND | 0.626 | | 1 |
| 4-Ethyltoluene | ND | 0.200 | ND | 0.982 | | 1 |
| Acetone | ND | 0.500 | ND | 1.19 | | 1 |
| Benzene | ND | 0.200 | ND | 0.638 | | 1 |
| Benzyl chloride | ND | 0.200 | ND | 1.03 | | 1 |
| Bromodichloromethane | ND | 0.200 | ND | 1.34 | | 1 |



Project Name: FORMER DARBY DRUG

Lab Number: L0813541

Project Number: AVB0801

Report Date: 09/25/08

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 09/17/08 10:06

| Parameter | ppbV | | ug/m3 | | Qualifier | Dilution Factor |
|--|---------|-------|---------|-------|-----------|-----------------|
| | Results | RDL | Results | RDL | | |
| Low Level Volatile Organic Compounds in Air for sample(s): 01-12 Batch: WG336905-3 | | | | | | |
| Bromoform | ND | 0.200 | ND | 2.06 | | 1 |
| Bromomethane | ND | 0.200 | ND | 0.776 | | 1 |
| Carbon disulfide | ND | 0.200 | ND | 0.622 | | 1 |
| Carbon tetrachloride | ND | 0.200 | ND | 1.26 | | 1 |
| Chlorobenzene | ND | 0.200 | ND | 0.920 | | 1 |
| Chloroethane | ND | 0.200 | ND | 0.527 | | 1 |
| Chloroform | ND | 0.200 | ND | 0.976 | | 1 |
| Chloromethane | ND | 0.200 | ND | 0.413 | | 1 |
| cis-1,2-Dichloroethene | ND | 0.200 | ND | 0.792 | | 1 |
| cis-1,3-Dichloropropene | ND | 0.200 | ND | 0.907 | | 1 |
| Cyclohexane | ND | 0.200 | ND | 0.688 | | 1 |
| Dibromochloromethane | ND | 0.200 | ND | 1.70 | | 1 |
| Dichlorodifluoromethane | ND | 0.200 | ND | 0.988 | | 1 |
| Ethanol | ND | 2.50 | ND | 4.71 | | 1 |
| Ethyl Acetate | ND | 0.500 | ND | 1.80 | | 1 |
| Ethylbenzene | ND | 0.200 | ND | 0.868 | | 1 |
| Freon-113 | ND | 0.200 | ND | 1.53 | | 1 |
| Freon-114 | ND | 0.200 | ND | 1.40 | | 1 |
| Hexachlorobutadiene | ND | 0.200 | ND | 2.13 | | 1 |
| Isopropanol | ND | 0.500 | ND | 1.23 | | 1 |
| Methylene chloride | ND | 0.500 | ND | 1.74 | | 1 |
| 4-Methyl-2-pentanone | ND | 0.200 | ND | 0.819 | | 1 |
| Methyl tert butyl ether | ND | 0.200 | ND | 0.720 | | 1 |
| p/m-Xylene | ND | 0.400 | ND | 1.74 | | 1 |
| o-Xylene | ND | 0.200 | ND | 0.868 | | 1 |



Project Name: FORMER DARBY DRUG

Lab Number: L0813541

Project Number: AVB0801

Report Date: 09/25/08

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 09/17/08 10:06

| Parameter | ppbV | | ug/m3 | | Qualifier | Dilution Factor |
|--|---------|-------|---------|-------|-----------|-----------------|
| | Results | RDL | Results | RDL | | |
| Low Level Volatile Organic Compounds in Air for sample(s): 01-12 Batch: WG336905-3 | | | | | | |
| Heptane | ND | 0.200 | ND | 0.819 | | 1 |
| n-Hexane | ND | 0.200 | ND | 0.704 | | 1 |
| Propylene | ND | 0.200 | ND | 0.344 | | 1 |
| Styrene | ND | 0.200 | ND | 0.851 | | 1 |
| Tetrachloroethene | ND | 0.200 | ND | 1.36 | | 1 |
| Tetrahydrofuran | ND | 0.200 | ND | 0.589 | | 1 |
| Toluene | ND | 0.200 | ND | 0.753 | | 1 |
| trans-1,2-Dichloroethene | ND | 0.200 | ND | 0.792 | | 1 |
| trans-1,3-Dichloropropene | ND | 0.200 | ND | 0.907 | | 1 |
| Trichloroethene | ND | 0.200 | ND | 1.07 | | 1 |
| Trichlorofluoromethane | ND | 0.200 | ND | 1.12 | | 1 |
| Vinyl acetate | ND | 0.200 | ND | 0.704 | | 1 |
| Vinyl bromide | ND | 0.200 | ND | 0.874 | | 1 |
| Vinyl chloride | ND | 0.200 | ND | 0.511 | | 1 |

Project Name: FORMER DARBY DRUG

Lab Number: L0813541

Project Number: AVB0801

Report Date: 09/25/08

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 09/18/08 12:51

| Parameter | ppbV | | ug/m3 | | Qualifier | Dilution Factor |
|--|---------|-------|---------|-------|-----------|-----------------|
| | Results | RDL | Results | RDL | | |
| Low Level Volatile Organic Compounds in Air for sample(s): 07,11 Batch: WG336905-7 | | | | | | |
| 1,1,1-Trichloroethane | ND | 0.200 | ND | 1.09 | | 1 |
| 1,1,2,2-Tetrachloroethane | ND | 0.200 | ND | 1.37 | | 1 |
| 1,1,2-Trichloroethane | ND | 0.200 | ND | 1.09 | | 1 |
| 1,1-Dichloroethane | ND | 0.200 | ND | 0.809 | | 1 |
| 1,1-Dichloroethene | ND | 0.200 | ND | 0.792 | | 1 |
| 1,2,4-Trichlorobenzene | ND | 0.200 | ND | 1.48 | | 1 |
| 1,2,4-Trimethylbenzene | ND | 0.200 | ND | 0.982 | | 1 |
| 1,2-Dibromoethane | ND | 0.200 | ND | 1.54 | | 1 |
| 1,2-Dichlorobenzene | ND | 0.200 | ND | 1.20 | | 1 |
| 1,2-Dichloroethane | ND | 0.200 | ND | 0.809 | | 1 |
| 1,2-Dichloropropane | ND | 0.200 | ND | 0.924 | | 1 |
| 1,3,5-Trimethybenzene | ND | 0.200 | ND | 0.982 | | 1 |
| 1,3-Butadiene | ND | 0.200 | ND | 0.442 | | 1 |
| 1,3-Dichlorobenzene | ND | 0.200 | ND | 1.20 | | 1 |
| 1,4-Dichlorobenzene | ND | 0.200 | ND | 1.20 | | 1 |
| 1,4-Dioxane | ND | 0.200 | ND | 0.720 | | 1 |
| 2,2,4-Trimethylpentane | ND | 0.200 | ND | 0.934 | | 1 |
| 2-Butanone | ND | 0.200 | ND | 0.589 | | 1 |
| 2-Hexanone | ND | 0.200 | ND | 0.819 | | 1 |
| 3-Chloropropene | ND | 0.200 | ND | 0.626 | | 1 |
| 4-Ethyltoluene | ND | 0.200 | ND | 0.982 | | 1 |
| Acetone | ND | 0.500 | ND | 1.19 | | 1 |
| Benzene | ND | 0.200 | ND | 0.638 | | 1 |
| Benzyl chloride | ND | 0.200 | ND | 1.03 | | 1 |
| Bromodichloromethane | ND | 0.200 | ND | 1.34 | | 1 |



Project Name: FORMER DARBY DRUG

Lab Number: L0813541

Project Number: AVB0801

Report Date: 09/25/08

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 09/18/08 12:51

| Parameter | ppbV | | ug/m3 | | Qualifier | Dilution Factor |
|--|---------|-------|---------|-------|-----------|-----------------|
| | Results | RDL | Results | RDL | | |
| Low Level Volatile Organic Compounds in Air for sample(s): 07,11 Batch: WG336905-7 | | | | | | |
| Bromoform | ND | 0.200 | ND | 2.06 | | 1 |
| Bromomethane | ND | 0.200 | ND | 0.776 | | 1 |
| Carbon disulfide | ND | 0.200 | ND | 0.622 | | 1 |
| Carbon tetrachloride | ND | 0.200 | ND | 1.26 | | 1 |
| Chlorobenzene | ND | 0.200 | ND | 0.920 | | 1 |
| Chloroethane | ND | 0.200 | ND | 0.527 | | 1 |
| Chloroform | ND | 0.200 | ND | 0.976 | | 1 |
| Chloromethane | ND | 0.200 | ND | 0.413 | | 1 |
| cis-1,2-Dichloroethene | ND | 0.200 | ND | 0.792 | | 1 |
| cis-1,3-Dichloropropene | ND | 0.200 | ND | 0.907 | | 1 |
| Cyclohexane | ND | 0.200 | ND | 0.688 | | 1 |
| Dibromochloromethane | ND | 0.200 | ND | 1.70 | | 1 |
| Dichlorodifluoromethane | ND | 0.200 | ND | 0.988 | | 1 |
| Ethanol | ND | 2.50 | ND | 4.71 | | 1 |
| Ethyl Acetate | ND | 0.500 | ND | 1.80 | | 1 |
| Ethylbenzene | ND | 0.200 | ND | 0.868 | | 1 |
| Freon-113 | ND | 0.200 | ND | 1.53 | | 1 |
| Freon-114 | ND | 0.200 | ND | 1.40 | | 1 |
| Hexachlorobutadiene | ND | 0.200 | ND | 2.13 | | 1 |
| Isopropanol | ND | 0.500 | ND | 1.23 | | 1 |
| Methylene chloride | ND | 0.500 | ND | 1.74 | | 1 |
| 4-Methyl-2-pentanone | ND | 0.200 | ND | 0.819 | | 1 |
| Methyl tert butyl ether | ND | 0.200 | ND | 0.720 | | 1 |
| p/m-Xylene | ND | 0.400 | ND | 1.74 | | 1 |
| o-Xylene | ND | 0.200 | ND | 0.868 | | 1 |



Project Name: FORMER DARBY DRUG**Lab Number:** L0813541**Project Number:** AVB0801**Report Date:** 09/25/08

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 09/18/08 12:51

| Parameter | ppbV | | ug/m3 | | Qualifier | Dilution Factor |
|--|---------|-------|---------|-------|-----------|-----------------|
| | Results | RDL | Results | RDL | | |
| Low Level Volatile Organic Compounds in Air for sample(s): 07,11 Batch: WG336905-7 | | | | | | |
| Heptane | ND | 0.200 | ND | 0.819 | | 1 |
| n-Hexane | ND | 0.200 | ND | 0.704 | | 1 |
| Propylene | ND | 0.200 | ND | 0.344 | | 1 |
| Styrene | ND | 0.200 | ND | 0.851 | | 1 |
| Tetrachloroethene | ND | 0.200 | ND | 1.36 | | 1 |
| Tetrahydrofuran | ND | 0.200 | ND | 0.589 | | 1 |
| Toluene | ND | 0.200 | ND | 0.753 | | 1 |
| trans-1,2-Dichloroethene | ND | 0.200 | ND | 0.792 | | 1 |
| trans-1,3-Dichloropropene | ND | 0.200 | ND | 0.907 | | 1 |
| Trichloroethene | ND | 0.200 | ND | 1.07 | | 1 |
| Trichlorofluoromethane | ND | 0.200 | ND | 1.12 | | 1 |
| Vinyl acetate | ND | 0.200 | ND | 0.704 | | 1 |
| Vinyl bromide | ND | 0.200 | ND | 0.874 | | 1 |
| Vinyl chloride | ND | 0.200 | ND | 0.511 | | 1 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER DARBY DRUG

Project Number: AVB0801

Lab Number: L0813541

Report Date: 09/25/08

| Parameter | LCS %Recovery | LCSD %Recovery | %Recovery Limits | RPD | RPD Limits |
|---|------------------|-------------------|---------------------|-----|------------|
| Low Level Volatile Organic Compounds in Air Associated sample(s): 01-12 Batch: WG336905-2 | | | | | |
| 1,1,1-Trichloroethane | 109 | - | 70-130 | - | |
| 1,1,2,2-Tetrachloroethane | 106 | - | 70-130 | - | |
| 1,1,2-Trichloroethane | 95 | - | 70-130 | - | |
| 1,1-Dichloroethane | 107 | - | 70-130 | - | |
| 1,1-Dichloroethene | 101 | - | 70-130 | - | |
| 1,2,4-Trichlorobenzene | 123 | - | 70-130 | - | |
| 1,2,4-Trimethylbenzene | 118 | - | 70-130 | - | |
| 1,2-Dibromoethane | 98 | - | 70-130 | - | |
| 1,2-Dichlorobenzene | 113 | - | 70-130 | - | |
| 1,2-Dichloroethane | 119 | - | 70-130 | - | |
| 1,2-Dichloropropane | 86 | - | 70-130 | - | |
| 1,3,5-Trimethylbenzene | 112 | - | 70-130 | - | |
| 1,3-Butadiene | 93 | - | 70-130 | - | |
| 1,3-Dichlorobenzene | 113 | - | 70-130 | - | |
| 1,4-Dichlorobenzene | 111 | - | 70-130 | - | |
| 1,4-Dioxane | 106 | - | 70-130 | - | |
| 2,2,4-Trimethylpentane | 91 | - | 70-130 | - | |
| 2-Butanone | 107 | - | 70-130 | - | |
| 2-Hexanone | 104 | - | 70-130 | - | |
| 3-Chloropropene | 104 | - | 70-130 | - | |
| 4-Ethyltoluene | 114 | - | 70-130 | - | |

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER DARBY DRUG

Project Number: AVB0801

Lab Number: L0813541

Report Date: 09/25/08

| Parameter | LCS %Recovery | LCSD %Recovery | %Recovery Limits | RPD | RPD Limits |
|---|------------------|-------------------|---------------------|-----|------------|
| Low Level Volatile Organic Compounds in Air Associated sample(s): 01-12 Batch: WG336905-2 | | | | | |
| Acetone | 104 | - | 70-130 | - | |
| Benzene | 90 | - | 70-130 | - | |
| Benzyl chloride | 112 | - | 70-130 | - | |
| Bromodichloromethane | 100 | - | 70-130 | - | |
| Bromoform | 118 | - | 70-130 | - | |
| Bromomethane | 94 | - | 70-130 | - | |
| Carbon disulfide | 102 | - | 70-130 | - | |
| Carbon tetrachloride | 107 | - | 70-130 | - | |
| Chlorobenzene | 104 | - | 70-130 | - | |
| Chloroethane | 97 | - | 70-130 | - | |
| Chloroform | 115 | - | 70-130 | - | |
| Chloromethane | 94 | - | 70-130 | - | |
| cis-1,2-Dichloroethene | 107 | - | 70-130 | - | |
| cis-1,3-Dichloropropene | 86 | - | 70-130 | - | |
| Cyclohexane | 84 | - | 70-130 | - | |
| Dibromochloromethane | 110 | - | 70-130 | - | |
| Dichlorodifluoromethane | 105 | - | 70-130 | - | |
| Ethyl Alcohol | 105 | - | 70-130 | - | |
| Ethyl Acetate | 100 | - | 70-130 | - | |
| Ethylbenzene | 110 | - | 70-130 | - | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 106 | - | 70-130 | - | |

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER DARBY DRUG

Project Number: AVB0801

Lab Number: L0813541

Report Date: 09/25/08

| Parameter | LCS %Recovery | LCSD %Recovery | %Recovery Limits | RPD | RPD Limits |
|---|------------------|-------------------|---------------------|-----|------------|
| Low Level Volatile Organic Compounds in Air Associated sample(s): 01-12 Batch: WG336905-2 | | | | | |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | 102 | - | 70-130 | - | |
| Hexachlorobutadiene | 124 | - | 70-130 | - | |
| iso-Propyl Alcohol | 96 | - | 70-130 | - | |
| Methylene chloride | 91 | - | 70-130 | - | |
| 4-Methyl-2-pentanone | 97 | - | 70-130 | - | |
| Methyl tert butyl ether | 113 | - | 70-130 | - | |
| p/m-Xylene | 106 | - | 70-130 | - | |
| o-Xylene | 115 | - | 70-130 | - | |
| Heptane | 90 | - | 70-130 | - | |
| n-Hexane | 87 | - | 70-130 | - | |
| Propylene | 89 | - | 70-130 | - | |
| Styrene | 106 | - | 70-130 | - | |
| Tetrachloroethene | 115 | - | 70-130 | - | |
| Tetrahydrofuran | 92 | - | 70-130 | - | |
| Toluene | 98 | - | 70-130 | - | |
| trans-1,2-Dichloroethene | 102 | - | 70-130 | - | |
| trans-1,3-Dichloropropene | 80 | - | 70-130 | - | |
| Trichloroethene | 103 | - | 70-130 | - | |
| Trichlorofluoromethane | 118 | - | 70-130 | - | |
| Vinyl acetate | 105 | - | 70-130 | - | |
| Vinyl bromide | 102 | - | 70-130 | - | |

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER DARBY DRUG

Project Number: AVB0801

Lab Number: L0813541

Report Date: 09/25/08

| Parameter | LCS %Recovery | LCSD %Recovery | %Recovery Limits | RPD | RPD Limits |
|---|------------------|-------------------|---------------------|-----|------------|
| Low Level Volatile Organic Compounds in Air Associated sample(s): 01-12 Batch: WG336905-2 | | | | | |
| Vinyl chloride | 98 | - | 70-130 | - | |

| | | | | | |
|---|-----|---|--------|---|--|
| Low Level Volatile Organic Compounds in Air Associated sample(s): 07,11 Batch: WG336905-6 | | | | | |
| 1,1,1-Trichloroethane | 103 | - | 70-130 | - | |
| 1,1,2,2-Tetrachloroethane | 105 | - | 70-130 | - | |
| 1,1,2-Trichloroethane | 92 | - | 70-130 | - | |
| 1,1-Dichloroethane | 99 | - | 70-130 | - | |
| 1,1-Dichloroethene | 94 | - | 70-130 | - | |
| 1,2,4-Trichlorobenzene | 116 | - | 70-130 | - | |
| 1,2,4-Trimethylbenzene | 112 | - | 70-130 | - | |
| 1,2-Dibromoethane | 94 | - | 70-130 | - | |
| 1,2-Dichlorobenzene | 104 | - | 70-130 | - | |

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER DARBY DRUG

Project Number: AVB0801

Lab Number: L0813541

Report Date: 09/25/08

| Parameter | LCS %Recovery | LCSD %Recovery | %Recovery Limits | RPD | RPD Limits |
|---|------------------|-------------------|---------------------|-----|------------|
| Low Level Volatile Organic Compounds in Air Associated sample(s): 07,11 Batch: WG336905-6 | | | | | |
| 1,2-Dichloroethane | 110 | - | 70-130 | - | |
| 1,2-Dichloropropane | 85 | - | 70-130 | - | |
| 1,3,5-Trimethylbenzene | 109 | - | 70-130 | - | |
| 1,3-Butadiene | 88 | - | 70-130 | - | |
| 1,3-Dichlorobenzene | 108 | - | 70-130 | - | |
| 1,4-Dichlorobenzene | 105 | - | 70-130 | - | |
| 1,4-Dioxane | 104 | - | 70-130 | - | |
| 2,2,4-Trimethylpentane | 88 | - | 70-130 | - | |
| 2-Butanone | 105 | - | 70-130 | - | |
| 2-Hexanone | 102 | - | 70-130 | - | |
| 3-Chloropropene | 97 | - | 70-130 | - | |
| 4-Ethyltoluene | 107 | - | 70-130 | - | |
| Acetone | 104 | - | 70-130 | - | |
| Benzene | 87 | - | 70-130 | - | |
| Benzyl chloride | 103 | - | 70-130 | - | |
| Bromodichloromethane | 95 | - | 70-130 | - | |
| Bromoform | 111 | - | 70-130 | - | |
| Bromomethane | 85 | - | 70-130 | - | |
| Carbon disulfide | 94 | - | 70-130 | - | |
| Carbon tetrachloride | 101 | - | 70-130 | - | |
| Chlorobenzene | 100 | - | 70-130 | - | |

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER DARBY DRUG

Project Number: AVB0801

Lab Number: L0813541

Report Date: 09/25/08

| Parameter | LCS %Recovery | LCSD %Recovery | %Recovery Limits | RPD | RPD Limits |
|---|------------------|-------------------|---------------------|-----|------------|
| Low Level Volatile Organic Compounds in Air Associated sample(s): 07,11 Batch: WG336905-6 | | | | | |
| Chloroethane | 93 | - | 70-130 | - | |
| Chloroform | 111 | - | 70-130 | - | |
| Chloromethane | 89 | - | 70-130 | - | |
| cis-1,2-Dichloroethene | 100 | - | 70-130 | - | |
| cis-1,3-Dichloropropene | 82 | - | 70-130 | - | |
| Cyclohexane | 83 | - | 70-130 | - | |
| Dibromochloromethane | 105 | - | 70-130 | - | |
| Dichlorodifluoromethane | 102 | - | 70-130 | - | |
| Ethyl Alcohol | 105 | - | 70-130 | - | |
| Ethyl Acetate | 114 | - | 70-130 | - | |
| Ethylbenzene | 100 | - | 70-130 | - | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 99 | - | 70-130 | - | |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | 94 | - | 70-130 | - | |
| Hexachlorobutadiene | 117 | - | 70-130 | - | |
| iso-Propyl Alcohol | 96 | - | 70-130 | - | |
| Methylene chloride | 87 | - | 70-130 | - | |
| 4-Methyl-2-pentanone | 97 | - | 70-130 | - | |
| Methyl tert butyl ether | 110 | - | 70-130 | - | |
| p/m-Xylene | 104 | - | 70-130 | - | |
| o-Xylene | 104 | - | 70-130 | - | |
| Heptane | 87 | - | 70-130 | - | |

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER DARBY DRUG

Project Number: AVB0801

Lab Number: L0813541

Report Date: 09/25/08

| Parameter | LCS %Recovery | LCSD %Recovery | %Recovery Limits | RPD | RPD Limits |
|---|------------------|-------------------|---------------------|-----|------------|
| Low Level Volatile Organic Compounds in Air Associated sample(s): 07,11 Batch: WG336905-6 | | | | | |
| n-Hexane | 96 | - | 70-130 | - | |
| Propylene | 88 | - | 70-130 | - | |
| Styrene | 103 | - | 70-130 | - | |
| Tetrachloroethene | 108 | - | 70-130 | - | |
| Tetrahydrofuran | 110 | - | 70-130 | - | |
| Toluene | 96 | - | 70-130 | - | |
| trans-1,2-Dichloroethene | 96 | - | 70-130 | - | |
| trans-1,3-Dichloropropene | 76 | - | 70-130 | - | |
| Trichloroethene | 97 | - | 70-130 | - | |
| Trichlorofluoromethane | 105 | - | 70-130 | - | |
| Vinyl acetate | 103 | - | 70-130 | - | |
| Vinyl bromide | 97 | - | 70-130 | - | |
| Vinyl chloride | 90 | - | 70-130 | - | |

Lab Duplicate Analysis Batch Quality Control

Project Name: FORMER DARBY DRUG

Project Number: AVB0801

Lab Number: L0813541

Report Date: 09/25/08

| Parameter | Native Sample | Duplicate Sample | Units | RPD | RPD Limits |
|--|---------------|------------------|-------|-----|------------|
| Low Level Volatile Organic Compounds in Air Associated sample(s): 01-12 QC Batch ID: WG336905-4 QC Sample: L0813541-05 Client ID: PWG-SG-2008-05 | | | | | |
| 1,1,1-Trichloroethane | ND | ND | ppbV | NC | 25 |
| 1,1,2,2-Tetrachloroethane | ND | ND | ppbV | NC | 25 |
| 1,1,2-Trichloroethane | ND | ND | ppbV | NC | 25 |
| 1,1-Dichloroethane | ND | ND | ppbV | NC | 25 |
| 1,1-Dichloroethene | ND | ND | ppbV | NC | 25 |
| 1,2,4-Trichlorobenzene | ND | ND | ppbV | NC | 25 |
| 1,2,4-Trimethylbenzene | ND | ND | ppbV | NC | 25 |
| 1,2-Dibromoethane | ND | ND | ppbV | NC | 25 |
| 1,2-Dichlorobenzene | ND | ND | ppbV | NC | 25 |
| 1,2-Dichloroethane | ND | ND | ppbV | NC | 25 |
| 1,2-Dichloropropane | ND | ND | ppbV | NC | 25 |
| 1,3,5-Trimethylbenzene | ND | ND | ppbV | NC | 25 |
| 1,3-Butadiene | ND | ND | ppbV | NC | 25 |
| 1,3-Dichlorobenzene | ND | ND | ppbV | NC | 25 |
| 1,4-Dichlorobenzene | 2.88 | 3.03 | ppbV | 5 | 25 |
| 1,4-Dioxane | ND | ND | ppbV | NC | 25 |
| 2,2,4-Trimethylpentane | ND | ND | ppbV | NC | 25 |
| 2-Butanone | 143 | 134 | ppbV | 6 | 25 |
| 2-Hexanone | 2.31 | 2.37 | ppbV | 3 | 25 |

Lab Duplicate Analysis Batch Quality Control

Project Name: FORMER DARBY DRUG

Project Number: AVB0801

Lab Number: L0813541

Report Date: 09/25/08

| Parameter | Native Sample | Duplicate Sample | Units | RPD | RPD Limits |
|--|---------------|------------------|-------|-----|------------|
| Low Level Volatile Organic Compounds in Air Associated sample(s): 01-12 QC Batch ID: WG336905-4 QC Sample: L0813541-05 Client ID: PWG-SG-2008-05 | | | | | |
| 3-Chloropropene | ND | ND | ppbV | NC | 25 |
| 4-Ethyltoluene | ND | ND | ppbV | NC | 25 |
| Acetone | >1000 | >1000 | ppbV | NC | 25 |
| Benzene | ND | ND | ppbV | NC | 25 |
| Benzyl chloride | ND | ND | ppbV | NC | 25 |
| Bromodichloromethane | ND | ND | ppbV | NC | 25 |
| Bromoform | ND | ND | ppbV | NC | 25 |
| Bromomethane | ND | ND | ppbV | NC | 25 |
| Carbon disulfide | ND | ND | ppbV | NC | 25 |
| Carbon tetrachloride | ND | ND | ppbV | NC | 25 |
| Chlorobenzene | ND | ND | ppbV | NC | 25 |
| Chloroethane | ND | ND | ppbV | NC | 25 |
| Chloroform | ND | ND | ppbV | NC | 25 |
| Chloromethane | ND | ND | ppbV | NC | 25 |
| cis-1,2-Dichloroethene | ND | ND | ppbV | NC | 25 |
| cis-1,3-Dichloropropene | ND | ND | ppbV | NC | 25 |
| Cyclohexane | ND | ND | ppbV | NC | 25 |
| Dibromochloromethane | ND | ND | ppbV | NC | 25 |
| Dichlorodifluoromethane | ND | ND | ppbV | NC | 25 |

Lab Duplicate Analysis Batch Quality Control

Project Name: FORMER DARBY DRUG

Project Number: AVB0801

Lab Number: L0813541

Report Date: 09/25/08

| Parameter | Native Sample | Duplicate Sample | Units | RPD | RPD Limits |
|--|---------------|------------------|-------|-----|------------|
| Low Level Volatile Organic Compounds in Air Associated sample(s): 01-12 QC Batch ID: WG336905-4 QC Sample: L0813541-05 Client ID: PWG-SG-2008-05 | | | | | |
| Ethanol | 110 | 102 | ppbV | 8 | 25 |
| Ethyl Acetate | ND | ND | ppbV | NC | 25 |
| Ethylbenzene | ND | ND | ppbV | NC | 25 |
| Freon-113 | ND | ND | ppbV | NC | 25 |
| Freon-114 | ND | ND | ppbV | NC | 25 |
| Hexachlorobutadiene | ND | ND | ppbV | NC | 25 |
| Isopropanol | 53.0 | 50.4 | ppbV | 5 | 25 |
| Methylene chloride | ND | ND | ppbV | NC | 25 |
| 4-Methyl-2-pentanone | ND | ND | ppbV | NC | 25 |
| Methyl tert butyl ether | ND | ND | ppbV | NC | 25 |
| p/m-Xylene | ND | ND | ppbV | NC | 25 |
| o-Xylene | ND | ND | ppbV | NC | 25 |
| Heptane | ND | ND | ppbV | NC | 25 |
| n-Hexane | ND | ND | ppbV | NC | 25 |
| Propylene | 157 | 149 | ppbV | 5 | 25 |
| Styrene | ND | ND | ppbV | NC | 25 |
| Tetrachloroethene | 2.95 | 2.71 | ppbV | 8 | 25 |
| Tetrahydrofuran | ND | ND | ppbV | NC | 25 |
| Toluene | 3.75 | 3.41 | ppbV | 9 | 25 |

Lab Duplicate Analysis Batch Quality Control

Project Name: FORMER DARBY DRUG

Project Number: AVB0801

Lab Number: L0813541

Report Date: 09/25/08

| Parameter | Native Sample | Duplicate Sample | Units | RPD | RPD Limits |
|--|---------------|------------------|-------|-----|------------|
| Low Level Volatile Organic Compounds in Air Associated sample(s): 01-12 QC Batch ID: WG336905-4 QC Sample: L0813541-05 Client ID: PWG-SG-2008-05 | | | | | |
| trans-1,2-Dichloroethene | ND | ND | ppbV | NC | 25 |
| trans-1,3-Dichloropropene | ND | ND | ppbV | NC | 25 |
| Trichloroethene | ND | ND | ppbV | NC | 25 |
| Trichlorofluoromethane | ND | ND | ppbV | NC | 25 |
| Vinyl acetate | ND | ND | ppbV | NC | 25 |
| Vinyl bromide | ND | ND | ppbV | NC | 25 |
| Vinyl chloride | ND | ND | ppbV | NC | 25 |
| Low Level Volatile Organic Compounds in Air Associated sample(s): 01-12 QC Batch ID: WG336905-4 QC Sample: L0813541-05 Client ID: PWG-SG-2008-05 | | | | | |
| Acetone | 800 | 925 | ppbV | 14 | 25 |

Project Name: FORMER DARBY DRUG09250813:57
Lab Number: L0813541**Project Number:** AVB0801**Report Date:** 09/25/08**Canister and Flow Controller Information**

| Samplenum | Client ID | Media ID | Media Type | Cleaning Batch ID | Initial Pressure (in. Hg) | Pressure on Receipt (in. Hg) | Flow Out mL/min | Flow In mL/min | % RSD |
|-------------|----------------|----------|------------|-------------------|---------------------------|------------------------------|-----------------|----------------|-------|
| L0813541-01 | PWG-SG-2008-01 | 0021 | #30 SV | | - | - | 19.6 | 20.0 | 2 |
| L0813541-01 | PWG-SG-2008-01 | 452 | 2.7L Can | I0812952 | -29.7 | -3.7 | - | - | - |
| L0813541-02 | PWG-SG-2008-02 | 0100 | #30 AMB | | - | - | 19.5 | 20.0 | 3 |
| L0813541-02 | PWG-SG-2008-02 | 490 | 2.7L Can | I0812952 | -29.7 | -2.8 | - | - | - |
| L0813541-03 | PWG-SG-2008-03 | 0406 | #30 SV | | - | - | 19.7 | 21.4 | 8 |
| L0813541-03 | PWG-SG-2008-03 | 484 | 2.7L Can | I0812952 | -29.6 | -4.2 | - | - | - |
| L0813541-04 | PWG-SG-2008-04 | 0322 | #30 SV | | - | - | 19.3 | 19.3 | 0 |
| L0813541-04 | PWG-SG-2008-04 | 401 | 2.7L Can | I0812952 | -29.7 | -5.0 | - | - | - |
| L0813541-05 | PWG-SG-2008-05 | 0324 | #30 SV | | - | - | 19.6 | 19.9 | 2 |
| L0813541-05 | PWG-SG-2008-05 | 554 | 2.7L Can | I0812952 | -29.1 | -3.8 | - | - | - |
| L0813541-06 | PWG-SG-2008-06 | 0414 | #30 SV | | - | - | 19.5 | 20.0 | 3 |
| L0813541-06 | PWG-SG-2008-06 | 497 | 2.7L Can | I0812952 | -29.7 | -3.8 | - | - | - |
| L0813541-07 | PWG-SG-2008-07 | 0299 | #30 SV | | - | - | 19.7 | 20.0 | 2 |
| L0813541-07 | PWG-SG-2008-07 | 324 | 2.7L Can | I0812952 | -29.7 | -3.3 | - | - | - |
| L0813541-08 | PWG-SG-2008-08 | 0094 | #30 SV | | - | - | 19.6 | 20.0 | 2 |
| L0813541-08 | PWG-SG-2008-08 | 409 | 2.7L Can | I0812952 | -29.7 | -3.3 | - | - | - |
| L0813541-09 | PWG-SG-2008-09 | 0333 | #30 SV | | - | - | 19.6 | 20.0 | 2 |



Project Name: FORMER DARBY DRUG

09250813:57
Lab Number: L0813541

Project Number: AVB0801

Report Date: 09/25/08

Canister and Flow Controller Information

| Samplenum | Client ID | Media ID | Media Type | Cleaning Batch ID | Initial Pressure (in. Hg) | Pressure on Receipt (in. Hg) | Flow Out mL/min | Flow In mL/min | % RSD |
|-------------|----------------|----------|------------|-------------------|---------------------------|------------------------------|-----------------|----------------|-------|
| L0813541-09 | PWG-SG-2008-09 | 475 | 2.7L Can | I0812952 | -29.7 | -3.7 | - | - | - |
| L0813541-10 | PWG-SG-2008-10 | 0347 | #30 SV | | - | - | 19.8 | 21.1 | 6 |
| L0813541-10 | PWG-SG-2008-10 | 376 | 2.7L Can | I0812952 | -29.7 | -4.3 | - | - | - |
| L0813541-11 | PWG-SG-2008-11 | 0098 | #16 SV | | - | - | 19.5 | 20.0 | 3 |
| L0813541-11 | PWG-SG-2008-11 | 526 | 2.7L Can | I0812952 | -29.7 | -3.2 | - | - | - |
| L0813541-12 | PWG-SG-2008-12 | 0337 | #30 SV | | - | - | 19.7 | 20.0 | 2 |
| L0813541-12 | PWG-SG-2008-12 | 384 | 2.7L Can | I0812952 | -29.7 | -3.7 | - | - | - |



Project Name: FORMER DARBY DRUG**Lab Number:** L0813541**Project Number:** AVB0801**Report Date:** 09/25/08**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

Cooler Information

| | |
|---------------|---------------------|
| Cooler | Custody Seal |
| N/A | Absent |

Container Information

| Container ID | Container Type | Cooler | pH | Temp | Pres | Seal | Analysis |
|--------------|----------------------|--------|----|------|------|--------|-------------|
| L0813541-01A | Canister - 2.7 Liter | N/A | NA | | NA | Absent | TO15-LL(30) |
| L0813541-02A | Canister - 2.7 Liter | N/A | NA | | NA | Absent | TO15-LL(30) |
| L0813541-03A | Canister - 2.7 Liter | N/A | NA | | NA | Absent | TO15-LL(30) |
| L0813541-04A | Canister - 2.7 Liter | N/A | NA | | NA | Absent | TO15-LL(30) |
| L0813541-05A | Canister - 2.7 Liter | N/A | NA | | NA | Absent | TO15-LL(30) |
| L0813541-06A | Canister - 2.7 Liter | N/A | NA | | NA | Absent | TO15-LL(30) |
| L0813541-07A | Canister - 2.7 Liter | N/A | NA | | NA | Absent | TO15-LL(30) |
| L0813541-08A | Canister - 2.7 Liter | N/A | NA | | NA | Absent | TO15-LL(30) |
| L0813541-09A | Canister - 2.7 Liter | N/A | NA | | NA | Absent | TO15-LL(30) |
| L0813541-10A | Canister - 2.7 Liter | N/A | NA | | NA | Absent | TO15-LL(30) |
| L0813541-11A | Canister - 2.7 Liter | N/A | NA | | NA | Absent | TO15-LL(30) |
| L0813541-12A | Canister - 2.7 Liter | N/A | NA | | NA | Absent | TO15-LL(30) |

*Hold days indicated by values in parentheses

Project Name: FORMER DARBY DRUG
Project Number: AVB0801

Lab Number: L0813541
Report Date: 09/25/08

GLOSSARY

Acronyms

- EPA - Environmental Protection Agency.
LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD- Laboratory Control Sample Duplicate: Refer to LCS.
MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD - Matrix Spike Sample Duplicate: Refer to MS.
NA - Not Applicable.
NI - Not Ignitable.
NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
ND - Not detected at the reported detection limit for the sample.
RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

The following data qualifiers have been identified for use under the CT DEP Reasonable Confidence Protocols.

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

J - Estimated value. The analyte was tentatively identified; the quantitation is an estimation. (Tentatively identified compounds only.)

Standard Qualifiers

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

Report Format: Not Specified



Project Name: FORMER DARBY DRUG
Project Number: AVB0801

Lab Number: L0813541
Report Date: 09/25/08

REFERENCES

- 48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Woods Hole Labs.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



AIR ANALYSIS

PAGE 1 OF 2

ANALYTICAL CHAIN OF CUSTODY
 320 Forbes Blvd, Mansfield, MA 02048
 TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: PWGL
 Address: 630 Johnson Ave, Ste 7
Bolton MA 01716
 Phone: 631 581 6353
 Fax: 631 581 8705
 Email: thomas@pwsystems.com

☒ Standard ☐ RUSH (only confirmed if pre-approved)
 10 DAYS
 Date Due: _____ Time: _____

Other Project Specific Requirements/Comments:
Vacuum quote on regulator 0021 (56-01) was loose. Please test regulator to determine whether it is leaking. If so, do not analyze sample.

All Columns Below Must Be Filled Out

Date Rec'd in Lab: _____
 Report Information - Data Deliverables
☒ FAX
☒ INDEX
 Criteria Checker: _____
 (Default based on Regulatory Criteria Indicated)
 Other Formats: _____
☐ EMAIL (standard pdf report)
 Additional Deliverables: ASPCat B Deliverables
 Report to: (if different than Project Manager) _____

ALPHA Job #: 10813541
 Billing Information
☐ Same as Client info PO #: _____

Regulatory Requirements/Report Limits
 State/Fed Program Criteria

ANALYSIS

| ALPHA Lab ID (Lab Use Only) | Sample ID | Collection | | | | Sample Matrix* | Sampler's Initials | Can Size | ID Can | ID - Flow Controller | Sample Comments (i.e. PID) |
|--------------------------------|-----------------|------------|------------|----------|----------------|----------------|--------------------|----------|--------|----------------------|----------------------------|
| | | Date | Start Time | End Time | Initial Vacuum | Final Vacuum | | | | | |
| 1 | PWGL-SG-2008-01 | 9-10-08 | 11:16 | 13:10 | -30 | -10 | SV | TM | 2.7 | 452 | 0021 |
| 2 | PWGL-SG-2008-02 | 9-10-08 | 11:35 | 13:30 | -30 | -5 | SV | TM | 2.7 | 450 | 0100 |
| 3 | PWGL-SG-2008-03 | 9-10-08 | 11:44 | 13:34 | -29 | -5 | SV | TM | 2.7 | 484 | 0406 |
| 4 | PWGL-SG-2008-04 | 9-10-08 | 10:29 | 12:29 | -30 | -6 | SV | TM | 2.7 | 401 | 0322 |
| 5 | PWGL-SG-2008-05 | 9-10-08 | 10:34 | 12:34 | -28 | -5 | SV | TM | 2.7 | 554 | 0324 |
| 6 | PWGL-SG-2008-06 | 9-10-08 | 10:40 | 12:34 | -30 | -6 | SV | TM | 2.7 | 447 | 0414 |
| 7 | PWGL-SG-2008-07 | 9-10-08 | 10:44 | 12:40 | -30 | -8 | SV | TM | 2.7 | 324 | 0299 |
| 8 | PWGL-SG-2008-08 | 9-10-08 | 10:47 | 12:42 | -30 | -10 | SV | TM | 2.7 | 409 | 0094 |
| 9 | PWGL-SG-2008-09 | 9-10-08 | 11:00 | 12:53 | -30 | -5 | SV | TM | 2.7 | 475 | 0333 |
| 10 | PWGL-SG-2008-10 | 9-10-08 | 10:55 | 12:44 | -30 | -6 | SV | TM | 2.7 | 376 | 0347 |

*SAMPLE MATRIX CODES
 AA = Ambient Air (Indoor/Outdoor)
 SV = Soil Vapor/Landfill Gas/SVE
 Other = Please Specify

Container Type

Date/Time:

Relinquished By: _____ Date/Time: _____
 Received By: _____ Date/Time: _____
 Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

ALPHA ANALYTICAL

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220 www.alphalab.com

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAA000065 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: P.W. Grosser

Laboratory Job Number: L0813344

Address: 630 Johnson Avenue
Suite 7
Bohemia, NY 11716

Date Received: 09-SEP-2008

Date Reported: 25-SEP-2008

Attn: Mr. Kris Almskog

Delivery Method: Alpha

Project Number: AVB0801

Site: AVALON BAY

| ALPHA SAMPLE NUMBER | CLIENT IDENTIFICATION | SAMPLE LOCATION |
|---------------------|-----------------------------|---------------------------------|
| L0813344-01 | FB090808 | 80 BANKS AVE., ROCKVILLE CENTRE |
| L0813344-02 | TB090808-1 | 80 BANKS AVE., ROCKVILLE CENTRE |
| L0813344-03 | TB090808-2 | 80 BANKS AVE., ROCKVILLE CENTRE |
| L0813344-04 | PWG-DW-2008-01 (7.25-7.75') | 80 BANKS AVE., ROCKVILLE CENTRE |
| L0813344-05 | PWG-DW-2008-02 (5.25-5.75') | 80 BANKS AVE., ROCKVILLE CENTRE |
| L0813344-06 | PWG-DW-2008-03 (8.75-9.25') | 80 BANKS AVE., ROCKVILLE CENTRE |
| L0813344-07 | PWG-DW-2008-04 (7.25-7.75') | 80 BANKS AVE., ROCKVILLE CENTRE |
| L0813344-08 | PWG-DW-2008-05 (6.75-7.25') | 80 BANKS AVE., ROCKVILLE CENTRE |
| L0813344-09 | PWG-DW-2008-06 (6.75-7.25') | 80 BANKS AVE., ROCKVILLE CENTRE |
| L0813344-10 | PWG-DW-2008-07 (6.75-7.25') | 80 BANKS AVE., ROCKVILLE CENTRE |
| L0813344-11 | PWG-DW-2008-08 (5.25-5.75') | 80 BANKS AVE., ROCKVILLE CENTRE |
| L0813344-12 | PWG-DW-2008-09 (6.75-7.25') | 80 BANKS AVE., ROCKVILLE CENTRE |
| L0813344-13 | PWG-DW-2008-10 (6.25-6.75') | 80 BANKS AVE., ROCKVILLE CENTRE |
| L0813344-14 | PWG-DW-2008-11 (6.75-7.25') | 80 BANKS AVE., ROCKVILLE CENTRE |
| L0813344-15 | PWG-DW-2008-12 (7.25-7.75') | 80 BANKS AVE., ROCKVILLE CENTRE |
| L0813344-16 | PWG-DW-2008-13 (7.25-7.75') | 80 BANKS AVE., ROCKVILLE CENTRE |
| L0813344-17 | PWG-DW-2008-14 (6-6.5') | 80 BANKS AVE., ROCKVILLE CENTRE |
| L0813344-18 | PWG-DW-2008-15 (7-7.5') | 80 BANKS AVE., ROCKVILLE CENTRE |
| L0813344-19 | PWG-DW-2008-100 (7-7.5') | 80 BANKS AVE., ROCKVILLE CENTRE |
| L0813344-20 | PWG-LP-2008-01 (7.75-8.25') | 80 BANKS AVE., ROCKVILLE CENTRE |
| L0813344-21 | PWG-DW-2008-16 (5.5-6') | 80 BANKS AVE., ROCKVILLE CENTRE |
| L0813344-22 | PWG-DW-2008-17 (5.5-6') | 80 BANKS AVE., ROCKVILLE CENTRE |
| L0813344-23 | PWG-DW-2008-18 (4-4.5') | 80 BANKS AVE., ROCKVILLE CENTRE |
| L0813344-24 | PWG-DW-2008-19 (4.5-5') | 80 BANKS AVE., ROCKVILLE CENTRE |

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: _____

Technical Representative

ALPHA ANALYTICAL

Laboratory Job Number: L0813344

Date Reported: 25-SEP-2008

| ALPHA SAMPLE NUMBER | CLIENT IDENTIFICATION | SAMPLE LOCATION |
|---------------------|-----------------------------|---------------------------------|
| L0813344-25 | PWG-DW-2008-20 (4.5-5') | 80 BANKS AVE., ROCKVILLE CENTRE |
| L0813344-26 | PWG-DW-2008-22 (5.25-5.75') | 80 BANKS AVE., ROCKVILLE CENTRE |
| L0813344-27 | PWG-DW-2008-23 (3-3.5') | 80 BANKS AVE., ROCKVILLE CENTRE |
| L0813344-28 | PWG-DW-2008-24 (6-6.5') | 80 BANKS AVE., ROCKVILLE CENTRE |
| L0813344-29 | PWG-DW-2008-25 (5.75-6.25') | 80 BANKS AVE., ROCKVILLE CENTRE |
| L0813344-30 | PWG-DW-2008-26 (4.25-4.75') | 80 BANKS AVE., ROCKVILLE CENTRE |

**ALPHA ANALYTICAL
NARRATIVE REPORT**

Laboratory Job Number: L0813344

Report Submission

This report replaces the report issued September 19, 2008. Upon review of the data validation package it was noticed that sample L0813344-22 for TPH-DRO-D was not properly integrated. The result for the TPH-DRO-D has been amended on L0813344-22.

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

Sample Receipt

At the client's request, sample "PWG-DW-2008-10 (6.25-6.75')\" was taken off of hold and analyzed NYTCL-8260, NYTCL-8270/8270SIM, TPH-DRO-D, TAL METALS, and TS.

Metals

The following samples have elevated detection limits for Calcium due to the dilutions required to quantitate the results within the calibration range:

L0813344-05, -13: 5x

L0813344-21, -23: 10x

L0813344-26 and -29 have elevated detection limits for Thallium due to the 2x dilutions required by matrix interferences encountered during analysis.

L0813344-29 has an elevated detection limit for Aluminum due to the 2x dilution required to quantitate the result within the calibration range.

The WG335803-1 Laboratory Duplicate RPDs associated with L0813344-26 are outside the acceptance criteria for Aluminum (67%), Arsenic (157%), Chromium (156%), Copper (87%), Iron (153%), Manganese (39%), Nickel (87%), Vanadium (120%), and Zinc (53%). The elevated RPDs have been attributed to the non-homogenous nature of the sample utilized for the laboratory duplicate.

The WG335802-1 Laboratory Duplicate RPDs associated with L0813344-10 are outside the acceptance criteria for Aluminum (60%), Arsenic (38%), Barium (57%), Calcium (102%), Copper (83%), Iron (75%), Lead (74%), Magnesium (101%), Nickel (65%), Vanadium (73%), and Zinc (67%). The elevated RPDs have been attributed to the non-homogenous nature of the sample utilized for the laboratory duplicate.

The WG335803-2 MS recoveries associated with L0813344-26 are outside the acceptance criteria for Antimony (72%), Arsenic (0%), Beryllium (74%), Chromium (0%), Copper (57%), Manganese (40%), Nickel (72%), Vanadium (47%), and Zinc (43%). Post digestion spikes were performed with acceptable recoveries of 104%, 117%, 103%, 99%, 100%, 97%, 94%, 100%, and 97%, respectively. The MS recoveries for Aluminum (0%), Calcium (0%), Iron (0%), and Magnesium (0%) are invalid because the sample concentration is greater than four times the spike amount added.

ALPHA ANALYTICAL
NARRATIVE REPORT

Laboratory Job Number: L0813344

Continued

The WG336225-4 MS recovery for Mercury (0%) associated with L0813344-25 is invalid because the sample concentration is greater than four times the spike amount added.

The WG336007-1/-2 MS/MSD recoveries associated with L0813344-13 are outside the acceptance criteria for Antimony (64%/65%), Lead (MS at 137%), and Manganese (32%/40%). Post digestion spikes were performed with acceptable recoveries of 107%, 84%, and 101%, respectively. The MS/MSD recoveries for Aluminum (437%/308%), Calcium (0%/154%), Iron (1160%/0%), and Magnesium (0%/0%) are invalid because the sample concentration is greater than four times the spike amount added. In addition, the associated MS/MSD RPDs are above the acceptance criteria for Calcium (200%) and Iron (200%).

The WG335802-2/-3 MS/MSD recoveries associated with L0813344-10 are outside the acceptance criteria for Antimony (58%/71%), Copper (140%/160%), Lead (149%/181%), Thallium (MS at 73%), and Zinc (182%/246%). Post digestion spikes were performed with acceptable recoveries of 91%, 88%, 89%, 89%, respectively. The post digestion spike for Zinc had an unacceptable recovery of 67%; this has been attributed to the sample matrix. The MS/MSD recoveries for Aluminum (608%/693%), Calcium (0%/462%), Iron (4710%/2460%) and Magnesium (0%/0%) are invalid because the sample concentration is greater than four times the spike amount added. In addition, the MS/MSD RPDs are above the acceptance criteria for Calcium (200%) and Iron (63%).

The WG336055-3/-4 MS/MSD recoveries associated with L0813344-10 are above the acceptance criteria for Mercury (164%/160%). A post digestion spike was performed with an acceptable recovery of 98%.

The WG336007-3 Method Blank associated with L0813344-13 has a concentration above the reporting limit for Aluminum. Since the associated sample concentration is 10x the blank concentration for this analyte, no corrective action is required. The results of the original analysis are reported.

Volatile Organics

The surrogate recovery for L0813344-17 was outside the acceptance criteria for 4-Bromofluorobenzene (135%); however, re-analysis within the holding time holding time achieved similar results. The results of both analyses are reported.

The surrogate recovery for L0813344-27 is above the acceptance criteria for 4-Bromofluorobenzene (138%). Since the sample was non-detect for all target analytes, re-analysis is not required.

The WG336351-7/-8 MS/MSD recoveries are below the acceptance criteria for Chlorobenzene (53%/58%); however, the associated LCS recoveries are within criteria. No further action was required.

Semivolatile Organics

The following samples have elevated detection limits due to the dilutions required by the sample matrices:

ALPHA ANALYTICAL
NARRATIVE REPORT

Laboratory Job Number: L0813344

Continued

L0813344-05, -12, -13, -27, -30: 5x

L0813344-17, -22, -23, -24: 2x

L0813344-10 and -25 have elevated detection limits due to the 2x dilutions required by the matrix interferences encountered during the concentration of the samples and the 5x dilutions required by the sample matrices.

The WG335861-3 LCSD recovery associated with L0813344-13, -20, and -26 through 30 was above the acceptance criteria for 2,4-Dinitrotoluene (90%); however, the associated samples were non-detect for this target compound. The results of the original analysis are reported.

The WG335862-2 LCS recovery associated with L0813344-05 through -10, -12, -14 through -19, and -21 through -25 was above the acceptance criteria for 2,4-Dinitrotoluene (90%); however, the associated samples were non-detect for this target compound. The results of the original analysis are reported.

The WG335862-4/-5 MS/MSD recoveries associated with L0813344-10 were above the acceptance criteria for 2,4-Dinitrophenol (150%/150%) and Pentachlorophenol (150%/150%); however, the associated LCS/LCSD recoveries were within criteria.

The WG335862-5 MSD recovery associated with L0813344-10 was above the acceptance criteria for 2,4-Dinitrotoluene (90%); however, the associated samples were non-detect for this target compound. The results of the original analysis are reported. Semivolatile Organics-SIM

The following samples have elevated detection limits due to the dilutions required by the sample matrices:

L0813344-04, -06, -07, -08, -18, -19, -21, -28: 5x

L0813344-05, -12, -17, -22, -27, -30: 50x

L0813344-13: 10x

L0813344-14, -15, -26: 2x

L0813344-10 and -25 have elevated detection limits due to the 2x dilutions required by the matrix interferences encountered during the concentration of the samples and the 50x dilutions required by the sample matrices.

L0813344-23 has elevated detection limits due to the 5x dilution required by the matrix interferences encountered during the concentration of the sample and the 10x dilution required by the sample matrix.

The surrogate recoveries for L0813344-05, -10, -12, -17, -22, -23, -25, -27, and -30 are below the acceptance criteria for 2-Fluorophenol, Phenol-d6, Nitrobenzene-d5, 2-Fluorobiphenyl, 2,4,6-Tribromophenol, and 4-Terphenyl-d14 (all ND) due to the dilutions required to quantitate the samples. Re-extraction is not required; therefore, the results of the original analyses are reported.

The WG335863-4 MS recovery associated with L0813344-10 is below the acceptance criteria

ALPHA ANALYTICAL
NARRATIVE REPORT

Laboratory Job Number: L0813344

Continued

for 2-Chloronaphthalene (36%); however, the associated LCS recovery is within criteria. No further action was required.

The surrogate recoveries for WG335863-4/-5 MS/MSD are below the acceptance criteria for 2-Fluorophenol, Phenol-d6, Nitrobenzene-d5, 2-Fluorobiphenyl, 2,4,6-Tribromophenol, and 4-Terphenyl-d14 (all 0%) due to the dilutions required to quantitate the samples. Re-extraction is not required; therefore, the results of the original analysis are reported.

TPH-DRO

The following samples have elevated detection limits due to the dilutions required by matrix interferences encountered during the concentration of the samples:

L0813344-05, -27, -30: 5x

L0813344-10: 10x

L0813344-17 and -28 have elevated detection limits due to the 5x dilutions required by the elevated concentrations of target compounds in the samples.

L0813344-25 has an elevated detection limit due to the 5x dilution required by the matrix interferences encountered during the concentration of the sample and the 5x dilution required by the elevated concentrations of target compounds in the sample.

The WG335858-4/-5 MS/MSD recoveries associated with L0813344-10 are outside the acceptance criteria (0%/188%). The unacceptable percent recoveries are attributed to the elevated concentrations of target compounds present in the sample utilized for the MS/MSD. In addition, the associated MS/MSD RPD is above the acceptance criteria (200%).

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|---------------------------------------|-----------------------------------|
| Laboratory Sample Number: L0813344-01 | Date Collected: 08-SEP-2008 16:45 |
| FB090808 | Date Received : 09-SEP-2008 |
| Sample Matrix: WATER | Date Reported : 25-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 2-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-------------------|----|
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0911 15:30 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | |
| Chloroform | ND | ug/l | 0.75 | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | |
| Tetrachloroethene | ND | ug/l | 0.50 | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | |
| Bromoform | ND | ug/l | 2.0 | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Benzene | ND | ug/l | 0.50 | | | |
| Toluene | ND | ug/l | 0.75 | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | |
| Chloromethane | ND | ug/l | 2.5 | | | |
| Bromomethane | ND | ug/l | 1.0 | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | |
| Chloroethane | ND | ug/l | 1.0 | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | |
| Trichloroethene | ND | ug/l | 0.50 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| Methyl tert butyl ether | ND | ug/l | 1.0 | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | |
| o-Xylene | ND | ug/l | 1.0 | | | |
| cis-1,2-Dichloroethene | ND | ug/l | 0.50 | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-01
FB090808

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0911 15:30 PD | | |
| Styrene | ND | ug/l | 1.0 | | | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | | | |
| Acetone | ND | ug/l | 5.0 | | | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | | | |
| 2-Butanone | ND | ug/l | 5.0 | | | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | | | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | | | |
| Naphthalene | ND | ug/l | 2.5 | | | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 1,2-Dichloroethane-d4 | 104 | % | 70-130 | | | | | |
| Toluene-d8 | 100 | % | 70-130 | | | | | |
| 4-Bromofluorobenzene | 106 | % | 70-130 | | | | | |
| Dibromofluoromethane | 95.0 | % | 70-130 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|---------------------------------------|-----------------------------------|
| Laboratory Sample Number: L0813344-02 | Date Collected: 08-SEP-2008 16:50 |
| TB090808-1 | Date Received : 09-SEP-2008 |
| Sample Matrix: WATER | Date Reported : 25-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 2-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-------------------|----|
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0911 16:07 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | |
| Chloroform | ND | ug/l | 0.75 | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | |
| Tetrachloroethene | ND | ug/l | 0.50 | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | |
| Bromoform | ND | ug/l | 2.0 | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Benzene | ND | ug/l | 0.50 | | | |
| Toluene | ND | ug/l | 0.75 | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | |
| Chloromethane | ND | ug/l | 2.5 | | | |
| Bromomethane | ND | ug/l | 1.0 | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | |
| Chloroethane | ND | ug/l | 1.0 | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | |
| Trichloroethene | ND | ug/l | 0.50 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| Methyl tert butyl ether | ND | ug/l | 1.0 | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | |
| o-Xylene | ND | ug/l | 1.0 | | | |
| cis-1,2-Dichloroethene | ND | ug/l | 0.50 | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-02
TB090808-1

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0911 16:07 PD | | |
| Styrene | ND | ug/l | 1.0 | | | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | | | |
| Acetone | ND | ug/l | 5.0 | | | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | | | |
| 2-Butanone | ND | ug/l | 5.0 | | | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | | | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | | | |
| Naphthalene | ND | ug/l | 2.5 | | | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 1,2-Dichloroethane-d4 | 104 | % | 70-130 | | | | | |
| Toluene-d8 | 100 | % | 70-130 | | | | | |
| 4-Bromofluorobenzene | 102 | % | 70-130 | | | | | |
| Dibromofluoromethane | 98.0 | % | 70-130 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|---------------------------------------|-----------------------------------|
| Laboratory Sample Number: L0813344-03 | Date Collected: 21-AUG-2008 12:00 |
| TB090808-2 | Date Received : 09-SEP-2008 |
| Sample Matrix: WATER | Date Reported : 25-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 2-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-------------------|----|
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0911 16:43 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | |
| Chloroform | ND | ug/l | 0.75 | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | |
| Tetrachloroethene | ND | ug/l | 0.50 | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | |
| Bromoform | ND | ug/l | 2.0 | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Benzene | ND | ug/l | 0.50 | | | |
| Toluene | ND | ug/l | 0.75 | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | |
| Chloromethane | ND | ug/l | 2.5 | | | |
| Bromomethane | ND | ug/l | 1.0 | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | |
| Chloroethane | ND | ug/l | 1.0 | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | |
| Trichloroethene | ND | ug/l | 0.50 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| Methyl tert butyl ether | ND | ug/l | 1.0 | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | |
| o-Xylene | ND | ug/l | 1.0 | | | |
| cis-1,2-Dichloroethene | ND | ug/l | 0.50 | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-03
TB090808-2

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0911 16:43 PD | | |
| Styrene | ND | ug/l | 1.0 | | | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | | | |
| Acetone | ND | ug/l | 5.0 | | | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | | | |
| 2-Butanone | ND | ug/l | 5.0 | | | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | | | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | | | |
| Naphthalene | ND | ug/l | 2.5 | | | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 1,2-Dichloroethane-d4 | 103 | % | 70-130 | | | | | |
| Toluene-d8 | 100 | % | 70-130 | | | | | |
| 4-Bromofluorobenzene | 104 | % | 70-130 | | | | | |
| Dibromofluoromethane | 97.0 | % | 70-130 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0813344-04
Date Collected: 08-SEP-2008 09:20
Sample Matrix: PWG-DW-2008-01 (7.25-7.75')
Date Received : 09-SEP-2008
SOIL
Date Reported : 25-SEP-2008
Condition of Sample: Satisfactory
Field Prep: None
Number & Type of Containers: 3-Amber,1-Vial

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|--------------------------------|--------|-------|------|------------|------------|------------|----|
| | | | | | PREP | ANAL | |
| Solids, Total | 84 | % | 0.10 | 30 2540G | | 0910 18:40 | NM |
| Total Metals | | | | | | | |
| Aluminum, Total | 4300 | mg/kg | 5.4 | 1 6010B | 0910 13:30 | 0911 13:52 | AI |
| Antimony, Total | ND | mg/kg | 2.7 | 1 6010B | 0910 13:30 | 0911 13:52 | AI |
| Arsenic, Total | 3.6 | mg/kg | 0.54 | 1 6010B | 0910 13:30 | 0911 13:52 | AI |
| Barium, Total | 28 | mg/kg | 0.54 | 1 6010B | 0910 13:30 | 0911 13:52 | AI |
| Beryllium, Total | ND | mg/kg | 0.27 | 1 6010B | 0910 13:30 | 0911 13:52 | AI |
| Cadmium, Total | 2.5 | mg/kg | 0.54 | 1 6010B | 0910 13:30 | 0911 13:52 | AI |
| Calcium, Total | 6700 | mg/kg | 5.4 | 1 6010B | 0910 13:30 | 0911 13:52 | AI |
| Chromium, Total | 14 | mg/kg | 0.54 | 1 6010B | 0910 13:30 | 0911 13:52 | AI |
| Cobalt, Total | 2.6 | mg/kg | 1.1 | 1 6010B | 0910 13:30 | 0911 13:52 | AI |
| Copper, Total | 54 | mg/kg | 0.54 | 1 6010B | 0910 13:30 | 0911 13:52 | AI |
| Iron, Total | 5300 | mg/kg | 2.7 | 1 6010B | 0910 13:30 | 0911 13:52 | AI |
| Lead, Total | 470 | mg/kg | 2.7 | 1 6010B | 0910 13:30 | 0911 13:52 | AI |
| Magnesium, Total | 4400 | mg/kg | 5.4 | 1 6010B | 0910 13:30 | 0911 13:52 | AI |
| Manganese, Total | 37 | mg/kg | 0.54 | 1 6010B | 0910 13:30 | 0911 13:52 | AI |
| Mercury, Total | 0.21 | mg/kg | 0.09 | 1 7471A | 0911 23:30 | 0912 14:09 | RC |
| Nickel, Total | 11 | mg/kg | 1.4 | 1 6010B | 0910 13:30 | 0911 13:52 | AI |
| Potassium, Total | 260 | mg/kg | 140 | 1 6010B | 0910 13:30 | 0911 13:52 | AI |
| Selenium, Total | ND | mg/kg | 1.1 | 1 6010B | 0910 13:30 | 0911 13:52 | AI |
| Silver, Total | 1.2 | mg/kg | 0.54 | 1 6010B | 0910 13:30 | 0911 13:52 | AI |
| Sodium, Total | ND | mg/kg | 110 | 1 6010B | 0910 13:30 | 0911 13:52 | AI |
| Thallium, Total | ND | mg/kg | 1.1 | 1 6010B | 0910 13:30 | 0911 13:52 | AI |
| Vanadium, Total | 31 | mg/kg | 0.54 | 1 6010B | 0910 13:30 | 0911 13:52 | AI |
| Zinc, Total | 250 | mg/kg | 2.7 | 1 6010B | 0910 13:30 | 0911 13:52 | AI |
| Volatile Organics by EPA 8260B | | | | 1 8260B | | 0911 18:29 | PD |
| Methylene chloride | ND | ug/kg | 30. | | | | |
| 1,1-Dichloroethane | ND | ug/kg | 4.5 | | | | |
| Chloroform | ND | ug/kg | 4.5 | | | | |
| Carbon tetrachloride | ND | ug/kg | 3.0 | | | | |
| 1,2-Dichloropropane | ND | ug/kg | 10. | | | | |
| Dibromochloromethane | ND | ug/kg | 3.0 | | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 4.5 | | | | |
| Tetrachloroethene | ND | ug/kg | 3.0 | | | | |
| Chlorobenzene | ND | ug/kg | 3.0 | | | | |
| Trichlorofluoromethane | ND | ug/kg | 15. | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-04
PWG-DW-2008-01 (7.25-7.75')

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|--------|-------|-----|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0911 18:29 PD | | |
| 1,2-Dichloroethane | ND | ug/kg | 3.0 | | | | | |
| 1,1,1-Trichloroethane | 7.5 | ug/kg | 3.0 | | | | | |
| Bromodichloromethane | ND | ug/kg | 3.0 | | | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 3.0 | | | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 3.0 | | | | | |
| 1,1-Dichloropropene | ND | ug/kg | 15. | | | | | |
| Bromoform | ND | ug/kg | 12. | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 3.0 | | | | | |
| Benzene | ND | ug/kg | 3.0 | | | | | |
| Toluene | ND | ug/kg | 4.5 | | | | | |
| Ethylbenzene | ND | ug/kg | 3.0 | | | | | |
| Chloromethane | ND | ug/kg | 15. | | | | | |
| Bromomethane | ND | ug/kg | 6.0 | | | | | |
| Vinyl chloride | ND | ug/kg | 6.0 | | | | | |
| Chloroethane | ND | ug/kg | 6.0 | | | | | |
| 1,1-Dichloroethene | ND | ug/kg | 3.0 | | | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 4.5 | | | | | |
| Trichloroethene | ND | ug/kg | 3.0 | | | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 15. | | | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 15. | | | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 15. | | | | | |
| Methyl tert butyl ether | ND | ug/kg | 6.0 | | | | | |
| p/m-Xylene | ND | ug/kg | 6.0 | | | | | |
| o-Xylene | ND | ug/kg | 6.0 | | | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 3.0 | | | | | |
| Dibromomethane | ND | ug/kg | 30. | | | | | |
| Styrene | ND | ug/kg | 6.0 | | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 30. | | | | | |
| Acetone | ND | ug/kg | 30. | | | | | |
| Carbon disulfide | ND | ug/kg | 30. | | | | | |
| 2-Butanone | ND | ug/kg | 30. | | | | | |
| Vinyl acetate | ND | ug/kg | 30. | | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 30. | | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 30. | | | | | |
| 2-Hexanone | ND | ug/kg | 30. | | | | | |
| Bromochloromethane | ND | ug/kg | 15. | | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 15. | | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 12. | | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 15. | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 3.0 | | | | | |
| Bromobenzene | ND | ug/kg | 15. | | | | | |
| n-Butylbenzene | ND | ug/kg | 3.0 | | | | | |
| sec-Butylbenzene | ND | ug/kg | 3.0 | | | | | |
| tert-Butylbenzene | ND | ug/kg | 15. | | | | | |
| o-Chlorotoluene | ND | ug/kg | 15. | | | | | |
| p-Chlorotoluene | ND | ug/kg | 15. | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 15. | | | | | |
| Hexachlorobutadiene | ND | ug/kg | 15. | | | | | |
| Isopropylbenzene | ND | ug/kg | 3.0 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-04
PWG-DW-2008-01 (7.25-7.75')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|--------------------------|----|
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0911 18:29 PD | |
| p-Isopropyltoluene | ND | ug/kg | 3.0 | | | |
| Naphthalene | ND | ug/kg | 15. | | | |
| Acrylonitrile | ND | ug/kg | 30. | | | |
| n-Propylbenzene | ND | ug/kg | 3.0 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 15. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 15. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 15. | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 15. | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 12. | | | |
| 4-Ethyltoluene | ND | ug/kg | 12. | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 12. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 106 | % | 70-130 | | | |
| Toluene-d8 | 109 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 121 | % | 70-130 | | | |
| Dibromofluoromethane | 103 | % | 70-130 | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 0916 09:50 0916 17:35 PS | |
| Acenaphthene | ND | ug/kg | 400 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 400 | | | |
| Hexachlorobenzene | ND | ug/kg | 400 | | | |
| Bis(2-chloroethyl)ether | ND | ug/kg | 400 | | | |
| 2-Chloronaphthalene | ND | ug/kg | 480 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 400 | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 400 | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 400 | | | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 790 | | | |
| 2,4-Dinitrotoluene | ND | ug/kg | 400 | | | |
| 2,6-Dinitrotoluene | ND | ug/kg | 400 | | | |
| Fluoranthene | ND | ug/kg | 400 | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/kg | 400 | | | |
| 4-Bromophenyl phenyl ether | ND | ug/kg | 400 | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/kg | 400 | | | |
| Bis(2-chloroethoxy)methane | ND | ug/kg | 400 | | | |
| Hexachlorobutadiene | ND | ug/kg | 790 | | | |
| Hexachlorocyclopentadiene | ND | ug/kg | 790 | | | |
| Hexachloroethane | ND | ug/kg | 400 | | | |
| Isophorone | ND | ug/kg | 400 | | | |
| Naphthalene | ND | ug/kg | 400 | | | |
| Nitrobenzene | ND | ug/kg | 400 | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/kg | 1200 | | | |
| n-Nitrosodi-n-propylamine | ND | ug/kg | 400 | | | |
| Bis(2-Ethylhexyl)phthalate | ND | ug/kg | 790 | | | |
| Butyl benzyl phthalate | ND | ug/kg | 400 | | | |
| Di-n-butylphthalate | ND | ug/kg | 400 | | | |
| Di-n-octylphthalate | ND | ug/kg | 400 | | | |
| Diethyl phthalate | ND | ug/kg | 400 | | | |
| Dimethyl phthalate | ND | ug/kg | 400 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-04
PWG-DW-2008-01 (7.25-7.75')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 8270C | 0916 09:50 0916 17:35 PS | |
| Benzo(a)anthracene | ND | ug/kg | 400 | | | |
| Benzo(a)pyrene | ND | ug/kg | 400 | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 400 | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 400 | | | |
| Chrysene | ND | ug/kg | 400 | | | |
| Acenaphthylene | ND | ug/kg | 400 | | | |
| Anthracene | ND | ug/kg | 400 | | | |
| Benzo(ghi)perylene | ND | ug/kg | 400 | | | |
| Fluorene | ND | ug/kg | 400 | | | |
| Phenanthrene | ND | ug/kg | 400 | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 400 | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 400 | | | |
| Pyrene | ND | ug/kg | 400 | | | |
| Biphenyl | ND | ug/kg | 400 | | | |
| 4-Chloroaniline | ND | ug/kg | 400 | | | |
| 2-Nitroaniline | ND | ug/kg | 400 | | | |
| 3-Nitroaniline | ND | ug/kg | 400 | | | |
| 4-Nitroaniline | ND | ug/kg | 560 | | | |
| Dibenzofuran | ND | ug/kg | 400 | | | |
| 2-Methylnaphthalene | ND | ug/kg | 400 | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/kg | 1600 | | | |
| Acetophenone | ND | ug/kg | 1600 | | | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 400 | | | |
| p-Chloro-M-Cresol | ND | ug/kg | 400 | | | |
| 2-Chlorophenol | ND | ug/kg | 480 | | | |
| 2,4-Dichlorophenol | ND | ug/kg | 790 | | | |
| 2,4-Dimethylphenol | ND | ug/kg | 400 | | | |
| 2-Nitrophenol | ND | ug/kg | 1600 | | | |
| 4-Nitrophenol | ND | ug/kg | 790 | | | |
| 2,4-Dinitrophenol | ND | ug/kg | 1600 | | | |
| 4,6-Dinitro-o-cresol | ND | ug/kg | 1600 | | | |
| Pentachlorophenol | ND | ug/kg | 1600 | | | |
| Phenol | ND | ug/kg | 560 | | | |
| 2-Methylphenol | ND | ug/kg | 480 | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/kg | 480 | | | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 400 | | | |
| Benzoic Acid | ND | ug/kg | 4000 | | | |
| Benzyl Alcohol | ND | ug/kg | 790 | | | |
| Carbazole | ND | ug/kg | 400 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 89.0 | % | 25-120 | | | |
| Phenol-d6 | 90.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 73.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 76.0 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 104 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 82.0 | % | 18-120 | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 8270C | 0911 03:30 0912 21:07 AK | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-04
PWG-DW-2008-01 (7.25-7.75')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C-SIM cont'd | | | | 1 8270C | 0911 03:30 0912 21:07 AK | |
| Acenaphthene | ND | ug/kg | 79. | | | |
| 2-Chloronaphthalene | ND | ug/kg | 79. | | | |
| Fluoranthene | 170 | ug/kg | 79 | | | |
| Hexachlorobutadiene | ND | ug/kg | 200 | | | |
| Naphthalene | ND | ug/kg | 79. | | | |
| Benzo(a)anthracene | ND | ug/kg | 79. | | | |
| Benzo(a)pyrene | ND | ug/kg | 79. | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 79. | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 79. | | | |
| Chrysene | ND | ug/kg | 79. | | | |
| Acenaphthylene | ND | ug/kg | 79. | | | |
| Anthracene | ND | ug/kg | 79. | | | |
| Benzo(ghi)perylene | ND | ug/kg | 79. | | | |
| Fluorene | ND | ug/kg | 79. | | | |
| Phenanthrene | ND | ug/kg | 79. | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 79. | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 79. | | | |
| Pyrene | 170 | ug/kg | 79 | | | |
| 2-Methylnaphthalene | ND | ug/kg | 79. | | | |
| Pentachlorophenol | ND | ug/kg | 320 | | | |
| Hexachlorobenzene | ND | ug/kg | 320 | | | |
| Hexachloroethane | ND | ug/kg | 320 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 31.0 | % | 25-120 | | | |
| Phenol-d6 | 32.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 26.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 31.0 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 42.0 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 37.0 | % | 18-120 | | | |
| Petroleum Hydrocarbon Quantitation by GC-FID | | | | 1 8015B(M) | 0911 00:15 0912 02:03 RT | |
| TPH | 73100 | ug/kg | 39700 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| o-Terphenyl | 72.0 | % | 40-140 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0813344-05
Date Collected: 08-SEP-2008 09:35
Sample Matrix: PWG-DW-2008-02 (5.25-5.75')
Date Received : 09-SEP-2008
SOIL
Date Reported : 25-SEP-2008
Condition of Sample: Satisfactory
Field Prep: None
Number & Type of Containers: 3-Amber,1-Vial

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-----------------------|----|
| Solids, Total | 79 | % | 0.10 | 30 2540G | 0910 18:40 | NM |
| Total Metals | | | | | | |
| Aluminum, Total | 2600 | mg/kg | 5.8 | 1 6010B | 0910 13:30 0911 13:55 | AI |
| Antimony, Total | ND | mg/kg | 2.9 | 1 6010B | 0910 13:30 0911 13:55 | AI |
| Arsenic, Total | 0.83 | mg/kg | 0.58 | 1 6010B | 0910 13:30 0911 13:55 | AI |
| Barium, Total | 9.8 | mg/kg | 0.58 | 1 6010B | 0910 13:30 0911 13:55 | AI |
| Beryllium, Total | ND | mg/kg | 0.29 | 1 6010B | 0910 13:30 0911 13:55 | AI |
| Cadmium, Total | ND | mg/kg | 0.58 | 1 6010B | 0910 13:30 0911 13:55 | AI |
| Calcium, Total | 24000 | mg/kg | 29 | 1 6010B | 0910 13:30 0911 19:42 | AI |
| Chromium, Total | 2.3 | mg/kg | 0.58 | 1 6010B | 0910 13:30 0911 13:55 | AI |
| Cobalt, Total | 3.3 | mg/kg | 1.2 | 1 6010B | 0910 13:30 0911 13:55 | AI |
| Copper, Total | 18 | mg/kg | 0.58 | 1 6010B | 0910 13:30 0911 13:55 | AI |
| Iron, Total | 6700 | mg/kg | 2.9 | 1 6010B | 0910 13:30 0911 13:55 | AI |
| Lead, Total | 20 | mg/kg | 2.9 | 1 6010B | 0910 13:30 0911 13:55 | AI |
| Magnesium, Total | 15000 | mg/kg | 5.8 | 1 6010B | 0910 13:30 0911 13:55 | AI |
| Manganese, Total | 58 | mg/kg | 0.58 | 1 6010B | 0910 13:30 0911 13:55 | AI |
| Mercury, Total | ND | mg/kg | 0.10 | 1 7471A | 0911 23:30 0912 14:11 | RC |
| Nickel, Total | 3.6 | mg/kg | 1.4 | 1 6010B | 0910 13:30 0911 13:55 | AI |
| Potassium, Total | 220 | mg/kg | 140 | 1 6010B | 0910 13:30 0911 13:55 | AI |
| Selenium, Total | ND | mg/kg | 1.2 | 1 6010B | 0910 13:30 0911 13:55 | AI |
| Silver, Total | ND | mg/kg | 0.58 | 1 6010B | 0910 13:30 0911 13:55 | AI |
| Sodium, Total | 150 | mg/kg | 120 | 1 6010B | 0910 13:30 0911 13:55 | AI |
| Thallium, Total | ND | mg/kg | 1.2 | 1 6010B | 0910 13:30 0911 13:55 | AI |
| Vanadium, Total | 24 | mg/kg | 0.58 | 1 6010B | 0910 13:30 0911 13:55 | AI |
| Zinc, Total | 120 | mg/kg | 2.9 | 1 6010B | 0910 13:30 0911 13:55 | AI |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0911 19:05 | PD |
| Methylene chloride | ND | ug/kg | 32. | | | |
| 1,1-Dichloroethane | 5.1 | ug/kg | 4.7 | | | |
| Chloroform | ND | ug/kg | 4.7 | | | |
| Carbon tetrachloride | ND | ug/kg | 3.2 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 11. | | | |
| Dibromochloromethane | ND | ug/kg | 3.2 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 4.7 | | | |
| Tetrachloroethene | ND | ug/kg | 3.2 | | | |
| Chlorobenzene | ND | ug/kg | 3.2 | | | |
| Trichlorofluoromethane | ND | ug/kg | 16. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-05
PWG-DW-2008-02 (5.25-5.75')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---------------------------------------|--------|-------|-----|------------|-------|---------------|----|
| | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0911 19:05 PD | |
| 1,2-Dichloroethane | ND | ug/kg | 3.2 | | | | |
| 1,1,1-Trichloroethane | 9.5 | ug/kg | 3.2 | | | | |
| Bromodichloromethane | ND | ug/kg | 3.2 | | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 3.2 | | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 3.2 | | | | |
| 1,1-Dichloropropene | ND | ug/kg | 16. | | | | |
| Bromoform | ND | ug/kg | 13. | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 3.2 | | | | |
| Benzene | ND | ug/kg | 3.2 | | | | |
| Toluene | ND | ug/kg | 4.7 | | | | |
| Ethylbenzene | ND | ug/kg | 3.2 | | | | |
| Chloromethane | ND | ug/kg | 16. | | | | |
| Bromomethane | ND | ug/kg | 6.3 | | | | |
| Vinyl chloride | ND | ug/kg | 6.3 | | | | |
| Chloroethane | ND | ug/kg | 6.3 | | | | |
| 1,1-Dichloroethene | ND | ug/kg | 3.2 | | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 4.7 | | | | |
| Trichloroethene | ND | ug/kg | 3.2 | | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 16. | | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 16. | | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 16. | | | | |
| Methyl tert butyl ether | ND | ug/kg | 6.3 | | | | |
| p/m-Xylene | ND | ug/kg | 6.3 | | | | |
| o-Xylene | ND | ug/kg | 6.3 | | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 3.2 | | | | |
| Dibromomethane | ND | ug/kg | 32. | | | | |
| Styrene | ND | ug/kg | 6.3 | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 32. | | | | |
| Acetone | ND | ug/kg | 32. | | | | |
| Carbon disulfide | ND | ug/kg | 32. | | | | |
| 2-Butanone | ND | ug/kg | 32. | | | | |
| Vinyl acetate | ND | ug/kg | 32. | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 32. | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 32. | | | | |
| 2-Hexanone | ND | ug/kg | 32. | | | | |
| Bromochloromethane | ND | ug/kg | 16. | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 16. | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 13. | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 16. | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 3.2 | | | | |
| Bromobenzene | ND | ug/kg | 16. | | | | |
| n-Butylbenzene | ND | ug/kg | 3.2 | | | | |
| sec-Butylbenzene | ND | ug/kg | 3.2 | | | | |
| tert-Butylbenzene | ND | ug/kg | 16. | | | | |
| o-Chlorotoluene | ND | ug/kg | 16. | | | | |
| p-Chlorotoluene | ND | ug/kg | 16. | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 16. | | | | |
| Hexachlorobutadiene | ND | ug/kg | 16. | | | | |
| Isopropylbenzene | ND | ug/kg | 3.2 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-05
PWG-DW-2008-02 (5.25-5.75')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|--------------------------|----|
| <hr/> | | | | | | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0911 19:05 PD | |
| p-Isopropyltoluene | ND | ug/kg | 3.2 | | | |
| Naphthalene | ND | ug/kg | 16. | | | |
| Acrylonitrile | ND | ug/kg | 32. | | | |
| n-Propylbenzene | ND | ug/kg | 3.2 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 16. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 16. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 16. | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 16. | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 13. | | | |
| 4-Ethyltoluene | ND | ug/kg | 13. | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 13. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 106 | % | 70-130 | | | |
| Toluene-d8 | 105 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 120 | % | 70-130 | | | |
| Dibromofluoromethane | 99.0 | % | 70-130 | | | |
| <hr/> | | | | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 0911 03:30 0913 00:35 PS | |
| Acenaphthene | ND | ug/kg | 2100 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 2100 | | | |
| Hexachlorobenzene | ND | ug/kg | 2100 | | | |
| Bis(2-chloroethyl)ether | ND | ug/kg | 2100 | | | |
| 2-Chloronaphthalene | ND | ug/kg | 2500 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 2100 | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 2100 | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 2100 | | | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 4200 | | | |
| 2,4-Dinitrotoluene | ND | ug/kg | 2100 | | | |
| 2,6-Dinitrotoluene | ND | ug/kg | 2100 | | | |
| Fluoranthene | ND | ug/kg | 2100 | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/kg | 2100 | | | |
| 4-Bromophenyl phenyl ether | ND | ug/kg | 2100 | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/kg | 2100 | | | |
| Bis(2-chloroethoxy)methane | ND | ug/kg | 2100 | | | |
| Hexachlorobutadiene | ND | ug/kg | 4200 | | | |
| Hexachlorocyclopentadiene | ND | ug/kg | 4200 | | | |
| Hexachloroethane | ND | ug/kg | 2100 | | | |
| Isophorone | ND | ug/kg | 2100 | | | |
| Naphthalene | ND | ug/kg | 2100 | | | |
| Nitrobenzene | ND | ug/kg | 2100 | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/kg | 6300 | | | |
| n-Nitrosodi-n-propylamine | ND | ug/kg | 2100 | | | |
| Bis(2-Ethylhexyl)phthalate | ND | ug/kg | 4200 | | | |
| Butyl benzyl phthalate | ND | ug/kg | 2100 | | | |
| Di-n-butylphthalate | ND | ug/kg | 2100 | | | |
| Di-n-octylphthalate | ND | ug/kg | 2100 | | | |
| Diethyl phthalate | ND | ug/kg | 2100 | | | |
| Dimethyl phthalate | ND | ug/kg | 2100 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-05
PWG-DW-2008-02 (5.25-5.75')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 8270C | 0911 03:30 0913 00:35 PS | |
| Benzo(a)anthracene | ND | ug/kg | 2100 | | | |
| Benzo(a)pyrene | ND | ug/kg | 2100 | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 2100 | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 2100 | | | |
| Chrysene | ND | ug/kg | 2100 | | | |
| Acenaphthylene | ND | ug/kg | 2100 | | | |
| Anthracene | ND | ug/kg | 2100 | | | |
| Benzo(ghi)perylene | ND | ug/kg | 2100 | | | |
| Fluorene | ND | ug/kg | 2100 | | | |
| Phenanthrene | ND | ug/kg | 2100 | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 2100 | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 2100 | | | |
| Pyrene | ND | ug/kg | 2100 | | | |
| Biphenyl | ND | ug/kg | 2100 | | | |
| 4-Chloroaniline | ND | ug/kg | 2100 | | | |
| 2-Nitroaniline | ND | ug/kg | 2100 | | | |
| 3-Nitroaniline | ND | ug/kg | 2100 | | | |
| 4-Nitroaniline | ND | ug/kg | 3000 | | | |
| Dibenzofuran | ND | ug/kg | 2100 | | | |
| 2-Methylnaphthalene | ND | ug/kg | 2100 | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/kg | 8400 | | | |
| Acetophenone | ND | ug/kg | 8400 | | | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 2100 | | | |
| p-Chloro-M-Cresol | ND | ug/kg | 2100 | | | |
| 2-Chlorophenol | ND | ug/kg | 2500 | | | |
| 2,4-Dichlorophenol | ND | ug/kg | 4200 | | | |
| 2,4-Dimethylphenol | ND | ug/kg | 2100 | | | |
| 2-Nitrophenol | ND | ug/kg | 8400 | | | |
| 4-Nitrophenol | ND | ug/kg | 4200 | | | |
| 2,4-Dinitrophenol | ND | ug/kg | 8400 | | | |
| 4,6-Dinitro-o-cresol | ND | ug/kg | 8400 | | | |
| Pentachlorophenol | ND | ug/kg | 8400 | | | |
| Phenol | ND | ug/kg | 3000 | | | |
| 2-Methylphenol | ND | ug/kg | 2500 | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/kg | 2500 | | | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 2100 | | | |
| Benzoic Acid | ND | ug/kg | 21000 | | | |
| Benzyl Alcohol | ND | ug/kg | 4200 | | | |
| Carbazole | ND | ug/kg | 2100 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 46.0 | % | 25-120 | | | |
| Phenol-d6 | 50.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 43.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 50.0 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 62.0 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 48.0 | % | 18-120 | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 8270C | 0911 03:30 0912 21:54 AK | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-05
PWG-DW-2008-02 (5.25-5.75')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C-SIM cont'd | | | | 1 8270C | 0911 03:30 0912 21:54 AK | |
| Acenaphthene | ND | ug/kg | 840 | | | |
| 2-Chloronaphthalene | ND | ug/kg | 840 | | | |
| Fluoranthene | ND | ug/kg | 840 | | | |
| Hexachlorobutadiene | ND | ug/kg | 2100 | | | |
| Naphthalene | ND | ug/kg | 840 | | | |
| Benzo(a)anthracene | ND | ug/kg | 840 | | | |
| Benzo(a)pyrene | ND | ug/kg | 840 | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 840 | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 840 | | | |
| Chrysene | ND | ug/kg | 840 | | | |
| Acenaphthylene | ND | ug/kg | 840 | | | |
| Anthracene | ND | ug/kg | 840 | | | |
| Benzo(ghi)perylene | ND | ug/kg | 840 | | | |
| Fluorene | ND | ug/kg | 840 | | | |
| Phenanthrene | ND | ug/kg | 840 | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 840 | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 840 | | | |
| Pyrene | ND | ug/kg | 840 | | | |
| 2-Methylnaphthalene | ND | ug/kg | 840 | | | |
| Pentachlorophenol | ND | ug/kg | 3400 | | | |
| Hexachlorobenzene | ND | ug/kg | 3400 | | | |
| Hexachloroethane | ND | ug/kg | 3400 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | ND | % | 25-120 | | | |
| Phenol-d6 | ND | % | 10-120 | | | |
| Nitrobenzene-d5 | ND | % | 23-120 | | | |
| 2-Fluorobiphenyl | ND | % | 30-120 | | | |
| 2,4,6-Tribromophenol | ND | % | 19-120 | | | |
| 4-Terphenyl-d14 | ND | % | 18-120 | | | |
| Petroleum Hydrocarbon Quantitation by GC-FID | | | | 1 8015B(M) | 0911 00:15 0912 02:37 RT | |
| TPH | ND | ug/kg | 211000 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| o-Terphenyl | 85.0 | % | 40-140 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0813344-06 **Date Collected:** 08-SEP-2008 09:45
Sample Matrix: PWG-DW-2008-03 (8.75-9.25') **Date Received :** 09-SEP-2008
Condition of Sample: SOIL **Date Reported :** 25-SEP-2008
Field Prep: None
Number & Type of Containers: 3-Amber,1-Vial

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-----------------------|----|
| Solids, Total | 80 | % | 0.10 | 30 2540G | 0910 18:40 | NM |
| Total Metals | | | | | | |
| Aluminum, Total | 1300 | mg/kg | 5.8 | 1 6010B | 0910 13:30 0911 14:19 | AI |
| Antimony, Total | ND | mg/kg | 2.9 | 1 6010B | 0910 13:30 0911 14:19 | AI |
| Arsenic, Total | 0.69 | mg/kg | 0.58 | 1 6010B | 0910 13:30 0911 14:19 | AI |
| Barium, Total | 5.2 | mg/kg | 0.58 | 1 6010B | 0910 13:30 0911 14:19 | AI |
| Beryllium, Total | ND | mg/kg | 0.29 | 1 6010B | 0910 13:30 0911 14:19 | AI |
| Cadmium, Total | ND | mg/kg | 0.58 | 1 6010B | 0910 13:30 0911 14:19 | AI |
| Calcium, Total | 560 | mg/kg | 5.8 | 1 6010B | 0910 13:30 0911 14:19 | AI |
| Chromium, Total | 2.7 | mg/kg | 0.58 | 1 6010B | 0910 13:30 0911 14:19 | AI |
| Cobalt, Total | ND | mg/kg | 1.2 | 1 6010B | 0910 13:30 0911 14:19 | AI |
| Copper, Total | 4.6 | mg/kg | 0.58 | 1 6010B | 0910 13:30 0911 14:19 | AI |
| Iron, Total | 1800 | mg/kg | 2.9 | 1 6010B | 0910 13:30 0911 14:19 | AI |
| Lead, Total | 30 | mg/kg | 2.9 | 1 6010B | 0910 13:30 0911 14:19 | AI |
| Magnesium, Total | 520 | mg/kg | 5.8 | 1 6010B | 0910 13:30 0911 14:19 | AI |
| Manganese, Total | 13 | mg/kg | 0.58 | 1 6010B | 0910 13:30 0911 14:19 | AI |
| Mercury, Total | ND | mg/kg | 0.09 | 1 7471A | 0911 23:30 0912 14:13 | RC |
| Nickel, Total | 2.0 | mg/kg | 1.4 | 1 6010B | 0910 13:30 0911 14:19 | AI |
| Potassium, Total | ND | mg/kg | 140 | 1 6010B | 0910 13:30 0911 14:19 | AI |
| Selenium, Total | ND | mg/kg | 1.2 | 1 6010B | 0910 13:30 0911 14:19 | AI |
| Silver, Total | ND | mg/kg | 0.58 | 1 6010B | 0910 13:30 0911 14:19 | AI |
| Sodium, Total | ND | mg/kg | 120 | 1 6010B | 0910 13:30 0911 14:19 | AI |
| Thallium, Total | ND | mg/kg | 1.2 | 1 6010B | 0910 13:30 0911 14:19 | AI |
| Vanadium, Total | 4.1 | mg/kg | 0.58 | 1 6010B | 0910 13:30 0911 14:19 | AI |
| Zinc, Total | 29 | mg/kg | 2.9 | 1 6010B | 0910 13:30 0911 14:19 | AI |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0911 19:42 | PD |
| Methylene chloride | ND | ug/kg | 31. | | | |
| 1,1-Dichloroethane | 7.2 | ug/kg | 4.7 | | | |
| Chloroform | ND | ug/kg | 4.7 | | | |
| Carbon tetrachloride | ND | ug/kg | 3.1 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 11. | | | |
| Dibromochloromethane | ND | ug/kg | 3.1 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 4.7 | | | |
| Tetrachloroethene | 7.6 | ug/kg | 3.1 | | | |
| Chlorobenzene | ND | ug/kg | 3.1 | | | |
| Trichlorofluoromethane | ND | ug/kg | 16. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-06
PWG-DW-2008-03 (8.75-9.25')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---------------------------------------|--------|-------|-----|------------|-------|---------------|----|
| | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0911 19:42 PD | |
| 1,2-Dichloroethane | ND | ug/kg | 3.1 | | | | |
| 1,1,1-Trichloroethane | 13 | ug/kg | 3.1 | | | | |
| Bromodichloromethane | ND | ug/kg | 3.1 | | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 3.1 | | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 3.1 | | | | |
| 1,1-Dichloropropene | ND | ug/kg | 16. | | | | |
| Bromoform | ND | ug/kg | 12. | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 3.1 | | | | |
| Benzene | ND | ug/kg | 3.1 | | | | |
| Toluene | ND | ug/kg | 4.7 | | | | |
| Ethylbenzene | ND | ug/kg | 3.1 | | | | |
| Chloromethane | ND | ug/kg | 16. | | | | |
| Bromomethane | ND | ug/kg | 6.2 | | | | |
| Vinyl chloride | ND | ug/kg | 6.2 | | | | |
| Chloroethane | ND | ug/kg | 6.2 | | | | |
| 1,1-Dichloroethene | ND | ug/kg | 3.1 | | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 4.7 | | | | |
| Trichloroethene | ND | ug/kg | 3.1 | | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 16. | | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 16. | | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 16. | | | | |
| Methyl tert butyl ether | ND | ug/kg | 6.2 | | | | |
| p/m-Xylene | ND | ug/kg | 6.2 | | | | |
| o-Xylene | ND | ug/kg | 6.2 | | | | |
| cis-1,2-Dichloroethene | 4.4 | ug/kg | 3.1 | | | | |
| Dibromomethane | ND | ug/kg | 31. | | | | |
| Styrene | ND | ug/kg | 6.2 | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 31. | | | | |
| Acetone | ND | ug/kg | 31. | | | | |
| Carbon disulfide | ND | ug/kg | 31. | | | | |
| 2-Butanone | ND | ug/kg | 31. | | | | |
| Vinyl acetate | ND | ug/kg | 31. | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 31. | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 31. | | | | |
| 2-Hexanone | ND | ug/kg | 31. | | | | |
| Bromochloromethane | ND | ug/kg | 16. | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 16. | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 12. | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 16. | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 3.1 | | | | |
| Bromobenzene | ND | ug/kg | 16. | | | | |
| n-Butylbenzene | ND | ug/kg | 3.1 | | | | |
| sec-Butylbenzene | ND | ug/kg | 3.1 | | | | |
| tert-Butylbenzene | ND | ug/kg | 16. | | | | |
| o-Chlorotoluene | ND | ug/kg | 16. | | | | |
| p-Chlorotoluene | ND | ug/kg | 16. | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 16. | | | | |
| Hexachlorobutadiene | ND | ug/kg | 16. | | | | |
| Isopropylbenzene | ND | ug/kg | 3.1 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-06
PWG-DW-2008-03 (8.75-9.25')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|--------------------------|----|
| <hr/> | | | | | | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0911 19:42 PD | |
| p-Isopropyltoluene | ND | ug/kg | 3.1 | | | |
| Naphthalene | ND | ug/kg | 16. | | | |
| Acrylonitrile | ND | ug/kg | 31. | | | |
| n-Propylbenzene | ND | ug/kg | 3.1 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 16. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 16. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 16. | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 16. | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 12. | | | |
| 4-Ethyltoluene | ND | ug/kg | 12. | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 12. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 94.0 | % | 70-130 | | | |
| Toluene-d8 | 94.0 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 113 | % | 70-130 | | | |
| Dibromofluoromethane | 89.0 | % | 70-130 | | | |
| <hr/> | | | | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 0911 03:30 0912 18:59 PS | |
| Acenaphthene | ND | ug/kg | 420 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 420 | | | |
| Hexachlorobenzene | ND | ug/kg | 420 | | | |
| Bis(2-chloroethyl)ether | ND | ug/kg | 420 | | | |
| 2-Chloronaphthalene | ND | ug/kg | 500 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 420 | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 420 | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 420 | | | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 830 | | | |
| 2,4-Dinitrotoluene | ND | ug/kg | 420 | | | |
| 2,6-Dinitrotoluene | ND | ug/kg | 420 | | | |
| Fluoranthene | ND | ug/kg | 420 | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/kg | 420 | | | |
| 4-Bromophenyl phenyl ether | ND | ug/kg | 420 | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/kg | 420 | | | |
| Bis(2-chloroethoxy)methane | ND | ug/kg | 420 | | | |
| Hexachlorobutadiene | ND | ug/kg | 830 | | | |
| Hexachlorocyclopentadiene | ND | ug/kg | 830 | | | |
| Hexachloroethane | ND | ug/kg | 420 | | | |
| Isophorone | ND | ug/kg | 420 | | | |
| Naphthalene | ND | ug/kg | 420 | | | |
| Nitrobenzene | ND | ug/kg | 420 | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/kg | 1200 | | | |
| n-Nitrosodi-n-propylamine | ND | ug/kg | 420 | | | |
| Bis(2-Ethylhexyl)phthalate | ND | ug/kg | 830 | | | |
| Butyl benzyl phthalate | ND | ug/kg | 420 | | | |
| Di-n-butylphthalate | ND | ug/kg | 420 | | | |
| Di-n-octylphthalate | ND | ug/kg | 420 | | | |
| Diethyl phthalate | ND | ug/kg | 420 | | | |
| Dimethyl phthalate | ND | ug/kg | 420 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-06
PWG-DW-2008-03 (8.75-9.25')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 8270C | 0911 03:30 0912 18:59 PS | |
| Benzo(a)anthracene | ND | ug/kg | 420 | | | |
| Benzo(a)pyrene | ND | ug/kg | 420 | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 420 | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 420 | | | |
| Chrysene | ND | ug/kg | 420 | | | |
| Acenaphthylene | ND | ug/kg | 420 | | | |
| Anthracene | ND | ug/kg | 420 | | | |
| Benzo(ghi)perylene | ND | ug/kg | 420 | | | |
| Fluorene | ND | ug/kg | 420 | | | |
| Phenanthrene | ND | ug/kg | 420 | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 420 | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 420 | | | |
| Pyrene | ND | ug/kg | 420 | | | |
| Biphenyl | ND | ug/kg | 420 | | | |
| 4-Chloroaniline | ND | ug/kg | 420 | | | |
| 2-Nitroaniline | ND | ug/kg | 420 | | | |
| 3-Nitroaniline | ND | ug/kg | 420 | | | |
| 4-Nitroaniline | ND | ug/kg | 580 | | | |
| Dibenzofuran | ND | ug/kg | 420 | | | |
| 2-Methylnaphthalene | ND | ug/kg | 420 | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/kg | 1700 | | | |
| Acetophenone | ND | ug/kg | 1700 | | | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 420 | | | |
| p-Chloro-M-Cresol | ND | ug/kg | 420 | | | |
| 2-Chlorophenol | ND | ug/kg | 500 | | | |
| 2,4-Dichlorophenol | ND | ug/kg | 830 | | | |
| 2,4-Dimethylphenol | ND | ug/kg | 420 | | | |
| 2-Nitrophenol | ND | ug/kg | 1700 | | | |
| 4-Nitrophenol | ND | ug/kg | 830 | | | |
| 2,4-Dinitrophenol | ND | ug/kg | 1700 | | | |
| 4,6-Dinitro-o-cresol | ND | ug/kg | 1700 | | | |
| Pentachlorophenol | ND | ug/kg | 1700 | | | |
| Phenol | ND | ug/kg | 580 | | | |
| 2-Methylphenol | ND | ug/kg | 500 | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/kg | 500 | | | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 420 | | | |
| Benzoic Acid | ND | ug/kg | 4200 | | | |
| Benzyl Alcohol | ND | ug/kg | 830 | | | |
| Carbazole | ND | ug/kg | 420 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 45.0 | % | 25-120 | | | |
| Phenol-d6 | 44.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 40.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 44.0 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 68.0 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 51.0 | % | 18-120 | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 8270C | 0911 03:30 0912 22:40 AK | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-06
PWG-DW-2008-03 (8.75-9.25')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C-SIM cont'd | | | | 1 8270C | 0911 03:30 0912 22:40 AK | |
| Acenaphthene | ND | ug/kg | 83. | | | |
| 2-Chloronaphthalene | ND | ug/kg | 83. | | | |
| Fluoranthene | ND | ug/kg | 83. | | | |
| Hexachlorobutadiene | ND | ug/kg | 210 | | | |
| Naphthalene | ND | ug/kg | 83. | | | |
| Benzo(a)anthracene | ND | ug/kg | 83. | | | |
| Benzo(a)pyrene | ND | ug/kg | 83. | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 83. | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 83. | | | |
| Chrysene | ND | ug/kg | 83. | | | |
| Acenaphthylene | ND | ug/kg | 83. | | | |
| Anthracene | ND | ug/kg | 83. | | | |
| Benzo(ghi)perylene | ND | ug/kg | 83. | | | |
| Fluorene | ND | ug/kg | 83. | | | |
| Phenanthrene | ND | ug/kg | 83. | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 83. | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 83. | | | |
| Pyrene | ND | ug/kg | 83. | | | |
| 2-Methylnaphthalene | ND | ug/kg | 83. | | | |
| Pentachlorophenol | ND | ug/kg | 330 | | | |
| Hexachlorobenzene | ND | ug/kg | 330 | | | |
| Hexachloroethane | ND | ug/kg | 330 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 46.0 | % | 25-120 | | | |
| Phenol-d6 | 50.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 41.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 52.0 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 67.0 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 59.0 | % | 18-120 | | | |
| Petroleum Hydrocarbon Quantitation by GC-FID | | | | 1 8015B(M) | 0911 00:15 0912 03:12 RT | |
| TPH | 374000 | ug/kg | 41700 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| o-Terphenyl | 78.0 | % | 40-140 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0813344-07
Date Collected: 08-SEP-2008 10:00
Sample Matrix: PWG-DW-2008-04 (7.25-7.75')
Date Received : 09-SEP-2008
SOIL
Date Reported : 25-SEP-2008
Condition of Sample: Satisfactory
Field Prep: None
Number & Type of Containers: 3-Amber,1-Vial

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-----------------------|----|
| Solids, Total | 77 | % | 0.10 | 30 2540G | 0910 18:40 | NM |
| Total Metals | | | | | | |
| Aluminum, Total | 1400 | mg/kg | 6.4 | 1 6010B | 0910 13:30 0911 14:23 | AI |
| Antimony, Total | ND | mg/kg | 3.2 | 1 6010B | 0910 13:30 0911 14:23 | AI |
| Arsenic, Total | 0.84 | mg/kg | 0.64 | 1 6010B | 0910 13:30 0911 14:23 | AI |
| Barium, Total | 9.7 | mg/kg | 0.64 | 1 6010B | 0910 13:30 0911 14:23 | AI |
| Beryllium, Total | ND | mg/kg | 0.32 | 1 6010B | 0910 13:30 0911 14:23 | AI |
| Cadmium, Total | ND | mg/kg | 0.64 | 1 6010B | 0910 13:30 0911 14:23 | AI |
| Calcium, Total | 3600 | mg/kg | 6.4 | 1 6010B | 0910 13:30 0911 14:23 | AI |
| Chromium, Total | 3.6 | mg/kg | 0.64 | 1 6010B | 0910 13:30 0911 14:23 | AI |
| Cobalt, Total | ND | mg/kg | 1.3 | 1 6010B | 0910 13:30 0911 14:23 | AI |
| Copper, Total | 5.1 | mg/kg | 0.64 | 1 6010B | 0910 13:30 0911 14:23 | AI |
| Iron, Total | 3000 | mg/kg | 3.2 | 1 6010B | 0910 13:30 0911 14:23 | AI |
| Lead, Total | 35 | mg/kg | 3.2 | 1 6010B | 0910 13:30 0911 14:23 | AI |
| Magnesium, Total | 2100 | mg/kg | 6.4 | 1 6010B | 0910 13:30 0911 14:23 | AI |
| Manganese, Total | 20 | mg/kg | 0.64 | 1 6010B | 0910 13:30 0911 14:23 | AI |
| Mercury, Total | ND | mg/kg | 0.09 | 1 7471A | 0911 23:30 0912 14:15 | RC |
| Nickel, Total | 2.1 | mg/kg | 1.6 | 1 6010B | 0910 13:30 0911 14:23 | AI |
| Potassium, Total | ND | mg/kg | 160 | 1 6010B | 0910 13:30 0911 14:23 | AI |
| Selenium, Total | ND | mg/kg | 1.3 | 1 6010B | 0910 13:30 0911 14:23 | AI |
| Silver, Total | ND | mg/kg | 0.64 | 1 6010B | 0910 13:30 0911 14:23 | AI |
| Sodium, Total | ND | mg/kg | 130 | 1 6010B | 0910 13:30 0911 14:23 | AI |
| Thallium, Total | ND | mg/kg | 1.3 | 1 6010B | 0910 13:30 0911 14:23 | AI |
| Vanadium, Total | 5.6 | mg/kg | 0.64 | 1 6010B | 0910 13:30 0911 14:23 | AI |
| Zinc, Total | 45 | mg/kg | 3.2 | 1 6010B | 0910 13:30 0911 14:23 | AI |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0911 20:19 | PD |
| Methylene chloride | ND | ug/kg | 32. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 4.9 | | | |
| Chloroform | ND | ug/kg | 4.9 | | | |
| Carbon tetrachloride | ND | ug/kg | 3.2 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 11. | | | |
| Dibromochloromethane | ND | ug/kg | 3.2 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 4.9 | | | |
| Tetrachloroethene | ND | ug/kg | 3.2 | | | |
| Chlorobenzene | ND | ug/kg | 3.2 | | | |
| Trichlorofluoromethane | ND | ug/kg | 16. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-07
PWG-DW-2008-04 (7.25-7.75')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---------------------------------------|--------|-------|-----|------------|-------|---------------|----|
| | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0911 20:19 PD | |
| 1,2-Dichloroethane | ND | ug/kg | 3.2 | | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 3.2 | | | | |
| Bromodichloromethane | ND | ug/kg | 3.2 | | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 3.2 | | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 3.2 | | | | |
| 1,1-Dichloropropene | ND | ug/kg | 16. | | | | |
| Bromoform | ND | ug/kg | 13. | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 3.2 | | | | |
| Benzene | ND | ug/kg | 3.2 | | | | |
| Toluene | ND | ug/kg | 4.9 | | | | |
| Ethylbenzene | ND | ug/kg | 3.2 | | | | |
| Chloromethane | ND | ug/kg | 16. | | | | |
| Bromomethane | ND | ug/kg | 6.5 | | | | |
| Vinyl chloride | ND | ug/kg | 6.5 | | | | |
| Chloroethane | ND | ug/kg | 6.5 | | | | |
| 1,1-Dichloroethene | ND | ug/kg | 3.2 | | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 4.9 | | | | |
| Trichloroethene | ND | ug/kg | 3.2 | | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 16. | | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 16. | | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 16. | | | | |
| Methyl tert butyl ether | ND | ug/kg | 6.5 | | | | |
| p/m-Xylene | ND | ug/kg | 6.5 | | | | |
| o-Xylene | ND | ug/kg | 6.5 | | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 3.2 | | | | |
| Dibromomethane | ND | ug/kg | 32. | | | | |
| Styrene | ND | ug/kg | 6.5 | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 32. | | | | |
| Acetone | ND | ug/kg | 32. | | | | |
| Carbon disulfide | ND | ug/kg | 32. | | | | |
| 2-Butanone | ND | ug/kg | 32. | | | | |
| Vinyl acetate | ND | ug/kg | 32. | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 32. | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 32. | | | | |
| 2-Hexanone | ND | ug/kg | 32. | | | | |
| Bromochloromethane | ND | ug/kg | 16. | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 16. | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 13. | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 16. | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 3.2 | | | | |
| Bromobenzene | ND | ug/kg | 16. | | | | |
| n-Butylbenzene | ND | ug/kg | 3.2 | | | | |
| sec-Butylbenzene | ND | ug/kg | 3.2 | | | | |
| tert-Butylbenzene | ND | ug/kg | 16. | | | | |
| o-Chlorotoluene | ND | ug/kg | 16. | | | | |
| p-Chlorotoluene | ND | ug/kg | 16. | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 16. | | | | |
| Hexachlorobutadiene | ND | ug/kg | 16. | | | | |
| Isopropylbenzene | ND | ug/kg | 3.2 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-07
PWG-DW-2008-04 (7.25-7.75')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|-----------------------|----|
| <hr/> | | | | | | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0911 20:19 | PD |
| p-Isopropyltoluene | ND | ug/kg | 3.2 | | | |
| Naphthalene | ND | ug/kg | 16. | | | |
| Acrylonitrile | ND | ug/kg | 32. | | | |
| n-Propylbenzene | ND | ug/kg | 3.2 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 16. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 16. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 16. | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 16. | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 13. | | | |
| 4-Ethyltoluene | ND | ug/kg | 13. | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 13. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 101 | % | 70-130 | | | |
| Toluene-d8 | 106 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 118 | % | 70-130 | | | |
| Dibromofluoromethane | 99.0 | % | 70-130 | | | |
| <hr/> | | | | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 0911 03:30 0912 19:22 | PS |
| Acenaphthene | ND | ug/kg | 430 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 430 | | | |
| Hexachlorobenzene | ND | ug/kg | 430 | | | |
| Bis(2-chloroethyl)ether | ND | ug/kg | 430 | | | |
| 2-Chloronaphthalene | ND | ug/kg | 520 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 430 | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 430 | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 430 | | | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 860 | | | |
| 2,4-Dinitrotoluene | ND | ug/kg | 430 | | | |
| 2,6-Dinitrotoluene | ND | ug/kg | 430 | | | |
| Fluoranthene | ND | ug/kg | 430 | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/kg | 430 | | | |
| 4-Bromophenyl phenyl ether | ND | ug/kg | 430 | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/kg | 430 | | | |
| Bis(2-chloroethoxy)methane | ND | ug/kg | 430 | | | |
| Hexachlorobutadiene | ND | ug/kg | 860 | | | |
| Hexachlorocyclopentadiene | ND | ug/kg | 860 | | | |
| Hexachloroethane | ND | ug/kg | 430 | | | |
| Isophorone | ND | ug/kg | 430 | | | |
| Naphthalene | ND | ug/kg | 430 | | | |
| Nitrobenzene | ND | ug/kg | 430 | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/kg | 1300 | | | |
| n-Nitrosodi-n-propylamine | ND | ug/kg | 430 | | | |
| Bis(2-Ethylhexyl)phthalate | ND | ug/kg | 860 | | | |
| Butyl benzyl phthalate | ND | ug/kg | 430 | | | |
| Di-n-butylphthalate | ND | ug/kg | 430 | | | |
| Di-n-octylphthalate | ND | ug/kg | 430 | | | |
| Diethyl phthalate | ND | ug/kg | 430 | | | |
| Dimethyl phthalate | ND | ug/kg | 430 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-07
PWG-DW-2008-04 (7.25-7.75')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 8270C | 0911 03:30 0912 19:22 PS | |
| Benzo(a)anthracene | ND | ug/kg | 430 | | | |
| Benzo(a)pyrene | ND | ug/kg | 430 | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 430 | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 430 | | | |
| Chrysene | ND | ug/kg | 430 | | | |
| Acenaphthylene | ND | ug/kg | 430 | | | |
| Anthracene | ND | ug/kg | 430 | | | |
| Benzo(ghi)perylene | ND | ug/kg | 430 | | | |
| Fluorene | ND | ug/kg | 430 | | | |
| Phenanthrene | ND | ug/kg | 430 | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 430 | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 430 | | | |
| Pyrene | ND | ug/kg | 430 | | | |
| Biphenyl | ND | ug/kg | 430 | | | |
| 4-Chloroaniline | ND | ug/kg | 430 | | | |
| 2-Nitroaniline | ND | ug/kg | 430 | | | |
| 3-Nitroaniline | ND | ug/kg | 430 | | | |
| 4-Nitroaniline | ND | ug/kg | 610 | | | |
| Dibenzofuran | ND | ug/kg | 430 | | | |
| 2-Methylnaphthalene | ND | ug/kg | 430 | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/kg | 1700 | | | |
| Acetophenone | ND | ug/kg | 1700 | | | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 430 | | | |
| p-Chloro-M-Cresol | ND | ug/kg | 430 | | | |
| 2-Chlorophenol | ND | ug/kg | 520 | | | |
| 2,4-Dichlorophenol | ND | ug/kg | 860 | | | |
| 2,4-Dimethylphenol | ND | ug/kg | 430 | | | |
| 2-Nitrophenol | ND | ug/kg | 1700 | | | |
| 4-Nitrophenol | ND | ug/kg | 860 | | | |
| 2,4-Dinitrophenol | ND | ug/kg | 1700 | | | |
| 4,6-Dinitro-o-cresol | ND | ug/kg | 1700 | | | |
| Pentachlorophenol | ND | ug/kg | 1700 | | | |
| Phenol | ND | ug/kg | 610 | | | |
| 2-Methylphenol | ND | ug/kg | 520 | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/kg | 520 | | | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 430 | | | |
| Benzoic Acid | ND | ug/kg | 4300 | | | |
| Benzyl Alcohol | ND | ug/kg | 860 | | | |
| Carbazole | ND | ug/kg | 430 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 45.0 | % | 25-120 | | | |
| Phenol-d6 | 46.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 40.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 47.0 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 91.0 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 72.0 | % | 18-120 | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 8270C | 0911 03:30 0912 23:27 AK | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-07
PWG-DW-2008-04 (7.25-7.75')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C-SIM cont'd | | | | 1 8270C | 0911 03:30 0912 23:27 AK | |
| Acenaphthene | ND | ug/kg | 86. | | | |
| 2-Chloronaphthalene | ND | ug/kg | 86. | | | |
| Fluoranthene | ND | ug/kg | 86. | | | |
| Hexachlorobutadiene | ND | ug/kg | 220 | | | |
| Naphthalene | ND | ug/kg | 86. | | | |
| Benzo(a)anthracene | ND | ug/kg | 86. | | | |
| Benzo(a)pyrene | ND | ug/kg | 86. | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 86. | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 86. | | | |
| Chrysene | ND | ug/kg | 86. | | | |
| Acenaphthylene | ND | ug/kg | 86. | | | |
| Anthracene | ND | ug/kg | 86. | | | |
| Benzo(ghi)perylene | ND | ug/kg | 86. | | | |
| Fluorene | ND | ug/kg | 86. | | | |
| Phenanthrene | ND | ug/kg | 86. | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 86. | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 86. | | | |
| Pyrene | ND | ug/kg | 86. | | | |
| 2-Methylnaphthalene | ND | ug/kg | 86. | | | |
| Pentachlorophenol | ND | ug/kg | 350 | | | |
| Hexachlorobenzene | ND | ug/kg | 350 | | | |
| Hexachloroethane | ND | ug/kg | 350 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 41.0 | % | 25-120 | | | |
| Phenol-d6 | 45.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 36.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 45.0 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 76.0 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 71.0 | % | 18-120 | | | |
| Petroleum Hydrocarbon Quantitation by GC-FID | | | | 1 8015B(M) | 0911 00:15 0912 03:46 RT | |
| TPH | 89100 | ug/kg | 43300 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| o-Terphenyl | 73.0 | % | 40-140 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0813344-08
Date Collected: 08-SEP-2008 10:10
Sample Matrix: PWG-DW-2008-05 (6.75-7.25')
Date Received : 09-SEP-2008
Condition of Sample: SOIL
Date Reported : 25-SEP-2008
Field Prep: None
Number & Type of Containers: 3-Amber,1-Vial

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-----------------------|----|
| Solids, Total | 86 | % | 0.10 | 30 2540G | 0910 18:40 | NM |
| Total Metals | | | | | | |
| Aluminum, Total | 1200 | mg/kg | 5.3 | 1 6010B | 0910 13:30 0911 14:26 | AI |
| Antimony, Total | ND | mg/kg | 2.7 | 1 6010B | 0910 13:30 0911 14:26 | AI |
| Arsenic, Total | 1.1 | mg/kg | 0.53 | 1 6010B | 0910 13:30 0911 14:26 | AI |
| Barium, Total | 17 | mg/kg | 0.53 | 1 6010B | 0910 13:30 0911 14:26 | AI |
| Beryllium, Total | ND | mg/kg | 0.27 | 1 6010B | 0910 13:30 0911 14:26 | AI |
| Cadmium, Total | ND | mg/kg | 0.53 | 1 6010B | 0910 13:30 0911 14:26 | AI |
| Calcium, Total | 8900 | mg/kg | 5.3 | 1 6010B | 0910 13:30 0911 14:26 | AI |
| Chromium, Total | 2.3 | mg/kg | 0.53 | 1 6010B | 0910 13:30 0911 14:26 | AI |
| Cobalt, Total | ND | mg/kg | 1.1 | 1 6010B | 0910 13:30 0911 14:26 | AI |
| Copper, Total | 3.1 | mg/kg | 0.53 | 1 6010B | 0910 13:30 0911 14:26 | AI |
| Iron, Total | 2400 | mg/kg | 2.7 | 1 6010B | 0910 13:30 0911 14:26 | AI |
| Lead, Total | 32 | mg/kg | 2.7 | 1 6010B | 0910 13:30 0911 14:26 | AI |
| Magnesium, Total | 5700 | mg/kg | 5.3 | 1 6010B | 0910 13:30 0911 14:26 | AI |
| Manganese, Total | 34 | mg/kg | 0.53 | 1 6010B | 0910 13:30 0911 14:26 | AI |
| Mercury, Total | ND | mg/kg | 0.09 | 1 7471A | 0911 23:30 0912 14:16 | RC |
| Nickel, Total | 1.4 | mg/kg | 1.3 | 1 6010B | 0910 13:30 0911 14:26 | AI |
| Potassium, Total | ND | mg/kg | 130 | 1 6010B | 0910 13:30 0911 14:26 | AI |
| Selenium, Total | ND | mg/kg | 1.1 | 1 6010B | 0910 13:30 0911 14:26 | AI |
| Silver, Total | ND | mg/kg | 0.53 | 1 6010B | 0910 13:30 0911 14:26 | AI |
| Sodium, Total | ND | mg/kg | 110 | 1 6010B | 0910 13:30 0911 14:26 | AI |
| Thallium, Total | ND | mg/kg | 1.1 | 1 6010B | 0910 13:30 0911 14:26 | AI |
| Vanadium, Total | 3.2 | mg/kg | 0.53 | 1 6010B | 0910 13:30 0911 14:26 | AI |
| Zinc, Total | 21 | mg/kg | 2.7 | 1 6010B | 0910 13:30 0911 14:26 | AI |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0911 20:55 | PD |
| Methylene chloride | ND | ug/kg | 29. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 4.4 | | | |
| Chloroform | ND | ug/kg | 4.4 | | | |
| Carbon tetrachloride | ND | ug/kg | 2.9 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 10. | | | |
| Dibromochloromethane | ND | ug/kg | 2.9 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 4.4 | | | |
| Tetrachloroethene | ND | ug/kg | 2.9 | | | |
| Chlorobenzene | ND | ug/kg | 2.9 | | | |
| Trichlorofluoromethane | ND | ug/kg | 14. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-08
PWG-DW-2008-05 (6.75-7.25')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---------------------------------------|--------|-------|-----|------------|-------|---------------|----|
| | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0911 20:55 PD | |
| 1,2-Dichloroethane | ND | ug/kg | 2.9 | | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 2.9 | | | | |
| Bromodichloromethane | ND | ug/kg | 2.9 | | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 2.9 | | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 2.9 | | | | |
| 1,1-Dichloropropene | ND | ug/kg | 14. | | | | |
| Bromoform | ND | ug/kg | 12. | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 2.9 | | | | |
| Benzene | ND | ug/kg | 2.9 | | | | |
| Toluene | ND | ug/kg | 4.4 | | | | |
| Ethylbenzene | ND | ug/kg | 2.9 | | | | |
| Chloromethane | ND | ug/kg | 14. | | | | |
| Bromomethane | ND | ug/kg | 5.8 | | | | |
| Vinyl chloride | ND | ug/kg | 5.8 | | | | |
| Chloroethane | ND | ug/kg | 5.8 | | | | |
| 1,1-Dichloroethene | ND | ug/kg | 2.9 | | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 4.4 | | | | |
| Trichloroethene | ND | ug/kg | 2.9 | | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 14. | | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 14. | | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 14. | | | | |
| Methyl tert butyl ether | ND | ug/kg | 5.8 | | | | |
| p/m-Xylene | ND | ug/kg | 5.8 | | | | |
| o-Xylene | ND | ug/kg | 5.8 | | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 2.9 | | | | |
| Dibromomethane | ND | ug/kg | 29. | | | | |
| Styrene | ND | ug/kg | 5.8 | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 29. | | | | |
| Acetone | ND | ug/kg | 29. | | | | |
| Carbon disulfide | ND | ug/kg | 29. | | | | |
| 2-Butanone | ND | ug/kg | 29. | | | | |
| Vinyl acetate | ND | ug/kg | 29. | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 29. | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 29. | | | | |
| 2-Hexanone | ND | ug/kg | 29. | | | | |
| Bromochloromethane | ND | ug/kg | 14. | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 14. | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 12. | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 14. | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 2.9 | | | | |
| Bromobenzene | ND | ug/kg | 14. | | | | |
| n-Butylbenzene | ND | ug/kg | 2.9 | | | | |
| sec-Butylbenzene | ND | ug/kg | 2.9 | | | | |
| tert-Butylbenzene | ND | ug/kg | 14. | | | | |
| o-Chlorotoluene | ND | ug/kg | 14. | | | | |
| p-Chlorotoluene | ND | ug/kg | 14. | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 14. | | | | |
| Hexachlorobutadiene | ND | ug/kg | 14. | | | | |
| Isopropylbenzene | ND | ug/kg | 2.9 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-08
PWG-DW-2008-05 (6.75-7.25')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|--------------------------|----|
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0911 20:55 PD | |
| p-Isopropyltoluene | ND | ug/kg | 2.9 | | | |
| Naphthalene | ND | ug/kg | 14. | | | |
| Acrylonitrile | ND | ug/kg | 29. | | | |
| n-Propylbenzene | ND | ug/kg | 2.9 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 14. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 14. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 14. | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 14. | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 12. | | | |
| 4-Ethyltoluene | ND | ug/kg | 12. | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 12. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 108 | % | 70-130 | | | |
| Toluene-d8 | 112 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 122 | % | 70-130 | | | |
| Dibromofluoromethane | 104 | % | 70-130 | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 0911 03:30 0912 19:46 PS | |
| Acenaphthene | ND | ug/kg | 390 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 390 | | | |
| Hexachlorobenzene | ND | ug/kg | 390 | | | |
| Bis(2-chloroethyl)ether | ND | ug/kg | 390 | | | |
| 2-Chloronaphthalene | ND | ug/kg | 460 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 390 | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 390 | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 390 | | | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 780 | | | |
| 2,4-Dinitrotoluene | ND | ug/kg | 390 | | | |
| 2,6-Dinitrotoluene | ND | ug/kg | 390 | | | |
| Fluoranthene | ND | ug/kg | 390 | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/kg | 390 | | | |
| 4-Bromophenyl phenyl ether | ND | ug/kg | 390 | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/kg | 390 | | | |
| Bis(2-chloroethoxy)methane | ND | ug/kg | 390 | | | |
| Hexachlorobutadiene | ND | ug/kg | 780 | | | |
| Hexachlorocyclopentadiene | ND | ug/kg | 780 | | | |
| Hexachloroethane | ND | ug/kg | 390 | | | |
| Isophorone | ND | ug/kg | 390 | | | |
| Naphthalene | ND | ug/kg | 390 | | | |
| Nitrobenzene | ND | ug/kg | 390 | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/kg | 1200 | | | |
| n-Nitrosodi-n-propylamine | ND | ug/kg | 390 | | | |
| Bis(2-Ethylhexyl)phthalate | ND | ug/kg | 780 | | | |
| Butyl benzyl phthalate | ND | ug/kg | 390 | | | |
| Di-n-butylphthalate | ND | ug/kg | 390 | | | |
| Di-n-octylphthalate | ND | ug/kg | 390 | | | |
| Diethyl phthalate | ND | ug/kg | 390 | | | |
| Dimethyl phthalate | ND | ug/kg | 390 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-08
PWG-DW-2008-05 (6.75-7.25')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 8270C | 0911 03:30 0912 19:46 PS | |
| Benzo(a)anthracene | ND | ug/kg | 390 | | | |
| Benzo(a)pyrene | ND | ug/kg | 390 | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 390 | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 390 | | | |
| Chrysene | ND | ug/kg | 390 | | | |
| Acenaphthylene | ND | ug/kg | 390 | | | |
| Anthracene | ND | ug/kg | 390 | | | |
| Benzo(ghi)perylene | ND | ug/kg | 390 | | | |
| Fluorene | ND | ug/kg | 390 | | | |
| Phenanthrene | ND | ug/kg | 390 | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 390 | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 390 | | | |
| Pyrene | ND | ug/kg | 390 | | | |
| Biphenyl | ND | ug/kg | 390 | | | |
| 4-Chloroaniline | ND | ug/kg | 390 | | | |
| 2-Nitroaniline | ND | ug/kg | 390 | | | |
| 3-Nitroaniline | ND | ug/kg | 390 | | | |
| 4-Nitroaniline | ND | ug/kg | 540 | | | |
| Dibenzofuran | ND | ug/kg | 390 | | | |
| 2-Methylnaphthalene | ND | ug/kg | 390 | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/kg | 1600 | | | |
| Acetophenone | ND | ug/kg | 1600 | | | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 390 | | | |
| p-Chloro-M-Cresol | ND | ug/kg | 390 | | | |
| 2-Chlorophenol | ND | ug/kg | 460 | | | |
| 2,4-Dichlorophenol | ND | ug/kg | 780 | | | |
| 2,4-Dimethylphenol | ND | ug/kg | 390 | | | |
| 2-Nitrophenol | ND | ug/kg | 1600 | | | |
| 4-Nitrophenol | ND | ug/kg | 780 | | | |
| 2,4-Dinitrophenol | ND | ug/kg | 1600 | | | |
| 4,6-Dinitro-o-cresol | ND | ug/kg | 1600 | | | |
| Pentachlorophenol | ND | ug/kg | 1600 | | | |
| Phenol | ND | ug/kg | 540 | | | |
| 2-Methylphenol | ND | ug/kg | 460 | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/kg | 460 | | | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 390 | | | |
| Benzoic Acid | ND | ug/kg | 3900 | | | |
| Benzyl Alcohol | ND | ug/kg | 780 | | | |
| Carbazole | ND | ug/kg | 390 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 62.0 | % | 25-120 | | | |
| Phenol-d6 | 59.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 53.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 56.0 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 79.0 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 69.0 | % | 18-120 | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 8270C | 0911 03:30 0913 00:14 AK | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-08
PWG-DW-2008-05 (6.75-7.25')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C-SIM cont'd | | | | 1 8270C | 0911 03:30 0913 00:14 AK | |
| Acenaphthene | ND | ug/kg | 78. | | | |
| 2-Chloronaphthalene | ND | ug/kg | 78. | | | |
| Fluoranthene | ND | ug/kg | 78. | | | |
| Hexachlorobutadiene | ND | ug/kg | 190 | | | |
| Naphthalene | ND | ug/kg | 78. | | | |
| Benzo(a)anthracene | ND | ug/kg | 78. | | | |
| Benzo(a)pyrene | ND | ug/kg | 78. | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 78. | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 78. | | | |
| Chrysene | ND | ug/kg | 78. | | | |
| Acenaphthylene | ND | ug/kg | 78. | | | |
| Anthracene | ND | ug/kg | 78. | | | |
| Benzo(ghi)perylene | ND | ug/kg | 78. | | | |
| Fluorene | ND | ug/kg | 78. | | | |
| Phenanthrene | ND | ug/kg | 78. | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 78. | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 78. | | | |
| Pyrene | ND | ug/kg | 78. | | | |
| 2-Methylnaphthalene | ND | ug/kg | 78. | | | |
| Pentachlorophenol | ND | ug/kg | 310 | | | |
| Hexachlorobenzene | ND | ug/kg | 310 | | | |
| Hexachloroethane | ND | ug/kg | 310 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 58.0 | % | 25-120 | | | |
| Phenol-d6 | 62.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 52.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 57.0 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 70.0 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 72.0 | % | 18-120 | | | |
| Petroleum Hydrocarbon Quantitation by GC-FID | | | | 1 8015B(M) | 0911 00:15 0912 04:20 RT | |
| TPH | 83900 | ug/kg | 38800 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| o-Terphenyl | 77.0 | % | 40-140 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0813344-09 **Date Collected:** 08-SEP-2008 10:25
Sample Matrix: PWG-DW-2008-06 (6.75-7.25') **Date Received :** 09-SEP-2008
Condition of Sample: SOIL **Date Reported :** 25-SEP-2008
Field Prep: None
Number & Type of Containers: 3-Amber,1-Vial

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-----------------------|----|
| Solids, Total | 84 | % | 0.10 | 30 2540G | 0910 18:40 | NM |
| Total Metals | | | | | | |
| Aluminum, Total | 1100 | mg/kg | 5.7 | 1 6010B | 0910 13:30 0911 14:29 | AI |
| Antimony, Total | ND | mg/kg | 2.9 | 1 6010B | 0910 13:30 0911 14:29 | AI |
| Arsenic, Total | 0.80 | mg/kg | 0.57 | 1 6010B | 0910 13:30 0911 14:29 | AI |
| Barium, Total | 12 | mg/kg | 0.57 | 1 6010B | 0910 13:30 0911 14:29 | AI |
| Beryllium, Total | ND | mg/kg | 0.29 | 1 6010B | 0910 13:30 0911 14:29 | AI |
| Cadmium, Total | ND | mg/kg | 0.57 | 1 6010B | 0910 13:30 0911 14:29 | AI |
| Calcium, Total | 14000 | mg/kg | 5.7 | 1 6010B | 0910 13:30 0911 14:29 | AI |
| Chromium, Total | 2.0 | mg/kg | 0.57 | 1 6010B | 0910 13:30 0911 14:29 | AI |
| Cobalt, Total | ND | mg/kg | 1.1 | 1 6010B | 0910 13:30 0911 14:29 | AI |
| Copper, Total | 5.6 | mg/kg | 0.57 | 1 6010B | 0910 13:30 0911 14:29 | AI |
| Iron, Total | 2000 | mg/kg | 2.9 | 1 6010B | 0910 13:30 0911 14:29 | AI |
| Lead, Total | 26 | mg/kg | 2.9 | 1 6010B | 0910 13:30 0911 14:29 | AI |
| Magnesium, Total | 8600 | mg/kg | 5.7 | 1 6010B | 0910 13:30 0911 14:29 | AI |
| Manganese, Total | 29 | mg/kg | 0.57 | 1 6010B | 0910 13:30 0911 14:29 | AI |
| Mercury, Total | ND | mg/kg | 0.09 | 1 7471A | 0911 23:30 0912 14:18 | RC |
| Nickel, Total | 1.6 | mg/kg | 1.4 | 1 6010B | 0910 13:30 0911 14:29 | AI |
| Potassium, Total | ND | mg/kg | 140 | 1 6010B | 0910 13:30 0911 14:29 | AI |
| Selenium, Total | ND | mg/kg | 1.1 | 1 6010B | 0910 13:30 0911 14:29 | AI |
| Silver, Total | ND | mg/kg | 0.57 | 1 6010B | 0910 13:30 0911 14:29 | AI |
| Sodium, Total | ND | mg/kg | 110 | 1 6010B | 0910 13:30 0911 14:29 | AI |
| Thallium, Total | ND | mg/kg | 1.1 | 1 6010B | 0910 13:30 0911 14:29 | AI |
| Vanadium, Total | 3.1 | mg/kg | 0.57 | 1 6010B | 0910 13:30 0911 14:29 | AI |
| Zinc, Total | 31 | mg/kg | 2.9 | 1 6010B | 0910 13:30 0911 14:29 | AI |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0912 20:34 | PD |
| Methylene chloride | ND | ug/kg | 30. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 4.5 | | | |
| Chloroform | ND | ug/kg | 4.5 | | | |
| Carbon tetrachloride | ND | ug/kg | 3.0 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 10. | | | |
| Dibromochloromethane | ND | ug/kg | 3.0 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 4.5 | | | |
| Tetrachloroethene | 6.6 | ug/kg | 3.0 | | | |
| Chlorobenzene | ND | ug/kg | 3.0 | | | |
| Trichlorofluoromethane | ND | ug/kg | 15. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-09
PWG-DW-2008-06 (6.75-7.25')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---------------------------------------|--------|-------|-----|------------|-------|---------------|----|
| | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0912 20:34 PD | |
| 1,2-Dichloroethane | ND | ug/kg | 3.0 | | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 3.0 | | | | |
| Bromodichloromethane | ND | ug/kg | 3.0 | | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 3.0 | | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 3.0 | | | | |
| 1,1-Dichloropropene | ND | ug/kg | 15. | | | | |
| Bromoform | ND | ug/kg | 12. | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 3.0 | | | | |
| Benzene | ND | ug/kg | 3.0 | | | | |
| Toluene | ND | ug/kg | 4.5 | | | | |
| Ethylbenzene | ND | ug/kg | 3.0 | | | | |
| Chloromethane | ND | ug/kg | 15. | | | | |
| Bromomethane | ND | ug/kg | 6.0 | | | | |
| Vinyl chloride | ND | ug/kg | 6.0 | | | | |
| Chloroethane | ND | ug/kg | 6.0 | | | | |
| 1,1-Dichloroethene | ND | ug/kg | 3.0 | | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 4.5 | | | | |
| Trichloroethene | ND | ug/kg | 3.0 | | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 15. | | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 15. | | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 15. | | | | |
| Methyl tert butyl ether | ND | ug/kg | 6.0 | | | | |
| p/m-Xylene | ND | ug/kg | 6.0 | | | | |
| o-Xylene | ND | ug/kg | 6.0 | | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 3.0 | | | | |
| Dibromomethane | ND | ug/kg | 30. | | | | |
| Styrene | ND | ug/kg | 6.0 | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 30. | | | | |
| Acetone | ND | ug/kg | 30. | | | | |
| Carbon disulfide | ND | ug/kg | 30. | | | | |
| 2-Butanone | ND | ug/kg | 30. | | | | |
| Vinyl acetate | ND | ug/kg | 30. | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 30. | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 30. | | | | |
| 2-Hexanone | ND | ug/kg | 30. | | | | |
| Bromochloromethane | ND | ug/kg | 15. | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 15. | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 12. | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 15. | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 3.0 | | | | |
| Bromobenzene | ND | ug/kg | 15. | | | | |
| n-Butylbenzene | ND | ug/kg | 3.0 | | | | |
| sec-Butylbenzene | ND | ug/kg | 3.0 | | | | |
| tert-Butylbenzene | ND | ug/kg | 15. | | | | |
| o-Chlorotoluene | ND | ug/kg | 15. | | | | |
| p-Chlorotoluene | ND | ug/kg | 15. | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 15. | | | | |
| Hexachlorobutadiene | ND | ug/kg | 15. | | | | |
| Isopropylbenzene | ND | ug/kg | 3.0 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-09
PWG-DW-2008-06 (6.75-7.25')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|--------------------------|----|
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0912 20:34 PD | |
| p-Isopropyltoluene | ND | ug/kg | 3.0 | | | |
| Naphthalene | ND | ug/kg | 15. | | | |
| Acrylonitrile | ND | ug/kg | 30. | | | |
| n-Propylbenzene | ND | ug/kg | 3.0 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 15. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 15. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 15. | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 15. | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 12. | | | |
| 4-Ethyltoluene | ND | ug/kg | 12. | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 12. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 94.0 | % | 70-130 | | | |
| Toluene-d8 | 103 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 112 | % | 70-130 | | | |
| Dibromofluoromethane | 93.0 | % | 70-130 | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 0911 03:30 0912 20:09 PS | |
| Acenaphthene | ND | ug/kg | 400 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 400 | | | |
| Hexachlorobenzene | ND | ug/kg | 400 | | | |
| Bis(2-chloroethyl)ether | ND | ug/kg | 400 | | | |
| 2-Chloronaphthalene | ND | ug/kg | 480 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 400 | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 400 | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 400 | | | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 790 | | | |
| 2,4-Dinitrotoluene | ND | ug/kg | 400 | | | |
| 2,6-Dinitrotoluene | ND | ug/kg | 400 | | | |
| Fluoranthene | ND | ug/kg | 400 | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/kg | 400 | | | |
| 4-Bromophenyl phenyl ether | ND | ug/kg | 400 | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/kg | 400 | | | |
| Bis(2-chloroethoxy)methane | ND | ug/kg | 400 | | | |
| Hexachlorobutadiene | ND | ug/kg | 790 | | | |
| Hexachlorocyclopentadiene | ND | ug/kg | 790 | | | |
| Hexachloroethane | ND | ug/kg | 400 | | | |
| Isophorone | ND | ug/kg | 400 | | | |
| Naphthalene | ND | ug/kg | 400 | | | |
| Nitrobenzene | ND | ug/kg | 400 | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/kg | 1200 | | | |
| n-Nitrosodi-n-propylamine | ND | ug/kg | 400 | | | |
| Bis(2-Ethylhexyl)phthalate | ND | ug/kg | 790 | | | |
| Butyl benzyl phthalate | ND | ug/kg | 400 | | | |
| Di-n-butylphthalate | ND | ug/kg | 400 | | | |
| Di-n-octylphthalate | ND | ug/kg | 400 | | | |
| Diethyl phthalate | ND | ug/kg | 400 | | | |
| Dimethyl phthalate | ND | ug/kg | 400 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-09
PWG-DW-2008-06 (6.75-7.25')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 8270C | 0911 03:30 0912 20:09 PS | |
| Benzo(a)anthracene | ND | ug/kg | 400 | | | |
| Benzo(a)pyrene | ND | ug/kg | 400 | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 400 | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 400 | | | |
| Chrysene | ND | ug/kg | 400 | | | |
| Acenaphthylene | ND | ug/kg | 400 | | | |
| Anthracene | ND | ug/kg | 400 | | | |
| Benzo(ghi)perylene | ND | ug/kg | 400 | | | |
| Fluorene | ND | ug/kg | 400 | | | |
| Phenanthrene | ND | ug/kg | 400 | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 400 | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 400 | | | |
| Pyrene | ND | ug/kg | 400 | | | |
| Biphenyl | ND | ug/kg | 400 | | | |
| 4-Chloroaniline | ND | ug/kg | 400 | | | |
| 2-Nitroaniline | ND | ug/kg | 400 | | | |
| 3-Nitroaniline | ND | ug/kg | 400 | | | |
| 4-Nitroaniline | ND | ug/kg | 560 | | | |
| Dibenzofuran | ND | ug/kg | 400 | | | |
| 2-Methylnaphthalene | ND | ug/kg | 400 | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/kg | 1600 | | | |
| Acetophenone | ND | ug/kg | 1600 | | | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 400 | | | |
| p-Chloro-M-Cresol | ND | ug/kg | 400 | | | |
| 2-Chlorophenol | ND | ug/kg | 480 | | | |
| 2,4-Dichlorophenol | ND | ug/kg | 790 | | | |
| 2,4-Dimethylphenol | ND | ug/kg | 400 | | | |
| 2-Nitrophenol | ND | ug/kg | 1600 | | | |
| 4-Nitrophenol | ND | ug/kg | 790 | | | |
| 2,4-Dinitrophenol | ND | ug/kg | 1600 | | | |
| 4,6-Dinitro-o-cresol | ND | ug/kg | 1600 | | | |
| Pentachlorophenol | ND | ug/kg | 1600 | | | |
| Phenol | ND | ug/kg | 560 | | | |
| 2-Methylphenol | ND | ug/kg | 480 | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/kg | 480 | | | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 400 | | | |
| Benzoic Acid | ND | ug/kg | 4000 | | | |
| Benzyl Alcohol | ND | ug/kg | 790 | | | |
| Carbazole | ND | ug/kg | 400 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 30.0 | % | 25-120 | | | |
| Phenol-d6 | 28.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 25.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 30.0 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 46.0 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 40.0 | % | 18-120 | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 8270C | 0915 18:00 0916 16:12 AK | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-09
PWG-DW-2008-06 (6.75-7.25')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C-SIM cont'd | | | | 1 8270C | 0915 18:00 0916 16:12 AK | |
| Acenaphthene | ND | ug/kg | 16. | | | |
| 2-Chloronaphthalene | ND | ug/kg | 16. | | | |
| Fluoranthene | 30 | ug/kg | 16 | | | |
| Hexachlorobutadiene | ND | ug/kg | 40. | | | |
| Naphthalene | ND | ug/kg | 16. | | | |
| Benzo(a)anthracene | ND | ug/kg | 16. | | | |
| Benzo(a)pyrene | ND | ug/kg | 16. | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 16. | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 16. | | | |
| Chrysene | ND | ug/kg | 16. | | | |
| Acenaphthylene | ND | ug/kg | 16. | | | |
| Anthracene | ND | ug/kg | 16. | | | |
| Benzo(ghi)perylene | ND | ug/kg | 16. | | | |
| Fluorene | ND | ug/kg | 16. | | | |
| Phenanthrene | ND | ug/kg | 16. | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 16. | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 16. | | | |
| Pyrene | 32 | ug/kg | 16 | | | |
| 2-Methylnaphthalene | ND | ug/kg | 16. | | | |
| Pentachlorophenol | ND | ug/kg | 63. | | | |
| Hexachlorobenzene | ND | ug/kg | 63. | | | |
| Hexachloroethane | ND | ug/kg | 63. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 38.0 | % | 25-120 | | | |
| Phenol-d6 | 41.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 36.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 34.0 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 36.0 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 42.0 | % | 18-120 | | | |
| Petroleum Hydrocarbon Quantitation by GC-FID | | | | 1 8015B(M) | 0911 00:15 0912 04:55 RT | |
| TPH | 287000 | ug/kg | 39700 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| o-Terphenyl | 74.0 | % | 40-140 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0813344-10
Date Collected: 08-SEP-2008 10:45
Sample Matrix: PWG-DW-2008-07 (6.75-7.25')
Date Received : 09-SEP-2008
SOIL
Date Reported : 25-SEP-2008
Condition of Sample: Satisfactory
Field Prep: None
Number & Type of Containers: 9-Amber,3-Vial

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|--------------------------------|--------|-------|------|------------|------------|------------|----|
| | | | | | PREP | ANAL | |
| Solids, Total | 73 | % | 0.10 | 30 2540G | | 0910 18:40 | NM |
| Total Metals | | | | | | | |
| Aluminum, Total | 1400 | mg/kg | 6.4 | 1 6010B | 0910 13:30 | 0911 13:35 | AI |
| Antimony, Total | ND | mg/kg | 3.2 | 1 6010B | 0910 13:30 | 0911 13:35 | AI |
| Arsenic, Total | 0.82 | mg/kg | 0.64 | 1 6010B | 0910 13:30 | 0911 13:35 | AI |
| Barium, Total | 7.8 | mg/kg | 0.64 | 1 6010B | 0910 13:30 | 0911 13:35 | AI |
| Beryllium, Total | ND | mg/kg | 0.32 | 1 6010B | 0910 13:30 | 0911 13:35 | AI |
| Cadmium, Total | ND | mg/kg | 0.64 | 1 6010B | 0910 13:30 | 0911 13:35 | AI |
| Calcium, Total | 13000 | mg/kg | 6.4 | 1 6010B | 0910 13:30 | 0911 13:35 | AI |
| Chromium, Total | 9.2 | mg/kg | 0.64 | 1 6010B | 0910 13:30 | 0911 13:35 | AI |
| Cobalt, Total | ND | mg/kg | 1.3 | 1 6010B | 0910 13:30 | 0911 13:35 | AI |
| Copper, Total | 14 | mg/kg | 0.64 | 1 6010B | 0910 13:30 | 0911 13:35 | AI |
| Iron, Total | 2400 | mg/kg | 3.2 | 1 6010B | 0910 13:30 | 0911 13:35 | AI |
| Lead, Total | 60 | mg/kg | 3.2 | 1 6010B | 0910 13:30 | 0911 13:35 | AI |
| Magnesium, Total | 8800 | mg/kg | 6.4 | 1 6010B | 0910 13:30 | 0911 13:35 | AI |
| Manganese, Total | 26 | mg/kg | 0.64 | 1 6010B | 0910 13:30 | 0911 13:35 | AI |
| Mercury, Total | ND | mg/kg | 0.11 | 1 7471A | 0911 23:30 | 0912 14:20 | RC |
| Nickel, Total | 3.7 | mg/kg | 1.6 | 1 6010B | 0910 13:30 | 0911 13:35 | AI |
| Potassium, Total | 170 | mg/kg | 160 | 1 6010B | 0910 13:30 | 0911 13:35 | AI |
| Selenium, Total | ND | mg/kg | 1.3 | 1 6010B | 0910 13:30 | 0911 13:35 | AI |
| Silver, Total | ND | mg/kg | 0.64 | 1 6010B | 0910 13:30 | 0911 13:35 | AI |
| Sodium, Total | ND | mg/kg | 130 | 1 6010B | 0910 13:30 | 0911 13:35 | AI |
| Thallium, Total | ND | mg/kg | 1.3 | 1 6010B | 0910 13:30 | 0911 13:35 | AI |
| Vanadium, Total | 9.3 | mg/kg | 0.64 | 1 6010B | 0910 13:30 | 0911 13:35 | AI |
| Zinc, Total | 110 | mg/kg | 3.2 | 1 6010B | 0910 13:30 | 0911 13:35 | AI |
| Volatile Organics by EPA 8260B | | | | 1 8260B | | 0912 11:27 | PD |
| Methylene chloride | ND | ug/kg | 34. | | | | |
| 1,1-Dichloroethane | ND | ug/kg | 5.1 | | | | |
| Chloroform | ND | ug/kg | 5.1 | | | | |
| Carbon tetrachloride | ND | ug/kg | 3.4 | | | | |
| 1,2-Dichloropropane | ND | ug/kg | 12. | | | | |
| Dibromochloromethane | ND | ug/kg | 3.4 | | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 5.1 | | | | |
| Tetrachloroethene | 6.4 | ug/kg | 3.4 | | | | |
| Chlorobenzene | ND | ug/kg | 3.4 | | | | |
| Trichlorofluoromethane | ND | ug/kg | 17. | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-10
PWG-DW-2008-07 (6.75-7.25')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---------------------------------------|--------|-------|-----|------------|-------|---------------|----|
| | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0912 11:27 PD | |
| 1,2-Dichloroethane | ND | ug/kg | 3.4 | | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 3.4 | | | | |
| Bromodichloromethane | ND | ug/kg | 3.4 | | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 3.4 | | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 3.4 | | | | |
| 1,1-Dichloropropene | ND | ug/kg | 17. | | | | |
| Bromoform | ND | ug/kg | 14. | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 3.4 | | | | |
| Benzene | ND | ug/kg | 3.4 | | | | |
| Toluene | ND | ug/kg | 5.1 | | | | |
| Ethylbenzene | ND | ug/kg | 3.4 | | | | |
| Chloromethane | ND | ug/kg | 17. | | | | |
| Bromomethane | ND | ug/kg | 6.8 | | | | |
| Vinyl chloride | ND | ug/kg | 6.8 | | | | |
| Chloroethane | ND | ug/kg | 6.8 | | | | |
| 1,1-Dichloroethene | ND | ug/kg | 3.4 | | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 5.1 | | | | |
| Trichloroethene | ND | ug/kg | 3.4 | | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 17. | | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 17. | | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 17. | | | | |
| Methyl tert butyl ether | ND | ug/kg | 6.8 | | | | |
| p/m-Xylene | 230 | ug/kg | 6.8 | | | | |
| o-Xylene | ND | ug/kg | 6.8 | | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 3.4 | | | | |
| Dibromomethane | ND | ug/kg | 34. | | | | |
| Styrene | ND | ug/kg | 6.8 | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 34. | | | | |
| Acetone | 48 | ug/kg | 34 | | | | |
| Carbon disulfide | ND | ug/kg | 34. | | | | |
| 2-Butanone | ND | ug/kg | 34. | | | | |
| Vinyl acetate | ND | ug/kg | 34. | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 34. | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 34. | | | | |
| 2-Hexanone | ND | ug/kg | 34. | | | | |
| Bromochloromethane | ND | ug/kg | 17. | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 17. | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 14. | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 17. | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 3.4 | | | | |
| Bromobenzene | ND | ug/kg | 17. | | | | |
| n-Butylbenzene | ND | ug/kg | 3.4 | | | | |
| sec-Butylbenzene | ND | ug/kg | 3.4 | | | | |
| tert-Butylbenzene | ND | ug/kg | 17. | | | | |
| o-Chlorotoluene | ND | ug/kg | 17. | | | | |
| p-Chlorotoluene | ND | ug/kg | 17. | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 17. | | | | |
| Hexachlorobutadiene | ND | ug/kg | 17. | | | | |
| Isopropylbenzene | 39 | ug/kg | 3.4 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-10
PWG-DW-2008-07 (6.75-7.25')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|--------------------------|----|
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0912 11:27 PD | |
| p-Isopropyltoluene | ND | ug/kg | 3.4 | | | |
| Naphthalene | ND | ug/kg | 17. | | | |
| Acrylonitrile | ND | ug/kg | 34. | | | |
| n-Propylbenzene | 37 | ug/kg | 3.4 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 17. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 17. | | | |
| 1,3,5-Trimethylbenzene | 62 | ug/kg | 17 | | | |
| 1,2,4-Trimethylbenzene | 60 | ug/kg | 17 | | | |
| 1,4-Diethylbenzene | 16 | ug/kg | 14 | | | |
| 4-Ethyltoluene | 48 | ug/kg | 14 | | | |
| 1,2,4,5-Tetramethylbenzene | 24 | ug/kg | 14 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 103 | % | 70-130 | | | |
| Toluene-d8 | 105 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 117 | % | 70-130 | | | |
| Dibromofluoromethane | 97.0 | % | 70-130 | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 0911 03:30 0913 00:58 PS | |
| Acenaphthene | ND | ug/kg | 4600 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 4600 | | | |
| Hexachlorobenzene | ND | ug/kg | 4600 | | | |
| Bis(2-chloroethyl)ether | ND | ug/kg | 4600 | | | |
| 2-Chloronaphthalene | ND | ug/kg | 5500 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 4600 | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 4600 | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 4600 | | | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 9100 | | | |
| 2,4-Dinitrotoluene | ND | ug/kg | 4600 | | | |
| 2,6-Dinitrotoluene | ND | ug/kg | 4600 | | | |
| Fluoranthene | ND | ug/kg | 4600 | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/kg | 4600 | | | |
| 4-Bromophenyl phenyl ether | ND | ug/kg | 4600 | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/kg | 4600 | | | |
| Bis(2-chloroethoxy)methane | ND | ug/kg | 4600 | | | |
| Hexachlorobutadiene | ND | ug/kg | 9100 | | | |
| Hexachlorocyclopentadiene | ND | ug/kg | 9100 | | | |
| Hexachloroethane | ND | ug/kg | 4600 | | | |
| Isophorone | ND | ug/kg | 4600 | | | |
| Naphthalene | ND | ug/kg | 4600 | | | |
| Nitrobenzene | ND | ug/kg | 4600 | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/kg | 14000 | | | |
| n-Nitrosodi-n-propylamine | ND | ug/kg | 4600 | | | |
| Bis(2-Ethylhexyl)phthalate | ND | ug/kg | 9100 | | | |
| Butyl benzyl phthalate | ND | ug/kg | 4600 | | | |
| Di-n-butylphthalate | ND | ug/kg | 4600 | | | |
| Di-n-octylphthalate | ND | ug/kg | 4600 | | | |
| Diethyl phthalate | ND | ug/kg | 4600 | | | |
| Dimethyl phthalate | ND | ug/kg | 4600 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-10
PWG-DW-2008-07 (6.75-7.25')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 8270C | 0911 03:30 0913 00:58 PS | |
| Benzo(a)anthracene | ND | ug/kg | 4600 | | | |
| Benzo(a)pyrene | ND | ug/kg | 4600 | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 4600 | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 4600 | | | |
| Chrysene | ND | ug/kg | 4600 | | | |
| Acenaphthylene | ND | ug/kg | 4600 | | | |
| Anthracene | ND | ug/kg | 4600 | | | |
| Benzo(ghi)perylene | ND | ug/kg | 4600 | | | |
| Fluorene | ND | ug/kg | 4600 | | | |
| Phenanthrene | ND | ug/kg | 4600 | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 4600 | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 4600 | | | |
| Pyrene | ND | ug/kg | 4600 | | | |
| Biphenyl | ND | ug/kg | 4600 | | | |
| 4-Chloroaniline | ND | ug/kg | 4600 | | | |
| 2-Nitroaniline | ND | ug/kg | 4600 | | | |
| 3-Nitroaniline | ND | ug/kg | 4600 | | | |
| 4-Nitroaniline | ND | ug/kg | 6400 | | | |
| Dibenzofuran | ND | ug/kg | 4600 | | | |
| 2-Methylnaphthalene | ND | ug/kg | 4600 | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/kg | 18000 | | | |
| Acetophenone | ND | ug/kg | 18000 | | | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 4600 | | | |
| p-Chloro-M-Cresol | ND | ug/kg | 4600 | | | |
| 2-Chlorophenol | ND | ug/kg | 5500 | | | |
| 2,4-Dichlorophenol | ND | ug/kg | 9100 | | | |
| 2,4-Dimethylphenol | ND | ug/kg | 4600 | | | |
| 2-Nitrophenol | ND | ug/kg | 18000 | | | |
| 4-Nitrophenol | ND | ug/kg | 9100 | | | |
| 2,4-Dinitrophenol | ND | ug/kg | 18000 | | | |
| 4,6-Dinitro-o-cresol | ND | ug/kg | 18000 | | | |
| Pentachlorophenol | ND | ug/kg | 18000 | | | |
| Phenol | ND | ug/kg | 6400 | | | |
| 2-Methylphenol | ND | ug/kg | 5500 | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/kg | 5500 | | | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 4600 | | | |
| Benzoic Acid | ND | ug/kg | 46000 | | | |
| Benzyl Alcohol | ND | ug/kg | 9100 | | | |
| Carbazole | ND | ug/kg | 4600 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 100 | % | 25-120 | | | |
| Phenol-d6 | 98.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 86.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 100 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 120 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 89.0 | % | 18-120 | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 8270C | 0911 03:30 0913 13:01 AK | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-10
PWG-DW-2008-07 (6.75-7.25')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C-SIM cont'd | | | | 1 8270C | 0911 03:30 0913 13:01 AK | |
| Acenaphthene | ND | ug/kg | 1800 | | | |
| 2-Chloronaphthalene | ND | ug/kg | 1800 | | | |
| Fluoranthene | ND | ug/kg | 1800 | | | |
| Hexachlorobutadiene | ND | ug/kg | 4600 | | | |
| Naphthalene | ND | ug/kg | 1800 | | | |
| Benzo(a)anthracene | ND | ug/kg | 1800 | | | |
| Benzo(a)pyrene | ND | ug/kg | 1800 | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 1800 | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 1800 | | | |
| Chrysene | ND | ug/kg | 1800 | | | |
| Acenaphthylene | ND | ug/kg | 1800 | | | |
| Anthracene | ND | ug/kg | 1800 | | | |
| Benzo(ghi)perylene | ND | ug/kg | 1800 | | | |
| Fluorene | ND | ug/kg | 1800 | | | |
| Phenanthrene | ND | ug/kg | 1800 | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 1800 | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 1800 | | | |
| Pyrene | ND | ug/kg | 1800 | | | |
| 2-Methylnaphthalene | ND | ug/kg | 1800 | | | |
| Pentachlorophenol | ND | ug/kg | 7300 | | | |
| Hexachlorobenzene | ND | ug/kg | 7300 | | | |
| Hexachloroethane | ND | ug/kg | 7300 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | ND | % | 25-120 | | | |
| Phenol-d6 | ND | % | 10-120 | | | |
| Nitrobenzene-d5 | ND | % | 23-120 | | | |
| 2-Fluorobiphenyl | ND | % | 30-120 | | | |
| 2,4,6-Tribromophenol | ND | % | 19-120 | | | |
| 4-Terphenyl-d14 | ND | % | 18-120 | | | |
| Petroleum Hydrocarbon Quantitation by GC-FID | | | | 1 8015B(M) | 0911 00:15 0912 04:55 RT | |
| TPH | 3670000 | ug/kg | 457000 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| o-Terphenyl | 96.0 | % | 40-140 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0813344-11 Date Collected: 08-SEP-2008 11:05
PWG-DW-2008-08 (5.25-5.75') Date Received : 09-SEP-2008
Sample Matrix: SOIL Date Reported : 25-SEP-2008
Condition of Sample: Satisfactory Field Prep: None
Number & Type of Containers: 3-Amber,1-Vial

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|-----------|--------|-------|-----|------------|-------------------|----|
|-----------|--------|-------|-----|------------|-------------------|----|

***** THIS SAMPLE IS ON HOLD *****

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0813344-12 **Date Collected:** 08-SEP-2008 11:25
Sample Matrix: PWG-DW-2008-09 (6.75-7.25') **Date Received :** 09-SEP-2008
Condition of Sample: SOIL **Date Reported :** 25-SEP-2008
Field Prep: None
Number & Type of Containers: 3-Amber,1-Vial

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-----------------------|----|
| Solids, Total | 81 | % | 0.10 | 30 2540G | 0910 18:40 | NM |
| Total Metals | | | | | | |
| Aluminum, Total | 2500 | mg/kg | 5.9 | 1 6010B | 0910 13:30 0911 14:33 | AI |
| Antimony, Total | ND | mg/kg | 3.0 | 1 6010B | 0910 13:30 0911 14:33 | AI |
| Arsenic, Total | 0.77 | mg/kg | 0.59 | 1 6010B | 0910 13:30 0911 14:33 | AI |
| Barium, Total | 9.7 | mg/kg | 0.59 | 1 6010B | 0910 13:30 0911 14:33 | AI |
| Beryllium, Total | ND | mg/kg | 0.30 | 1 6010B | 0910 13:30 0911 14:33 | AI |
| Cadmium, Total | ND | mg/kg | 0.59 | 1 6010B | 0910 13:30 0911 14:33 | AI |
| Calcium, Total | 230 | mg/kg | 5.9 | 1 6010B | 0910 13:30 0911 14:33 | AI |
| Chromium, Total | 6.3 | mg/kg | 0.59 | 1 6010B | 0910 13:30 0911 14:33 | AI |
| Cobalt, Total | ND | mg/kg | 1.2 | 1 6010B | 0910 13:30 0911 14:33 | AI |
| Copper, Total | 4.9 | mg/kg | 0.59 | 1 6010B | 0910 13:30 0911 14:33 | AI |
| Iron, Total | 3600 | mg/kg | 3.0 | 1 6010B | 0910 13:30 0911 14:33 | AI |
| Lead, Total | 21 | mg/kg | 3.0 | 1 6010B | 0910 13:30 0911 14:33 | AI |
| Magnesium, Total | 460 | mg/kg | 5.9 | 1 6010B | 0910 13:30 0911 14:33 | AI |
| Manganese, Total | 13 | mg/kg | 0.59 | 1 6010B | 0910 13:30 0911 14:33 | AI |
| Mercury, Total | ND | mg/kg | 0.10 | 1 7471A | 0911 23:30 0912 14:29 | RC |
| Nickel, Total | 3.0 | mg/kg | 1.5 | 1 6010B | 0910 13:30 0911 14:33 | AI |
| Potassium, Total | ND | mg/kg | 150 | 1 6010B | 0910 13:30 0911 14:33 | AI |
| Selenium, Total | ND | mg/kg | 1.2 | 1 6010B | 0910 13:30 0911 14:33 | AI |
| Silver, Total | ND | mg/kg | 0.59 | 1 6010B | 0910 13:30 0911 14:33 | AI |
| Sodium, Total | ND | mg/kg | 120 | 1 6010B | 0910 13:30 0911 14:33 | AI |
| Thallium, Total | ND | mg/kg | 1.2 | 1 6010B | 0910 13:30 0911 14:33 | AI |
| Vanadium, Total | 9.9 | mg/kg | 0.59 | 1 6010B | 0910 13:30 0911 14:33 | AI |
| Zinc, Total | 78 | mg/kg | 3.0 | 1 6010B | 0910 13:30 0911 14:33 | AI |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0911 21:32 | PD |
| Methylene chloride | ND | ug/kg | 31. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 4.6 | | | |
| Chloroform | ND | ug/kg | 4.6 | | | |
| Carbon tetrachloride | ND | ug/kg | 3.1 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 11. | | | |
| Dibromochloromethane | ND | ug/kg | 3.1 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 4.6 | | | |
| Tetrachloroethene | ND | ug/kg | 3.1 | | | |
| Chlorobenzene | ND | ug/kg | 3.1 | | | |
| Trichlorofluoromethane | ND | ug/kg | 15. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-12
PWG-DW-2008-09 (6.75-7.25')

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|--------|-------|-----|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0911 21:32 PD | | |
| 1,2-Dichloroethane | ND | ug/kg | 3.1 | | | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 3.1 | | | | | |
| Bromodichloromethane | ND | ug/kg | 3.1 | | | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 3.1 | | | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 3.1 | | | | | |
| 1,1-Dichloropropene | ND | ug/kg | 15. | | | | | |
| Bromoform | ND | ug/kg | 12. | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 3.1 | | | | | |
| Benzene | ND | ug/kg | 3.1 | | | | | |
| Toluene | ND | ug/kg | 4.6 | | | | | |
| Ethylbenzene | ND | ug/kg | 3.1 | | | | | |
| Chloromethane | ND | ug/kg | 15. | | | | | |
| Bromomethane | ND | ug/kg | 6.2 | | | | | |
| Vinyl chloride | ND | ug/kg | 6.2 | | | | | |
| Chloroethane | ND | ug/kg | 6.2 | | | | | |
| 1,1-Dichloroethene | ND | ug/kg | 3.1 | | | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 4.6 | | | | | |
| Trichloroethene | ND | ug/kg | 3.1 | | | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 15. | | | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 15. | | | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 15. | | | | | |
| Methyl tert butyl ether | ND | ug/kg | 6.2 | | | | | |
| p/m-Xylene | ND | ug/kg | 6.2 | | | | | |
| o-Xylene | ND | ug/kg | 6.2 | | | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 3.1 | | | | | |
| Dibromomethane | ND | ug/kg | 31. | | | | | |
| Styrene | ND | ug/kg | 6.2 | | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 31. | | | | | |
| Acetone | ND | ug/kg | 31. | | | | | |
| Carbon disulfide | ND | ug/kg | 31. | | | | | |
| 2-Butanone | ND | ug/kg | 31. | | | | | |
| Vinyl acetate | ND | ug/kg | 31. | | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 31. | | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 31. | | | | | |
| 2-Hexanone | ND | ug/kg | 31. | | | | | |
| Bromochloromethane | ND | ug/kg | 15. | | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 15. | | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 12. | | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 15. | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 3.1 | | | | | |
| Bromobenzene | ND | ug/kg | 15. | | | | | |
| n-Butylbenzene | ND | ug/kg | 3.1 | | | | | |
| sec-Butylbenzene | ND | ug/kg | 3.1 | | | | | |
| tert-Butylbenzene | ND | ug/kg | 15. | | | | | |
| o-Chlorotoluene | ND | ug/kg | 15. | | | | | |
| p-Chlorotoluene | ND | ug/kg | 15. | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 15. | | | | | |
| Hexachlorobutadiene | ND | ug/kg | 15. | | | | | |
| Isopropylbenzene | ND | ug/kg | 3.1 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-12
PWG-DW-2008-09 (6.75-7.25')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|--------------------------|----|
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0911 21:32 PD | |
| p-Isopropyltoluene | ND | ug/kg | 3.1 | | | |
| Naphthalene | ND | ug/kg | 15. | | | |
| Acrylonitrile | ND | ug/kg | 31. | | | |
| n-Propylbenzene | ND | ug/kg | 3.1 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 15. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 15. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 15. | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 15. | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 12. | | | |
| 4-Ethyltoluene | ND | ug/kg | 12. | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 12. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 106 | % | 70-130 | | | |
| Toluene-d8 | 114 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 126 | % | 70-130 | | | |
| Dibromofluoromethane | 102 | % | 70-130 | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 0911 03:30 0915 20:07 PS | |
| Acenaphthene | ND | ug/kg | 2000 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 2000 | | | |
| Hexachlorobenzene | ND | ug/kg | 2000 | | | |
| Bis(2-chloroethyl)ether | ND | ug/kg | 2000 | | | |
| 2-Chloronaphthalene | ND | ug/kg | 2500 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 2000 | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 2000 | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 2000 | | | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 4100 | | | |
| 2,4-Dinitrotoluene | ND | ug/kg | 2000 | | | |
| 2,6-Dinitrotoluene | ND | ug/kg | 2000 | | | |
| Fluoranthene | ND | ug/kg | 2000 | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/kg | 2000 | | | |
| 4-Bromophenyl phenyl ether | ND | ug/kg | 2000 | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/kg | 2000 | | | |
| Bis(2-chloroethoxy)methane | ND | ug/kg | 2000 | | | |
| Hexachlorobutadiene | ND | ug/kg | 4100 | | | |
| Hexachlorocyclopentadiene | ND | ug/kg | 4100 | | | |
| Hexachloroethane | ND | ug/kg | 2000 | | | |
| Isophorone | ND | ug/kg | 2000 | | | |
| Naphthalene | ND | ug/kg | 2000 | | | |
| Nitrobenzene | ND | ug/kg | 2000 | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/kg | 6200 | | | |
| n-Nitrosodi-n-propylamine | ND | ug/kg | 2000 | | | |
| Bis(2-Ethylhexyl)phthalate | ND | ug/kg | 4100 | | | |
| Butyl benzyl phthalate | ND | ug/kg | 2000 | | | |
| Di-n-butylphthalate | ND | ug/kg | 2000 | | | |
| Di-n-octylphthalate | ND | ug/kg | 2000 | | | |
| Diethyl phthalate | ND | ug/kg | 2000 | | | |
| Dimethyl phthalate | ND | ug/kg | 2000 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-12
PWG-DW-2008-09 (6.75-7.25')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 8270C | 0911 03:30 0915 20:07 PS | |
| Benzo(a)anthracene | ND | ug/kg | 2000 | | | |
| Benzo(a)pyrene | ND | ug/kg | 2000 | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 2000 | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 2000 | | | |
| Chrysene | ND | ug/kg | 2000 | | | |
| Acenaphthylene | ND | ug/kg | 2000 | | | |
| Anthracene | ND | ug/kg | 2000 | | | |
| Benzo(ghi)perylene | ND | ug/kg | 2000 | | | |
| Fluorene | ND | ug/kg | 2000 | | | |
| Phenanthrene | ND | ug/kg | 2000 | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 2000 | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 2000 | | | |
| Pyrene | ND | ug/kg | 2000 | | | |
| Biphenyl | ND | ug/kg | 2000 | | | |
| 4-Chloroaniline | ND | ug/kg | 2000 | | | |
| 2-Nitroaniline | ND | ug/kg | 2000 | | | |
| 3-Nitroaniline | ND | ug/kg | 2000 | | | |
| 4-Nitroaniline | ND | ug/kg | 2900 | | | |
| Dibenzofuran | ND | ug/kg | 2000 | | | |
| 2-Methylnaphthalene | ND | ug/kg | 2000 | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/kg | 8200 | | | |
| Acetophenone | ND | ug/kg | 8200 | | | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 2000 | | | |
| p-Chloro-M-Cresol | ND | ug/kg | 2000 | | | |
| 2-Chlorophenol | ND | ug/kg | 2500 | | | |
| 2,4-Dichlorophenol | ND | ug/kg | 4100 | | | |
| 2,4-Dimethylphenol | ND | ug/kg | 2000 | | | |
| 2-Nitrophenol | ND | ug/kg | 8200 | | | |
| 4-Nitrophenol | ND | ug/kg | 4100 | | | |
| 2,4-Dinitrophenol | ND | ug/kg | 8200 | | | |
| 4,6-Dinitro-o-cresol | ND | ug/kg | 8200 | | | |
| Pentachlorophenol | ND | ug/kg | 8200 | | | |
| Phenol | ND | ug/kg | 2900 | | | |
| 2-Methylphenol | ND | ug/kg | 2500 | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/kg | 2500 | | | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 2000 | | | |
| Benzoic Acid | ND | ug/kg | 20000 | | | |
| Benzyl Alcohol | ND | ug/kg | 4100 | | | |
| Carbazole | ND | ug/kg | 2000 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 76.0 | % | 25-120 | | | |
| Phenol-d6 | 78.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 63.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 66.0 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 89.0 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 68.0 | % | 18-120 | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 8270C | 0911 03:30 0913 16:11 AK | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-12
PWG-DW-2008-09 (6.75-7.25')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C-SIM cont'd | | | | 1 8270C | 0911 03:30 0913 16:11 AK | |
| Acenaphthene | ND | ug/kg | 820 | | | |
| 2-Chloronaphthalene | ND | ug/kg | 820 | | | |
| Fluoranthene | ND | ug/kg | 820 | | | |
| Hexachlorobutadiene | ND | ug/kg | 2000 | | | |
| Naphthalene | ND | ug/kg | 820 | | | |
| Benzo(a)anthracene | ND | ug/kg | 820 | | | |
| Benzo(a)pyrene | ND | ug/kg | 820 | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 820 | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 820 | | | |
| Chrysene | ND | ug/kg | 820 | | | |
| Acenaphthylene | ND | ug/kg | 820 | | | |
| Anthracene | ND | ug/kg | 820 | | | |
| Benzo(ghi)perylene | ND | ug/kg | 820 | | | |
| Fluorene | ND | ug/kg | 820 | | | |
| Phenanthrene | ND | ug/kg | 820 | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 820 | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 820 | | | |
| Pyrene | ND | ug/kg | 820 | | | |
| 2-Methylnaphthalene | ND | ug/kg | 820 | | | |
| Pentachlorophenol | ND | ug/kg | 3300 | | | |
| Hexachlorobenzene | ND | ug/kg | 3300 | | | |
| Hexachloroethane | ND | ug/kg | 3300 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | ND | % | 25-120 | | | |
| Phenol-d6 | ND | % | 10-120 | | | |
| Nitrobenzene-d5 | ND | % | 23-120 | | | |
| 2-Fluorobiphenyl | ND | % | 30-120 | | | |
| 2,4,6-Tribromophenol | ND | % | 19-120 | | | |
| 4-Terphenyl-d14 | ND | % | 18-120 | | | |
| Petroleum Hydrocarbon Quantitation by GC-FID | | | | 1 8015B(M) | 0911 00:15 0912 00:20 RT | |
| TPH | 515000 | ug/kg | 41200 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| o-Terphenyl | 73.0 | % | 40-140 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0813344-13 | Date Collected: 08-SEP-2008 11:40 |
| PWG-DW-2008-10 (6.25-6.75') | Date Received : 09-SEP-2008 |
| Sample Matrix: SOIL | Date Reported : 25-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 3-Amber,1-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-----------------------|----|
| Solids, Total | 71 | % | 0.10 | 30 2540G | 0912 15:07 | SD |
| Total Metals | | | | | | |
| Aluminum, Total | 3000 | mg/kg | 6.5 | 1 6010B | 0911 13:45 0916 20:53 | BM |
| Antimony, Total | ND | mg/kg | 3.3 | 1 6010B | 0911 13:45 0916 20:53 | BM |
| Arsenic, Total | 1.3 | mg/kg | 0.65 | 1 6010B | 0911 13:45 0916 20:53 | BM |
| Barium, Total | 18 | mg/kg | 0.65 | 1 6010B | 0911 13:45 0916 20:53 | BM |
| Beryllium, Total | ND | mg/kg | 0.33 | 1 6010B | 0911 13:45 0916 20:53 | BM |
| Cadmium, Total | 1.0 | mg/kg | 0.65 | 1 6010B | 0911 13:45 0916 20:53 | BM |
| Calcium, Total | 53000 | mg/kg | 33 | 1 6010B | 0911 13:45 0918 11:32 | AI |
| Chromium, Total | 7.3 | mg/kg | 0.65 | 1 6010B | 0911 13:45 0916 20:53 | BM |
| Cobalt, Total | 1.5 | mg/kg | 1.3 | 1 6010B | 0911 13:45 0916 20:53 | BM |
| Copper, Total | 25 | mg/kg | 0.65 | 1 6010B | 0911 13:45 0916 20:53 | BM |
| Iron, Total | 5000 | mg/kg | 3.3 | 1 6010B | 0911 13:45 0916 20:53 | BM |
| Lead, Total | 82 | mg/kg | 3.3 | 1 6010B | 0911 13:45 0916 20:53 | BM |
| Magnesium, Total | 32000 | mg/kg | 6.5 | 1 6010B | 0911 13:45 0916 20:53 | BM |
| Manganese, Total | 87 | mg/kg | 0.65 | 1 6010B | 0911 13:45 0916 20:53 | BM |
| Mercury, Total | 0.42 | mg/kg | 0.11 | 1 7471A | 0911 23:30 0912 14:31 | RC |
| Nickel, Total | 5.9 | mg/kg | 1.6 | 1 6010B | 0911 13:45 0916 20:53 | BM |
| Potassium, Total | 210 | mg/kg | 160 | 1 6010B | 0911 13:45 0916 20:53 | BM |
| Selenium, Total | ND | mg/kg | 1.3 | 1 6010B | 0911 13:45 0916 20:53 | BM |
| Silver, Total | ND | mg/kg | 0.65 | 1 6010B | 0911 13:45 0916 20:53 | BM |
| Sodium, Total | ND | mg/kg | 130 | 1 6010B | 0911 13:45 0916 20:53 | BM |
| Thallium, Total | ND | mg/kg | 1.3 | 1 6010B | 0911 13:45 0916 20:53 | BM |
| Vanadium, Total | 12 | mg/kg | 0.65 | 1 6010B | 0911 13:45 0916 20:53 | BM |
| Zinc, Total | 170 | mg/kg | 3.3 | 1 6010B | 0911 13:45 0916 20:53 | BM |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0912 13:16 | PD |
| Methylene chloride | ND | ug/kg | 35. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 5.3 | | | |
| Chloroform | ND | ug/kg | 5.3 | | | |
| Carbon tetrachloride | ND | ug/kg | 3.5 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 12. | | | |
| Dibromochloromethane | ND | ug/kg | 3.5 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 5.3 | | | |
| Tetrachloroethene | 20 | ug/kg | 3.5 | | | |
| Chlorobenzene | ND | ug/kg | 3.5 | | | |
| Trichlorofluoromethane | ND | ug/kg | 18. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-13
PWG-DW-2008-10 (6.25-6.75')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---------------------------------------|--------|-------|-----|------------|-------|---------------|----|
| | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0912 13:16 PD | |
| 1,2-Dichloroethane | ND | ug/kg | 3.5 | | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 3.5 | | | | |
| Bromodichloromethane | ND | ug/kg | 3.5 | | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 3.5 | | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 3.5 | | | | |
| 1,1-Dichloropropene | ND | ug/kg | 18. | | | | |
| Bromoform | ND | ug/kg | 14. | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 3.5 | | | | |
| Benzene | ND | ug/kg | 3.5 | | | | |
| Toluene | ND | ug/kg | 5.3 | | | | |
| Ethylbenzene | ND | ug/kg | 3.5 | | | | |
| Chloromethane | ND | ug/kg | 18. | | | | |
| Bromomethane | ND | ug/kg | 7.0 | | | | |
| Vinyl chloride | ND | ug/kg | 7.0 | | | | |
| Chloroethane | ND | ug/kg | 7.0 | | | | |
| 1,1-Dichloroethene | ND | ug/kg | 3.5 | | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 5.3 | | | | |
| Trichloroethene | ND | ug/kg | 3.5 | | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 18. | | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 18. | | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 18. | | | | |
| Methyl tert butyl ether | ND | ug/kg | 7.0 | | | | |
| p/m-Xylene | ND | ug/kg | 7.0 | | | | |
| o-Xylene | ND | ug/kg | 7.0 | | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 3.5 | | | | |
| Dibromomethane | ND | ug/kg | 35. | | | | |
| Styrene | ND | ug/kg | 7.0 | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 35. | | | | |
| Acetone | 67 | ug/kg | 35 | | | | |
| Carbon disulfide | ND | ug/kg | 35. | | | | |
| 2-Butanone | ND | ug/kg | 35. | | | | |
| Vinyl acetate | ND | ug/kg | 35. | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 35. | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 35. | | | | |
| 2-Hexanone | ND | ug/kg | 35. | | | | |
| Bromochloromethane | ND | ug/kg | 18. | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 18. | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 14. | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 18. | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 3.5 | | | | |
| Bromobenzene | ND | ug/kg | 18. | | | | |
| n-Butylbenzene | ND | ug/kg | 3.5 | | | | |
| sec-Butylbenzene | ND | ug/kg | 3.5 | | | | |
| tert-Butylbenzene | ND | ug/kg | 18. | | | | |
| o-Chlorotoluene | ND | ug/kg | 18. | | | | |
| p-Chlorotoluene | ND | ug/kg | 18. | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 18. | | | | |
| Hexachlorobutadiene | ND | ug/kg | 18. | | | | |
| Isopropylbenzene | ND | ug/kg | 3.5 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-13
PWG-DW-2008-10 (6.25-6.75')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|--------------------------|----|
| <hr/> | | | | | | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0912 13:16 PD | |
| p-Isopropyltoluene | ND | ug/kg | 3.5 | | | |
| Naphthalene | ND | ug/kg | 18. | | | |
| Acrylonitrile | ND | ug/kg | 35. | | | |
| n-Propylbenzene | ND | ug/kg | 3.5 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 18. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 18. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 18. | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 18. | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 14. | | | |
| 4-Ethyltoluene | ND | ug/kg | 14. | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 14. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 92.0 | % | 70-130 | | | |
| Toluene-d8 | 99.0 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 116 | % | 70-130 | | | |
| Dibromofluoromethane | 92.0 | % | 70-130 | | | |
| <hr/> | | | | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 0911 21:40 0913 18:09 PS | |
| Acenaphthene | ND | ug/kg | 2300 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 2300 | | | |
| Hexachlorobenzene | ND | ug/kg | 2300 | | | |
| Bis(2-chloroethyl)ether | ND | ug/kg | 2300 | | | |
| 2-Chloronaphthalene | ND | ug/kg | 2800 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 2300 | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 2300 | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 2300 | | | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 4700 | | | |
| 2,4-Dinitrotoluene | ND | ug/kg | 2300 | | | |
| 2,6-Dinitrotoluene | ND | ug/kg | 2300 | | | |
| Fluoranthene | ND | ug/kg | 2300 | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/kg | 2300 | | | |
| 4-Bromophenyl phenyl ether | ND | ug/kg | 2300 | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/kg | 2300 | | | |
| Bis(2-chloroethoxy)methane | ND | ug/kg | 2300 | | | |
| Hexachlorobutadiene | ND | ug/kg | 4700 | | | |
| Hexachlorocyclopentadiene | ND | ug/kg | 4700 | | | |
| Hexachloroethane | ND | ug/kg | 2300 | | | |
| Isophorone | ND | ug/kg | 2300 | | | |
| Naphthalene | ND | ug/kg | 2300 | | | |
| Nitrobenzene | ND | ug/kg | 2300 | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/kg | 7000 | | | |
| n-Nitrosodi-n-propylamine | ND | ug/kg | 2300 | | | |
| Bis(2-Ethylhexyl)phthalate | ND | ug/kg | 4700 | | | |
| Butyl benzyl phthalate | ND | ug/kg | 2300 | | | |
| Di-n-butylphthalate | ND | ug/kg | 2300 | | | |
| Di-n-octylphthalate | ND | ug/kg | 2300 | | | |
| Diethyl phthalate | ND | ug/kg | 2300 | | | |
| Dimethyl phthalate | ND | ug/kg | 2300 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-13
PWG-DW-2008-10 (6.25-6.75')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---|----------|-------|-------------|------------|-------|-----------------------|----|
| | | | | | PREP | ANAL | |
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 | 8270C | 0911 21:40 0913 18:09 | PS |
| Benzo(a)anthracene | ND | ug/kg | 2300 | | | | |
| Benzo(a)pyrene | ND | ug/kg | 2300 | | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 2300 | | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 2300 | | | | |
| Chrysene | ND | ug/kg | 2300 | | | | |
| Acenaphthylene | ND | ug/kg | 2300 | | | | |
| Anthracene | ND | ug/kg | 2300 | | | | |
| Benzo(ghi)perylene | ND | ug/kg | 2300 | | | | |
| Fluorene | ND | ug/kg | 2300 | | | | |
| Phenanthrene | ND | ug/kg | 2300 | | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 2300 | | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 2300 | | | | |
| Pyrene | ND | ug/kg | 2300 | | | | |
| Biphenyl | ND | ug/kg | 2300 | | | | |
| 4-Chloroaniline | ND | ug/kg | 2300 | | | | |
| 2-Nitroaniline | ND | ug/kg | 2300 | | | | |
| 3-Nitroaniline | ND | ug/kg | 2300 | | | | |
| 4-Nitroaniline | ND | ug/kg | 3300 | | | | |
| Dibenzofuran | ND | ug/kg | 2300 | | | | |
| 2-Methylnaphthalene | ND | ug/kg | 2300 | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/kg | 9400 | | | | |
| Acetophenone | ND | ug/kg | 9400 | | | | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 2300 | | | | |
| P-Chloro-M-Cresol | ND | ug/kg | 2300 | | | | |
| 2-Chlorophenol | ND | ug/kg | 2800 | | | | |
| 2,4-Dichlorophenol | ND | ug/kg | 4700 | | | | |
| 2,4-Dimethylphenol | ND | ug/kg | 2300 | | | | |
| 2-Nitrophenol | ND | ug/kg | 9400 | | | | |
| 4-Nitrophenol | ND | ug/kg | 4700 | | | | |
| 2,4-Dinitrophenol | ND | ug/kg | 9400 | | | | |
| 4,6-Dinitro-o-cresol | ND | ug/kg | 9400 | | | | |
| Pentachlorophenol | ND | ug/kg | 9400 | | | | |
| Phenol | ND | ug/kg | 3300 | | | | |
| 2-Methylphenol | ND | ug/kg | 2800 | | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/kg | 2800 | | | | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 2300 | | | | |
| Benzoic Acid | ND | ug/kg | 23000 | | | | |
| Benzyl Alcohol | ND | ug/kg | 4700 | | | | |
| Carbazole | ND | ug/kg | 2300 | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | |
| 2-Fluorophenol | 71.0 | % | 25-120 | | | | |
| Phenol-d6 | 72.0 | % | 10-120 | | | | |
| Nitrobenzene-d5 | 62.0 | % | 23-120 | | | | |
| 2-Fluorobiphenyl | 70.0 | % | 30-120 | | | | |
| 2,4,6-Tribromophenol | 97.0 | % | 19-120 | | | | |
| 4-Terphenyl-d14 | 76.0 | % | 18-120 | | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 | 8270C | 0911 21:40 0914 06:51 | AK |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-13
PWG-DW-2008-10 (6.25-6.75')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C-SIM cont'd | | | | 1 8270C | 0911 21:40 0914 06:51 AK | |
| Acenaphthene | ND | ug/kg | 190 | | | |
| 2-Chloronaphthalene | ND | ug/kg | 190 | | | |
| Fluoranthene | ND | ug/kg | 190 | | | |
| Hexachlorobutadiene | ND | ug/kg | 470 | | | |
| Naphthalene | ND | ug/kg | 190 | | | |
| Benzo(a)anthracene | ND | ug/kg | 190 | | | |
| Benzo(a)pyrene | ND | ug/kg | 190 | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 190 | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 190 | | | |
| Chrysene | ND | ug/kg | 190 | | | |
| Acenaphthylene | ND | ug/kg | 190 | | | |
| Anthracene | ND | ug/kg | 190 | | | |
| Benzo(ghi)perylene | ND | ug/kg | 190 | | | |
| Fluorene | ND | ug/kg | 190 | | | |
| Phenanthrene | ND | ug/kg | 190 | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 190 | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 190 | | | |
| Pyrene | ND | ug/kg | 190 | | | |
| 2-Methylnaphthalene | ND | ug/kg | 190 | | | |
| Pentachlorophenol | ND | ug/kg | 750 | | | |
| Hexachlorobenzene | ND | ug/kg | 750 | | | |
| Hexachloroethane | ND | ug/kg | 750 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 68.0 | % | 25-120 | | | |
| Phenol-d6 | 72.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 58.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 69.0 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 84.0 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 72.0 | % | 18-120 | | | |
| Petroleum Hydrocarbon Quantitation by GC-FID | | | | 1 8015B(M) | 0911 23:00 0912 10:55 JL | |
| TPH | 97400 | ug/kg | 46900 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| o-Terphenyl | 68.0 | % | 40-140 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0813344-14
Date Collected: 08-SEP-2008 11:55
Sample Matrix: PWG-DW-2008-11 (6.75-7.25')
Date Received : 09-SEP-2008
SOIL
Date Reported : 25-SEP-2008
Condition of Sample: Satisfactory
Field Prep: None
Number & Type of Containers: 3-Amber,1-Vial

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-----------------------|----|
| Solids, Total | 80 | % | 0.10 | 30 2540G | 0910 18:40 | NM |
| Total Metals | | | | | | |
| Aluminum, Total | 1900 | mg/kg | 5.8 | 1 6010B | 0910 13:30 0911 14:36 | AI |
| Antimony, Total | ND | mg/kg | 2.9 | 1 6010B | 0910 13:30 0911 14:36 | AI |
| Arsenic, Total | 1.6 | mg/kg | 0.58 | 1 6010B | 0910 13:30 0911 14:36 | AI |
| Barium, Total | 15 | mg/kg | 0.58 | 1 6010B | 0910 13:30 0911 14:36 | AI |
| Beryllium, Total | ND | mg/kg | 0.29 | 1 6010B | 0910 13:30 0911 14:36 | AI |
| Cadmium, Total | ND | mg/kg | 0.58 | 1 6010B | 0910 13:30 0911 14:36 | AI |
| Calcium, Total | 14000 | mg/kg | 5.8 | 1 6010B | 0910 13:30 0911 14:36 | AI |
| Chromium, Total | 6.5 | mg/kg | 0.58 | 1 6010B | 0910 13:30 0911 14:36 | AI |
| Cobalt, Total | 1.2 | mg/kg | 1.2 | 1 6010B | 0910 13:30 0911 14:36 | AI |
| Copper, Total | 14 | mg/kg | 0.58 | 1 6010B | 0910 13:30 0911 14:36 | AI |
| Iron, Total | 2700 | mg/kg | 2.9 | 1 6010B | 0910 13:30 0911 14:36 | AI |
| Lead, Total | 70 | mg/kg | 2.9 | 1 6010B | 0910 13:30 0911 14:36 | AI |
| Magnesium, Total | 8500 | mg/kg | 5.8 | 1 6010B | 0910 13:30 0911 14:36 | AI |
| Manganese, Total | 29 | mg/kg | 0.58 | 1 6010B | 0910 13:30 0911 14:36 | AI |
| Mercury, Total | 0.31 | mg/kg | 0.10 | 1 7471A | 0911 23:30 0912 14:33 | RC |
| Nickel, Total | 3.8 | mg/kg | 1.5 | 1 6010B | 0910 13:30 0911 14:36 | AI |
| Potassium, Total | 160 | mg/kg | 150 | 1 6010B | 0910 13:30 0911 14:36 | AI |
| Selenium, Total | ND | mg/kg | 1.2 | 1 6010B | 0910 13:30 0911 14:36 | AI |
| Silver, Total | ND | mg/kg | 0.58 | 1 6010B | 0910 13:30 0911 14:36 | AI |
| Sodium, Total | ND | mg/kg | 120 | 1 6010B | 0910 13:30 0911 14:36 | AI |
| Thallium, Total | ND | mg/kg | 1.2 | 1 6010B | 0910 13:30 0911 14:36 | AI |
| Vanadium, Total | 8.9 | mg/kg | 0.58 | 1 6010B | 0910 13:30 0911 14:36 | AI |
| Zinc, Total | 69 | mg/kg | 2.9 | 1 6010B | 0910 13:30 0911 14:36 | AI |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0911 22:09 | PD |
| Methylene chloride | ND | ug/kg | 31. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 4.7 | | | |
| Chloroform | ND | ug/kg | 4.7 | | | |
| Carbon tetrachloride | ND | ug/kg | 3.1 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 11. | | | |
| Dibromochloromethane | ND | ug/kg | 3.1 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 4.7 | | | |
| Tetrachloroethene | ND | ug/kg | 3.1 | | | |
| Chlorobenzene | ND | ug/kg | 3.1 | | | |
| Trichlorofluoromethane | ND | ug/kg | 16. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-14
PWG-DW-2008-11 (6.75-7.25')

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|--------|-------|-----|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0911 22:09 PD | | |
| 1,2-Dichloroethane | ND | ug/kg | 3.1 | | | | | |
| 1,1,1-Trichloroethane | 5.3 | ug/kg | 3.1 | | | | | |
| Bromodichloromethane | ND | ug/kg | 3.1 | | | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 3.1 | | | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 3.1 | | | | | |
| 1,1-Dichloropropene | ND | ug/kg | 16. | | | | | |
| Bromoform | ND | ug/kg | 12. | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 3.1 | | | | | |
| Benzene | ND | ug/kg | 3.1 | | | | | |
| Toluene | ND | ug/kg | 4.7 | | | | | |
| Ethylbenzene | ND | ug/kg | 3.1 | | | | | |
| Chloromethane | ND | ug/kg | 16. | | | | | |
| Bromomethane | ND | ug/kg | 6.2 | | | | | |
| Vinyl chloride | ND | ug/kg | 6.2 | | | | | |
| Chloroethane | ND | ug/kg | 6.2 | | | | | |
| 1,1-Dichloroethene | ND | ug/kg | 3.1 | | | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 4.7 | | | | | |
| Trichloroethene | ND | ug/kg | 3.1 | | | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 16. | | | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 16. | | | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 16. | | | | | |
| Methyl tert butyl ether | ND | ug/kg | 6.2 | | | | | |
| p/m-Xylene | ND | ug/kg | 6.2 | | | | | |
| o-Xylene | ND | ug/kg | 6.2 | | | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 3.1 | | | | | |
| Dibromomethane | ND | ug/kg | 31. | | | | | |
| Styrene | ND | ug/kg | 6.2 | | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 31. | | | | | |
| Acetone | ND | ug/kg | 31. | | | | | |
| Carbon disulfide | ND | ug/kg | 31. | | | | | |
| 2-Butanone | ND | ug/kg | 31. | | | | | |
| Vinyl acetate | ND | ug/kg | 31. | | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 31. | | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 31. | | | | | |
| 2-Hexanone | ND | ug/kg | 31. | | | | | |
| Bromochloromethane | ND | ug/kg | 16. | | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 16. | | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 12. | | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 16. | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 3.1 | | | | | |
| Bromobenzene | ND | ug/kg | 16. | | | | | |
| n-Butylbenzene | ND | ug/kg | 3.1 | | | | | |
| sec-Butylbenzene | ND | ug/kg | 3.1 | | | | | |
| tert-Butylbenzene | ND | ug/kg | 16. | | | | | |
| o-Chlorotoluene | ND | ug/kg | 16. | | | | | |
| p-Chlorotoluene | ND | ug/kg | 16. | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 16. | | | | | |
| Hexachlorobutadiene | ND | ug/kg | 16. | | | | | |
| Isopropylbenzene | ND | ug/kg | 3.1 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-14
PWG-DW-2008-11 (6.75-7.25')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|--------------------------|----|
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0911 22:09 PD | |
| p-Isopropyltoluene | ND | ug/kg | 3.1 | | | |
| Naphthalene | ND | ug/kg | 16. | | | |
| Acrylonitrile | ND | ug/kg | 31. | | | |
| n-Propylbenzene | ND | ug/kg | 3.1 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 16. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 16. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 16. | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 16. | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 12. | | | |
| 4-Ethyltoluene | ND | ug/kg | 12. | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 12. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 106 | % | 70-130 | | | |
| Toluene-d8 | 108 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 123 | % | 70-130 | | | |
| Dibromofluoromethane | 100 | % | 70-130 | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 0911 03:30 0912 20:32 PS | |
| Acenaphthene | ND | ug/kg | 420 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 420 | | | |
| Hexachlorobenzene | ND | ug/kg | 420 | | | |
| Bis(2-chloroethyl)ether | ND | ug/kg | 420 | | | |
| 2-Chloronaphthalene | ND | ug/kg | 500 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 420 | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 420 | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 420 | | | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 830 | | | |
| 2,4-Dinitrotoluene | ND | ug/kg | 420 | | | |
| 2,6-Dinitrotoluene | ND | ug/kg | 420 | | | |
| Fluoranthene | ND | ug/kg | 420 | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/kg | 420 | | | |
| 4-Bromophenyl phenyl ether | ND | ug/kg | 420 | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/kg | 420 | | | |
| Bis(2-chloroethoxy)methane | ND | ug/kg | 420 | | | |
| Hexachlorobutadiene | ND | ug/kg | 830 | | | |
| Hexachlorocyclopentadiene | ND | ug/kg | 830 | | | |
| Hexachloroethane | ND | ug/kg | 420 | | | |
| Isophorone | ND | ug/kg | 420 | | | |
| Naphthalene | ND | ug/kg | 420 | | | |
| Nitrobenzene | ND | ug/kg | 420 | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/kg | 1200 | | | |
| n-Nitrosodi-n-propylamine | ND | ug/kg | 420 | | | |
| Bis(2-Ethylhexyl)phthalate | ND | ug/kg | 830 | | | |
| Butyl benzyl phthalate | ND | ug/kg | 420 | | | |
| Di-n-butylphthalate | ND | ug/kg | 420 | | | |
| Di-n-octylphthalate | ND | ug/kg | 420 | | | |
| Diethyl phthalate | ND | ug/kg | 420 | | | |
| Dimethyl phthalate | ND | ug/kg | 420 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-14
PWG-DW-2008-11 (6.75-7.25')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---|----------|-------|-------------|------------|-------|-----------------------|----|
| | | | | | PREP | ANAL | |
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 | 8270C | 0911 03:30 0912 20:32 | PS |
| Benzo(a)anthracene | ND | ug/kg | 420 | | | | |
| Benzo(a)pyrene | ND | ug/kg | 420 | | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 420 | | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 420 | | | | |
| Chrysene | ND | ug/kg | 420 | | | | |
| Acenaphthylene | ND | ug/kg | 420 | | | | |
| Anthracene | ND | ug/kg | 420 | | | | |
| Benzo(ghi)perylene | ND | ug/kg | 420 | | | | |
| Fluorene | ND | ug/kg | 420 | | | | |
| Phenanthrene | ND | ug/kg | 420 | | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 420 | | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 420 | | | | |
| Pyrene | ND | ug/kg | 420 | | | | |
| Biphenyl | ND | ug/kg | 420 | | | | |
| 4-Chloroaniline | ND | ug/kg | 420 | | | | |
| 2-Nitroaniline | ND | ug/kg | 420 | | | | |
| 3-Nitroaniline | ND | ug/kg | 420 | | | | |
| 4-Nitroaniline | ND | ug/kg | 580 | | | | |
| Dibenzofuran | ND | ug/kg | 420 | | | | |
| 2-Methylnaphthalene | ND | ug/kg | 420 | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/kg | 1700 | | | | |
| Acetophenone | ND | ug/kg | 1700 | | | | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 420 | | | | |
| P-Chloro-M-Cresol | ND | ug/kg | 420 | | | | |
| 2-Chlorophenol | ND | ug/kg | 500 | | | | |
| 2,4-Dichlorophenol | ND | ug/kg | 830 | | | | |
| 2,4-Dimethylphenol | ND | ug/kg | 420 | | | | |
| 2-Nitrophenol | ND | ug/kg | 1700 | | | | |
| 4-Nitrophenol | ND | ug/kg | 830 | | | | |
| 2,4-Dinitrophenol | ND | ug/kg | 1700 | | | | |
| 4,6-Dinitro-o-cresol | ND | ug/kg | 1700 | | | | |
| Pentachlorophenol | ND | ug/kg | 1700 | | | | |
| Phenol | ND | ug/kg | 580 | | | | |
| 2-Methylphenol | ND | ug/kg | 500 | | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/kg | 500 | | | | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 420 | | | | |
| Benzoic Acid | ND | ug/kg | 4200 | | | | |
| Benzyl Alcohol | ND | ug/kg | 830 | | | | |
| Carbazole | ND | ug/kg | 420 | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | |
| 2-Fluorophenol | 38.0 | % | 25-120 | | | | |
| Phenol-d6 | 39.0 | % | 10-120 | | | | |
| Nitrobenzene-d5 | 34.0 | % | 23-120 | | | | |
| 2-Fluorobiphenyl | 35.0 | % | 30-120 | | | | |
| 2,4,6-Tribromophenol | 55.0 | % | 19-120 | | | | |
| 4-Terphenyl-d14 | 44.0 | % | 18-120 | | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 | 8270C | 0911 03:30 0913 16:58 | AK |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-14
PWG-DW-2008-11 (6.75-7.25')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C-SIM cont'd | | | | 1 8270C | 0911 03:30 0913 16:58 AK | |
| Acenaphthene | ND | ug/kg | 33. | | | |
| 2-Chloronaphthalene | ND | ug/kg | 33. | | | |
| Fluoranthene | ND | ug/kg | 33. | | | |
| Hexachlorobutadiene | ND | ug/kg | 83. | | | |
| Naphthalene | ND | ug/kg | 33. | | | |
| Benzo(a)anthracene | ND | ug/kg | 33. | | | |
| Benzo(a)pyrene | ND | ug/kg | 33. | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 33. | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 33. | | | |
| Chrysene | ND | ug/kg | 33. | | | |
| Acenaphthylene | ND | ug/kg | 33. | | | |
| Anthracene | ND | ug/kg | 33. | | | |
| Benzo(ghi)perylene | ND | ug/kg | 33. | | | |
| Fluorene | ND | ug/kg | 33. | | | |
| Phenanthrene | ND | ug/kg | 33. | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 33. | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 33. | | | |
| Pyrene | ND | ug/kg | 33. | | | |
| 2-Methylnaphthalene | ND | ug/kg | 33. | | | |
| Pentachlorophenol | ND | ug/kg | 130 | | | |
| Hexachlorobenzene | ND | ug/kg | 130 | | | |
| Hexachloroethane | ND | ug/kg | 130 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 33.0 | % | 25-120 | | | |
| Phenol-d6 | 35.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 29.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 32.0 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 40.0 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 41.0 | % | 18-120 | | | |
| Petroleum Hydrocarbon Quantitation by GC-FID | | | | 1 8015B(M) | 0911 00:15 0912 00:54 RT | |
| TPH | 180000 | ug/kg | 41700 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| o-Terphenyl | 80.0 | % | 40-140 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0813344-15
Date Collected: 08-SEP-2008 12:05
Sample Matrix: PWG-DW-2008-12 (7.25-7.75')
Date Received : 09-SEP-2008
SOIL
Date Reported : 25-SEP-2008
Condition of Sample: Satisfactory
Field Prep: None
Number & Type of Containers: 3-Amber,1-Vial

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-----------------------|----|
| Solids, Total | 83 | % | 0.10 | 30 2540G | 0910 18:40 | NM |
| Total Metals | | | | | | |
| Aluminum, Total | 3000 | mg/kg | 5.9 | 1 6010B | 0910 13:30 0911 14:39 | AI |
| Antimony, Total | ND | mg/kg | 3.0 | 1 6010B | 0910 13:30 0911 14:39 | AI |
| Arsenic, Total | 1.2 | mg/kg | 0.59 | 1 6010B | 0910 13:30 0911 14:39 | AI |
| Barium, Total | 48 | mg/kg | 0.59 | 1 6010B | 0910 13:30 0911 14:39 | AI |
| Beryllium, Total | ND | mg/kg | 0.30 | 1 6010B | 0910 13:30 0911 14:39 | AI |
| Cadmium, Total | ND | mg/kg | 0.59 | 1 6010B | 0910 13:30 0911 14:39 | AI |
| Calcium, Total | 17000 | mg/kg | 5.9 | 1 6010B | 0910 13:30 0911 14:39 | AI |
| Chromium, Total | 5.7 | mg/kg | 0.59 | 1 6010B | 0910 13:30 0911 14:39 | AI |
| Cobalt, Total | 1.5 | mg/kg | 1.2 | 1 6010B | 0910 13:30 0911 14:39 | AI |
| Copper, Total | 6.0 | mg/kg | 0.59 | 1 6010B | 0910 13:30 0911 14:39 | AI |
| Iron, Total | 4600 | mg/kg | 3.0 | 1 6010B | 0910 13:30 0911 14:39 | AI |
| Lead, Total | 42 | mg/kg | 3.0 | 1 6010B | 0910 13:30 0911 14:39 | AI |
| Magnesium, Total | 12000 | mg/kg | 5.9 | 1 6010B | 0910 13:30 0911 14:39 | AI |
| Manganese, Total | 47 | mg/kg | 0.59 | 1 6010B | 0910 13:30 0911 14:39 | AI |
| Mercury, Total | ND | mg/kg | 0.10 | 1 7471A | 0911 23:30 0912 14:34 | RC |
| Nickel, Total | 2.6 | mg/kg | 1.5 | 1 6010B | 0910 13:30 0911 14:39 | AI |
| Potassium, Total | 620 | mg/kg | 150 | 1 6010B | 0910 13:30 0911 14:39 | AI |
| Selenium, Total | ND | mg/kg | 1.2 | 1 6010B | 0910 13:30 0911 14:39 | AI |
| Silver, Total | ND | mg/kg | 0.59 | 1 6010B | 0910 13:30 0911 14:39 | AI |
| Sodium, Total | ND | mg/kg | 120 | 1 6010B | 0910 13:30 0911 14:39 | AI |
| Thallium, Total | ND | mg/kg | 1.2 | 1 6010B | 0910 13:30 0911 14:39 | AI |
| Vanadium, Total | 8.6 | mg/kg | 0.59 | 1 6010B | 0910 13:30 0911 14:39 | AI |
| Zinc, Total | 42 | mg/kg | 3.0 | 1 6010B | 0910 13:30 0911 14:39 | AI |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0911 22:45 | PD |
| Methylene chloride | ND | ug/kg | 30. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 4.5 | | | |
| Chloroform | ND | ug/kg | 4.5 | | | |
| Carbon tetrachloride | ND | ug/kg | 3.0 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 10. | | | |
| Dibromochloromethane | ND | ug/kg | 3.0 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 4.5 | | | |
| Tetrachloroethene | ND | ug/kg | 3.0 | | | |
| Chlorobenzene | ND | ug/kg | 3.0 | | | |
| Trichlorofluoromethane | ND | ug/kg | 15. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-15
PWG-DW-2008-12 (7.25-7.75')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---------------------------------------|--------|-------|-----|------------|-------|---------------|----|
| | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0911 22:45 PD | |
| 1,2-Dichloroethane | ND | ug/kg | 3.0 | | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 3.0 | | | | |
| Bromodichloromethane | ND | ug/kg | 3.0 | | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 3.0 | | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 3.0 | | | | |
| 1,1-Dichloropropene | ND | ug/kg | 15. | | | | |
| Bromoform | ND | ug/kg | 12. | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 3.0 | | | | |
| Benzene | ND | ug/kg | 3.0 | | | | |
| Toluene | ND | ug/kg | 4.5 | | | | |
| Ethylbenzene | ND | ug/kg | 3.0 | | | | |
| Chloromethane | ND | ug/kg | 15. | | | | |
| Bromomethane | ND | ug/kg | 6.0 | | | | |
| Vinyl chloride | ND | ug/kg | 6.0 | | | | |
| Chloroethane | ND | ug/kg | 6.0 | | | | |
| 1,1-Dichloroethene | ND | ug/kg | 3.0 | | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 4.5 | | | | |
| Trichloroethene | ND | ug/kg | 3.0 | | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 15. | | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 15. | | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 15. | | | | |
| Methyl tert butyl ether | ND | ug/kg | 6.0 | | | | |
| p/m-Xylene | ND | ug/kg | 6.0 | | | | |
| o-Xylene | ND | ug/kg | 6.0 | | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 3.0 | | | | |
| Dibromomethane | ND | ug/kg | 30. | | | | |
| Styrene | ND | ug/kg | 6.0 | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 30. | | | | |
| Acetone | ND | ug/kg | 30. | | | | |
| Carbon disulfide | ND | ug/kg | 30. | | | | |
| 2-Butanone | ND | ug/kg | 30. | | | | |
| Vinyl acetate | ND | ug/kg | 30. | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 30. | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 30. | | | | |
| 2-Hexanone | ND | ug/kg | 30. | | | | |
| Bromochloromethane | ND | ug/kg | 15. | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 15. | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 12. | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 15. | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 3.0 | | | | |
| Bromobenzene | ND | ug/kg | 15. | | | | |
| n-Butylbenzene | ND | ug/kg | 3.0 | | | | |
| sec-Butylbenzene | ND | ug/kg | 3.0 | | | | |
| tert-Butylbenzene | ND | ug/kg | 15. | | | | |
| o-Chlorotoluene | ND | ug/kg | 15. | | | | |
| p-Chlorotoluene | ND | ug/kg | 15. | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 15. | | | | |
| Hexachlorobutadiene | ND | ug/kg | 15. | | | | |
| Isopropylbenzene | ND | ug/kg | 3.0 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-15
PWG-DW-2008-12 (7.25-7.75')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|--------------------------|----|
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0911 22:45 PD | |
| p-Isopropyltoluene | ND | ug/kg | 3.0 | | | |
| Naphthalene | ND | ug/kg | 15. | | | |
| Acrylonitrile | ND | ug/kg | 30. | | | |
| n-Propylbenzene | ND | ug/kg | 3.0 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 15. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 15. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 15. | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 15. | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 12. | | | |
| 4-Ethyltoluene | ND | ug/kg | 12. | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 12. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 107 | % | 70-130 | | | |
| Toluene-d8 | 108 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 120 | % | 70-130 | | | |
| Dibromofluoromethane | 104 | % | 70-130 | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 0911 03:30 0912 20:55 PS | |
| Acenaphthene | ND | ug/kg | 400 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 400 | | | |
| Hexachlorobenzene | ND | ug/kg | 400 | | | |
| Bis(2-chloroethyl)ether | ND | ug/kg | 400 | | | |
| 2-Chloronaphthalene | ND | ug/kg | 480 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 400 | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 400 | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 400 | | | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 800 | | | |
| 2,4-Dinitrotoluene | ND | ug/kg | 400 | | | |
| 2,6-Dinitrotoluene | ND | ug/kg | 400 | | | |
| Fluoranthene | ND | ug/kg | 400 | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/kg | 400 | | | |
| 4-Bromophenyl phenyl ether | ND | ug/kg | 400 | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/kg | 400 | | | |
| Bis(2-chloroethoxy)methane | ND | ug/kg | 400 | | | |
| Hexachlorobutadiene | ND | ug/kg | 800 | | | |
| Hexachlorocyclopentadiene | ND | ug/kg | 800 | | | |
| Hexachloroethane | ND | ug/kg | 400 | | | |
| Isophorone | ND | ug/kg | 400 | | | |
| Naphthalene | ND | ug/kg | 400 | | | |
| Nitrobenzene | ND | ug/kg | 400 | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/kg | 1200 | | | |
| n-Nitrosodi-n-propylamine | ND | ug/kg | 400 | | | |
| Bis(2-Ethylhexyl)phthalate | ND | ug/kg | 800 | | | |
| Butyl benzyl phthalate | ND | ug/kg | 400 | | | |
| Di-n-butylphthalate | ND | ug/kg | 400 | | | |
| Di-n-octylphthalate | ND | ug/kg | 400 | | | |
| Diethyl phthalate | ND | ug/kg | 400 | | | |
| Dimethyl phthalate | ND | ug/kg | 400 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-15
PWG-DW-2008-12 (7.25-7.75')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 8270C | 0911 03:30 0912 20:55 PS | |
| Benzo(a)anthracene | ND | ug/kg | 400 | | | |
| Benzo(a)pyrene | ND | ug/kg | 400 | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 400 | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 400 | | | |
| Chrysene | ND | ug/kg | 400 | | | |
| Acenaphthylene | ND | ug/kg | 400 | | | |
| Anthracene | ND | ug/kg | 400 | | | |
| Benzo(ghi)perylene | ND | ug/kg | 400 | | | |
| Fluorene | ND | ug/kg | 400 | | | |
| Phenanthrene | ND | ug/kg | 400 | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 400 | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 400 | | | |
| Pyrene | ND | ug/kg | 400 | | | |
| Biphenyl | ND | ug/kg | 400 | | | |
| 4-Chloroaniline | ND | ug/kg | 400 | | | |
| 2-Nitroaniline | ND | ug/kg | 400 | | | |
| 3-Nitroaniline | ND | ug/kg | 400 | | | |
| 4-Nitroaniline | ND | ug/kg | 560 | | | |
| Dibenzofuran | ND | ug/kg | 400 | | | |
| 2-Methylnaphthalene | ND | ug/kg | 400 | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/kg | 1600 | | | |
| Acetophenone | ND | ug/kg | 1600 | | | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 400 | | | |
| p-Chloro-M-Cresol | ND | ug/kg | 400 | | | |
| 2-Chlorophenol | ND | ug/kg | 480 | | | |
| 2,4-Dichlorophenol | ND | ug/kg | 800 | | | |
| 2,4-Dimethylphenol | ND | ug/kg | 400 | | | |
| 2-Nitrophenol | ND | ug/kg | 1600 | | | |
| 4-Nitrophenol | ND | ug/kg | 800 | | | |
| 2,4-Dinitrophenol | ND | ug/kg | 1600 | | | |
| 4,6-Dinitro-o-cresol | ND | ug/kg | 1600 | | | |
| Pentachlorophenol | ND | ug/kg | 1600 | | | |
| Phenol | ND | ug/kg | 560 | | | |
| 2-Methylphenol | ND | ug/kg | 480 | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/kg | 480 | | | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 400 | | | |
| Benzoic Acid | ND | ug/kg | 4000 | | | |
| Benzyl Alcohol | ND | ug/kg | 800 | | | |
| Carbazole | ND | ug/kg | 400 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 38.0 | % | 25-120 | | | |
| Phenol-d6 | 36.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 32.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 32.0 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 46.0 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 40.0 | % | 18-120 | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 8270C | 0911 03:30 0913 17:45 AK | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-15
PWG-DW-2008-12 (7.25-7.75')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C-SIM cont'd | | | | 1 8270C | 0911 03:30 0913 17:45 AK | |
| Acenaphthene | ND | ug/kg | 32. | | | |
| 2-Chloronaphthalene | ND | ug/kg | 32. | | | |
| Fluoranthene | 64 | ug/kg | 32 | | | |
| Hexachlorobutadiene | ND | ug/kg | 80. | | | |
| Naphthalene | ND | ug/kg | 32. | | | |
| Benzo(a)anthracene | ND | ug/kg | 32. | | | |
| Benzo(a)pyrene | ND | ug/kg | 32. | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 32. | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 32. | | | |
| Chrysene | ND | ug/kg | 32. | | | |
| Acenaphthylene | ND | ug/kg | 32. | | | |
| Anthracene | ND | ug/kg | 32. | | | |
| Benzo(ghi)perylene | ND | ug/kg | 32. | | | |
| Fluorene | ND | ug/kg | 32. | | | |
| Phenanthrene | ND | ug/kg | 32. | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 32. | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 32. | | | |
| Pyrene | 67 | ug/kg | 32 | | | |
| 2-Methylnaphthalene | ND | ug/kg | 32. | | | |
| Pentachlorophenol | ND | ug/kg | 130 | | | |
| Hexachlorobenzene | ND | ug/kg | 130 | | | |
| Hexachloroethane | ND | ug/kg | 130 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 32.0 | % | 25-120 | | | |
| Phenol-d6 | 34.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 29.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 30.0 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 34.0 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 38.0 | % | 18-120 | | | |
| Petroleum Hydrocarbon Quantitation by GC-FID | | | | 1 8015B(M) | 0911 00:15 0912 12:37 RT | |
| TPH | 66500 | ug/kg | 40200 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| o-Terphenyl | 65.0 | % | 40-140 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0813344-16 | Date Collected: 08-SEP-2008 12:20 |
| PWG-DW-2008-13 (7.25-7.75') | Date Received : 09-SEP-2008 |
| Sample Matrix: SOIL | Date Reported : 25-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 3-Amber,1-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-----------------------|----|
| Solids, Total | 86 | % | 0.10 | 30 2540G | 0910 18:40 | NM |
| Total Metals | | | | | | |
| Aluminum, Total | 1500 | mg/kg | 5.7 | 1 6010B | 0910 13:30 0911 14:43 | AI |
| Antimony, Total | ND | mg/kg | 2.8 | 1 6010B | 0910 13:30 0911 14:43 | AI |
| Arsenic, Total | 1.1 | mg/kg | 0.57 | 1 6010B | 0910 13:30 0911 14:43 | AI |
| Barium, Total | 16 | mg/kg | 0.57 | 1 6010B | 0910 13:30 0911 14:43 | AI |
| Beryllium, Total | ND | mg/kg | 0.28 | 1 6010B | 0910 13:30 0911 14:43 | AI |
| Cadmium, Total | ND | mg/kg | 0.57 | 1 6010B | 0910 13:30 0911 14:43 | AI |
| Calcium, Total | 7000 | mg/kg | 5.7 | 1 6010B | 0910 13:30 0911 14:43 | AI |
| Chromium, Total | 2.5 | mg/kg | 0.57 | 1 6010B | 0910 13:30 0911 14:43 | AI |
| Cobalt, Total | ND | mg/kg | 1.1 | 1 6010B | 0910 13:30 0911 14:43 | AI |
| Copper, Total | 3.1 | mg/kg | 0.57 | 1 6010B | 0910 13:30 0911 14:43 | AI |
| Iron, Total | 2400 | mg/kg | 2.8 | 1 6010B | 0910 13:30 0911 14:43 | AI |
| Lead, Total | 26 | mg/kg | 2.8 | 1 6010B | 0910 13:30 0911 14:43 | AI |
| Magnesium, Total | 3900 | mg/kg | 5.7 | 1 6010B | 0910 13:30 0911 14:43 | AI |
| Manganese, Total | 31 | mg/kg | 0.57 | 1 6010B | 0910 13:30 0911 14:43 | AI |
| Mercury, Total | ND | mg/kg | 0.09 | 1 7471A | 0911 23:30 0912 14:36 | RC |
| Nickel, Total | 1.4 | mg/kg | 1.4 | 1 6010B | 0910 13:30 0911 14:43 | AI |
| Potassium, Total | ND | mg/kg | 140 | 1 6010B | 0910 13:30 0911 14:43 | AI |
| Selenium, Total | ND | mg/kg | 1.1 | 1 6010B | 0910 13:30 0911 14:43 | AI |
| Silver, Total | ND | mg/kg | 0.57 | 1 6010B | 0910 13:30 0911 14:43 | AI |
| Sodium, Total | ND | mg/kg | 110 | 1 6010B | 0910 13:30 0911 14:43 | AI |
| Thallium, Total | ND | mg/kg | 1.1 | 1 6010B | 0910 13:30 0911 14:43 | AI |
| Vanadium, Total | 3.8 | mg/kg | 0.57 | 1 6010B | 0910 13:30 0911 14:43 | AI |
| Zinc, Total | 24 | mg/kg | 2.8 | 1 6010B | 0910 13:30 0911 14:43 | AI |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0911 23:22 | PD |
| Methylene chloride | ND | ug/kg | 29. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 4.4 | | | |
| Chloroform | ND | ug/kg | 4.4 | | | |
| Carbon tetrachloride | ND | ug/kg | 2.9 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 10. | | | |
| Dibromochloromethane | ND | ug/kg | 2.9 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 4.4 | | | |
| Tetrachloroethene | ND | ug/kg | 2.9 | | | |
| Chlorobenzene | ND | ug/kg | 2.9 | | | |
| Trichlorofluoromethane | ND | ug/kg | 14. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-16
PWG-DW-2008-13 (7.25-7.75')

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|--------|-------|-----|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0911 23:22 PD | | |
| 1,2-Dichloroethane | ND | ug/kg | 2.9 | | | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 2.9 | | | | | |
| Bromodichloromethane | ND | ug/kg | 2.9 | | | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 2.9 | | | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 2.9 | | | | | |
| 1,1-Dichloropropene | ND | ug/kg | 14. | | | | | |
| Bromoform | ND | ug/kg | 12. | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 2.9 | | | | | |
| Benzene | ND | ug/kg | 2.9 | | | | | |
| Toluene | ND | ug/kg | 4.4 | | | | | |
| Ethylbenzene | ND | ug/kg | 2.9 | | | | | |
| Chloromethane | ND | ug/kg | 14. | | | | | |
| Bromomethane | ND | ug/kg | 5.8 | | | | | |
| Vinyl chloride | ND | ug/kg | 5.8 | | | | | |
| Chloroethane | ND | ug/kg | 5.8 | | | | | |
| 1,1-Dichloroethene | ND | ug/kg | 2.9 | | | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 4.4 | | | | | |
| Trichloroethene | ND | ug/kg | 2.9 | | | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 14. | | | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 14. | | | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 14. | | | | | |
| Methyl tert butyl ether | ND | ug/kg | 5.8 | | | | | |
| p/m-Xylene | ND | ug/kg | 5.8 | | | | | |
| o-Xylene | ND | ug/kg | 5.8 | | | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 2.9 | | | | | |
| Dibromomethane | ND | ug/kg | 29. | | | | | |
| Styrene | ND | ug/kg | 5.8 | | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 29. | | | | | |
| Acetone | ND | ug/kg | 29. | | | | | |
| Carbon disulfide | ND | ug/kg | 29. | | | | | |
| 2-Butanone | ND | ug/kg | 29. | | | | | |
| Vinyl acetate | ND | ug/kg | 29. | | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 29. | | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 29. | | | | | |
| 2-Hexanone | ND | ug/kg | 29. | | | | | |
| Bromochloromethane | ND | ug/kg | 14. | | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 14. | | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 12. | | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 14. | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 2.9 | | | | | |
| Bromobenzene | ND | ug/kg | 14. | | | | | |
| n-Butylbenzene | ND | ug/kg | 2.9 | | | | | |
| sec-Butylbenzene | ND | ug/kg | 2.9 | | | | | |
| tert-Butylbenzene | ND | ug/kg | 14. | | | | | |
| o-Chlorotoluene | ND | ug/kg | 14. | | | | | |
| p-Chlorotoluene | ND | ug/kg | 14. | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 14. | | | | | |
| Hexachlorobutadiene | ND | ug/kg | 14. | | | | | |
| Isopropylbenzene | ND | ug/kg | 2.9 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-16
PWG-DW-2008-13 (7.25-7.75')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|--------------------------|----|
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0911 23:22 PD | |
| p-Isopropyltoluene | ND | ug/kg | 2.9 | | | |
| Naphthalene | ND | ug/kg | 14. | | | |
| Acrylonitrile | ND | ug/kg | 29. | | | |
| n-Propylbenzene | ND | ug/kg | 2.9 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 14. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 14. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 14. | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 14. | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 12. | | | |
| 4-Ethyltoluene | ND | ug/kg | 12. | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 12. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 108 | % | 70-130 | | | |
| Toluene-d8 | 110 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 120 | % | 70-130 | | | |
| Dibromofluoromethane | 106 | % | 70-130 | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 0911 03:30 0915 20:30 PS | |
| Acenaphthene | ND | ug/kg | 390 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 390 | | | |
| Hexachlorobenzene | ND | ug/kg | 390 | | | |
| Bis(2-chloroethyl)ether | ND | ug/kg | 390 | | | |
| 2-Chloronaphthalene | ND | ug/kg | 460 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 390 | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 390 | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 390 | | | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 780 | | | |
| 2,4-Dinitrotoluene | ND | ug/kg | 390 | | | |
| 2,6-Dinitrotoluene | ND | ug/kg | 390 | | | |
| Fluoranthene | ND | ug/kg | 390 | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/kg | 390 | | | |
| 4-Bromophenyl phenyl ether | ND | ug/kg | 390 | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/kg | 390 | | | |
| Bis(2-chloroethoxy)methane | ND | ug/kg | 390 | | | |
| Hexachlorobutadiene | ND | ug/kg | 780 | | | |
| Hexachlorocyclopentadiene | ND | ug/kg | 780 | | | |
| Hexachloroethane | ND | ug/kg | 390 | | | |
| Isophorone | ND | ug/kg | 390 | | | |
| Naphthalene | ND | ug/kg | 390 | | | |
| Nitrobenzene | ND | ug/kg | 390 | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/kg | 1200 | | | |
| n-Nitrosodi-n-propylamine | ND | ug/kg | 390 | | | |
| Bis(2-Ethylhexyl)phthalate | ND | ug/kg | 780 | | | |
| Butyl benzyl phthalate | ND | ug/kg | 390 | | | |
| Di-n-butylphthalate | ND | ug/kg | 390 | | | |
| Di-n-octylphthalate | ND | ug/kg | 390 | | | |
| Diethyl phthalate | ND | ug/kg | 390 | | | |
| Dimethyl phthalate | ND | ug/kg | 390 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-16
PWG-DW-2008-13 (7.25-7.75')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---|----------|-------|-------------|------------|-------|-----------------------|----|
| | | | | | PREP | ANAL | |
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 | 8270C | 0911 03:30 0915 20:30 | PS |
| Benzo(a)anthracene | ND | ug/kg | 390 | | | | |
| Benzo(a)pyrene | ND | ug/kg | 390 | | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 390 | | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 390 | | | | |
| Chrysene | ND | ug/kg | 390 | | | | |
| Acenaphthylene | ND | ug/kg | 390 | | | | |
| Anthracene | ND | ug/kg | 390 | | | | |
| Benzo(ghi)perylene | ND | ug/kg | 390 | | | | |
| Fluorene | ND | ug/kg | 390 | | | | |
| Phenanthrene | ND | ug/kg | 390 | | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 390 | | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 390 | | | | |
| Pyrene | ND | ug/kg | 390 | | | | |
| Biphenyl | ND | ug/kg | 390 | | | | |
| 4-Chloroaniline | ND | ug/kg | 390 | | | | |
| 2-Nitroaniline | ND | ug/kg | 390 | | | | |
| 3-Nitroaniline | ND | ug/kg | 390 | | | | |
| 4-Nitroaniline | ND | ug/kg | 540 | | | | |
| Dibenzofuran | ND | ug/kg | 390 | | | | |
| 2-Methylnaphthalene | ND | ug/kg | 390 | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/kg | 1600 | | | | |
| Acetophenone | ND | ug/kg | 1600 | | | | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 390 | | | | |
| P-Chloro-M-Cresol | ND | ug/kg | 390 | | | | |
| 2-Chlorophenol | ND | ug/kg | 460 | | | | |
| 2,4-Dichlorophenol | ND | ug/kg | 780 | | | | |
| 2,4-Dimethylphenol | ND | ug/kg | 390 | | | | |
| 2-Nitrophenol | ND | ug/kg | 1600 | | | | |
| 4-Nitrophenol | ND | ug/kg | 780 | | | | |
| 2,4-Dinitrophenol | ND | ug/kg | 1600 | | | | |
| 4,6-Dinitro-o-cresol | ND | ug/kg | 1600 | | | | |
| Pentachlorophenol | ND | ug/kg | 1600 | | | | |
| Phenol | ND | ug/kg | 540 | | | | |
| 2-Methylphenol | ND | ug/kg | 460 | | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/kg | 460 | | | | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 390 | | | | |
| Benzoic Acid | ND | ug/kg | 3900 | | | | |
| Benzyl Alcohol | ND | ug/kg | 780 | | | | |
| Carbazole | ND | ug/kg | 390 | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | |
| 2-Fluorophenol | 40.0 | % | 25-120 | | | | |
| Phenol-d6 | 38.0 | % | 10-120 | | | | |
| Nitrobenzene-d5 | 32.0 | % | 23-120 | | | | |
| 2-Fluorobiphenyl | 32.0 | % | 30-120 | | | | |
| 2,4,6-Tribromophenol | 45.0 | % | 19-120 | | | | |
| 4-Terphenyl-d14 | 37.0 | % | 18-120 | | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 | 8270C | 0911 03:30 0913 13:48 | AK |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-16
PWG-DW-2008-13 (7.25-7.75')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C-SIM cont'd | | | | 1 8270C | 0911 03:30 0913 13:48 AK | |
| Acenaphthene | ND | ug/kg | 16. | | | |
| 2-Chloronaphthalene | ND | ug/kg | 16. | | | |
| Fluoranthene | 32 | ug/kg | 16 | | | |
| Hexachlorobutadiene | ND | ug/kg | 39. | | | |
| Naphthalene | ND | ug/kg | 16. | | | |
| Benzo(a)anthracene | ND | ug/kg | 16. | | | |
| Benzo(a)pyrene | ND | ug/kg | 16. | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 16. | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 16. | | | |
| Chrysene | ND | ug/kg | 16. | | | |
| Acenaphthylene | ND | ug/kg | 16. | | | |
| Anthracene | ND | ug/kg | 16. | | | |
| Benzo(ghi)perylene | ND | ug/kg | 16. | | | |
| Fluorene | ND | ug/kg | 16. | | | |
| Phenanthrene | ND | ug/kg | 16. | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 16. | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 16. | | | |
| Pyrene | 33 | ug/kg | 16 | | | |
| 2-Methylnaphthalene | ND | ug/kg | 16. | | | |
| Pentachlorophenol | ND | ug/kg | 62. | | | |
| Hexachlorobenzene | ND | ug/kg | 62. | | | |
| Hexachloroethane | ND | ug/kg | 62. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 38.0 | % | 25-120 | | | |
| Phenol-d6 | 39.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 35.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 33.0 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 35.0 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 43.0 | % | 18-120 | | | |
| Petroleum Hydrocarbon Quantitation by GC-FID | | | | 1 8015B(M) | 0911 00:15 0912 12:37 RT | |
| TPH | ND | ug/kg | 38800 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| o-Terphenyl | 59.0 | % | 40-140 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0813344-17 | Date Collected: 08-SEP-2008 12:30 |
| PWG-DW-2008-14 (6-6.5') | Date Received : 09-SEP-2008 |
| Sample Matrix: SOIL | Date Reported : 25-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 3-Amber,1-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-----------------------|----|
| Solids, Total | 69 | % | 0.10 | 30 2540G | 0910 18:40 | NM |
| Total Metals | | | | | | |
| Aluminum, Total | 2300 | mg/kg | 7.0 | 1 6010B | 0910 13:30 0911 14:46 | AI |
| Antimony, Total | ND | mg/kg | 3.5 | 1 6010B | 0910 13:30 0911 14:46 | AI |
| Arsenic, Total | 0.95 | mg/kg | 0.70 | 1 6010B | 0910 13:30 0911 14:46 | AI |
| Barium, Total | 13 | mg/kg | 0.70 | 1 6010B | 0910 13:30 0911 14:46 | AI |
| Beryllium, Total | ND | mg/kg | 0.35 | 1 6010B | 0910 13:30 0911 14:46 | AI |
| Cadmium, Total | ND | mg/kg | 0.70 | 1 6010B | 0910 13:30 0911 14:46 | AI |
| Calcium, Total | 10000 | mg/kg | 7.0 | 1 6010B | 0910 13:30 0911 14:46 | AI |
| Chromium, Total | 6.4 | mg/kg | 0.70 | 1 6010B | 0910 13:30 0911 14:46 | AI |
| Cobalt, Total | 2.8 | mg/kg | 1.4 | 1 6010B | 0910 13:30 0911 14:46 | AI |
| Copper, Total | 22 | mg/kg | 0.70 | 1 6010B | 0910 13:30 0911 14:46 | AI |
| Iron, Total | 6200 | mg/kg | 3.5 | 1 6010B | 0910 13:30 0911 14:46 | AI |
| Lead, Total | 65 | mg/kg | 3.5 | 1 6010B | 0910 13:30 0911 14:46 | AI |
| Magnesium, Total | 6300 | mg/kg | 7.0 | 1 6010B | 0910 13:30 0911 14:46 | AI |
| Manganese, Total | 43 | mg/kg | 0.70 | 1 6010B | 0910 13:30 0911 14:46 | AI |
| Mercury, Total | 0.13 | mg/kg | 0.11 | 1 7471A | 0911 23:30 0912 14:38 | RC |
| Nickel, Total | 4.7 | mg/kg | 1.8 | 1 6010B | 0910 13:30 0911 14:46 | AI |
| Potassium, Total | ND | mg/kg | 180 | 1 6010B | 0910 13:30 0911 14:46 | AI |
| Selenium, Total | ND | mg/kg | 1.4 | 1 6010B | 0910 13:30 0911 14:46 | AI |
| Silver, Total | ND | mg/kg | 0.70 | 1 6010B | 0910 13:30 0911 14:46 | AI |
| Sodium, Total | 170 | mg/kg | 140 | 1 6010B | 0910 13:30 0911 14:46 | AI |
| Thallium, Total | ND | mg/kg | 1.4 | 1 6010B | 0910 13:30 0911 14:46 | AI |
| Vanadium, Total | 21 | mg/kg | 0.70 | 1 6010B | 0910 13:30 0911 14:46 | AI |
| Zinc, Total | 100 | mg/kg | 3.5 | 1 6010B | 0910 13:30 0911 14:46 | AI |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0911 23:58 | PD |
| Methylene chloride | ND | ug/kg | 36. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 5.4 | | | |
| Chloroform | ND | ug/kg | 5.4 | | | |
| Carbon tetrachloride | ND | ug/kg | 3.6 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 13. | | | |
| Dibromochloromethane | ND | ug/kg | 3.6 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 5.4 | | | |
| Tetrachloroethene | ND | ug/kg | 3.6 | | | |
| Chlorobenzene | ND | ug/kg | 3.6 | | | |
| Trichlorofluoromethane | ND | ug/kg | 18. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-17
PWG-DW-2008-14 (6-6.5')

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|--------|-------|-----|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0911 23:58 PD | | |
| 1,2-Dichloroethane | ND | ug/kg | 3.6 | | | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 3.6 | | | | | |
| Bromodichloromethane | ND | ug/kg | 3.6 | | | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 3.6 | | | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 3.6 | | | | | |
| 1,1-Dichloropropene | ND | ug/kg | 18. | | | | | |
| Bromoform | ND | ug/kg | 14. | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 3.6 | | | | | |
| Benzene | ND | ug/kg | 3.6 | | | | | |
| Toluene | 25 | ug/kg | 5.4 | | | | | |
| Ethylbenzene | ND | ug/kg | 3.6 | | | | | |
| Chloromethane | ND | ug/kg | 18. | | | | | |
| Bromomethane | ND | ug/kg | 7.2 | | | | | |
| Vinyl chloride | ND | ug/kg | 7.2 | | | | | |
| Chloroethane | ND | ug/kg | 7.2 | | | | | |
| 1,1-Dichloroethene | ND | ug/kg | 3.6 | | | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 5.4 | | | | | |
| Trichloroethene | ND | ug/kg | 3.6 | | | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 18. | | | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 18. | | | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 18. | | | | | |
| Methyl tert butyl ether | ND | ug/kg | 7.2 | | | | | |
| p/m-Xylene | ND | ug/kg | 7.2 | | | | | |
| o-Xylene | ND | ug/kg | 7.2 | | | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 3.6 | | | | | |
| Dibromomethane | ND | ug/kg | 36. | | | | | |
| Styrene | ND | ug/kg | 7.2 | | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 36. | | | | | |
| Acetone | 42 | ug/kg | 36 | | | | | |
| Carbon disulfide | ND | ug/kg | 36. | | | | | |
| 2-Butanone | ND | ug/kg | 36. | | | | | |
| Vinyl acetate | ND | ug/kg | 36. | | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 36. | | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 36. | | | | | |
| 2-Hexanone | ND | ug/kg | 36. | | | | | |
| Bromochloromethane | ND | ug/kg | 18. | | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 18. | | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 14. | | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 18. | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 3.6 | | | | | |
| Bromobenzene | ND | ug/kg | 18. | | | | | |
| n-Butylbenzene | ND | ug/kg | 3.6 | | | | | |
| sec-Butylbenzene | ND | ug/kg | 3.6 | | | | | |
| tert-Butylbenzene | ND | ug/kg | 18. | | | | | |
| o-Chlorotoluene | ND | ug/kg | 18. | | | | | |
| p-Chlorotoluene | ND | ug/kg | 18. | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 18. | | | | | |
| Hexachlorobutadiene | ND | ug/kg | 18. | | | | | |
| Isopropylbenzene | ND | ug/kg | 3.6 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-17
PWG-DW-2008-14 (6-6.5')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|-------------------|----|
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0911 23:58 PD | |
| p-Isopropyltoluene | ND | ug/kg | 3.6 | | | |
| Naphthalene | ND | ug/kg | 18. | | | |
| Acrylonitrile | ND | ug/kg | 36. | | | |
| n-Propylbenzene | ND | ug/kg | 3.6 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 18. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 18. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 18. | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 18. | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 14. | | | |
| 4-Ethyltoluene | ND | ug/kg | 14. | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 14. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 113 | % | 70-130 | | | |
| Toluene-d8 | 113 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 135 | % | 70-130 | | | |
| Dibromofluoromethane | 106 | % | 70-130 | | | |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0912 13:53 PD | |
| Methylene chloride | ND | ug/kg | 36. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 5.4 | | | |
| Chloroform | ND | ug/kg | 5.4 | | | |
| Carbon tetrachloride | ND | ug/kg | 3.6 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 13. | | | |
| Dibromochloromethane | ND | ug/kg | 3.6 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 5.4 | | | |
| Tetrachloroethene | ND | ug/kg | 3.6 | | | |
| Chlorobenzene | ND | ug/kg | 3.6 | | | |
| Trichlorofluoromethane | ND | ug/kg | 18. | | | |
| 1,2-Dichloroethane | ND | ug/kg | 3.6 | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 3.6 | | | |
| Bromodichloromethane | ND | ug/kg | 3.6 | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 3.6 | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 3.6 | | | |
| 1,1-Dichloropropene | ND | ug/kg | 18. | | | |
| Bromoform | ND | ug/kg | 14. | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 3.6 | | | |
| Benzene | ND | ug/kg | 3.6 | | | |
| Toluene | 28 | ug/kg | 5.4 | | | |
| Ethylbenzene | ND | ug/kg | 3.6 | | | |
| Chloromethane | ND | ug/kg | 18. | | | |
| Bromomethane | ND | ug/kg | 7.2 | | | |
| Vinyl chloride | ND | ug/kg | 7.2 | | | |
| Chloroethane | ND | ug/kg | 7.2 | | | |
| 1,1-Dichloroethene | ND | ug/kg | 3.6 | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 5.4 | | | |
| Trichloroethene | ND | ug/kg | 3.6 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 18. | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 18. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-17
PWG-DW-2008-14 (6-6.5')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|-----------------------|----|
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0912 13:53 | PD |
| 1,4-Dichlorobenzene | ND | ug/kg | 18. | | | |
| Methyl tert butyl ether | ND | ug/kg | 7.2 | | | |
| p/m-Xylene | ND | ug/kg | 7.2 | | | |
| o-Xylene | ND | ug/kg | 7.2 | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 3.6 | | | |
| Dibromomethane | ND | ug/kg | 36. | | | |
| Styrene | ND | ug/kg | 7.2 | | | |
| Dichlorodifluoromethane | ND | ug/kg | 36. | | | |
| Acetone | 45 | ug/kg | 36 | | | |
| Carbon disulfide | ND | ug/kg | 36. | | | |
| 2-Butanone | ND | ug/kg | 36. | | | |
| Vinyl acetate | ND | ug/kg | 36. | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 36. | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 36. | | | |
| 2-Hexanone | ND | ug/kg | 36. | | | |
| Bromochloromethane | ND | ug/kg | 18. | | | |
| 2,2-Dichloropropane | ND | ug/kg | 18. | | | |
| 1,2-Dibromoethane | ND | ug/kg | 14. | | | |
| 1,3-Dichloropropane | ND | ug/kg | 18. | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 3.6 | | | |
| Bromobenzene | ND | ug/kg | 18. | | | |
| n-Butylbenzene | ND | ug/kg | 3.6 | | | |
| sec-Butylbenzene | ND | ug/kg | 3.6 | | | |
| tert-Butylbenzene | ND | ug/kg | 18. | | | |
| o-Chlorotoluene | ND | ug/kg | 18. | | | |
| p-Chlorotoluene | ND | ug/kg | 18. | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 18. | | | |
| Hexachlorobutadiene | ND | ug/kg | 18. | | | |
| Isopropylbenzene | ND | ug/kg | 3.6 | | | |
| p-Isopropyltoluene | ND | ug/kg | 3.6 | | | |
| Naphthalene | ND | ug/kg | 18. | | | |
| Acrylonitrile | ND | ug/kg | 36. | | | |
| n-Propylbenzene | ND | ug/kg | 3.6 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 18. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 18. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 18. | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 18. | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 14. | | | |
| 4-Ethyltoluene | ND | ug/kg | 14. | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 14. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 119 | % | 70-130 | | | |
| Toluene-d8 | 126 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 136 | % | 70-130 | | | |
| Dibromofluoromethane | 118 | % | 70-130 | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 0911 03:30 0915 20:54 | PS |
| Acenaphthene | ND | ug/kg | 970 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-17
PWG-DW-2008-14 (6-6.5')

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---|--------|-------|------|-----|--------|------------|------------|----|
| | | | | | | PREP | ANAL | |
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 | 8270C | 0911 03:30 | 0915 20:54 | PS |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 970 | | | | | |
| Hexachlorobenzene | ND | ug/kg | 970 | | | | | |
| Bis(2-chloroethyl)ether | ND | ug/kg | 970 | | | | | |
| 2-Chloronaphthalene | ND | ug/kg | 1200 | | | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 970 | | | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 970 | | | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 970 | | | | | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 1900 | | | | | |
| 2,4-Dinitrotoluene | ND | ug/kg | 970 | | | | | |
| 2,6-Dinitrotoluene | ND | ug/kg | 970 | | | | | |
| Fluoranthene | ND | ug/kg | 970 | | | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/kg | 970 | | | | | |
| 4-Bromophenyl phenyl ether | ND | ug/kg | 970 | | | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/kg | 970 | | | | | |
| Bis(2-chloroethoxy)methane | ND | ug/kg | 970 | | | | | |
| Hexachlorobutadiene | ND | ug/kg | 1900 | | | | | |
| Hexachlorocyclopentadiene | ND | ug/kg | 1900 | | | | | |
| Hexachloroethane | ND | ug/kg | 970 | | | | | |
| Isophorone | ND | ug/kg | 970 | | | | | |
| Naphthalene | ND | ug/kg | 970 | | | | | |
| Nitrobenzene | ND | ug/kg | 970 | | | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/kg | 2900 | | | | | |
| n-Nitrosodi-n-propylamine | ND | ug/kg | 970 | | | | | |
| Bis(2-Ethylhexyl)phthalate | ND | ug/kg | 1900 | | | | | |
| Butyl benzyl phthalate | ND | ug/kg | 970 | | | | | |
| Di-n-butylphthalate | ND | ug/kg | 970 | | | | | |
| Di-n-octylphthalate | ND | ug/kg | 970 | | | | | |
| Diethyl phthalate | ND | ug/kg | 970 | | | | | |
| Dimethyl phthalate | ND | ug/kg | 970 | | | | | |
| Benzo(a)anthracene | ND | ug/kg | 970 | | | | | |
| Benzo(a)pyrene | ND | ug/kg | 970 | | | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 970 | | | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 970 | | | | | |
| Chrysene | ND | ug/kg | 970 | | | | | |
| Acenaphthylene | ND | ug/kg | 970 | | | | | |
| Anthracene | ND | ug/kg | 970 | | | | | |
| Benzo(ghi)perylene | ND | ug/kg | 970 | | | | | |
| Fluorene | ND | ug/kg | 970 | | | | | |
| Phenanthrene | ND | ug/kg | 970 | | | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 970 | | | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 970 | | | | | |
| Pyrene | ND | ug/kg | 970 | | | | | |
| Biphenyl | ND | ug/kg | 970 | | | | | |
| 4-Chloroaniline | ND | ug/kg | 970 | | | | | |
| 2-Nitroaniline | ND | ug/kg | 970 | | | | | |
| 3-Nitroaniline | ND | ug/kg | 970 | | | | | |
| 4-Nitroaniline | ND | ug/kg | 1400 | | | | | |
| Dibenzofuran | ND | ug/kg | 970 | | | | | |
| 2-Methylnaphthalene | ND | ug/kg | 970 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-17
PWG-DW-2008-14 (6-6.5')

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---|----------|-------|-------------|-----|--------|------------|------------|----|
| | | | | | | PREP | ANAL | |
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 | 8270C | 0911 03:30 | 0915 20:54 | PS |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/kg | 3900 | | | | | |
| Acetophenone | ND | ug/kg | 3900 | | | | | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 970 | | | | | |
| P-Chloro-M-Cresol | ND | ug/kg | 970 | | | | | |
| 2-Chlorophenol | ND | ug/kg | 1200 | | | | | |
| 2,4-Dichlorophenol | ND | ug/kg | 1900 | | | | | |
| 2,4-Dimethylphenol | ND | ug/kg | 970 | | | | | |
| 2-Nitrophenol | ND | ug/kg | 3900 | | | | | |
| 4-Nitrophenol | ND | ug/kg | 1900 | | | | | |
| 2,4-Dinitrophenol | ND | ug/kg | 3900 | | | | | |
| 4,6-Dinitro-o-cresol | ND | ug/kg | 3900 | | | | | |
| Pentachlorophenol | ND | ug/kg | 3900 | | | | | |
| Phenol | ND | ug/kg | 1400 | | | | | |
| 2-Methylphenol | ND | ug/kg | 1200 | | | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/kg | 1200 | | | | | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 970 | | | | | |
| Benzoic Acid | ND | ug/kg | 9700 | | | | | |
| Benzyl Alcohol | ND | ug/kg | 1900 | | | | | |
| Carbazole | ND | ug/kg | 970 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 2-Fluorophenol | 81.0 | % | 25-120 | | | | | |
| Phenol-d6 | 86.0 | % | 10-120 | | | | | |
| Nitrobenzene-d5 | 70.0 | % | 23-120 | | | | | |
| 2-Fluorobiphenyl | 75.0 | % | 30-120 | | | | | |
| 2,4,6-Tribromophenol | 99.0 | % | 19-120 | | | | | |
| 4-Terphenyl-d14 | 67.0 | % | 18-120 | | | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 | 8270C | 0911 03:30 | 0913 18:32 | AK |
| Acenaphthene | ND | ug/kg | 970 | | | | | |
| 2-Chloronaphthalene | ND | ug/kg | 970 | | | | | |
| Fluoranthene | ND | ug/kg | 970 | | | | | |
| Hexachlorobutadiene | ND | ug/kg | 2400 | | | | | |
| Naphthalene | ND | ug/kg | 970 | | | | | |
| Benzo(a)anthracene | ND | ug/kg | 970 | | | | | |
| Benzo(a)pyrene | ND | ug/kg | 970 | | | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 970 | | | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 970 | | | | | |
| Chrysene | ND | ug/kg | 970 | | | | | |
| Acenaphthylene | ND | ug/kg | 970 | | | | | |
| Anthracene | ND | ug/kg | 970 | | | | | |
| Benzo(ghi)perylene | ND | ug/kg | 970 | | | | | |
| Fluorene | ND | ug/kg | 970 | | | | | |
| Phenanthrene | ND | ug/kg | 970 | | | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 970 | | | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 970 | | | | | |
| Pyrene | ND | ug/kg | 970 | | | | | |
| 2-Methylnaphthalene | ND | ug/kg | 970 | | | | | |
| Pentachlorophenol | ND | ug/kg | 3900 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-17
PWG-DW-2008-14 (6-6.5')

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---|----------|-------|-------------|-----|----------|------------|------------|----|
| | | | | | | PREP | ANAL | |
| | | | | | | | | |
| Semivolatile Organics by EPA 8270C-SIM cont'd | | | | 1 | 8270C | 0911 03:30 | 0913 18:32 | AK |
| Hexachlorobenzene | ND | ug/kg | 3900 | | | | | |
| Hexachloroethane | ND | ug/kg | 3900 | | | | | |
| | | | | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 2-Fluorophenol | ND | % | 25-120 | | | | | |
| Phenol-d6 | ND | % | 10-120 | | | | | |
| Nitrobenzene-d5 | ND | % | 23-120 | | | | | |
| 2-Fluorobiphenyl | ND | % | 30-120 | | | | | |
| 2,4,6-Tribromophenol | ND | % | 19-120 | | | | | |
| 4-Terphenyl-d14 | ND | % | 18-120 | | | | | |
| | | | | | | | | |
| Petroleum Hydrocarbon Quantitation by GC-FID | | | | 1 | 8015B(M) | 0911 00:15 | 0912 14:18 | RT |
| TPH | 841000 | ug/kg | 242000 | | | | | |
| | | | | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| o-Terphenyl | 73.0 | % | 40-140 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0813344-18 | Date Collected: 08-SEP-2008 13:40 |
| PWG-DW-2008-15 (7-7.5') | Date Received : 09-SEP-2008 |
| Sample Matrix: SOIL | Date Reported : 25-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 3-Amber,1-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-----------------------|----|
| Solids, Total | 84 | % | 0.10 | 30 2540G | 0910 18:40 | NM |
| Total Metals | | | | | | |
| Aluminum, Total | 1700 | mg/kg | 5.7 | 1 6010B | 0910 13:30 0911 14:49 | AI |
| Antimony, Total | ND | mg/kg | 2.8 | 1 6010B | 0910 13:30 0911 14:49 | AI |
| Arsenic, Total | 1.3 | mg/kg | 0.57 | 1 6010B | 0910 13:30 0911 14:49 | AI |
| Barium, Total | 16 | mg/kg | 0.57 | 1 6010B | 0910 13:30 0911 14:49 | AI |
| Beryllium, Total | ND | mg/kg | 0.28 | 1 6010B | 0910 13:30 0911 14:49 | AI |
| Cadmium, Total | ND | mg/kg | 0.57 | 1 6010B | 0910 13:30 0911 14:49 | AI |
| Calcium, Total | 6600 | mg/kg | 5.7 | 1 6010B | 0910 13:30 0911 14:49 | AI |
| Chromium, Total | 5.2 | mg/kg | 0.57 | 1 6010B | 0910 13:30 0911 14:49 | AI |
| Cobalt, Total | ND | mg/kg | 1.1 | 1 6010B | 0910 13:30 0911 14:49 | AI |
| Copper, Total | 4.7 | mg/kg | 0.57 | 1 6010B | 0910 13:30 0911 14:49 | AI |
| Iron, Total | 4600 | mg/kg | 2.8 | 1 6010B | 0910 13:30 0911 14:49 | AI |
| Lead, Total | 36 | mg/kg | 2.8 | 1 6010B | 0910 13:30 0911 14:49 | AI |
| Magnesium, Total | 2900 | mg/kg | 5.7 | 1 6010B | 0910 13:30 0911 14:49 | AI |
| Manganese, Total | 47 | mg/kg | 0.57 | 1 6010B | 0910 13:30 0911 14:49 | AI |
| Mercury, Total | ND | mg/kg | 0.09 | 1 7471A | 0911 23:30 0912 14:40 | RC |
| Nickel, Total | 2.0 | mg/kg | 1.4 | 1 6010B | 0910 13:30 0911 14:49 | AI |
| Potassium, Total | ND | mg/kg | 140 | 1 6010B | 0910 13:30 0911 14:49 | AI |
| Selenium, Total | ND | mg/kg | 1.1 | 1 6010B | 0910 13:30 0911 14:49 | AI |
| Silver, Total | ND | mg/kg | 0.57 | 1 6010B | 0910 13:30 0911 14:49 | AI |
| Sodium, Total | ND | mg/kg | 110 | 1 6010B | 0910 13:30 0911 14:49 | AI |
| Thallium, Total | ND | mg/kg | 1.1 | 1 6010B | 0910 13:30 0911 14:49 | AI |
| Vanadium, Total | 5.9 | mg/kg | 0.57 | 1 6010B | 0910 13:30 0911 14:49 | AI |
| Zinc, Total | 35 | mg/kg | 2.8 | 1 6010B | 0910 13:30 0911 14:49 | AI |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0912 00:35 | PD |
| Methylene chloride | ND | ug/kg | 30. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 4.5 | | | |
| Chloroform | ND | ug/kg | 4.5 | | | |
| Carbon tetrachloride | ND | ug/kg | 3.0 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 10. | | | |
| Dibromochloromethane | ND | ug/kg | 3.0 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 4.5 | | | |
| Tetrachloroethene | 120 | ug/kg | 3.0 | | | |
| Chlorobenzene | ND | ug/kg | 3.0 | | | |
| Trichlorofluoromethane | ND | ug/kg | 15. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-18
PWG-DW-2008-15 (7-7.5')

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|--------|-------|-----|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0912 00:35 PD | | |
| 1,2-Dichloroethane | ND | ug/kg | 3.0 | | | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 3.0 | | | | | |
| Bromodichloromethane | ND | ug/kg | 3.0 | | | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 3.0 | | | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 3.0 | | | | | |
| 1,1-Dichloropropene | ND | ug/kg | 15. | | | | | |
| Bromoform | ND | ug/kg | 12. | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 3.0 | | | | | |
| Benzene | ND | ug/kg | 3.0 | | | | | |
| Toluene | ND | ug/kg | 4.5 | | | | | |
| Ethylbenzene | ND | ug/kg | 3.0 | | | | | |
| Chloromethane | ND | ug/kg | 15. | | | | | |
| Bromomethane | ND | ug/kg | 6.0 | | | | | |
| Vinyl chloride | 26 | ug/kg | 6.0 | | | | | |
| Chloroethane | ND | ug/kg | 6.0 | | | | | |
| 1,1-Dichloroethene | ND | ug/kg | 3.0 | | | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 4.5 | | | | | |
| Trichloroethene | 11 | ug/kg | 3.0 | | | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 15. | | | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 15. | | | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 15. | | | | | |
| Methyl tert butyl ether | ND | ug/kg | 6.0 | | | | | |
| p/m-Xylene | ND | ug/kg | 6.0 | | | | | |
| o-Xylene | ND | ug/kg | 6.0 | | | | | |
| cis-1,2-Dichloroethene | 28 | ug/kg | 3.0 | | | | | |
| Dibromomethane | ND | ug/kg | 30. | | | | | |
| Styrene | ND | ug/kg | 6.0 | | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 30. | | | | | |
| Acetone | ND | ug/kg | 30. | | | | | |
| Carbon disulfide | ND | ug/kg | 30. | | | | | |
| 2-Butanone | ND | ug/kg | 30. | | | | | |
| Vinyl acetate | ND | ug/kg | 30. | | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 30. | | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 30. | | | | | |
| 2-Hexanone | ND | ug/kg | 30. | | | | | |
| Bromochloromethane | ND | ug/kg | 15. | | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 15. | | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 12. | | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 15. | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 3.0 | | | | | |
| Bromobenzene | ND | ug/kg | 15. | | | | | |
| n-Butylbenzene | ND | ug/kg | 3.0 | | | | | |
| sec-Butylbenzene | ND | ug/kg | 3.0 | | | | | |
| tert-Butylbenzene | ND | ug/kg | 15. | | | | | |
| o-Chlorotoluene | ND | ug/kg | 15. | | | | | |
| p-Chlorotoluene | ND | ug/kg | 15. | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 15. | | | | | |
| Hexachlorobutadiene | ND | ug/kg | 15. | | | | | |
| Isopropylbenzene | ND | ug/kg | 3.0 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-18
PWG-DW-2008-15 (7-7.5')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|--------------------------|----|
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0912 00:35 PD | |
| p-Isopropyltoluene | ND | ug/kg | 3.0 | | | |
| Naphthalene | ND | ug/kg | 15. | | | |
| Acrylonitrile | ND | ug/kg | 30. | | | |
| n-Propylbenzene | ND | ug/kg | 3.0 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 15. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 15. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 15. | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 15. | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 12. | | | |
| 4-Ethyltoluene | ND | ug/kg | 12. | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 12. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 106 | % | 70-130 | | | |
| Toluene-d8 | 105 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 119 | % | 70-130 | | | |
| Dibromofluoromethane | 100 | % | 70-130 | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 0911 03:30 0915 21:17 PS | |
| Acenaphthene | ND | ug/kg | 400 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 400 | | | |
| Hexachlorobenzene | ND | ug/kg | 400 | | | |
| Bis(2-chloroethyl)ether | ND | ug/kg | 400 | | | |
| 2-Chloronaphthalene | ND | ug/kg | 480 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 400 | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 400 | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 400 | | | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 790 | | | |
| 2,4-Dinitrotoluene | ND | ug/kg | 400 | | | |
| 2,6-Dinitrotoluene | ND | ug/kg | 400 | | | |
| Fluoranthene | ND | ug/kg | 400 | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/kg | 400 | | | |
| 4-Bromophenyl phenyl ether | ND | ug/kg | 400 | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/kg | 400 | | | |
| Bis(2-chloroethoxy)methane | ND | ug/kg | 400 | | | |
| Hexachlorobutadiene | ND | ug/kg | 790 | | | |
| Hexachlorocyclopentadiene | ND | ug/kg | 790 | | | |
| Hexachloroethane | ND | ug/kg | 400 | | | |
| Isophorone | ND | ug/kg | 400 | | | |
| Naphthalene | ND | ug/kg | 400 | | | |
| Nitrobenzene | ND | ug/kg | 400 | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/kg | 1200 | | | |
| n-Nitrosodi-n-propylamine | ND | ug/kg | 400 | | | |
| Bis(2-Ethylhexyl)phthalate | ND | ug/kg | 790 | | | |
| Butyl benzyl phthalate | ND | ug/kg | 400 | | | |
| Di-n-butylphthalate | ND | ug/kg | 400 | | | |
| Di-n-octylphthalate | ND | ug/kg | 400 | | | |
| Diethyl phthalate | ND | ug/kg | 400 | | | |
| Dimethyl phthalate | ND | ug/kg | 400 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-18
PWG-DW-2008-15 (7-7.5')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---|----------|-------|-------------|------------|-------|-----------------------|----|
| | | | | | PREP | ANAL | |
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 | 8270C | 0911 03:30 0915 21:17 | PS |
| Benzo(a)anthracene | ND | ug/kg | 400 | | | | |
| Benzo(a)pyrene | ND | ug/kg | 400 | | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 400 | | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 400 | | | | |
| Chrysene | ND | ug/kg | 400 | | | | |
| Acenaphthylene | ND | ug/kg | 400 | | | | |
| Anthracene | ND | ug/kg | 400 | | | | |
| Benzo(ghi)perylene | ND | ug/kg | 400 | | | | |
| Fluorene | ND | ug/kg | 400 | | | | |
| Phenanthrene | ND | ug/kg | 400 | | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 400 | | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 400 | | | | |
| Pyrene | ND | ug/kg | 400 | | | | |
| Biphenyl | ND | ug/kg | 400 | | | | |
| 4-Chloroaniline | ND | ug/kg | 400 | | | | |
| 2-Nitroaniline | ND | ug/kg | 400 | | | | |
| 3-Nitroaniline | ND | ug/kg | 400 | | | | |
| 4-Nitroaniline | ND | ug/kg | 560 | | | | |
| Dibenzofuran | ND | ug/kg | 400 | | | | |
| 2-Methylnaphthalene | ND | ug/kg | 400 | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/kg | 1600 | | | | |
| Acetophenone | ND | ug/kg | 1600 | | | | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 400 | | | | |
| P-Chloro-M-Cresol | ND | ug/kg | 400 | | | | |
| 2-Chlorophenol | ND | ug/kg | 480 | | | | |
| 2,4-Dichlorophenol | ND | ug/kg | 790 | | | | |
| 2,4-Dimethylphenol | ND | ug/kg | 400 | | | | |
| 2-Nitrophenol | ND | ug/kg | 1600 | | | | |
| 4-Nitrophenol | ND | ug/kg | 790 | | | | |
| 2,4-Dinitrophenol | ND | ug/kg | 1600 | | | | |
| 4,6-Dinitro-o-cresol | ND | ug/kg | 1600 | | | | |
| Pentachlorophenol | ND | ug/kg | 1600 | | | | |
| Phenol | ND | ug/kg | 560 | | | | |
| 2-Methylphenol | ND | ug/kg | 480 | | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/kg | 480 | | | | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 400 | | | | |
| Benzoic Acid | ND | ug/kg | 4000 | | | | |
| Benzyl Alcohol | ND | ug/kg | 790 | | | | |
| Carbazole | ND | ug/kg | 400 | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | |
| 2-Fluorophenol | 62.0 | % | 25-120 | | | | |
| Phenol-d6 | 65.0 | % | 10-120 | | | | |
| Nitrobenzene-d5 | 52.0 | % | 23-120 | | | | |
| 2-Fluorobiphenyl | 58.0 | % | 30-120 | | | | |
| 2,4,6-Tribromophenol | 94.0 | % | 19-120 | | | | |
| 4-Terphenyl-d14 | 71.0 | % | 18-120 | | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 | 8270C | 0911 03:30 0913 14:36 | AK |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-18
PWG-DW-2008-15 (7-7.5')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C-SIM cont'd | | | | 1 8270C | 0911 03:30 0913 14:36 AK | |
| Acenaphthene | ND | ug/kg | 79. | | | |
| 2-Chloronaphthalene | ND | ug/kg | 79. | | | |
| Fluoranthene | ND | ug/kg | 79. | | | |
| Hexachlorobutadiene | ND | ug/kg | 200 | | | |
| Naphthalene | ND | ug/kg | 79. | | | |
| Benzo(a)anthracene | ND | ug/kg | 79. | | | |
| Benzo(a)pyrene | ND | ug/kg | 79. | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 79. | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 79. | | | |
| Chrysene | ND | ug/kg | 79. | | | |
| Acenaphthylene | ND | ug/kg | 79. | | | |
| Anthracene | ND | ug/kg | 79. | | | |
| Benzo(ghi)perylene | ND | ug/kg | 79. | | | |
| Fluorene | ND | ug/kg | 79. | | | |
| Phenanthrene | ND | ug/kg | 79. | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 79. | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 79. | | | |
| Pyrene | ND | ug/kg | 79. | | | |
| 2-Methylnaphthalene | ND | ug/kg | 79. | | | |
| Pentachlorophenol | ND | ug/kg | 320 | | | |
| Hexachlorobenzene | ND | ug/kg | 320 | | | |
| Hexachloroethane | ND | ug/kg | 320 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 52.0 | % | 25-120 | | | |
| Phenol-d6 | 56.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 45.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 54.0 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 65.0 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 63.0 | % | 18-120 | | | |
| Petroleum Hydrocarbon Quantitation by GC-FID | | | | 1 8015B(M) | 0911 00:15 0912 13:11 RT | |
| TPH | 62100 | ug/kg | 39700 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| o-Terphenyl | 58.0 | % | 40-140 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0813344-19 | Date Collected: 08-SEP-2008 13:50 |
| PWG-DW-2008-100 (7-7.5') | Date Received : 09-SEP-2008 |
| Sample Matrix: SOIL | Date Reported : 25-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 3-Amber,1-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-----------------------|----|
| Solids, Total | 83 | % | 0.10 | 30 2540G | 0910 18:40 | NM |
| Total Metals | | | | | | |
| Aluminum, Total | 2100 | mg/kg | 5.6 | 1 6010B | 0910 13:30 0911 15:05 | AI |
| Antimony, Total | ND | mg/kg | 2.8 | 1 6010B | 0910 13:30 0911 15:05 | AI |
| Arsenic, Total | 1.4 | mg/kg | 0.56 | 1 6010B | 0910 13:30 0911 15:05 | AI |
| Barium, Total | 15 | mg/kg | 0.56 | 1 6010B | 0910 13:30 0911 15:05 | AI |
| Beryllium, Total | ND | mg/kg | 0.28 | 1 6010B | 0910 13:30 0911 15:05 | AI |
| Cadmium, Total | ND | mg/kg | 0.56 | 1 6010B | 0910 13:30 0911 15:05 | AI |
| Calcium, Total | 6400 | mg/kg | 5.6 | 1 6010B | 0910 13:30 0911 15:05 | AI |
| Chromium, Total | 4.5 | mg/kg | 0.56 | 1 6010B | 0910 13:30 0911 15:05 | AI |
| Cobalt, Total | 1.2 | mg/kg | 1.1 | 1 6010B | 0910 13:30 0911 15:05 | AI |
| Copper, Total | 5.6 | mg/kg | 0.56 | 1 6010B | 0910 13:30 0911 15:05 | AI |
| Iron, Total | 4600 | mg/kg | 2.8 | 1 6010B | 0910 13:30 0911 15:05 | AI |
| Lead, Total | 32 | mg/kg | 2.8 | 1 6010B | 0910 13:30 0911 15:05 | AI |
| Magnesium, Total | 3900 | mg/kg | 5.6 | 1 6010B | 0910 13:30 0911 15:05 | AI |
| Manganese, Total | 34 | mg/kg | 0.56 | 1 6010B | 0910 13:30 0911 15:05 | AI |
| Mercury, Total | ND | mg/kg | 0.09 | 1 7471A | 0911 23:30 0912 14:42 | RC |
| Nickel, Total | 2.2 | mg/kg | 1.4 | 1 6010B | 0910 13:30 0911 15:05 | AI |
| Potassium, Total | ND | mg/kg | 140 | 1 6010B | 0910 13:30 0911 15:05 | AI |
| Selenium, Total | ND | mg/kg | 1.1 | 1 6010B | 0910 13:30 0911 15:05 | AI |
| Silver, Total | ND | mg/kg | 0.56 | 1 6010B | 0910 13:30 0911 15:05 | AI |
| Sodium, Total | ND | mg/kg | 110 | 1 6010B | 0910 13:30 0911 15:05 | AI |
| Thallium, Total | ND | mg/kg | 1.1 | 1 6010B | 0910 13:30 0911 15:05 | AI |
| Vanadium, Total | 8.3 | mg/kg | 0.56 | 1 6010B | 0910 13:30 0911 15:05 | AI |
| Zinc, Total | 34 | mg/kg | 2.8 | 1 6010B | 0910 13:30 0911 15:05 | AI |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0912 01:12 | PD |
| Methylene chloride | ND | ug/kg | 30. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 4.5 | | | |
| Chloroform | ND | ug/kg | 4.5 | | | |
| Carbon tetrachloride | ND | ug/kg | 3.0 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 10. | | | |
| Dibromochloromethane | ND | ug/kg | 3.0 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 4.5 | | | |
| Tetrachloroethene | 110 | ug/kg | 3.0 | | | |
| Chlorobenzene | ND | ug/kg | 3.0 | | | |
| Trichlorofluoromethane | ND | ug/kg | 15. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-19
PWG-DW-2008-100 (7-7.5')

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|--------|-------|-----|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0912 01:12 PD | | |
| 1,2-Dichloroethane | ND | ug/kg | 3.0 | | | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 3.0 | | | | | |
| Bromodichloromethane | ND | ug/kg | 3.0 | | | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 3.0 | | | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 3.0 | | | | | |
| 1,1-Dichloropropene | ND | ug/kg | 15. | | | | | |
| Bromoform | ND | ug/kg | 12. | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 3.0 | | | | | |
| Benzene | ND | ug/kg | 3.0 | | | | | |
| Toluene | ND | ug/kg | 4.5 | | | | | |
| Ethylbenzene | ND | ug/kg | 3.0 | | | | | |
| Chloromethane | ND | ug/kg | 15. | | | | | |
| Bromomethane | ND | ug/kg | 6.0 | | | | | |
| Vinyl chloride | ND | ug/kg | 6.0 | | | | | |
| Chloroethane | ND | ug/kg | 6.0 | | | | | |
| 1,1-Dichloroethene | ND | ug/kg | 3.0 | | | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 4.5 | | | | | |
| Trichloroethene | ND | ug/kg | 3.0 | | | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 15. | | | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 15. | | | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 15. | | | | | |
| Methyl tert butyl ether | ND | ug/kg | 6.0 | | | | | |
| p/m-Xylene | ND | ug/kg | 6.0 | | | | | |
| o-Xylene | ND | ug/kg | 6.0 | | | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 3.0 | | | | | |
| Dibromomethane | ND | ug/kg | 30. | | | | | |
| Styrene | ND | ug/kg | 6.0 | | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 30. | | | | | |
| Acetone | ND | ug/kg | 30. | | | | | |
| Carbon disulfide | ND | ug/kg | 30. | | | | | |
| 2-Butanone | ND | ug/kg | 30. | | | | | |
| Vinyl acetate | ND | ug/kg | 30. | | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 30. | | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 30. | | | | | |
| 2-Hexanone | ND | ug/kg | 30. | | | | | |
| Bromochloromethane | ND | ug/kg | 15. | | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 15. | | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 12. | | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 15. | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 3.0 | | | | | |
| Bromobenzene | ND | ug/kg | 15. | | | | | |
| n-Butylbenzene | ND | ug/kg | 3.0 | | | | | |
| sec-Butylbenzene | ND | ug/kg | 3.0 | | | | | |
| tert-Butylbenzene | ND | ug/kg | 15. | | | | | |
| o-Chlorotoluene | ND | ug/kg | 15. | | | | | |
| p-Chlorotoluene | ND | ug/kg | 15. | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 15. | | | | | |
| Hexachlorobutadiene | ND | ug/kg | 15. | | | | | |
| Isopropylbenzene | ND | ug/kg | 3.0 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-19
PWG-DW-2008-100 (7-7.5')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|--------------------------|----|
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0912 01:12 PD | |
| p-Isopropyltoluene | ND | ug/kg | 3.0 | | | |
| Naphthalene | ND | ug/kg | 15. | | | |
| Acrylonitrile | ND | ug/kg | 30. | | | |
| n-Propylbenzene | ND | ug/kg | 3.0 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 15. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 15. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 15. | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 15. | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 12. | | | |
| 4-Ethyltoluene | ND | ug/kg | 12. | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 12. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 107 | % | 70-130 | | | |
| Toluene-d8 | 110 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 122 | % | 70-130 | | | |
| Dibromofluoromethane | 105 | % | 70-130 | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 0911 03:30 0915 21:40 PS | |
| Acenaphthene | ND | ug/kg | 400 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 400 | | | |
| Hexachlorobenzene | ND | ug/kg | 400 | | | |
| Bis(2-chloroethyl)ether | ND | ug/kg | 400 | | | |
| 2-Chloronaphthalene | ND | ug/kg | 480 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 400 | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 400 | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 400 | | | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 800 | | | |
| 2,4-Dinitrotoluene | ND | ug/kg | 400 | | | |
| 2,6-Dinitrotoluene | ND | ug/kg | 400 | | | |
| Fluoranthene | ND | ug/kg | 400 | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/kg | 400 | | | |
| 4-Bromophenyl phenyl ether | ND | ug/kg | 400 | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/kg | 400 | | | |
| Bis(2-chloroethoxy)methane | ND | ug/kg | 400 | | | |
| Hexachlorobutadiene | ND | ug/kg | 800 | | | |
| Hexachlorocyclopentadiene | ND | ug/kg | 800 | | | |
| Hexachloroethane | ND | ug/kg | 400 | | | |
| Isophorone | ND | ug/kg | 400 | | | |
| Naphthalene | ND | ug/kg | 400 | | | |
| Nitrobenzene | ND | ug/kg | 400 | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/kg | 1200 | | | |
| n-Nitrosodi-n-propylamine | ND | ug/kg | 400 | | | |
| Bis(2-Ethylhexyl)phthalate | ND | ug/kg | 800 | | | |
| Butyl benzyl phthalate | ND | ug/kg | 400 | | | |
| Di-n-butylphthalate | ND | ug/kg | 400 | | | |
| Di-n-octylphthalate | ND | ug/kg | 400 | | | |
| Diethyl phthalate | ND | ug/kg | 400 | | | |
| Dimethyl phthalate | ND | ug/kg | 400 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-19
PWG-DW-2008-100 (7-7.5')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 8270C | 0911 03:30 0915 21:40 PS | |
| Benzo(a)anthracene | ND | ug/kg | 400 | | | |
| Benzo(a)pyrene | ND | ug/kg | 400 | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 400 | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 400 | | | |
| Chrysene | ND | ug/kg | 400 | | | |
| Acenaphthylene | ND | ug/kg | 400 | | | |
| Anthracene | ND | ug/kg | 400 | | | |
| Benzo(ghi)perylene | ND | ug/kg | 400 | | | |
| Fluorene | ND | ug/kg | 400 | | | |
| Phenanthrene | ND | ug/kg | 400 | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 400 | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 400 | | | |
| Pyrene | ND | ug/kg | 400 | | | |
| Biphenyl | ND | ug/kg | 400 | | | |
| 4-Chloroaniline | ND | ug/kg | 400 | | | |
| 2-Nitroaniline | ND | ug/kg | 400 | | | |
| 3-Nitroaniline | ND | ug/kg | 400 | | | |
| 4-Nitroaniline | ND | ug/kg | 560 | | | |
| Dibenzofuran | ND | ug/kg | 400 | | | |
| 2-Methylnaphthalene | ND | ug/kg | 400 | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/kg | 1600 | | | |
| Acetophenone | ND | ug/kg | 1600 | | | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 400 | | | |
| p-Chloro-M-Cresol | ND | ug/kg | 400 | | | |
| 2-Chlorophenol | ND | ug/kg | 480 | | | |
| 2,4-Dichlorophenol | ND | ug/kg | 800 | | | |
| 2,4-Dimethylphenol | ND | ug/kg | 400 | | | |
| 2-Nitrophenol | ND | ug/kg | 1600 | | | |
| 4-Nitrophenol | ND | ug/kg | 800 | | | |
| 2,4-Dinitrophenol | ND | ug/kg | 1600 | | | |
| 4,6-Dinitro-o-cresol | ND | ug/kg | 1600 | | | |
| Pentachlorophenol | ND | ug/kg | 1600 | | | |
| Phenol | ND | ug/kg | 560 | | | |
| 2-Methylphenol | ND | ug/kg | 480 | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/kg | 480 | | | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 400 | | | |
| Benzoic Acid | ND | ug/kg | 4000 | | | |
| Benzyl Alcohol | ND | ug/kg | 800 | | | |
| Carbazole | ND | ug/kg | 400 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 85.0 | % | 25-120 | | | |
| Phenol-d6 | 84.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 71.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 69.0 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 89.0 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 67.0 | % | 18-120 | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 8270C | 0911 03:30 0913 15:23 AK | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-19
PWG-DW-2008-100 (7-7.5')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C-SIM cont'd | | | | 1 8270C | 0911 03:30 0913 15:23 AK | |
| Acenaphthene | ND | ug/kg | 80. | | | |
| 2-Chloronaphthalene | ND | ug/kg | 80. | | | |
| Fluoranthene | 150 | ug/kg | 80 | | | |
| Hexachlorobutadiene | ND | ug/kg | 200 | | | |
| Naphthalene | ND | ug/kg | 80. | | | |
| Benzo(a)anthracene | ND | ug/kg | 80. | | | |
| Benzo(a)pyrene | ND | ug/kg | 80. | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 80. | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 80. | | | |
| Chrysene | ND | ug/kg | 80. | | | |
| Acenaphthylene | ND | ug/kg | 80. | | | |
| Anthracene | ND | ug/kg | 80. | | | |
| Benzo(ghi)perylene | ND | ug/kg | 80. | | | |
| Fluorene | ND | ug/kg | 80. | | | |
| Phenanthrene | ND | ug/kg | 80. | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 80. | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 80. | | | |
| Pyrene | 160 | ug/kg | 80 | | | |
| 2-Methylnaphthalene | ND | ug/kg | 80. | | | |
| Pentachlorophenol | ND | ug/kg | 320 | | | |
| Hexachlorobenzene | ND | ug/kg | 320 | | | |
| Hexachloroethane | ND | ug/kg | 320 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 73.0 | % | 25-120 | | | |
| Phenol-d6 | 77.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 65.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 68.0 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 66.0 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 64.0 | % | 18-120 | | | |
| Petroleum Hydrocarbon Quantitation by GC-FID | | | | 1 8015B(M) | 0911 00:15 0912 13:11 RT | |
| TPH | 72400 | ug/kg | 40200 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| o-Terphenyl | 68.0 | % | 40-140 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0813344-20 **Date Collected:** 08-SEP-2008 14:00
Sample Matrix: PWG-LP-2008-01 (7.75-8.25') **Date Received :** 09-SEP-2008
Condition of Sample: SOIL **Date Reported :** 25-SEP-2008
Field Prep: None
Number & Type of Containers: 3-Amber,1-Vial

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-----------------------|----|
| Solids, Total | 85 | % | 0.10 | 30 2540G | 0910 18:40 | NM |
| Total Metals | | | | | | |
| Aluminum, Total | 1500 | mg/kg | 5.6 | 1 6010B | 0910 13:30 0911 15:09 | AI |
| Antimony, Total | ND | mg/kg | 2.8 | 1 6010B | 0910 13:30 0911 15:09 | AI |
| Arsenic, Total | 1.1 | mg/kg | 0.56 | 1 6010B | 0910 13:30 0911 15:09 | AI |
| Barium, Total | 12 | mg/kg | 0.56 | 1 6010B | 0910 13:30 0911 15:09 | AI |
| Beryllium, Total | ND | mg/kg | 0.28 | 1 6010B | 0910 13:30 0911 15:09 | AI |
| Cadmium, Total | ND | mg/kg | 0.56 | 1 6010B | 0910 13:30 0911 15:09 | AI |
| Calcium, Total | 710 | mg/kg | 5.6 | 1 6010B | 0910 13:30 0911 15:09 | AI |
| Chromium, Total | 5.6 | mg/kg | 0.56 | 1 6010B | 0910 13:30 0911 15:09 | AI |
| Cobalt, Total | 2.0 | mg/kg | 1.1 | 1 6010B | 0910 13:30 0911 15:09 | AI |
| Copper, Total | 160 | mg/kg | 0.56 | 1 6010B | 0910 13:30 0911 15:09 | AI |
| Iron, Total | 10000 | mg/kg | 2.8 | 1 6010B | 0910 13:30 0911 15:09 | AI |
| Lead, Total | 59 | mg/kg | 2.8 | 1 6010B | 0910 13:30 0911 15:09 | AI |
| Magnesium, Total | 700 | mg/kg | 5.6 | 1 6010B | 0910 13:30 0911 15:09 | AI |
| Manganese, Total | 66 | mg/kg | 0.56 | 1 6010B | 0910 13:30 0911 15:09 | AI |
| Mercury, Total | 0.10 | mg/kg | 0.09 | 1 7471A | 0911 23:30 0912 14:43 | RC |
| Nickel, Total | 5.4 | mg/kg | 1.4 | 1 6010B | 0910 13:30 0911 15:09 | AI |
| Potassium, Total | ND | mg/kg | 140 | 1 6010B | 0910 13:30 0911 15:09 | AI |
| Selenium, Total | ND | mg/kg | 1.1 | 1 6010B | 0910 13:30 0911 15:09 | AI |
| Silver, Total | ND | mg/kg | 0.56 | 1 6010B | 0910 13:30 0911 15:09 | AI |
| Sodium, Total | ND | mg/kg | 110 | 1 6010B | 0910 13:30 0911 15:09 | AI |
| Thallium, Total | ND | mg/kg | 1.1 | 1 6010B | 0910 13:30 0911 15:09 | AI |
| Vanadium, Total | 3.8 | mg/kg | 0.56 | 1 6010B | 0910 13:30 0911 15:09 | AI |
| Zinc, Total | 360 | mg/kg | 2.8 | 1 6010B | 0910 13:30 0911 15:09 | AI |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0912 01:48 | PD |
| Methylene chloride | ND | ug/kg | 29. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 4.4 | | | |
| Chloroform | ND | ug/kg | 4.4 | | | |
| Carbon tetrachloride | ND | ug/kg | 2.9 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 10. | | | |
| Dibromochloromethane | ND | ug/kg | 2.9 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 4.4 | | | |
| Tetrachloroethene | 120 | ug/kg | 2.9 | | | |
| Chlorobenzene | ND | ug/kg | 2.9 | | | |
| Trichlorofluoromethane | ND | ug/kg | 15. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-20
PWG-LP-2008-01 (7.75-8.25')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---------------------------------------|--------|-------|-----|------------|-------|---------------|----|
| | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0912 01:48 PD | |
| 1,2-Dichloroethane | ND | ug/kg | 2.9 | | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 2.9 | | | | |
| Bromodichloromethane | ND | ug/kg | 2.9 | | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 2.9 | | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 2.9 | | | | |
| 1,1-Dichloropropene | ND | ug/kg | 15. | | | | |
| Bromoform | ND | ug/kg | 12. | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 2.9 | | | | |
| Benzene | ND | ug/kg | 2.9 | | | | |
| Toluene | ND | ug/kg | 4.4 | | | | |
| Ethylbenzene | ND | ug/kg | 2.9 | | | | |
| Chloromethane | ND | ug/kg | 15. | | | | |
| Bromomethane | ND | ug/kg | 5.9 | | | | |
| Vinyl chloride | ND | ug/kg | 5.9 | | | | |
| Chloroethane | ND | ug/kg | 5.9 | | | | |
| 1,1-Dichloroethene | ND | ug/kg | 2.9 | | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 4.4 | | | | |
| Trichloroethene | 8.7 | ug/kg | 2.9 | | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 15. | | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 15. | | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 15. | | | | |
| Methyl tert butyl ether | ND | ug/kg | 5.9 | | | | |
| p/m-Xylene | ND | ug/kg | 5.9 | | | | |
| o-Xylene | ND | ug/kg | 5.9 | | | | |
| cis-1,2-Dichloroethene | 5.3 | ug/kg | 2.9 | | | | |
| Dibromomethane | ND | ug/kg | 29. | | | | |
| Styrene | ND | ug/kg | 5.9 | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 29. | | | | |
| Acetone | ND | ug/kg | 29. | | | | |
| Carbon disulfide | ND | ug/kg | 29. | | | | |
| 2-Butanone | ND | ug/kg | 29. | | | | |
| Vinyl acetate | ND | ug/kg | 29. | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 29. | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 29. | | | | |
| 2-Hexanone | ND | ug/kg | 29. | | | | |
| Bromochloromethane | ND | ug/kg | 15. | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 15. | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 12. | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 15. | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 2.9 | | | | |
| Bromobenzene | ND | ug/kg | 15. | | | | |
| n-Butylbenzene | ND | ug/kg | 2.9 | | | | |
| sec-Butylbenzene | ND | ug/kg | 2.9 | | | | |
| tert-Butylbenzene | ND | ug/kg | 15. | | | | |
| o-Chlorotoluene | ND | ug/kg | 15. | | | | |
| p-Chlorotoluene | ND | ug/kg | 15. | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 15. | | | | |
| Hexachlorobutadiene | ND | ug/kg | 15. | | | | |
| Isopropylbenzene | ND | ug/kg | 2.9 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-20
PWG-LP-2008-01 (7.75-8.25')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|-----------------------|----|
| <hr/> | | | | | | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0912 01:48 | PD |
| p-Isopropyltoluene | ND | ug/kg | 2.9 | | | |
| Naphthalene | ND | ug/kg | 15. | | | |
| Acrylonitrile | ND | ug/kg | 29. | | | |
| n-Propylbenzene | ND | ug/kg | 2.9 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 15. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 15. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 15. | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 15. | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 12. | | | |
| 4-Ethyltoluene | ND | ug/kg | 12. | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 12. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 110 | % | 70-130 | | | |
| Toluene-d8 | 111 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 124 | % | 70-130 | | | |
| Dibromofluoromethane | 103 | % | 70-130 | | | |
| <hr/> | | | | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 0911 21:40 0913 18:33 | PS |
| Acenaphthene | ND | ug/kg | 390 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 390 | | | |
| Hexachlorobenzene | ND | ug/kg | 390 | | | |
| Bis(2-chloroethyl)ether | ND | ug/kg | 390 | | | |
| 2-Chloronaphthalene | ND | ug/kg | 470 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 390 | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 390 | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 390 | | | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 780 | | | |
| 2,4-Dinitrotoluene | ND | ug/kg | 390 | | | |
| 2,6-Dinitrotoluene | ND | ug/kg | 390 | | | |
| Fluoranthene | ND | ug/kg | 390 | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/kg | 390 | | | |
| 4-Bromophenyl phenyl ether | ND | ug/kg | 390 | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/kg | 390 | | | |
| Bis(2-chloroethoxy)methane | ND | ug/kg | 390 | | | |
| Hexachlorobutadiene | ND | ug/kg | 780 | | | |
| Hexachlorocyclopentadiene | ND | ug/kg | 780 | | | |
| Hexachloroethane | ND | ug/kg | 390 | | | |
| Isophorone | ND | ug/kg | 390 | | | |
| Naphthalene | ND | ug/kg | 390 | | | |
| Nitrobenzene | ND | ug/kg | 390 | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/kg | 1200 | | | |
| n-Nitrosodi-n-propylamine | ND | ug/kg | 390 | | | |
| Bis(2-Ethylhexyl)phthalate | ND | ug/kg | 780 | | | |
| Butyl benzyl phthalate | ND | ug/kg | 390 | | | |
| Di-n-butylphthalate | ND | ug/kg | 390 | | | |
| Di-n-octylphthalate | ND | ug/kg | 390 | | | |
| Diethyl phthalate | ND | ug/kg | 390 | | | |
| Dimethyl phthalate | ND | ug/kg | 390 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-20
PWG-LP-2008-01 (7.75-8.25')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---|----------|-------|-------------|------------|-------|-----------------------|----|
| | | | | | PREP | ANAL | |
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 | 8270C | 0911 21:40 0913 18:33 | PS |
| Benzo(a)anthracene | ND | ug/kg | 390 | | | | |
| Benzo(a)pyrene | ND | ug/kg | 390 | | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 390 | | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 390 | | | | |
| Chrysene | ND | ug/kg | 390 | | | | |
| Acenaphthylene | ND | ug/kg | 390 | | | | |
| Anthracene | ND | ug/kg | 390 | | | | |
| Benzo(ghi)perylene | ND | ug/kg | 390 | | | | |
| Fluorene | ND | ug/kg | 390 | | | | |
| Phenanthrene | ND | ug/kg | 390 | | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 390 | | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 390 | | | | |
| Pyrene | ND | ug/kg | 390 | | | | |
| Biphenyl | ND | ug/kg | 390 | | | | |
| 4-Chloroaniline | ND | ug/kg | 390 | | | | |
| 2-Nitroaniline | ND | ug/kg | 390 | | | | |
| 3-Nitroaniline | ND | ug/kg | 390 | | | | |
| 4-Nitroaniline | ND | ug/kg | 550 | | | | |
| Dibenzofuran | ND | ug/kg | 390 | | | | |
| 2-Methylnaphthalene | ND | ug/kg | 390 | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/kg | 1600 | | | | |
| Acetophenone | ND | ug/kg | 1600 | | | | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 390 | | | | |
| P-Chloro-M-Cresol | ND | ug/kg | 390 | | | | |
| 2-Chlorophenol | ND | ug/kg | 470 | | | | |
| 2,4-Dichlorophenol | ND | ug/kg | 780 | | | | |
| 2,4-Dimethylphenol | ND | ug/kg | 390 | | | | |
| 2-Nitrophenol | ND | ug/kg | 1600 | | | | |
| 4-Nitrophenol | ND | ug/kg | 780 | | | | |
| 2,4-Dinitrophenol | ND | ug/kg | 1600 | | | | |
| 4,6-Dinitro-o-cresol | ND | ug/kg | 1600 | | | | |
| Pentachlorophenol | ND | ug/kg | 1600 | | | | |
| Phenol | ND | ug/kg | 550 | | | | |
| 2-Methylphenol | ND | ug/kg | 470 | | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/kg | 470 | | | | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 390 | | | | |
| Benzoic Acid | ND | ug/kg | 3900 | | | | |
| Benzyl Alcohol | ND | ug/kg | 780 | | | | |
| Carbazole | ND | ug/kg | 390 | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | |
| 2-Fluorophenol | 73.0 | % | 25-120 | | | | |
| Phenol-d6 | 79.0 | % | 10-120 | | | | |
| Nitrobenzene-d5 | 71.0 | % | 23-120 | | | | |
| 2-Fluorobiphenyl | 71.0 | % | 30-120 | | | | |
| 2,4,6-Tribromophenol | 68.0 | % | 19-120 | | | | |
| 4-Terphenyl-d14 | 74.0 | % | 18-120 | | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 | 8270C | 0911 21:40 0914 07:38 | AK |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-20
PWG-LP-2008-01 (7.75-8.25')

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---|----------|-------|-------------|-----|--------|------------|------------|----|
| | | | | | | PREP | ANAL | |
| Semivolatile Organics by EPA 8270C-SIM cont'd | | | | 1 | 8270C | 0911 21:40 | 0914 07:38 | AK |
| Acenaphthene | ND | ug/kg | 16. | | | | | |
| 2-Chloronaphthalene | ND | ug/kg | 16. | | | | | |
| Fluoranthene | 75 | ug/kg | 16 | | | | | |
| Hexachlorobutadiene | ND | ug/kg | 39. | | | | | |
| Naphthalene | ND | ug/kg | 16. | | | | | |
| Benzo(a)anthracene | 96 | ug/kg | 16 | | | | | |
| Benzo(a)pyrene | 120 | ug/kg | 16 | | | | | |
| Benzo(b)fluoranthene | 110 | ug/kg | 16 | | | | | |
| Benzo(k)fluoranthene | 100 | ug/kg | 16 | | | | | |
| Chrysene | 77 | ug/kg | 16 | | | | | |
| Acenaphthylene | 47 | ug/kg | 16 | | | | | |
| Anthracene | 17 | ug/kg | 16 | | | | | |
| Benzo(ghi)perylene | 100 | ug/kg | 16 | | | | | |
| Fluorene | ND | ug/kg | 16. | | | | | |
| Phenanthrene | ND | ug/kg | 16. | | | | | |
| Dibenzo(a,h)anthracene | 49 | ug/kg | 16 | | | | | |
| Indeno(1,2,3-cd)Pyrene | 91 | ug/kg | 16 | | | | | |
| Pyrene | 75 | ug/kg | 16 | | | | | |
| 2-Methylnaphthalene | ND | ug/kg | 16. | | | | | |
| Pentachlorophenol | ND | ug/kg | 63. | | | | | |
| Hexachlorobenzene | ND | ug/kg | 63. | | | | | |
| Hexachloroethane | ND | ug/kg | 63. | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 2-Fluorophenol | 74.0 | % | 25-120 | | | | | |
| Phenol-d6 | 85.0 | % | 10-120 | | | | | |
| Nitrobenzene-d5 | 82.0 | % | 23-120 | | | | | |
| 2-Fluorobiphenyl | 75.0 | % | 30-120 | | | | | |
| 2,4,6-Tribromophenol | 57.0 | % | 19-120 | | | | | |
| 4-Terphenyl-d14 | 78.0 | % | 18-120 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0813344-21 | Date Collected: 08-SEP-2008 14:20 |
| PWG-DW-2008-16 (5.5-6') | Date Received : 09-SEP-2008 |
| Sample Matrix: SOIL | Date Reported : 25-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 3-Amber,1-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-----------------------|----|
| Solids, Total | 86 | % | 0.10 | 30 2540G | 0910 18:40 | NM |
| Total Metals | | | | | | |
| Aluminum, Total | 1600 | mg/kg | 5.4 | 1 6010B | 0910 13:30 0911 15:12 | AI |
| Antimony, Total | ND | mg/kg | 2.7 | 1 6010B | 0910 13:30 0911 15:12 | AI |
| Arsenic, Total | 1.5 | mg/kg | 0.54 | 1 6010B | 0910 13:30 0911 15:12 | AI |
| Barium, Total | 20 | mg/kg | 0.54 | 1 6010B | 0910 13:30 0911 15:12 | AI |
| Beryllium, Total | ND | mg/kg | 0.27 | 1 6010B | 0910 13:30 0911 15:12 | AI |
| Cadmium, Total | ND | mg/kg | 0.54 | 1 6010B | 0910 13:30 0911 15:12 | AI |
| Calcium, Total | 33000 | mg/kg | 54 | 1 6010B | 0910 13:30 0911 19:46 | AI |
| Chromium, Total | 3.1 | mg/kg | 0.54 | 1 6010B | 0910 13:30 0911 15:12 | AI |
| Cobalt, Total | 1.4 | mg/kg | 1.1 | 1 6010B | 0910 13:30 0911 15:12 | AI |
| Copper, Total | 5.8 | mg/kg | 0.54 | 1 6010B | 0910 13:30 0911 15:12 | AI |
| Iron, Total | 3200 | mg/kg | 2.7 | 1 6010B | 0910 13:30 0911 15:12 | AI |
| Lead, Total | 51 | mg/kg | 2.7 | 1 6010B | 0910 13:30 0911 15:12 | AI |
| Magnesium, Total | 19000 | mg/kg | 5.4 | 1 6010B | 0910 13:30 0911 15:12 | AI |
| Manganese, Total | 53 | mg/kg | 0.54 | 1 6010B | 0910 13:30 0911 15:12 | AI |
| Mercury, Total | ND | mg/kg | 0.08 | 1 7471A | 0911 23:30 0912 14:49 | RC |
| Nickel, Total | 2.8 | mg/kg | 1.4 | 1 6010B | 0910 13:30 0911 15:12 | AI |
| Potassium, Total | 220 | mg/kg | 140 | 1 6010B | 0910 13:30 0911 15:12 | AI |
| Selenium, Total | ND | mg/kg | 1.1 | 1 6010B | 0910 13:30 0911 15:12 | AI |
| Silver, Total | ND | mg/kg | 0.54 | 1 6010B | 0910 13:30 0911 15:12 | AI |
| Sodium, Total | ND | mg/kg | 110 | 1 6010B | 0910 13:30 0911 15:12 | AI |
| Thallium, Total | ND | mg/kg | 1.1 | 1 6010B | 0910 13:30 0911 15:12 | AI |
| Vanadium, Total | 4.8 | mg/kg | 0.54 | 1 6010B | 0910 13:30 0911 15:12 | AI |
| Zinc, Total | 47 | mg/kg | 2.7 | 1 6010B | 0910 13:30 0911 15:12 | AI |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0912 14:29 | PD |
| Methylene chloride | ND | ug/kg | 29. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 4.4 | | | |
| Chloroform | ND | ug/kg | 4.4 | | | |
| Carbon tetrachloride | ND | ug/kg | 2.9 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 10. | | | |
| Dibromochloromethane | ND | ug/kg | 2.9 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 4.4 | | | |
| Tetrachloroethene | 30 | ug/kg | 2.9 | | | |
| Chlorobenzene | ND | ug/kg | 2.9 | | | |
| Trichlorofluoromethane | ND | ug/kg | 14. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-21
PWG-DW-2008-16 (5.5-6')

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|--------|-------|-----|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0912 14:29 PD | | |
| 1,2-Dichloroethane | ND | ug/kg | 2.9 | | | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 2.9 | | | | | |
| Bromodichloromethane | ND | ug/kg | 2.9 | | | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 2.9 | | | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 2.9 | | | | | |
| 1,1-Dichloropropene | ND | ug/kg | 14. | | | | | |
| Bromoform | ND | ug/kg | 12. | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 2.9 | | | | | |
| Benzene | ND | ug/kg | 2.9 | | | | | |
| Toluene | ND | ug/kg | 4.4 | | | | | |
| Ethylbenzene | ND | ug/kg | 2.9 | | | | | |
| Chloromethane | ND | ug/kg | 14. | | | | | |
| Bromomethane | ND | ug/kg | 5.8 | | | | | |
| Vinyl chloride | ND | ug/kg | 5.8 | | | | | |
| Chloroethane | ND | ug/kg | 5.8 | | | | | |
| 1,1-Dichloroethene | ND | ug/kg | 2.9 | | | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 4.4 | | | | | |
| Trichloroethene | ND | ug/kg | 2.9 | | | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 14. | | | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 14. | | | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 14. | | | | | |
| Methyl tert butyl ether | ND | ug/kg | 5.8 | | | | | |
| p/m-Xylene | ND | ug/kg | 5.8 | | | | | |
| o-Xylene | ND | ug/kg | 5.8 | | | | | |
| cis-1,2-Dichloroethene | 3.0 | ug/kg | 2.9 | | | | | |
| Dibromomethane | ND | ug/kg | 29. | | | | | |
| Styrene | ND | ug/kg | 5.8 | | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 29. | | | | | |
| Acetone | ND | ug/kg | 29. | | | | | |
| Carbon disulfide | ND | ug/kg | 29. | | | | | |
| 2-Butanone | ND | ug/kg | 29. | | | | | |
| Vinyl acetate | ND | ug/kg | 29. | | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 29. | | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 29. | | | | | |
| 2-Hexanone | ND | ug/kg | 29. | | | | | |
| Bromochloromethane | ND | ug/kg | 14. | | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 14. | | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 12. | | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 14. | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 2.9 | | | | | |
| Bromobenzene | ND | ug/kg | 14. | | | | | |
| n-Butylbenzene | ND | ug/kg | 2.9 | | | | | |
| sec-Butylbenzene | ND | ug/kg | 2.9 | | | | | |
| tert-Butylbenzene | ND | ug/kg | 14. | | | | | |
| o-Chlorotoluene | ND | ug/kg | 14. | | | | | |
| p-Chlorotoluene | ND | ug/kg | 14. | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 14. | | | | | |
| Hexachlorobutadiene | ND | ug/kg | 14. | | | | | |
| Isopropylbenzene | ND | ug/kg | 2.9 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-21
PWG-DW-2008-16 (5.5-6')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|--------------------------|----|
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0912 14:29 PD | |
| p-Isopropyltoluene | ND | ug/kg | 2.9 | | | |
| Naphthalene | ND | ug/kg | 14. | | | |
| Acrylonitrile | ND | ug/kg | 29. | | | |
| n-Propylbenzene | ND | ug/kg | 2.9 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 14. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 14. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 14. | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 14. | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 12. | | | |
| 4-Ethyltoluene | ND | ug/kg | 12. | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 12. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 97.0 | % | 70-130 | | | |
| Toluene-d8 | 107 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 116 | % | 70-130 | | | |
| Dibromofluoromethane | 99.0 | % | 70-130 | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 0911 03:30 0915 22:03 PS | |
| Acenaphthene | ND | ug/kg | 390 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 390 | | | |
| Hexachlorobenzene | ND | ug/kg | 390 | | | |
| Bis(2-chloroethyl)ether | ND | ug/kg | 390 | | | |
| 2-Chloronaphthalene | ND | ug/kg | 460 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 390 | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 390 | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 390 | | | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 780 | | | |
| 2,4-Dinitrotoluene | ND | ug/kg | 390 | | | |
| 2,6-Dinitrotoluene | ND | ug/kg | 390 | | | |
| Fluoranthene | ND | ug/kg | 390 | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/kg | 390 | | | |
| 4-Bromophenyl phenyl ether | ND | ug/kg | 390 | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/kg | 390 | | | |
| Bis(2-chloroethoxy)methane | ND | ug/kg | 390 | | | |
| Hexachlorobutadiene | ND | ug/kg | 780 | | | |
| Hexachlorocyclopentadiene | ND | ug/kg | 780 | | | |
| Hexachloroethane | ND | ug/kg | 390 | | | |
| Isophorone | ND | ug/kg | 390 | | | |
| Naphthalene | ND | ug/kg | 390 | | | |
| Nitrobenzene | ND | ug/kg | 390 | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/kg | 1200 | | | |
| n-Nitrosodi-n-propylamine | ND | ug/kg | 390 | | | |
| Bis(2-Ethylhexyl)phthalate | ND | ug/kg | 780 | | | |
| Butyl benzyl phthalate | ND | ug/kg | 390 | | | |
| Di-n-butylphthalate | ND | ug/kg | 390 | | | |
| Di-n-octylphthalate | ND | ug/kg | 390 | | | |
| Diethyl phthalate | ND | ug/kg | 390 | | | |
| Dimethyl phthalate | ND | ug/kg | 390 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-21
PWG-DW-2008-16 (5.5-6')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---|----------|-------|-------------|------------|-------|-----------------------|----|
| | | | | | PREP | ANAL | |
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 | 8270C | 0911 03:30 0915 22:03 | PS |
| Benzo(a)anthracene | ND | ug/kg | 390 | | | | |
| Benzo(a)pyrene | ND | ug/kg | 390 | | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 390 | | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 390 | | | | |
| Chrysene | ND | ug/kg | 390 | | | | |
| Acenaphthylene | ND | ug/kg | 390 | | | | |
| Anthracene | ND | ug/kg | 390 | | | | |
| Benzo(ghi)perylene | ND | ug/kg | 390 | | | | |
| Fluorene | ND | ug/kg | 390 | | | | |
| Phenanthrene | ND | ug/kg | 390 | | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 390 | | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 390 | | | | |
| Pyrene | ND | ug/kg | 390 | | | | |
| Biphenyl | ND | ug/kg | 390 | | | | |
| 4-Chloroaniline | ND | ug/kg | 390 | | | | |
| 2-Nitroaniline | ND | ug/kg | 390 | | | | |
| 3-Nitroaniline | ND | ug/kg | 390 | | | | |
| 4-Nitroaniline | ND | ug/kg | 540 | | | | |
| Dibenzofuran | ND | ug/kg | 390 | | | | |
| 2-Methylnaphthalene | ND | ug/kg | 390 | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/kg | 1600 | | | | |
| Acetophenone | ND | ug/kg | 1600 | | | | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 390 | | | | |
| P-Chloro-M-Cresol | ND | ug/kg | 390 | | | | |
| 2-Chlorophenol | ND | ug/kg | 460 | | | | |
| 2,4-Dichlorophenol | ND | ug/kg | 780 | | | | |
| 2,4-Dimethylphenol | ND | ug/kg | 390 | | | | |
| 2-Nitrophenol | ND | ug/kg | 1600 | | | | |
| 4-Nitrophenol | ND | ug/kg | 780 | | | | |
| 2,4-Dinitrophenol | ND | ug/kg | 1600 | | | | |
| 4,6-Dinitro-o-cresol | ND | ug/kg | 1600 | | | | |
| Pentachlorophenol | ND | ug/kg | 1600 | | | | |
| Phenol | ND | ug/kg | 540 | | | | |
| 2-Methylphenol | ND | ug/kg | 460 | | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/kg | 460 | | | | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 390 | | | | |
| Benzoic Acid | ND | ug/kg | 3900 | | | | |
| Benzyl Alcohol | ND | ug/kg | 780 | | | | |
| Carbazole | ND | ug/kg | 390 | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | |
| 2-Fluorophenol | 74.0 | % | 25-120 | | | | |
| Phenol-d6 | 75.0 | % | 10-120 | | | | |
| Nitrobenzene-d5 | 62.0 | % | 23-120 | | | | |
| 2-Fluorobiphenyl | 65.0 | % | 30-120 | | | | |
| 2,4,6-Tribromophenol | 84.0 | % | 19-120 | | | | |
| 4-Terphenyl-d14 | 69.0 | % | 18-120 | | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 | 8270C | 0911 03:30 0913 19:19 | AK |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-21
PWG-DW-2008-16 (5.5-6')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C-SIM cont'd | | | | 1 8270C | 0911 03:30 0913 19:19 AK | |
| Acenaphthene | ND | ug/kg | 78. | | | |
| 2-Chloronaphthalene | ND | ug/kg | 78. | | | |
| Fluoranthene | 160 | ug/kg | 78 | | | |
| Hexachlorobutadiene | ND | ug/kg | 190 | | | |
| Naphthalene | ND | ug/kg | 78. | | | |
| Benzo(a)anthracene | ND | ug/kg | 78. | | | |
| Benzo(a)pyrene | ND | ug/kg | 78. | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 78. | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 78. | | | |
| Chrysene | ND | ug/kg | 78. | | | |
| Acenaphthylene | ND | ug/kg | 78. | | | |
| Anthracene | ND | ug/kg | 78. | | | |
| Benzo(ghi)perylene | ND | ug/kg | 78. | | | |
| Fluorene | ND | ug/kg | 78. | | | |
| Phenanthrene | ND | ug/kg | 78. | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 78. | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 78. | | | |
| Pyrene | 160 | ug/kg | 78 | | | |
| 2-Methylnaphthalene | ND | ug/kg | 78. | | | |
| Pentachlorophenol | ND | ug/kg | 310 | | | |
| Hexachlorobenzene | ND | ug/kg | 310 | | | |
| Hexachloroethane | ND | ug/kg | 310 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 63.0 | % | 25-120 | | | |
| Phenol-d6 | 68.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 57.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 63.0 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 63.0 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 65.0 | % | 18-120 | | | |
| Petroleum Hydrocarbon Quantitation by GC-FID | | | | 1 8015B(M) | 0911 00:15 0912 14:18 RT | |
| TPH | ND | ug/kg | 38800 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| o-Terphenyl | 64.0 | % | 40-140 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0813344-22 | Date Collected: 08-SEP-2008 14:30 |
| PWG-DW-2008-17 (5.5-6') | Date Received : 09-SEP-2008 |
| Sample Matrix: SOIL | Date Reported : 25-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 3-Amber,1-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-----------------------|----|
| Solids, Total | 82 | % | 0.10 | 30 2540G | 0910 18:40 | NM |
| Total Metals | | | | | | |
| Aluminum, Total | 3700 | mg/kg | 5.6 | 1 6010B | 0910 13:30 0911 15:17 | AI |
| Antimony, Total | ND | mg/kg | 2.8 | 1 6010B | 0910 13:30 0911 15:17 | AI |
| Arsenic, Total | 3.2 | mg/kg | 0.56 | 1 6010B | 0910 13:30 0911 15:17 | AI |
| Barium, Total | 32 | mg/kg | 0.56 | 1 6010B | 0910 13:30 0911 15:17 | AI |
| Beryllium, Total | ND | mg/kg | 0.28 | 1 6010B | 0910 13:30 0911 15:17 | AI |
| Cadmium, Total | ND | mg/kg | 0.56 | 1 6010B | 0910 13:30 0911 15:17 | AI |
| Calcium, Total | 8200 | mg/kg | 5.6 | 1 6010B | 0910 13:30 0911 15:17 | AI |
| Chromium, Total | 12 | mg/kg | 0.56 | 1 6010B | 0910 13:30 0911 15:17 | AI |
| Cobalt, Total | 2.1 | mg/kg | 1.1 | 1 6010B | 0910 13:30 0911 15:17 | AI |
| Copper, Total | 20 | mg/kg | 0.56 | 1 6010B | 0910 13:30 0911 15:17 | AI |
| Iron, Total | 7700 | mg/kg | 2.8 | 1 6010B | 0910 13:30 0911 15:17 | AI |
| Lead, Total | 160 | mg/kg | 2.8 | 1 6010B | 0910 13:30 0911 15:17 | AI |
| Magnesium, Total | 5400 | mg/kg | 5.6 | 1 6010B | 0910 13:30 0911 15:17 | AI |
| Manganese, Total | 58 | mg/kg | 0.56 | 1 6010B | 0910 13:30 0911 15:17 | AI |
| Mercury, Total | 0.17 | mg/kg | 0.09 | 1 7471A | 0911 23:30 0912 14:51 | RC |
| Nickel, Total | 6.0 | mg/kg | 1.4 | 1 6010B | 0910 13:30 0911 15:17 | AI |
| Potassium, Total | 240 | mg/kg | 140 | 1 6010B | 0910 13:30 0911 15:17 | AI |
| Selenium, Total | ND | mg/kg | 1.1 | 1 6010B | 0910 13:30 0911 15:17 | AI |
| Silver, Total | ND | mg/kg | 0.56 | 1 6010B | 0910 13:30 0911 15:17 | AI |
| Sodium, Total | ND | mg/kg | 110 | 1 6010B | 0910 13:30 0911 15:17 | AI |
| Thallium, Total | ND | mg/kg | 1.1 | 1 6010B | 0910 13:30 0911 15:17 | AI |
| Vanadium, Total | 14 | mg/kg | 0.56 | 1 6010B | 0910 13:30 0911 15:17 | AI |
| Zinc, Total | 140 | mg/kg | 2.8 | 1 6010B | 0910 13:30 0911 15:17 | AI |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0912 15:05 | PD |
| Methylene chloride | ND | ug/kg | 30. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 4.6 | | | |
| Chloroform | ND | ug/kg | 4.6 | | | |
| Carbon tetrachloride | ND | ug/kg | 3.0 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 11. | | | |
| Dibromochloromethane | ND | ug/kg | 3.0 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 4.6 | | | |
| Tetrachloroethene | 190 | ug/kg | 3.0 | | | |
| Chlorobenzene | ND | ug/kg | 3.0 | | | |
| Trichlorofluoromethane | ND | ug/kg | 15. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-22
PWG-DW-2008-17 (5.5-6')

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|--------|-------|-----|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0912 15:05 PD | | |
| 1,2-Dichloroethane | ND | ug/kg | 3.0 | | | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 3.0 | | | | | |
| Bromodichloromethane | ND | ug/kg | 3.0 | | | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 3.0 | | | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 3.0 | | | | | |
| 1,1-Dichloropropene | ND | ug/kg | 15. | | | | | |
| Bromoform | ND | ug/kg | 12. | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 3.0 | | | | | |
| Benzene | ND | ug/kg | 3.0 | | | | | |
| Toluene | ND | ug/kg | 4.6 | | | | | |
| Ethylbenzene | ND | ug/kg | 3.0 | | | | | |
| Chloromethane | ND | ug/kg | 15. | | | | | |
| Bromomethane | ND | ug/kg | 6.1 | | | | | |
| Vinyl chloride | ND | ug/kg | 6.1 | | | | | |
| Chloroethane | ND | ug/kg | 6.1 | | | | | |
| 1,1-Dichloroethene | ND | ug/kg | 3.0 | | | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 4.6 | | | | | |
| Trichloroethene | 14 | ug/kg | 3.0 | | | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 15. | | | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 15. | | | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 15. | | | | | |
| Methyl tert butyl ether | ND | ug/kg | 6.1 | | | | | |
| p/m-Xylene | ND | ug/kg | 6.1 | | | | | |
| o-Xylene | ND | ug/kg | 6.1 | | | | | |
| cis-1,2-Dichloroethene | 86 | ug/kg | 3.0 | | | | | |
| Dibromomethane | ND | ug/kg | 30. | | | | | |
| Styrene | ND | ug/kg | 6.1 | | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 30. | | | | | |
| Acetone | ND | ug/kg | 30. | | | | | |
| Carbon disulfide | ND | ug/kg | 30. | | | | | |
| 2-Butanone | ND | ug/kg | 30. | | | | | |
| Vinyl acetate | ND | ug/kg | 30. | | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 30. | | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 30. | | | | | |
| 2-Hexanone | ND | ug/kg | 30. | | | | | |
| Bromochloromethane | ND | ug/kg | 15. | | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 15. | | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 12. | | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 15. | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 3.0 | | | | | |
| Bromobenzene | ND | ug/kg | 15. | | | | | |
| n-Butylbenzene | ND | ug/kg | 3.0 | | | | | |
| sec-Butylbenzene | ND | ug/kg | 3.0 | | | | | |
| tert-Butylbenzene | ND | ug/kg | 15. | | | | | |
| o-Chlorotoluene | ND | ug/kg | 15. | | | | | |
| p-Chlorotoluene | ND | ug/kg | 15. | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 15. | | | | | |
| Hexachlorobutadiene | ND | ug/kg | 15. | | | | | |
| Isopropylbenzene | ND | ug/kg | 3.0 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-22
PWG-DW-2008-17 (5.5-6')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|--------------------------|----|
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0912 15:05 PD | |
| p-Isopropyltoluene | ND | ug/kg | 3.0 | | | |
| Naphthalene | ND | ug/kg | 15. | | | |
| Acrylonitrile | ND | ug/kg | 30. | | | |
| n-Propylbenzene | ND | ug/kg | 3.0 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 15. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 15. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 15. | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 15. | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 12. | | | |
| 4-Ethyltoluene | ND | ug/kg | 12. | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 12. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 95.0 | % | 70-130 | | | |
| Toluene-d8 | 103 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 111 | % | 70-130 | | | |
| Dibromofluoromethane | 94.0 | % | 70-130 | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 0911 03:30 0915 22:27 PS | |
| Acenaphthene | ND | ug/kg | 810 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 810 | | | |
| Hexachlorobenzene | ND | ug/kg | 810 | | | |
| Bis(2-chloroethyl)ether | ND | ug/kg | 810 | | | |
| 2-Chloronaphthalene | ND | ug/kg | 980 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 810 | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 810 | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 810 | | | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 1600 | | | |
| 2,4-Dinitrotoluene | ND | ug/kg | 810 | | | |
| 2,6-Dinitrotoluene | ND | ug/kg | 810 | | | |
| Fluoranthene | ND | ug/kg | 810 | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/kg | 810 | | | |
| 4-Bromophenyl phenyl ether | ND | ug/kg | 810 | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/kg | 810 | | | |
| Bis(2-chloroethoxy)methane | ND | ug/kg | 810 | | | |
| Hexachlorobutadiene | ND | ug/kg | 1600 | | | |
| Hexachlorocyclopentadiene | ND | ug/kg | 1600 | | | |
| Hexachloroethane | ND | ug/kg | 810 | | | |
| Isophorone | ND | ug/kg | 810 | | | |
| Naphthalene | ND | ug/kg | 810 | | | |
| Nitrobenzene | ND | ug/kg | 810 | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/kg | 2400 | | | |
| n-Nitrosodi-n-propylamine | ND | ug/kg | 810 | | | |
| Bis(2-Ethylhexyl)phthalate | 2000 | ug/kg | 1600 | | | |
| Butyl benzyl phthalate | ND | ug/kg | 810 | | | |
| Di-n-butylphthalate | ND | ug/kg | 810 | | | |
| Di-n-octylphthalate | ND | ug/kg | 810 | | | |
| Diethyl phthalate | ND | ug/kg | 810 | | | |
| Dimethyl phthalate | ND | ug/kg | 810 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-22
PWG-DW-2008-17 (5.5-6')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---|----------|-------|-------------|------------|-------|-----------------------|----|
| | | | | | PREP | ANAL | |
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 | 8270C | 0911 03:30 0915 22:27 | PS |
| Benzo(a)anthracene | ND | ug/kg | 810 | | | | |
| Benzo(a)pyrene | ND | ug/kg | 810 | | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 810 | | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 810 | | | | |
| Chrysene | ND | ug/kg | 810 | | | | |
| Acenaphthylene | ND | ug/kg | 810 | | | | |
| Anthracene | ND | ug/kg | 810 | | | | |
| Benzo(ghi)perylene | ND | ug/kg | 810 | | | | |
| Fluorene | ND | ug/kg | 810 | | | | |
| Phenanthrene | ND | ug/kg | 810 | | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 810 | | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 810 | | | | |
| Pyrene | ND | ug/kg | 810 | | | | |
| Biphenyl | ND | ug/kg | 810 | | | | |
| 4-Chloroaniline | ND | ug/kg | 810 | | | | |
| 2-Nitroaniline | ND | ug/kg | 810 | | | | |
| 3-Nitroaniline | ND | ug/kg | 810 | | | | |
| 4-Nitroaniline | ND | ug/kg | 1100 | | | | |
| Dibenzofuran | ND | ug/kg | 810 | | | | |
| 2-Methylnaphthalene | ND | ug/kg | 810 | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/kg | 3200 | | | | |
| Acetophenone | ND | ug/kg | 3200 | | | | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 810 | | | | |
| P-Chloro-M-Cresol | ND | ug/kg | 810 | | | | |
| 2-Chlorophenol | ND | ug/kg | 980 | | | | |
| 2,4-Dichlorophenol | ND | ug/kg | 1600 | | | | |
| 2,4-Dimethylphenol | ND | ug/kg | 810 | | | | |
| 2-Nitrophenol | ND | ug/kg | 3200 | | | | |
| 4-Nitrophenol | ND | ug/kg | 1600 | | | | |
| 2,4-Dinitrophenol | ND | ug/kg | 3200 | | | | |
| 4,6-Dinitro-o-cresol | ND | ug/kg | 3200 | | | | |
| Pentachlorophenol | ND | ug/kg | 3200 | | | | |
| Phenol | ND | ug/kg | 1100 | | | | |
| 2-Methylphenol | ND | ug/kg | 980 | | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/kg | 980 | | | | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 810 | | | | |
| Benzoic Acid | ND | ug/kg | 8100 | | | | |
| Benzyl Alcohol | ND | ug/kg | 1600 | | | | |
| Carbazole | ND | ug/kg | 810 | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | |
| 2-Fluorophenol | 74.0 | % | 25-120 | | | | |
| Phenol-d6 | 78.0 | % | 10-120 | | | | |
| Nitrobenzene-d5 | 62.0 | % | 23-120 | | | | |
| 2-Fluorobiphenyl | 72.0 | % | 30-120 | | | | |
| 2,4,6-Tribromophenol | 104 | % | 19-120 | | | | |
| 4-Terphenyl-d14 | 74.0 | % | 18-120 | | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 | 8270C | 0911 03:30 0913 20:06 | AK |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-22
PWG-DW-2008-17 (5.5-6')

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---|----------|-------|-------------|-----|----------|------------|------------|----|
| | | | | | | PREP | ANAL | |
| Semivolatile Organics by EPA 8270C-SIM cont'd | | | | 1 | 8270C | 0911 03:30 | 0913 20:06 | AK |
| Acenaphthene | ND | ug/kg | 810 | | | | | |
| 2-Chloronaphthalene | ND | ug/kg | 810 | | | | | |
| Fluoranthene | ND | ug/kg | 810 | | | | | |
| Hexachlorobutadiene | ND | ug/kg | 2000 | | | | | |
| Naphthalene | ND | ug/kg | 810 | | | | | |
| Benzo(a)anthracene | ND | ug/kg | 810 | | | | | |
| Benzo(a)pyrene | ND | ug/kg | 810 | | | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 810 | | | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 810 | | | | | |
| Chrysene | ND | ug/kg | 810 | | | | | |
| Acenaphthylene | ND | ug/kg | 810 | | | | | |
| Anthracene | ND | ug/kg | 810 | | | | | |
| Benzo(ghi)perylene | ND | ug/kg | 810 | | | | | |
| Fluorene | ND | ug/kg | 810 | | | | | |
| Phenanthrene | ND | ug/kg | 810 | | | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 810 | | | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 810 | | | | | |
| Pyrene | ND | ug/kg | 810 | | | | | |
| 2-Methylnaphthalene | ND | ug/kg | 810 | | | | | |
| Pentachlorophenol | ND | ug/kg | 3200 | | | | | |
| Hexachlorobenzene | ND | ug/kg | 3200 | | | | | |
| Hexachloroethane | ND | ug/kg | 3200 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 2-Fluorophenol | ND | % | 25-120 | | | | | |
| Phenol-d6 | ND | % | 10-120 | | | | | |
| Nitrobenzene-d5 | ND | % | 23-120 | | | | | |
| 2-Fluorobiphenyl | ND | % | 30-120 | | | | | |
| 2,4,6-Tribromophenol | ND | % | 19-120 | | | | | |
| 4-Terphenyl-d14 | ND | % | 18-120 | | | | | |
| Petroleum Hydrocarbon Quantitation by GC-FID | | | | 1 | 8015B(M) | 0911 00:15 | 0912 13:44 | RT |
| TPH | 263000 | ug/kg | 40600 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| o-Terphenyl | 68.0 | % | 40-140 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0813344-23 | Date Collected: 08-SEP-2008 14:40 |
| PWG-DW-2008-18 (4-4.5') | Date Received : 09-SEP-2008 |
| Sample Matrix: SOIL | Date Reported : 25-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 3-Amber,1-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|--------------------------------|--------|-------|------|------------|------------|------------|----|
| | | | | | PREP | ANAL | |
| Solids, Total | 78 | % | 0.10 | 30 2540G | | 0910 18:40 | NM |
| Total Metals | | | | | | | |
| Aluminum, Total | 1500 | mg/kg | 6.0 | 1 6010B | 0910 13:30 | 0911 15:20 | AI |
| Antimony, Total | ND | mg/kg | 3.0 | 1 6010B | 0910 13:30 | 0911 15:20 | AI |
| Arsenic, Total | 0.76 | mg/kg | 0.60 | 1 6010B | 0910 13:30 | 0911 15:20 | AI |
| Barium, Total | 7.9 | mg/kg | 0.60 | 1 6010B | 0910 13:30 | 0911 15:20 | AI |
| Beryllium, Total | ND | mg/kg | 0.30 | 1 6010B | 0910 13:30 | 0911 15:20 | AI |
| Cadmium, Total | ND | mg/kg | 0.60 | 1 6010B | 0910 13:30 | 0911 15:20 | AI |
| Calcium, Total | 31000 | mg/kg | 60 | 1 6010B | 0910 13:30 | 0911 19:49 | AI |
| Chromium, Total | 7.8 | mg/kg | 0.60 | 1 6010B | 0910 13:30 | 0911 15:20 | AI |
| Cobalt, Total | 2.3 | mg/kg | 1.2 | 1 6010B | 0910 13:30 | 0911 15:20 | AI |
| Copper, Total | 42 | mg/kg | 0.60 | 1 6010B | 0910 13:30 | 0911 15:20 | AI |
| Iron, Total | 6000 | mg/kg | 3.0 | 1 6010B | 0910 13:30 | 0911 15:20 | AI |
| Lead, Total | 44 | mg/kg | 3.0 | 1 6010B | 0910 13:30 | 0911 15:20 | AI |
| Magnesium, Total | 18000 | mg/kg | 6.0 | 1 6010B | 0910 13:30 | 0911 15:20 | AI |
| Manganese, Total | 64 | mg/kg | 0.60 | 1 6010B | 0910 13:30 | 0911 15:20 | AI |
| Mercury, Total | ND | mg/kg | 0.10 | 1 7471A | 0911 23:30 | 0912 14:53 | RC |
| Nickel, Total | 5.4 | mg/kg | 1.5 | 1 6010B | 0910 13:30 | 0911 15:20 | AI |
| Potassium, Total | ND | mg/kg | 150 | 1 6010B | 0910 13:30 | 0911 15:20 | AI |
| Selenium, Total | ND | mg/kg | 1.2 | 1 6010B | 0910 13:30 | 0911 15:20 | AI |
| Silver, Total | ND | mg/kg | 0.60 | 1 6010B | 0910 13:30 | 0911 15:20 | AI |
| Sodium, Total | ND | mg/kg | 120 | 1 6010B | 0910 13:30 | 0911 15:20 | AI |
| Thallium, Total | ND | mg/kg | 1.2 | 1 6010B | 0910 13:30 | 0911 15:20 | AI |
| Vanadium, Total | 19 | mg/kg | 0.60 | 1 6010B | 0910 13:30 | 0911 15:20 | AI |
| Zinc, Total | 50 | mg/kg | 3.0 | 1 6010B | 0910 13:30 | 0911 15:20 | AI |
| Volatile Organics by EPA 8260B | | | | 1 8260B | | 0912 15:42 | PD |
| Methylene chloride | ND | ug/kg | 32. | | | | |
| 1,1-Dichloroethane | ND | ug/kg | 4.8 | | | | |
| Chloroform | ND | ug/kg | 4.8 | | | | |
| Carbon tetrachloride | ND | ug/kg | 3.2 | | | | |
| 1,2-Dichloropropane | ND | ug/kg | 11. | | | | |
| Dibromochloromethane | ND | ug/kg | 3.2 | | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 4.8 | | | | |
| Tetrachloroethene | 18 | ug/kg | 3.2 | | | | |
| Chlorobenzene | ND | ug/kg | 3.2 | | | | |
| Trichlorofluoromethane | ND | ug/kg | 16. | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-23
PWG-DW-2008-18 (4-4.5')

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|--------|-------|-----|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0912 15:42 PD | | |
| 1,2-Dichloroethane | ND | ug/kg | 3.2 | | | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 3.2 | | | | | |
| Bromodichloromethane | ND | ug/kg | 3.2 | | | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 3.2 | | | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 3.2 | | | | | |
| 1,1-Dichloropropene | ND | ug/kg | 16. | | | | | |
| Bromoform | ND | ug/kg | 13. | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 3.2 | | | | | |
| Benzene | ND | ug/kg | 3.2 | | | | | |
| Toluene | ND | ug/kg | 4.8 | | | | | |
| Ethylbenzene | ND | ug/kg | 3.2 | | | | | |
| Chloromethane | ND | ug/kg | 16. | | | | | |
| Bromomethane | ND | ug/kg | 6.4 | | | | | |
| Vinyl chloride | ND | ug/kg | 6.4 | | | | | |
| Chloroethane | ND | ug/kg | 6.4 | | | | | |
| 1,1-Dichloroethene | ND | ug/kg | 3.2 | | | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 4.8 | | | | | |
| Trichloroethene | ND | ug/kg | 3.2 | | | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 16. | | | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 16. | | | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 16. | | | | | |
| Methyl tert butyl ether | ND | ug/kg | 6.4 | | | | | |
| p/m-Xylene | ND | ug/kg | 6.4 | | | | | |
| o-Xylene | ND | ug/kg | 6.4 | | | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 3.2 | | | | | |
| Dibromomethane | ND | ug/kg | 32. | | | | | |
| Styrene | ND | ug/kg | 6.4 | | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 32. | | | | | |
| Acetone | ND | ug/kg | 32. | | | | | |
| Carbon disulfide | ND | ug/kg | 32. | | | | | |
| 2-Butanone | ND | ug/kg | 32. | | | | | |
| Vinyl acetate | ND | ug/kg | 32. | | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 32. | | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 32. | | | | | |
| 2-Hexanone | ND | ug/kg | 32. | | | | | |
| Bromochloromethane | ND | ug/kg | 16. | | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 16. | | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 13. | | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 16. | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 3.2 | | | | | |
| Bromobenzene | ND | ug/kg | 16. | | | | | |
| n-Butylbenzene | ND | ug/kg | 3.2 | | | | | |
| sec-Butylbenzene | ND | ug/kg | 3.2 | | | | | |
| tert-Butylbenzene | ND | ug/kg | 16. | | | | | |
| o-Chlorotoluene | ND | ug/kg | 16. | | | | | |
| p-Chlorotoluene | ND | ug/kg | 16. | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 16. | | | | | |
| Hexachlorobutadiene | ND | ug/kg | 16. | | | | | |
| Isopropylbenzene | ND | ug/kg | 3.2 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-23
PWG-DW-2008-18 (4-4.5')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|--------------------------|----|
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0912 15:42 PD | |
| p-Isopropyltoluene | ND | ug/kg | 3.2 | | | |
| Naphthalene | ND | ug/kg | 16. | | | |
| Acrylonitrile | ND | ug/kg | 32. | | | |
| n-Propylbenzene | ND | ug/kg | 3.2 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 16. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 16. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 16. | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 16. | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 13. | | | |
| 4-Ethyltoluene | ND | ug/kg | 13. | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 13. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 93.0 | % | 70-130 | | | |
| Toluene-d8 | 104 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 109 | % | 70-130 | | | |
| Dibromofluoromethane | 93.0 | % | 70-130 | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 0911 03:30 0913 15:03 PS | |
| Acenaphthene | ND | ug/kg | 850 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 850 | | | |
| Hexachlorobenzene | ND | ug/kg | 850 | | | |
| Bis(2-chloroethyl)ether | ND | ug/kg | 850 | | | |
| 2-Chloronaphthalene | ND | ug/kg | 1000 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 850 | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 850 | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 850 | | | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 1700 | | | |
| 2,4-Dinitrotoluene | ND | ug/kg | 850 | | | |
| 2,6-Dinitrotoluene | ND | ug/kg | 850 | | | |
| Fluoranthene | ND | ug/kg | 850 | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/kg | 850 | | | |
| 4-Bromophenyl phenyl ether | ND | ug/kg | 850 | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/kg | 850 | | | |
| Bis(2-chloroethoxy)methane | ND | ug/kg | 850 | | | |
| Hexachlorobutadiene | ND | ug/kg | 1700 | | | |
| Hexachlorocyclopentadiene | ND | ug/kg | 1700 | | | |
| Hexachloroethane | ND | ug/kg | 850 | | | |
| Isophorone | ND | ug/kg | 850 | | | |
| Naphthalene | ND | ug/kg | 850 | | | |
| Nitrobenzene | ND | ug/kg | 850 | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/kg | 2600 | | | |
| n-Nitrosodi-n-propylamine | ND | ug/kg | 850 | | | |
| Bis(2-Ethylhexyl)phthalate | ND | ug/kg | 1700 | | | |
| Butyl benzyl phthalate | ND | ug/kg | 850 | | | |
| Di-n-butylphthalate | ND | ug/kg | 850 | | | |
| Di-n-octylphthalate | ND | ug/kg | 850 | | | |
| Diethyl phthalate | ND | ug/kg | 850 | | | |
| Dimethyl phthalate | ND | ug/kg | 850 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-23
PWG-DW-2008-18 (4-4.5')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 8270C | 0911 03:30 0913 15:03 PS | |
| Benzo(a)anthracene | ND | ug/kg | 850 | | | |
| Benzo(a)pyrene | ND | ug/kg | 850 | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 850 | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 850 | | | |
| Chrysene | ND | ug/kg | 850 | | | |
| Acenaphthylene | ND | ug/kg | 850 | | | |
| Anthracene | ND | ug/kg | 850 | | | |
| Benzo(ghi)perylene | ND | ug/kg | 850 | | | |
| Fluorene | ND | ug/kg | 850 | | | |
| Phenanthrene | ND | ug/kg | 850 | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 850 | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 850 | | | |
| Pyrene | ND | ug/kg | 850 | | | |
| Biphenyl | ND | ug/kg | 850 | | | |
| 4-Chloroaniline | ND | ug/kg | 850 | | | |
| 2-Nitroaniline | ND | ug/kg | 850 | | | |
| 3-Nitroaniline | ND | ug/kg | 850 | | | |
| 4-Nitroaniline | ND | ug/kg | 1200 | | | |
| Dibenzofuran | ND | ug/kg | 850 | | | |
| 2-Methylnaphthalene | ND | ug/kg | 850 | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/kg | 3400 | | | |
| Acetophenone | ND | ug/kg | 3400 | | | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 850 | | | |
| p-Chloro-M-Cresol | ND | ug/kg | 850 | | | |
| 2-Chlorophenol | ND | ug/kg | 1000 | | | |
| 2,4-Dichlorophenol | ND | ug/kg | 1700 | | | |
| 2,4-Dimethylphenol | ND | ug/kg | 850 | | | |
| 2-Nitrophenol | ND | ug/kg | 3400 | | | |
| 4-Nitrophenol | ND | ug/kg | 1700 | | | |
| 2,4-Dinitrophenol | ND | ug/kg | 3400 | | | |
| 4,6-Dinitro-o-cresol | ND | ug/kg | 3400 | | | |
| Pentachlorophenol | ND | ug/kg | 3400 | | | |
| Phenol | ND | ug/kg | 1200 | | | |
| 2-Methylphenol | ND | ug/kg | 1000 | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/kg | 1000 | | | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 850 | | | |
| Benzoic Acid | ND | ug/kg | 8500 | | | |
| Benzyl Alcohol | ND | ug/kg | 1700 | | | |
| Carbazole | ND | ug/kg | 850 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 61.0 | % | 25-120 | | | |
| Phenol-d6 | 62.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 50.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 49.0 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 74.0 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 50.0 | % | 18-120 | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 8270C | 0915 18:00 0916 16:59 AK | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-23
PWG-DW-2008-18 (4-4.5')

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---|----------|-------|-------------|-----|----------|------------|------------|----|
| | | | | | | PREP | ANAL | |
| Semivolatile Organics by EPA 8270C-SIM cont'd | | | | 1 | 8270C | 0915 18:00 | 0916 16:59 | AK |
| Acenaphthene | ND | ug/kg | 850 | | | | | |
| 2-Chloronaphthalene | ND | ug/kg | 850 | | | | | |
| Fluoranthene | ND | ug/kg | 850 | | | | | |
| Hexachlorobutadiene | ND | ug/kg | 2100 | | | | | |
| Naphthalene | ND | ug/kg | 850 | | | | | |
| Benzo(a)anthracene | ND | ug/kg | 850 | | | | | |
| Benzo(a)pyrene | ND | ug/kg | 850 | | | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 850 | | | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 850 | | | | | |
| Chrysene | ND | ug/kg | 850 | | | | | |
| Acenaphthylene | ND | ug/kg | 850 | | | | | |
| Anthracene | ND | ug/kg | 850 | | | | | |
| Benzo(ghi)perylene | ND | ug/kg | 850 | | | | | |
| Fluorene | ND | ug/kg | 850 | | | | | |
| Phenanthrene | ND | ug/kg | 850 | | | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 850 | | | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 850 | | | | | |
| Pyrene | ND | ug/kg | 850 | | | | | |
| 2-Methylnaphthalene | ND | ug/kg | 850 | | | | | |
| Pentachlorophenol | ND | ug/kg | 3400 | | | | | |
| Hexachlorobenzene | ND | ug/kg | 3400 | | | | | |
| Hexachloroethane | ND | ug/kg | 3400 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 2-Fluorophenol | ND | % | 25-120 | | | | | |
| Phenol-d6 | ND | % | 10-120 | | | | | |
| Nitrobenzene-d5 | ND | % | 23-120 | | | | | |
| 2-Fluorobiphenyl | ND | % | 30-120 | | | | | |
| 2,4,6-Tribromophenol | ND | % | 19-120 | | | | | |
| 4-Terphenyl-d14 | ND | % | 18-120 | | | | | |
| Petroleum Hydrocarbon Quantitation by GC-FID | | | | 1 | 8015B(M) | 0911 00:15 | 0912 14:52 | RT |
| TPH | 194000 | ug/kg | 42700 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| o-Terphenyl | 68.0 | % | 40-140 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0813344-24 | Date Collected: 08-SEP-2008 14:55 |
| PWG-DW-2008-19 (4.5-5') | Date Received : 09-SEP-2008 |
| Sample Matrix: SOIL | Date Reported : 25-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 3-Amber,1-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-----------------------|----|
| Solids, Total | 84 | % | 0.10 | 30 2540G | 0910 18:40 | NM |
| Total Metals | | | | | | |
| Aluminum, Total | 2500 | mg/kg | 5.6 | 1 6010B | 0910 13:30 0911 15:24 | AI |
| Antimony, Total | ND | mg/kg | 2.8 | 1 6010B | 0910 13:30 0911 15:24 | AI |
| Arsenic, Total | 1.6 | mg/kg | 0.56 | 1 6010B | 0910 13:30 0911 15:24 | AI |
| Barium, Total | 24 | mg/kg | 0.56 | 1 6010B | 0910 13:30 0911 15:24 | AI |
| Beryllium, Total | ND | mg/kg | 0.28 | 1 6010B | 0910 13:30 0911 15:24 | AI |
| Cadmium, Total | ND | mg/kg | 0.56 | 1 6010B | 0910 13:30 0911 15:24 | AI |
| Calcium, Total | 7200 | mg/kg | 5.6 | 1 6010B | 0910 13:30 0911 15:24 | AI |
| Chromium, Total | 6.8 | mg/kg | 0.56 | 1 6010B | 0910 13:30 0911 15:24 | AI |
| Cobalt, Total | 1.4 | mg/kg | 1.1 | 1 6010B | 0910 13:30 0911 15:24 | AI |
| Copper, Total | 12 | mg/kg | 0.56 | 1 6010B | 0910 13:30 0911 15:24 | AI |
| Iron, Total | 5000 | mg/kg | 2.8 | 1 6010B | 0910 13:30 0911 15:24 | AI |
| Lead, Total | 120 | mg/kg | 2.8 | 1 6010B | 0910 13:30 0911 15:24 | AI |
| Magnesium, Total | 4000 | mg/kg | 5.6 | 1 6010B | 0910 13:30 0911 15:24 | AI |
| Manganese, Total | 38 | mg/kg | 0.56 | 1 6010B | 0910 13:30 0911 15:24 | AI |
| Mercury, Total | ND | mg/kg | 0.09 | 1 7471A | 0911 23:30 0912 14:54 | RC |
| Nickel, Total | 3.5 | mg/kg | 1.4 | 1 6010B | 0910 13:30 0911 15:24 | AI |
| Potassium, Total | 180 | mg/kg | 140 | 1 6010B | 0910 13:30 0911 15:24 | AI |
| Selenium, Total | ND | mg/kg | 1.1 | 1 6010B | 0910 13:30 0911 15:24 | AI |
| Silver, Total | ND | mg/kg | 0.56 | 1 6010B | 0910 13:30 0911 15:24 | AI |
| Sodium, Total | ND | mg/kg | 110 | 1 6010B | 0910 13:30 0911 15:24 | AI |
| Thallium, Total | ND | mg/kg | 1.1 | 1 6010B | 0910 13:30 0911 15:24 | AI |
| Vanadium, Total | 8.4 | mg/kg | 0.56 | 1 6010B | 0910 13:30 0911 15:24 | AI |
| Zinc, Total | 110 | mg/kg | 2.8 | 1 6010B | 0910 13:30 0911 15:24 | AI |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0915 14:16 | PD |
| Methylene chloride | ND | ug/kg | 30. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 4.5 | | | |
| Chloroform | ND | ug/kg | 4.5 | | | |
| Carbon tetrachloride | ND | ug/kg | 3.0 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 10. | | | |
| Dibromochloromethane | ND | ug/kg | 3.0 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 4.5 | | | |
| Tetrachloroethene | 82 | ug/kg | 3.0 | | | |
| Chlorobenzene | ND | ug/kg | 3.0 | | | |
| Trichlorofluoromethane | ND | ug/kg | 15. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-24
PWG-DW-2008-19 (4.5-5')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---------------------------------------|--------|-------|-----|------------|-------|---------------|----|
| | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0915 14:16 PD | |
| 1,2-Dichloroethane | ND | ug/kg | 3.0 | | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 3.0 | | | | |
| Bromodichloromethane | ND | ug/kg | 3.0 | | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 3.0 | | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 3.0 | | | | |
| 1,1-Dichloropropene | ND | ug/kg | 15. | | | | |
| Bromoform | ND | ug/kg | 12. | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 3.0 | | | | |
| Benzene | ND | ug/kg | 3.0 | | | | |
| Toluene | ND | ug/kg | 4.5 | | | | |
| Ethylbenzene | ND | ug/kg | 3.0 | | | | |
| Chloromethane | ND | ug/kg | 15. | | | | |
| Bromomethane | ND | ug/kg | 6.0 | | | | |
| Vinyl chloride | ND | ug/kg | 6.0 | | | | |
| Chloroethane | ND | ug/kg | 6.0 | | | | |
| 1,1-Dichloroethene | ND | ug/kg | 3.0 | | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 4.5 | | | | |
| Trichloroethene | ND | ug/kg | 3.0 | | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 15. | | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 15. | | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 15. | | | | |
| Methyl tert butyl ether | ND | ug/kg | 6.0 | | | | |
| p/m-Xylene | ND | ug/kg | 6.0 | | | | |
| o-Xylene | ND | ug/kg | 6.0 | | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 3.0 | | | | |
| Dibromomethane | ND | ug/kg | 30. | | | | |
| Styrene | ND | ug/kg | 6.0 | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 30. | | | | |
| Acetone | ND | ug/kg | 30. | | | | |
| Carbon disulfide | ND | ug/kg | 30. | | | | |
| 2-Butanone | ND | ug/kg | 30. | | | | |
| Vinyl acetate | ND | ug/kg | 30. | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 30. | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 30. | | | | |
| 2-Hexanone | ND | ug/kg | 30. | | | | |
| Bromochloromethane | ND | ug/kg | 15. | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 15. | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 12. | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 15. | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 3.0 | | | | |
| Bromobenzene | ND | ug/kg | 15. | | | | |
| n-Butylbenzene | ND | ug/kg | 3.0 | | | | |
| sec-Butylbenzene | ND | ug/kg | 3.0 | | | | |
| tert-Butylbenzene | ND | ug/kg | 15. | | | | |
| o-Chlorotoluene | ND | ug/kg | 15. | | | | |
| p-Chlorotoluene | ND | ug/kg | 15. | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 15. | | | | |
| Hexachlorobutadiene | ND | ug/kg | 15. | | | | |
| Isopropylbenzene | ND | ug/kg | 3.0 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-24
PWG-DW-2008-19 (4.5-5')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|--------------------------|----|
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0915 14:16 PD | |
| p-Isopropyltoluene | ND | ug/kg | 3.0 | | | |
| Naphthalene | ND | ug/kg | 15. | | | |
| Acrylonitrile | ND | ug/kg | 30. | | | |
| n-Propylbenzene | ND | ug/kg | 3.0 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 15. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 15. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 15. | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 15. | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 12. | | | |
| 4-Ethyltoluene | ND | ug/kg | 12. | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 12. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 89.0 | % | 70-130 | | | |
| Toluene-d8 | 100 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 115 | % | 70-130 | | | |
| Dibromofluoromethane | 90.0 | % | 70-130 | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 0911 03:30 0913 15:27 PS | |
| Acenaphthene | ND | ug/kg | 790 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 790 | | | |
| Hexachlorobenzene | ND | ug/kg | 790 | | | |
| Bis(2-chloroethyl)ether | ND | ug/kg | 790 | | | |
| 2-Chloronaphthalene | ND | ug/kg | 950 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 790 | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 790 | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 790 | | | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 1600 | | | |
| 2,4-Dinitrotoluene | ND | ug/kg | 790 | | | |
| 2,6-Dinitrotoluene | ND | ug/kg | 790 | | | |
| Fluoranthene | ND | ug/kg | 790 | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/kg | 790 | | | |
| 4-Bromophenyl phenyl ether | ND | ug/kg | 790 | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/kg | 790 | | | |
| Bis(2-chloroethoxy)methane | ND | ug/kg | 790 | | | |
| Hexachlorobutadiene | ND | ug/kg | 1600 | | | |
| Hexachlorocyclopentadiene | ND | ug/kg | 1600 | | | |
| Hexachloroethane | ND | ug/kg | 790 | | | |
| Isophorone | ND | ug/kg | 790 | | | |
| Naphthalene | ND | ug/kg | 790 | | | |
| Nitrobenzene | ND | ug/kg | 790 | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/kg | 2400 | | | |
| n-Nitrosodi-n-propylamine | ND | ug/kg | 790 | | | |
| Bis(2-Ethylhexyl)phthalate | ND | ug/kg | 1600 | | | |
| Butyl benzyl phthalate | ND | ug/kg | 790 | | | |
| Di-n-butylphthalate | ND | ug/kg | 790 | | | |
| Di-n-octylphthalate | ND | ug/kg | 790 | | | |
| Diethyl phthalate | ND | ug/kg | 790 | | | |
| Dimethyl phthalate | ND | ug/kg | 790 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-24
PWG-DW-2008-19 (4.5-5')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---|----------|-------|-------------|------------|-------|-----------------------|----|
| | | | | | PREP | ANAL | |
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 | 8270C | 0911 03:30 0913 15:27 | PS |
| Benzo(a)anthracene | ND | ug/kg | 790 | | | | |
| Benzo(a)pyrene | ND | ug/kg | 790 | | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 790 | | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 790 | | | | |
| Chrysene | ND | ug/kg | 790 | | | | |
| Acenaphthylene | ND | ug/kg | 790 | | | | |
| Anthracene | ND | ug/kg | 790 | | | | |
| Benzo(ghi)perylene | ND | ug/kg | 790 | | | | |
| Fluorene | ND | ug/kg | 790 | | | | |
| Phenanthrene | ND | ug/kg | 790 | | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 790 | | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 790 | | | | |
| Pyrene | ND | ug/kg | 790 | | | | |
| Biphenyl | ND | ug/kg | 790 | | | | |
| 4-Chloroaniline | ND | ug/kg | 790 | | | | |
| 2-Nitroaniline | ND | ug/kg | 790 | | | | |
| 3-Nitroaniline | ND | ug/kg | 790 | | | | |
| 4-Nitroaniline | ND | ug/kg | 1100 | | | | |
| Dibenzofuran | ND | ug/kg | 790 | | | | |
| 2-Methylnaphthalene | ND | ug/kg | 790 | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/kg | 3200 | | | | |
| Acetophenone | ND | ug/kg | 3200 | | | | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 790 | | | | |
| P-Chloro-M-Cresol | ND | ug/kg | 790 | | | | |
| 2-Chlorophenol | ND | ug/kg | 950 | | | | |
| 2,4-Dichlorophenol | ND | ug/kg | 1600 | | | | |
| 2,4-Dimethylphenol | ND | ug/kg | 790 | | | | |
| 2-Nitrophenol | ND | ug/kg | 3200 | | | | |
| 4-Nitrophenol | ND | ug/kg | 1600 | | | | |
| 2,4-Dinitrophenol | ND | ug/kg | 3200 | | | | |
| 4,6-Dinitro-o-cresol | ND | ug/kg | 3200 | | | | |
| Pentachlorophenol | ND | ug/kg | 3200 | | | | |
| Phenol | ND | ug/kg | 1100 | | | | |
| 2-Methylphenol | ND | ug/kg | 950 | | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/kg | 950 | | | | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 790 | | | | |
| Benzoic Acid | ND | ug/kg | 7900 | | | | |
| Benzyl Alcohol | ND | ug/kg | 1600 | | | | |
| Carbazole | ND | ug/kg | 790 | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | |
| 2-Fluorophenol | 76.0 | % | 25-120 | | | | |
| Phenol-d6 | 76.0 | % | 10-120 | | | | |
| Nitrobenzene-d5 | 63.0 | % | 23-120 | | | | |
| 2-Fluorobiphenyl | 63.0 | % | 30-120 | | | | |
| 2,4,6-Tribromophenol | 78.0 | % | 19-120 | | | | |
| 4-Terphenyl-d14 | 71.0 | % | 18-120 | | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 | 8270C | 0911 03:30 0913 21:41 | AK |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-24
PWG-DW-2008-19 (4.5-5')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C-SIM cont'd | | | | 1 8270C | 0911 03:30 0913 21:41 AK | |
| Acenaphthene | ND | ug/kg | 16. | | | |
| 2-Chloronaphthalene | ND | ug/kg | 16. | | | |
| Fluoranthene | 53 | ug/kg | 16 | | | |
| Hexachlorobutadiene | ND | ug/kg | 40. | | | |
| Naphthalene | ND | ug/kg | 16. | | | |
| Benzo(a)anthracene | 18 | ug/kg | 16 | | | |
| Benzo(a)pyrene | 36 | ug/kg | 16 | | | |
| Benzo(b)fluoranthene | 32 | ug/kg | 16 | | | |
| Benzo(k)fluoranthene | 34 | ug/kg | 16 | | | |
| Chrysene | 16 | ug/kg | 16 | | | |
| Acenaphthylene | ND | ug/kg | 16. | | | |
| Anthracene | ND | ug/kg | 16. | | | |
| Benzo(ghi)perylene | ND | ug/kg | 16. | | | |
| Fluorene | ND | ug/kg | 16. | | | |
| Phenanthrene | 16 | ug/kg | 16 | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 16. | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 16. | | | |
| Pyrene | 49 | ug/kg | 16 | | | |
| 2-Methylnaphthalene | ND | ug/kg | 16. | | | |
| Pentachlorophenol | ND | ug/kg | 63. | | | |
| Hexachlorobenzene | ND | ug/kg | 63. | | | |
| Hexachloroethane | ND | ug/kg | 63. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 36.0 | % | 25-120 | | | |
| Phenol-d6 | 37.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 34.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 31.0 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 29.0 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 39.0 | % | 18-120 | | | |
| Petroleum Hydrocarbon Quantitation by GC-FID | | | | 1 8015B(M) | 0911 00:15 0912 13:44 RT | |
| TPH | 86400 | ug/kg | 39700 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| o-Terphenyl | 65.0 | % | 40-140 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0813344-25 | Date Collected: 08-SEP-2008 15:20 |
| PWG-DW-2008-20 (4.5-5') | Date Received : 09-SEP-2008 |
| Sample Matrix: SOIL | Date Reported : 25-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 3-Amber,1-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-----------------------|----|
| Solids, Total | 71 | % | 0.10 | 30 2540G | 0910 18:40 | NM |
| Total Metals | | | | | | |
| Aluminum, Total | 4500 | mg/kg | 6.7 | 1 6010B | 0910 13:30 0911 15:27 | AI |
| Antimony, Total | ND | mg/kg | 3.4 | 1 6010B | 0910 13:30 0911 15:27 | AI |
| Arsenic, Total | 1.6 | mg/kg | 0.67 | 1 6010B | 0910 13:30 0911 15:27 | AI |
| Barium, Total | 46 | mg/kg | 0.67 | 1 6010B | 0910 13:30 0911 15:27 | AI |
| Beryllium, Total | ND | mg/kg | 0.34 | 1 6010B | 0910 13:30 0911 15:27 | AI |
| Cadmium, Total | 3.3 | mg/kg | 0.67 | 1 6010B | 0910 13:30 0911 15:27 | AI |
| Calcium, Total | 10000 | mg/kg | 6.7 | 1 6010B | 0910 13:30 0911 15:27 | AI |
| Chromium, Total | 22 | mg/kg | 0.67 | 1 6010B | 0910 13:30 0911 15:27 | AI |
| Cobalt, Total | 4.6 | mg/kg | 1.3 | 1 6010B | 0910 13:30 0911 15:27 | AI |
| Copper, Total | 73 | mg/kg | 0.67 | 1 6010B | 0910 13:30 0911 15:27 | AI |
| Iron, Total | 10000 | mg/kg | 3.4 | 1 6010B | 0910 13:30 0911 15:27 | AI |
| Lead, Total | 960 | mg/kg | 3.4 | 1 6010B | 0910 13:30 0911 15:27 | AI |
| Magnesium, Total | 6700 | mg/kg | 6.7 | 1 6010B | 0910 13:30 0911 15:27 | AI |
| Manganese, Total | 89 | mg/kg | 0.67 | 1 6010B | 0910 13:30 0911 15:27 | AI |
| Mercury, Total | 1.1 | mg/kg | 0.11 | 1 7471A | 0912 20:30 0914 13:52 | HG |
| Nickel, Total | 17 | mg/kg | 1.7 | 1 6010B | 0910 13:30 0911 15:27 | AI |
| Potassium, Total | 320 | mg/kg | 170 | 1 6010B | 0910 13:30 0911 15:27 | AI |
| Selenium, Total | ND | mg/kg | 1.3 | 1 6010B | 0910 13:30 0911 15:27 | AI |
| Silver, Total | ND | mg/kg | 0.67 | 1 6010B | 0910 13:30 0911 15:27 | AI |
| Sodium, Total | 300 | mg/kg | 130 | 1 6010B | 0910 13:30 0911 15:27 | AI |
| Thallium, Total | ND | mg/kg | 1.3 | 1 6010B | 0910 13:30 0911 15:27 | AI |
| Vanadium, Total | 43 | mg/kg | 0.67 | 1 6010B | 0910 13:30 0911 15:27 | AI |
| Zinc, Total | 340 | mg/kg | 3.4 | 1 6010B | 0910 13:30 0911 15:27 | AI |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0912 16:55 | PD |
| Methylene chloride | ND | ug/kg | 35. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 5.3 | | | |
| Chloroform | ND | ug/kg | 5.3 | | | |
| Carbon tetrachloride | ND | ug/kg | 3.5 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 12. | | | |
| Dibromochloromethane | ND | ug/kg | 3.5 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 5.3 | | | |
| Tetrachloroethene | ND | ug/kg | 3.5 | | | |
| Chlorobenzene | ND | ug/kg | 3.5 | | | |
| Trichlorofluoromethane | ND | ug/kg | 18. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-25
PWG-DW-2008-20 (4.5-5')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---------------------------------------|--------|-------|-----|------------|-------|---------------|----|
| | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0912 16:55 PD | |
| 1,2-Dichloroethane | ND | ug/kg | 3.5 | | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 3.5 | | | | |
| Bromodichloromethane | ND | ug/kg | 3.5 | | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 3.5 | | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 3.5 | | | | |
| 1,1-Dichloropropene | ND | ug/kg | 18. | | | | |
| Bromoform | ND | ug/kg | 14. | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 3.5 | | | | |
| Benzene | ND | ug/kg | 3.5 | | | | |
| Toluene | ND | ug/kg | 5.3 | | | | |
| Ethylbenzene | ND | ug/kg | 3.5 | | | | |
| Chloromethane | ND | ug/kg | 18. | | | | |
| Bromomethane | ND | ug/kg | 7.0 | | | | |
| Vinyl chloride | ND | ug/kg | 7.0 | | | | |
| Chloroethane | ND | ug/kg | 7.0 | | | | |
| 1,1-Dichloroethene | ND | ug/kg | 3.5 | | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 5.3 | | | | |
| Trichloroethene | ND | ug/kg | 3.5 | | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 18. | | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 18. | | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 18. | | | | |
| Methyl tert butyl ether | ND | ug/kg | 7.0 | | | | |
| p/m-Xylene | ND | ug/kg | 7.0 | | | | |
| o-Xylene | ND | ug/kg | 7.0 | | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 3.5 | | | | |
| Dibromomethane | ND | ug/kg | 35. | | | | |
| Styrene | ND | ug/kg | 7.0 | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 35. | | | | |
| Acetone | ND | ug/kg | 35. | | | | |
| Carbon disulfide | ND | ug/kg | 35. | | | | |
| 2-Butanone | ND | ug/kg | 35. | | | | |
| Vinyl acetate | ND | ug/kg | 35. | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 35. | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 35. | | | | |
| 2-Hexanone | ND | ug/kg | 35. | | | | |
| Bromochloromethane | ND | ug/kg | 18. | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 18. | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 14. | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 18. | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 3.5 | | | | |
| Bromobenzene | ND | ug/kg | 18. | | | | |
| n-Butylbenzene | ND | ug/kg | 3.5 | | | | |
| sec-Butylbenzene | ND | ug/kg | 3.5 | | | | |
| tert-Butylbenzene | ND | ug/kg | 18. | | | | |
| o-Chlorotoluene | ND | ug/kg | 18. | | | | |
| p-Chlorotoluene | ND | ug/kg | 18. | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 18. | | | | |
| Hexachlorobutadiene | ND | ug/kg | 18. | | | | |
| Isopropylbenzene | ND | ug/kg | 3.5 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-25
PWG-DW-2008-20 (4.5-5')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|--------------------------|----|
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0912 16:55 PD | |
| p-Isopropyltoluene | ND | ug/kg | 3.5 | | | |
| Naphthalene | ND | ug/kg | 18. | | | |
| Acrylonitrile | ND | ug/kg | 35. | | | |
| n-Propylbenzene | ND | ug/kg | 3.5 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 18. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 18. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 18. | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 18. | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 14. | | | |
| 4-Ethyltoluene | ND | ug/kg | 14. | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 14. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 98.0 | % | 70-130 | | | |
| Toluene-d8 | 108 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 116 | % | 70-130 | | | |
| Dibromofluoromethane | 99.0 | % | 70-130 | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 0911 03:30 0913 15:49 PS | |
| Acenaphthene | ND | ug/kg | 4700 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 4700 | | | |
| Hexachlorobenzene | ND | ug/kg | 4700 | | | |
| Bis(2-chloroethyl)ether | ND | ug/kg | 4700 | | | |
| 2-Chloronaphthalene | ND | ug/kg | 5600 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 4700 | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 4700 | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 4700 | | | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 9400 | | | |
| 2,4-Dinitrotoluene | ND | ug/kg | 4700 | | | |
| 2,6-Dinitrotoluene | ND | ug/kg | 4700 | | | |
| Fluoranthene | ND | ug/kg | 4700 | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/kg | 4700 | | | |
| 4-Bromophenyl phenyl ether | ND | ug/kg | 4700 | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/kg | 4700 | | | |
| Bis(2-chloroethoxy)methane | ND | ug/kg | 4700 | | | |
| Hexachlorobutadiene | ND | ug/kg | 9400 | | | |
| Hexachlorocyclopentadiene | ND | ug/kg | 9400 | | | |
| Hexachloroethane | ND | ug/kg | 4700 | | | |
| Isophorone | ND | ug/kg | 4700 | | | |
| Naphthalene | ND | ug/kg | 4700 | | | |
| Nitrobenzene | ND | ug/kg | 4700 | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/kg | 14000 | | | |
| n-Nitrosodi-n-propylamine | ND | ug/kg | 4700 | | | |
| Bis(2-Ethylhexyl)phthalate | 12000 | ug/kg | 9400 | | | |
| Butyl benzyl phthalate | ND | ug/kg | 4700 | | | |
| Di-n-butylphthalate | ND | ug/kg | 4700 | | | |
| Di-n-octylphthalate | ND | ug/kg | 4700 | | | |
| Diethyl phthalate | ND | ug/kg | 4700 | | | |
| Dimethyl phthalate | ND | ug/kg | 4700 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-25
PWG-DW-2008-20 (4.5-5')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---|----------|-------|-------------|------------|-------|-----------------------|----|
| | | | | | PREP | ANAL | |
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 | 8270C | 0911 03:30 0913 15:49 | PS |
| Benzo(a)anthracene | ND | ug/kg | 4700 | | | | |
| Benzo(a)pyrene | ND | ug/kg | 4700 | | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 4700 | | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 4700 | | | | |
| Chrysene | ND | ug/kg | 4700 | | | | |
| Acenaphthylene | ND | ug/kg | 4700 | | | | |
| Anthracene | ND | ug/kg | 4700 | | | | |
| Benzo(ghi)perylene | ND | ug/kg | 4700 | | | | |
| Fluorene | ND | ug/kg | 4700 | | | | |
| Phenanthrene | ND | ug/kg | 4700 | | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 4700 | | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 4700 | | | | |
| Pyrene | ND | ug/kg | 4700 | | | | |
| Biphenyl | ND | ug/kg | 4700 | | | | |
| 4-Chloroaniline | ND | ug/kg | 4700 | | | | |
| 2-Nitroaniline | ND | ug/kg | 4700 | | | | |
| 3-Nitroaniline | ND | ug/kg | 4700 | | | | |
| 4-Nitroaniline | ND | ug/kg | 6600 | | | | |
| Dibenzofuran | ND | ug/kg | 4700 | | | | |
| 2-Methylnaphthalene | ND | ug/kg | 4700 | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/kg | 19000 | | | | |
| Acetophenone | ND | ug/kg | 19000 | | | | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 4700 | | | | |
| P-Chloro-M-Cresol | ND | ug/kg | 4700 | | | | |
| 2-Chlorophenol | ND | ug/kg | 5600 | | | | |
| 2,4-Dichlorophenol | ND | ug/kg | 9400 | | | | |
| 2,4-Dimethylphenol | ND | ug/kg | 4700 | | | | |
| 2-Nitrophenol | ND | ug/kg | 19000 | | | | |
| 4-Nitrophenol | ND | ug/kg | 9400 | | | | |
| 2,4-Dinitrophenol | ND | ug/kg | 19000 | | | | |
| 4,6-Dinitro-o-cresol | ND | ug/kg | 19000 | | | | |
| Pentachlorophenol | ND | ug/kg | 19000 | | | | |
| Phenol | ND | ug/kg | 6600 | | | | |
| 2-Methylphenol | ND | ug/kg | 5600 | | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/kg | 5600 | | | | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 4700 | | | | |
| Benzoic Acid | ND | ug/kg | 47000 | | | | |
| Benzyl Alcohol | ND | ug/kg | 9400 | | | | |
| Carbazole | ND | ug/kg | 4700 | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | |
| 2-Fluorophenol | 98.0 | % | 25-120 | | | | |
| Phenol-d6 | 96.0 | % | 10-120 | | | | |
| Nitrobenzene-d5 | 85.0 | % | 23-120 | | | | |
| 2-Fluorobiphenyl | 94.0 | % | 30-120 | | | | |
| 2,4,6-Tribromophenol | 116 | % | 19-120 | | | | |
| 4-Terphenyl-d14 | 88.0 | % | 18-120 | | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 | 8270C | 0911 03:30 0913 22:28 | AK |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-25
PWG-DW-2008-20 (4.5-5')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C-SIM cont'd | | | | 1 8270C | 0911 03:30 0913 22:28 AK | |
| Acenaphthene | ND | ug/kg | 1900 | | | |
| 2-Chloronaphthalene | ND | ug/kg | 1900 | | | |
| Fluoranthene | ND | ug/kg | 1900 | | | |
| Hexachlorobutadiene | ND | ug/kg | 4700 | | | |
| Naphthalene | ND | ug/kg | 1900 | | | |
| Benzo(a)anthracene | ND | ug/kg | 1900 | | | |
| Benzo(a)pyrene | ND | ug/kg | 1900 | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 1900 | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 1900 | | | |
| Chrysene | ND | ug/kg | 1900 | | | |
| Acenaphthylene | ND | ug/kg | 1900 | | | |
| Anthracene | ND | ug/kg | 1900 | | | |
| Benzo(ghi)perylene | ND | ug/kg | 1900 | | | |
| Fluorene | ND | ug/kg | 1900 | | | |
| Phenanthrene | ND | ug/kg | 1900 | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 1900 | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 1900 | | | |
| Pyrene | ND | ug/kg | 1900 | | | |
| 2-Methylnaphthalene | ND | ug/kg | 1900 | | | |
| Pentachlorophenol | ND | ug/kg | 7500 | | | |
| Hexachlorobenzene | ND | ug/kg | 7500 | | | |
| Hexachloroethane | ND | ug/kg | 7500 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | ND | % | 25-120 | | | |
| Phenol-d6 | ND | % | 10-120 | | | |
| Nitrobenzene-d5 | ND | % | 23-120 | | | |
| 2-Fluorobiphenyl | ND | % | 30-120 | | | |
| 2,4,6-Tribromophenol | ND | % | 19-120 | | | |
| 4-Terphenyl-d14 | ND | % | 18-120 | | | |
| Petroleum Hydrocarbon Quantitation by GC-FID | | | | 1 8015B(M) | 0911 00:15 0912 16:52 RT | |
| TPH | 5430000 | ug/kg | 1170000 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| o-Terphenyl | 86.0 | % | 40-140 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0813344-26 **Date Collected:** 08-SEP-2008 15:30
Sample Matrix: PWG-DW-2008-22 (5.25-5.75') **Date Received :** 09-SEP-2008
Condition of Sample: SOIL **Date Reported :** 25-SEP-2008
Field Prep: None
Number & Type of Containers: 3-Amber,1-Vial

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-----------------------|----|
| Solids, Total | 87 | % | 0.10 | 30 2540G | 0910 19:00 | NM |
| Total Metals | | | | | | |
| Aluminum, Total | 2200 | mg/kg | 5.3 | 1 6010B | 0910 13:30 0911 15:57 | AI |
| Antimony, Total | ND | mg/kg | 2.6 | 1 6010B | 0910 13:30 0911 15:57 | AI |
| Arsenic, Total | 7.2 | mg/kg | 0.53 | 1 6010B | 0910 13:30 0911 15:57 | AI |
| Barium, Total | 6.9 | mg/kg | 0.53 | 1 6010B | 0910 13:30 0911 15:57 | AI |
| Beryllium, Total | 0.34 | mg/kg | 0.26 | 1 6010B | 0910 13:30 0911 15:57 | AI |
| Cadmium, Total | ND | mg/kg | 0.53 | 1 6010B | 0910 13:30 0911 15:57 | AI |
| Calcium, Total | 11000 | mg/kg | 5.3 | 1 6010B | 0910 13:30 0911 15:57 | AI |
| Chromium, Total | 26 | mg/kg | 0.53 | 1 6010B | 0910 13:30 0911 15:57 | AI |
| Cobalt, Total | 1.7 | mg/kg | 1.0 | 1 6010B | 0910 13:30 0911 15:57 | AI |
| Copper, Total | 6.1 | mg/kg | 0.53 | 1 6010B | 0910 13:30 0911 15:57 | AI |
| Iron, Total | 15000 | mg/kg | 2.6 | 1 6010B | 0910 13:30 0911 15:57 | AI |
| Lead, Total | 12 | mg/kg | 2.6 | 1 6010B | 0910 13:30 0911 15:57 | AI |
| Magnesium, Total | 7200 | mg/kg | 5.3 | 1 6010B | 0910 13:30 0911 15:57 | AI |
| Manganese, Total | 34 | mg/kg | 0.53 | 1 6010B | 0910 13:30 0911 15:57 | AI |
| Mercury, Total | ND | mg/kg | 0.09 | 1 7471A | 0912 20:30 0914 13:58 | HG |
| Nickel, Total | 3.8 | mg/kg | 1.3 | 1 6010B | 0910 13:30 0911 15:57 | AI |
| Potassium, Total | 130 | mg/kg | 130 | 1 6010B | 0910 13:30 0911 15:57 | AI |
| Selenium, Total | ND | mg/kg | 1.0 | 1 6010B | 0910 13:30 0911 15:57 | AI |
| Silver, Total | ND | mg/kg | 0.53 | 1 6010B | 0910 13:30 0911 15:57 | AI |
| Sodium, Total | ND | mg/kg | 100 | 1 6010B | 0910 13:30 0911 15:57 | AI |
| Thallium, Total | ND | mg/kg | 2.1 | 1 6010B | 0910 13:30 0911 19:55 | AI |
| Vanadium, Total | 14 | mg/kg | 0.53 | 1 6010B | 0910 13:30 0911 15:57 | AI |
| Zinc, Total | 24 | mg/kg | 2.6 | 1 6010B | 0910 13:30 0911 15:57 | AI |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0912 17:31 | PD |
| Methylene chloride | ND | ug/kg | 29. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 4.3 | | | |
| Chloroform | ND | ug/kg | 4.3 | | | |
| Carbon tetrachloride | ND | ug/kg | 2.9 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 10. | | | |
| Dibromochloromethane | ND | ug/kg | 2.9 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 4.3 | | | |
| Tetrachloroethene | ND | ug/kg | 2.9 | | | |
| Chlorobenzene | ND | ug/kg | 2.9 | | | |
| Trichlorofluoromethane | ND | ug/kg | 14. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-26
PWG-DW-2008-22 (5.25-5.75')

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|--------|-------|-----|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0912 17:31 PD | | |
| 1,2-Dichloroethane | ND | ug/kg | 2.9 | | | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 2.9 | | | | | |
| Bromodichloromethane | ND | ug/kg | 2.9 | | | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 2.9 | | | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 2.9 | | | | | |
| 1,1-Dichloropropene | ND | ug/kg | 14. | | | | | |
| Bromoform | ND | ug/kg | 11. | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 2.9 | | | | | |
| Benzene | ND | ug/kg | 2.9 | | | | | |
| Toluene | ND | ug/kg | 4.3 | | | | | |
| Ethylbenzene | ND | ug/kg | 2.9 | | | | | |
| Chloromethane | ND | ug/kg | 14. | | | | | |
| Bromomethane | ND | ug/kg | 5.7 | | | | | |
| Vinyl chloride | ND | ug/kg | 5.7 | | | | | |
| Chloroethane | ND | ug/kg | 5.7 | | | | | |
| 1,1-Dichloroethene | ND | ug/kg | 2.9 | | | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 4.3 | | | | | |
| Trichloroethene | ND | ug/kg | 2.9 | | | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 14. | | | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 14. | | | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 14. | | | | | |
| Methyl tert butyl ether | ND | ug/kg | 5.7 | | | | | |
| p/m-Xylene | ND | ug/kg | 5.7 | | | | | |
| o-Xylene | ND | ug/kg | 5.7 | | | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 2.9 | | | | | |
| Dibromomethane | ND | ug/kg | 29. | | | | | |
| Styrene | ND | ug/kg | 5.7 | | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 29. | | | | | |
| Acetone | ND | ug/kg | 29. | | | | | |
| Carbon disulfide | ND | ug/kg | 29. | | | | | |
| 2-Butanone | ND | ug/kg | 29. | | | | | |
| Vinyl acetate | ND | ug/kg | 29. | | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 29. | | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 29. | | | | | |
| 2-Hexanone | ND | ug/kg | 29. | | | | | |
| Bromochloromethane | ND | ug/kg | 14. | | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 14. | | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 11. | | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 14. | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 2.9 | | | | | |
| Bromobenzene | ND | ug/kg | 14. | | | | | |
| n-Butylbenzene | ND | ug/kg | 2.9 | | | | | |
| sec-Butylbenzene | ND | ug/kg | 2.9 | | | | | |
| tert-Butylbenzene | ND | ug/kg | 14. | | | | | |
| o-Chlorotoluene | ND | ug/kg | 14. | | | | | |
| p-Chlorotoluene | ND | ug/kg | 14. | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 14. | | | | | |
| Hexachlorobutadiene | ND | ug/kg | 14. | | | | | |
| Isopropylbenzene | ND | ug/kg | 2.9 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-26
PWG-DW-2008-22 (5.25-5.75')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|-----------------------|----|
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0912 17:31 | PD |
| p-Isopropyltoluene | ND | ug/kg | 2.9 | | | |
| Naphthalene | ND | ug/kg | 14. | | | |
| Acrylonitrile | ND | ug/kg | 29. | | | |
| n-Propylbenzene | ND | ug/kg | 2.9 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 14. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 14. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 14. | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 14. | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 11. | | | |
| 4-Ethyltoluene | ND | ug/kg | 11. | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 11. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 96.0 | % | 70-130 | | | |
| Toluene-d8 | 105 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 112 | % | 70-130 | | | |
| Dibromofluoromethane | 96.0 | % | 70-130 | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 0911 00:30 0913 16:12 | PS |
| Acenaphthene | ND | ug/kg | 380 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 380 | | | |
| Hexachlorobenzene | ND | ug/kg | 380 | | | |
| Bis(2-chloroethyl)ether | ND | ug/kg | 380 | | | |
| 2-Chloronaphthalene | ND | ug/kg | 460 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 380 | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 380 | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 380 | | | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 770 | | | |
| 2,4-Dinitrotoluene | ND | ug/kg | 380 | | | |
| 2,6-Dinitrotoluene | ND | ug/kg | 380 | | | |
| Fluoranthene | ND | ug/kg | 380 | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/kg | 380 | | | |
| 4-Bromophenyl phenyl ether | ND | ug/kg | 380 | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/kg | 380 | | | |
| Bis(2-chloroethoxy)methane | ND | ug/kg | 380 | | | |
| Hexachlorobutadiene | ND | ug/kg | 770 | | | |
| Hexachlorocyclopentadiene | ND | ug/kg | 770 | | | |
| Hexachloroethane | ND | ug/kg | 380 | | | |
| Isophorone | ND | ug/kg | 380 | | | |
| Naphthalene | ND | ug/kg | 380 | | | |
| Nitrobenzene | ND | ug/kg | 380 | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/kg | 1100 | | | |
| n-Nitrosodi-n-propylamine | ND | ug/kg | 380 | | | |
| Bis(2-Ethylhexyl)phthalate | ND | ug/kg | 770 | | | |
| Butyl benzyl phthalate | ND | ug/kg | 380 | | | |
| Di-n-butylphthalate | ND | ug/kg | 380 | | | |
| Di-n-octylphthalate | ND | ug/kg | 380 | | | |
| Diethyl phthalate | ND | ug/kg | 380 | | | |
| Dimethyl phthalate | ND | ug/kg | 380 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-26
PWG-DW-2008-22 (5.25-5.75')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 8270C | 0911 00:30 0913 16:12 PS | |
| Benzo(a)anthracene | ND | ug/kg | 380 | | | |
| Benzo(a)pyrene | ND | ug/kg | 380 | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 380 | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 380 | | | |
| Chrysene | ND | ug/kg | 380 | | | |
| Acenaphthylene | ND | ug/kg | 380 | | | |
| Anthracene | ND | ug/kg | 380 | | | |
| Benzo(ghi)perylene | ND | ug/kg | 380 | | | |
| Fluorene | ND | ug/kg | 380 | | | |
| Phenanthrene | ND | ug/kg | 380 | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 380 | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 380 | | | |
| Pyrene | ND | ug/kg | 380 | | | |
| Biphenyl | ND | ug/kg | 380 | | | |
| 4-Chloroaniline | ND | ug/kg | 380 | | | |
| 2-Nitroaniline | ND | ug/kg | 380 | | | |
| 3-Nitroaniline | ND | ug/kg | 380 | | | |
| 4-Nitroaniline | ND | ug/kg | 540 | | | |
| Dibenzofuran | ND | ug/kg | 380 | | | |
| 2-Methylnaphthalene | ND | ug/kg | 380 | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/kg | 1500 | | | |
| Acetophenone | ND | ug/kg | 1500 | | | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 380 | | | |
| p-Chloro-M-Cresol | ND | ug/kg | 380 | | | |
| 2-Chlorophenol | ND | ug/kg | 460 | | | |
| 2,4-Dichlorophenol | ND | ug/kg | 770 | | | |
| 2,4-Dimethylphenol | ND | ug/kg | 380 | | | |
| 2-Nitrophenol | ND | ug/kg | 1500 | | | |
| 4-Nitrophenol | ND | ug/kg | 770 | | | |
| 2,4-Dinitrophenol | ND | ug/kg | 1500 | | | |
| 4,6-Dinitro-o-cresol | ND | ug/kg | 1500 | | | |
| Pentachlorophenol | ND | ug/kg | 1500 | | | |
| Phenol | ND | ug/kg | 540 | | | |
| 2-Methylphenol | ND | ug/kg | 460 | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/kg | 460 | | | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 380 | | | |
| Benzoic Acid | ND | ug/kg | 3800 | | | |
| Benzyl Alcohol | ND | ug/kg | 770 | | | |
| Carbazole | ND | ug/kg | 380 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 55.0 | % | 25-120 | | | |
| Phenol-d6 | 53.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 47.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 47.0 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 69.0 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 61.0 | % | 18-120 | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 8270C | 0911 00:30 0914 02:57 AK | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-26
PWG-DW-2008-22 (5.25-5.75')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C-SIM cont'd | | | | 1 8270C | 0911 00:30 0914 02:57 AK | |
| Acenaphthene | ND | ug/kg | 31. | | | |
| 2-Chloronaphthalene | ND | ug/kg | 31. | | | |
| Fluoranthene | ND | ug/kg | 31. | | | |
| Hexachlorobutadiene | ND | ug/kg | 77. | | | |
| Naphthalene | ND | ug/kg | 31. | | | |
| Benzo(a)anthracene | ND | ug/kg | 31. | | | |
| Benzo(a)pyrene | ND | ug/kg | 31. | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 31. | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 31. | | | |
| Chrysene | ND | ug/kg | 31. | | | |
| Acenaphthylene | ND | ug/kg | 31. | | | |
| Anthracene | ND | ug/kg | 31. | | | |
| Benzo(ghi)perylene | ND | ug/kg | 31. | | | |
| Fluorene | ND | ug/kg | 31. | | | |
| Phenanthrene | ND | ug/kg | 31. | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 31. | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 31. | | | |
| Pyrene | ND | ug/kg | 31. | | | |
| 2-Methylnaphthalene | ND | ug/kg | 31. | | | |
| Pentachlorophenol | ND | ug/kg | 120 | | | |
| Hexachlorobenzene | ND | ug/kg | 120 | | | |
| Hexachloroethane | ND | ug/kg | 120 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 65.0 | % | 25-120 | | | |
| Phenol-d6 | 72.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 62.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 61.0 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 66.0 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 87.0 | % | 18-120 | | | |
| Petroleum Hydrocarbon Quantitation by GC-FID | | | | 1 8015B(M) | 0911 01:00 0912 01:29 JL | |
| TPH | ND | ug/kg | 38300 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| o-Terphenyl | 69.0 | % | 40-140 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0813344-27 | Date Collected: 08-SEP-2008 15:40 |
| PWG-DW-2008-23 (3-3.5') | Date Received : 09-SEP-2008 |
| Sample Matrix: SOIL | Date Reported : 25-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 3-Amber,1-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-----------------------|----|
| Solids, Total | 79 | % | 0.10 | 30 2540G | 0910 19:00 | NM |
| Total Metals | | | | | | |
| Aluminum, Total | 1400 | mg/kg | 6.1 | 1 6010B | 0910 13:30 0911 16:10 | AI |
| Antimony, Total | ND | mg/kg | 3.0 | 1 6010B | 0910 13:30 0911 16:10 | AI |
| Arsenic, Total | 1.0 | mg/kg | 0.61 | 1 6010B | 0910 13:30 0911 16:10 | AI |
| Barium, Total | 10 | mg/kg | 0.61 | 1 6010B | 0910 13:30 0911 16:10 | AI |
| Beryllium, Total | ND | mg/kg | 0.30 | 1 6010B | 0910 13:30 0911 16:10 | AI |
| Cadmium, Total | ND | mg/kg | 0.61 | 1 6010B | 0910 13:30 0911 16:10 | AI |
| Calcium, Total | 13000 | mg/kg | 6.1 | 1 6010B | 0910 13:30 0911 16:10 | AI |
| Chromium, Total | 10 | mg/kg | 0.61 | 1 6010B | 0910 13:30 0911 16:10 | AI |
| Cobalt, Total | 2.0 | mg/kg | 1.2 | 1 6010B | 0910 13:30 0911 16:10 | AI |
| Copper, Total | 170 | mg/kg | 0.61 | 1 6010B | 0910 13:30 0911 16:10 | AI |
| Iron, Total | 7600 | mg/kg | 3.0 | 1 6010B | 0910 13:30 0911 16:10 | AI |
| Lead, Total | 67 | mg/kg | 3.0 | 1 6010B | 0910 13:30 0911 16:10 | AI |
| Magnesium, Total | 8300 | mg/kg | 6.1 | 1 6010B | 0910 13:30 0911 16:10 | AI |
| Manganese, Total | 58 | mg/kg | 0.61 | 1 6010B | 0910 13:30 0911 16:10 | AI |
| Mercury, Total | 0.13 | mg/kg | 0.10 | 1 7471A | 0912 20:30 0914 13:59 | HG |
| Nickel, Total | 13 | mg/kg | 1.5 | 1 6010B | 0910 13:30 0911 16:10 | AI |
| Potassium, Total | 180 | mg/kg | 150 | 1 6010B | 0910 13:30 0911 16:10 | AI |
| Selenium, Total | ND | mg/kg | 1.2 | 1 6010B | 0910 13:30 0911 16:10 | AI |
| Silver, Total | ND | mg/kg | 0.61 | 1 6010B | 0910 13:30 0911 16:10 | AI |
| Sodium, Total | ND | mg/kg | 120 | 1 6010B | 0910 13:30 0911 16:10 | AI |
| Thallium, Total | ND | mg/kg | 1.2 | 1 6010B | 0910 13:30 0911 16:10 | AI |
| Vanadium, Total | 12 | mg/kg | 0.61 | 1 6010B | 0910 13:30 0911 16:10 | AI |
| Zinc, Total | 180 | mg/kg | 3.0 | 1 6010B | 0910 13:30 0911 16:10 | AI |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0912 18:08 | PD |
| Methylene chloride | ND | ug/kg | 32. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 4.7 | | | |
| Chloroform | ND | ug/kg | 4.7 | | | |
| Carbon tetrachloride | ND | ug/kg | 3.2 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 11. | | | |
| Dibromochloromethane | ND | ug/kg | 3.2 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 4.7 | | | |
| Tetrachloroethene | ND | ug/kg | 3.2 | | | |
| Chlorobenzene | ND | ug/kg | 3.2 | | | |
| Trichlorofluoromethane | ND | ug/kg | 16. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-27
PWG-DW-2008-23 (3-3.5')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---------------------------------------|--------|-------|-----|------------|-------|---------------|----|
| | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0912 18:08 PD | |
| 1,2-Dichloroethane | ND | ug/kg | 3.2 | | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 3.2 | | | | |
| Bromodichloromethane | ND | ug/kg | 3.2 | | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 3.2 | | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 3.2 | | | | |
| 1,1-Dichloropropene | ND | ug/kg | 16. | | | | |
| Bromoform | ND | ug/kg | 13. | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 3.2 | | | | |
| Benzene | ND | ug/kg | 3.2 | | | | |
| Toluene | ND | ug/kg | 4.7 | | | | |
| Ethylbenzene | ND | ug/kg | 3.2 | | | | |
| Chloromethane | ND | ug/kg | 16. | | | | |
| Bromomethane | ND | ug/kg | 6.3 | | | | |
| Vinyl chloride | ND | ug/kg | 6.3 | | | | |
| Chloroethane | ND | ug/kg | 6.3 | | | | |
| 1,1-Dichloroethene | ND | ug/kg | 3.2 | | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 4.7 | | | | |
| Trichloroethene | ND | ug/kg | 3.2 | | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 16. | | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 16. | | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 16. | | | | |
| Methyl tert butyl ether | ND | ug/kg | 6.3 | | | | |
| p/m-Xylene | ND | ug/kg | 6.3 | | | | |
| o-Xylene | ND | ug/kg | 6.3 | | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 3.2 | | | | |
| Dibromomethane | ND | ug/kg | 32. | | | | |
| Styrene | ND | ug/kg | 6.3 | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 32. | | | | |
| Acetone | ND | ug/kg | 32. | | | | |
| Carbon disulfide | ND | ug/kg | 32. | | | | |
| 2-Butanone | ND | ug/kg | 32. | | | | |
| Vinyl acetate | ND | ug/kg | 32. | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 32. | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 32. | | | | |
| 2-Hexanone | ND | ug/kg | 32. | | | | |
| Bromochloromethane | ND | ug/kg | 16. | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 16. | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 13. | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 16. | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 3.2 | | | | |
| Bromobenzene | ND | ug/kg | 16. | | | | |
| n-Butylbenzene | ND | ug/kg | 3.2 | | | | |
| sec-Butylbenzene | ND | ug/kg | 3.2 | | | | |
| tert-Butylbenzene | ND | ug/kg | 16. | | | | |
| o-Chlorotoluene | ND | ug/kg | 16. | | | | |
| p-Chlorotoluene | ND | ug/kg | 16. | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 16. | | | | |
| Hexachlorobutadiene | ND | ug/kg | 16. | | | | |
| Isopropylbenzene | ND | ug/kg | 3.2 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-27
PWG-DW-2008-23 (3-3.5')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|--------------------------|----|
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0912 18:08 PD | |
| p-Isopropyltoluene | ND | ug/kg | 3.2 | | | |
| Naphthalene | ND | ug/kg | 16. | | | |
| Acrylonitrile | ND | ug/kg | 32. | | | |
| n-Propylbenzene | ND | ug/kg | 3.2 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 16. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 16. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 16. | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 16. | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 13. | | | |
| 4-Ethyltoluene | ND | ug/kg | 13. | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 13. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 115 | % | 70-130 | | | |
| Toluene-d8 | 120 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 138 | % | 70-130 | | | |
| Dibromofluoromethane | 114 | % | 70-130 | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 0911 00:30 0913 16:36 PS | |
| Acenaphthene | ND | ug/kg | 2100 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 2100 | | | |
| Hexachlorobenzene | ND | ug/kg | 2100 | | | |
| Bis(2-chloroethyl)ether | ND | ug/kg | 2100 | | | |
| 2-Chloronaphthalene | ND | ug/kg | 2500 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 2100 | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 2100 | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 2100 | | | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 4200 | | | |
| 2,4-Dinitrotoluene | ND | ug/kg | 2100 | | | |
| 2,6-Dinitrotoluene | ND | ug/kg | 2100 | | | |
| Fluoranthene | ND | ug/kg | 2100 | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/kg | 2100 | | | |
| 4-Bromophenyl phenyl ether | ND | ug/kg | 2100 | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/kg | 2100 | | | |
| Bis(2-chloroethoxy)methane | ND | ug/kg | 2100 | | | |
| Hexachlorobutadiene | ND | ug/kg | 4200 | | | |
| Hexachlorocyclopentadiene | ND | ug/kg | 4200 | | | |
| Hexachloroethane | ND | ug/kg | 2100 | | | |
| Isophorone | ND | ug/kg | 2100 | | | |
| Naphthalene | ND | ug/kg | 2100 | | | |
| Nitrobenzene | ND | ug/kg | 2100 | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/kg | 6300 | | | |
| n-Nitrosodi-n-propylamine | ND | ug/kg | 2100 | | | |
| Bis(2-Ethylhexyl)phthalate | ND | ug/kg | 4200 | | | |
| Butyl benzyl phthalate | ND | ug/kg | 2100 | | | |
| Di-n-butylphthalate | ND | ug/kg | 2100 | | | |
| Di-n-octylphthalate | ND | ug/kg | 2100 | | | |
| Diethyl phthalate | ND | ug/kg | 2100 | | | |
| Dimethyl phthalate | ND | ug/kg | 2100 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-27
PWG-DW-2008-23 (3-3.5')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---|----------|-------|-------------|------------|-------|-----------------------|----|
| | | | | | PREP | ANAL | |
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 | 8270C | 0911 00:30 0913 16:36 | PS |
| Benzo(a)anthracene | ND | ug/kg | 2100 | | | | |
| Benzo(a)pyrene | ND | ug/kg | 2100 | | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 2100 | | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 2100 | | | | |
| Chrysene | ND | ug/kg | 2100 | | | | |
| Acenaphthylene | ND | ug/kg | 2100 | | | | |
| Anthracene | ND | ug/kg | 2100 | | | | |
| Benzo(ghi)perylene | ND | ug/kg | 2100 | | | | |
| Fluorene | ND | ug/kg | 2100 | | | | |
| Phenanthrene | ND | ug/kg | 2100 | | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 2100 | | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 2100 | | | | |
| Pyrene | ND | ug/kg | 2100 | | | | |
| Biphenyl | ND | ug/kg | 2100 | | | | |
| 4-Chloroaniline | ND | ug/kg | 2100 | | | | |
| 2-Nitroaniline | ND | ug/kg | 2100 | | | | |
| 3-Nitroaniline | ND | ug/kg | 2100 | | | | |
| 4-Nitroaniline | ND | ug/kg | 3000 | | | | |
| Dibenzofuran | ND | ug/kg | 2100 | | | | |
| 2-Methylnaphthalene | ND | ug/kg | 2100 | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/kg | 8400 | | | | |
| Acetophenone | ND | ug/kg | 8400 | | | | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 2100 | | | | |
| P-Chloro-M-Cresol | ND | ug/kg | 2100 | | | | |
| 2-Chlorophenol | ND | ug/kg | 2500 | | | | |
| 2,4-Dichlorophenol | ND | ug/kg | 4200 | | | | |
| 2,4-Dimethylphenol | ND | ug/kg | 2100 | | | | |
| 2-Nitrophenol | ND | ug/kg | 8400 | | | | |
| 4-Nitrophenol | ND | ug/kg | 4200 | | | | |
| 2,4-Dinitrophenol | ND | ug/kg | 8400 | | | | |
| 4,6-Dinitro-o-cresol | ND | ug/kg | 8400 | | | | |
| Pentachlorophenol | ND | ug/kg | 8400 | | | | |
| Phenol | ND | ug/kg | 3000 | | | | |
| 2-Methylphenol | ND | ug/kg | 2500 | | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/kg | 2500 | | | | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 2100 | | | | |
| Benzoic Acid | ND | ug/kg | 21000 | | | | |
| Benzyl Alcohol | ND | ug/kg | 4200 | | | | |
| Carbazole | ND | ug/kg | 2100 | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | |
| 2-Fluorophenol | 71.0 | % | 25-120 | | | | |
| Phenol-d6 | 78.0 | % | 10-120 | | | | |
| Nitrobenzene-d5 | 68.0 | % | 23-120 | | | | |
| 2-Fluorobiphenyl | 82.0 | % | 30-120 | | | | |
| 2,4,6-Tribromophenol | 90.0 | % | 19-120 | | | | |
| 4-Terphenyl-d14 | 76.0 | % | 18-120 | | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 | 8270C | 0911 00:30 0914 03:44 | AK |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-27
PWG-DW-2008-23 (3-3.5')

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---|----------|-------|-------------|-----|----------|------------|------------|----|
| | | | | | | PREP | ANAL | |
| Semivolatile Organics by EPA 8270C-SIM cont'd | | | | 1 | 8270C | 0911 00:30 | 0914 03:44 | AK |
| Acenaphthene | ND | ug/kg | 840 | | | | | |
| 2-Chloronaphthalene | ND | ug/kg | 840 | | | | | |
| Fluoranthene | ND | ug/kg | 840 | | | | | |
| Hexachlorobutadiene | ND | ug/kg | 2100 | | | | | |
| Naphthalene | ND | ug/kg | 840 | | | | | |
| Benzo(a)anthracene | ND | ug/kg | 840 | | | | | |
| Benzo(a)pyrene | ND | ug/kg | 840 | | | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 840 | | | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 840 | | | | | |
| Chrysene | ND | ug/kg | 840 | | | | | |
| Acenaphthylene | ND | ug/kg | 840 | | | | | |
| Anthracene | ND | ug/kg | 840 | | | | | |
| Benzo(ghi)perylene | ND | ug/kg | 840 | | | | | |
| Fluorene | ND | ug/kg | 840 | | | | | |
| Phenanthrene | ND | ug/kg | 840 | | | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 840 | | | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 840 | | | | | |
| Pyrene | ND | ug/kg | 840 | | | | | |
| 2-Methylnaphthalene | ND | ug/kg | 840 | | | | | |
| Pentachlorophenol | ND | ug/kg | 3400 | | | | | |
| Hexachlorobenzene | ND | ug/kg | 3400 | | | | | |
| Hexachloroethane | ND | ug/kg | 3400 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 2-Fluorophenol | ND | % | 25-120 | | | | | |
| Phenol-d6 | ND | % | 10-120 | | | | | |
| Nitrobenzene-d5 | ND | % | 23-120 | | | | | |
| 2-Fluorobiphenyl | ND | % | 30-120 | | | | | |
| 2,4,6-Tribromophenol | ND | % | 19-120 | | | | | |
| 4-Terphenyl-d14 | ND | % | 18-120 | | | | | |
| Petroleum Hydrocarbon Quantitation by GC-FID | | | | 1 | 8015B(M) | 0911 01:00 | 0912 02:03 | JL |
| TPH | ND | ug/kg | 211000 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| o-Terphenyl | 84.0 | % | 40-140 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0813344-28 | Date Collected: 08-SEP-2008 15:50 |
| PWG-DW-2008-24 (6-6.5') | Date Received : 09-SEP-2008 |
| Sample Matrix: SOIL | Date Reported : 25-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 3-Amber,1-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-----------------------|----|
| Solids, Total | 75 | % | 0.10 | 30 2540G | 0910 19:00 | NM |
| Total Metals | | | | | | |
| Aluminum, Total | 2800 | mg/kg | 6.1 | 1 6010B | 0910 13:30 0911 16:14 | AI |
| Antimony, Total | ND | mg/kg | 3.1 | 1 6010B | 0910 13:30 0911 16:14 | AI |
| Arsenic, Total | 1.4 | mg/kg | 0.61 | 1 6010B | 0910 13:30 0911 16:14 | AI |
| Barium, Total | 6.2 | mg/kg | 0.61 | 1 6010B | 0910 13:30 0911 16:14 | AI |
| Beryllium, Total | ND | mg/kg | 0.31 | 1 6010B | 0910 13:30 0911 16:14 | AI |
| Cadmium, Total | ND | mg/kg | 0.61 | 1 6010B | 0910 13:30 0911 16:14 | AI |
| Calcium, Total | 3400 | mg/kg | 6.1 | 1 6010B | 0910 13:30 0911 16:14 | AI |
| Chromium, Total | 7.2 | mg/kg | 0.61 | 1 6010B | 0910 13:30 0911 16:14 | AI |
| Cobalt, Total | ND | mg/kg | 1.2 | 1 6010B | 0910 13:30 0911 16:14 | AI |
| Copper, Total | 13 | mg/kg | 0.61 | 1 6010B | 0910 13:30 0911 16:14 | AI |
| Iron, Total | 4400 | mg/kg | 3.1 | 1 6010B | 0910 13:30 0911 16:14 | AI |
| Lead, Total | 37 | mg/kg | 3.1 | 1 6010B | 0910 13:30 0911 16:14 | AI |
| Magnesium, Total | 2300 | mg/kg | 6.1 | 1 6010B | 0910 13:30 0911 16:14 | AI |
| Manganese, Total | 15 | mg/kg | 0.61 | 1 6010B | 0910 13:30 0911 16:14 | AI |
| Mercury, Total | 0.29 | mg/kg | 0.11 | 1 7471A | 0912 20:30 0914 14:01 | HG |
| Nickel, Total | 4.0 | mg/kg | 1.5 | 1 6010B | 0910 13:30 0911 16:14 | AI |
| Potassium, Total | ND | mg/kg | 150 | 1 6010B | 0910 13:30 0911 16:14 | AI |
| Selenium, Total | ND | mg/kg | 1.2 | 1 6010B | 0910 13:30 0911 16:14 | AI |
| Silver, Total | ND | mg/kg | 0.61 | 1 6010B | 0910 13:30 0911 16:14 | AI |
| Sodium, Total | ND | mg/kg | 120 | 1 6010B | 0910 13:30 0911 16:14 | AI |
| Thallium, Total | ND | mg/kg | 1.2 | 1 6010B | 0910 13:30 0911 16:14 | AI |
| Vanadium, Total | 10 | mg/kg | 0.61 | 1 6010B | 0910 13:30 0911 16:14 | AI |
| Zinc, Total | 54 | mg/kg | 3.1 | 1 6010B | 0910 13:30 0911 16:14 | AI |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0912 18:44 | PD |
| Methylene chloride | ND | ug/kg | 33. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 5.0 | | | |
| Chloroform | ND | ug/kg | 5.0 | | | |
| Carbon tetrachloride | ND | ug/kg | 3.3 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 12. | | | |
| Dibromochloromethane | ND | ug/kg | 3.3 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 5.0 | | | |
| Tetrachloroethene | ND | ug/kg | 3.3 | | | |
| Chlorobenzene | ND | ug/kg | 3.3 | | | |
| Trichlorofluoromethane | ND | ug/kg | 17. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-28
PWG-DW-2008-24 (6-6.5')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---------------------------------------|--------|-------|-----|------------|-------|---------------|----|
| | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0912 18:44 PD | |
| 1,2-Dichloroethane | ND | ug/kg | 3.3 | | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 3.3 | | | | |
| Bromodichloromethane | ND | ug/kg | 3.3 | | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 3.3 | | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 3.3 | | | | |
| 1,1-Dichloropropene | ND | ug/kg | 17. | | | | |
| Bromoform | ND | ug/kg | 13. | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 3.3 | | | | |
| Benzene | ND | ug/kg | 3.3 | | | | |
| Toluene | ND | ug/kg | 5.0 | | | | |
| Ethylbenzene | ND | ug/kg | 3.3 | | | | |
| Chloromethane | ND | ug/kg | 17. | | | | |
| Bromomethane | ND | ug/kg | 6.7 | | | | |
| Vinyl chloride | ND | ug/kg | 6.7 | | | | |
| Chloroethane | ND | ug/kg | 6.7 | | | | |
| 1,1-Dichloroethene | ND | ug/kg | 3.3 | | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 5.0 | | | | |
| Trichloroethene | ND | ug/kg | 3.3 | | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 17. | | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 17. | | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 17. | | | | |
| Methyl tert butyl ether | ND | ug/kg | 6.7 | | | | |
| p/m-Xylene | ND | ug/kg | 6.7 | | | | |
| o-Xylene | ND | ug/kg | 6.7 | | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 3.3 | | | | |
| Dibromomethane | ND | ug/kg | 33. | | | | |
| Styrene | ND | ug/kg | 6.7 | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 33. | | | | |
| Acetone | ND | ug/kg | 33. | | | | |
| Carbon disulfide | ND | ug/kg | 33. | | | | |
| 2-Butanone | ND | ug/kg | 33. | | | | |
| Vinyl acetate | ND | ug/kg | 33. | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 33. | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 33. | | | | |
| 2-Hexanone | ND | ug/kg | 33. | | | | |
| Bromochloromethane | ND | ug/kg | 17. | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 17. | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 13. | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 17. | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 3.3 | | | | |
| Bromobenzene | ND | ug/kg | 17. | | | | |
| n-Butylbenzene | ND | ug/kg | 3.3 | | | | |
| sec-Butylbenzene | ND | ug/kg | 3.3 | | | | |
| tert-Butylbenzene | ND | ug/kg | 17. | | | | |
| o-Chlorotoluene | ND | ug/kg | 17. | | | | |
| p-Chlorotoluene | ND | ug/kg | 17. | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 17. | | | | |
| Hexachlorobutadiene | ND | ug/kg | 17. | | | | |
| Isopropylbenzene | ND | ug/kg | 3.3 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-28
PWG-DW-2008-24 (6-6.5')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|--------------------------|----|
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0912 18:44 PD | |
| p-Isopropyltoluene | ND | ug/kg | 3.3 | | | |
| Naphthalene | ND | ug/kg | 17. | | | |
| Acrylonitrile | ND | ug/kg | 33. | | | |
| n-Propylbenzene | ND | ug/kg | 3.3 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 17. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 17. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 17. | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 17. | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 13. | | | |
| 4-Ethyltoluene | ND | ug/kg | 13. | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 13. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 98.0 | % | 70-130 | | | |
| Toluene-d8 | 108 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 95.0 | % | 70-130 | | | |
| Dibromofluoromethane | 95.0 | % | 70-130 | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 0911 00:30 0913 16:59 PS | |
| Acenaphthene | ND | ug/kg | 440 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 440 | | | |
| Hexachlorobenzene | ND | ug/kg | 440 | | | |
| Bis(2-chloroethyl)ether | ND | ug/kg | 440 | | | |
| 2-Chloronaphthalene | ND | ug/kg | 530 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 440 | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 440 | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 440 | | | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 890 | | | |
| 2,4-Dinitrotoluene | ND | ug/kg | 440 | | | |
| 2,6-Dinitrotoluene | ND | ug/kg | 440 | | | |
| Fluoranthene | ND | ug/kg | 440 | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/kg | 440 | | | |
| 4-Bromophenyl phenyl ether | ND | ug/kg | 440 | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/kg | 440 | | | |
| Bis(2-chloroethoxy)methane | ND | ug/kg | 440 | | | |
| Hexachlorobutadiene | ND | ug/kg | 890 | | | |
| Hexachlorocyclopentadiene | ND | ug/kg | 890 | | | |
| Hexachloroethane | ND | ug/kg | 440 | | | |
| Isophorone | ND | ug/kg | 440 | | | |
| Naphthalene | ND | ug/kg | 440 | | | |
| Nitrobenzene | ND | ug/kg | 440 | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/kg | 1300 | | | |
| n-Nitrosodi-n-propylamine | ND | ug/kg | 440 | | | |
| Bis(2-Ethylhexyl)phthalate | ND | ug/kg | 890 | | | |
| Butyl benzyl phthalate | ND | ug/kg | 440 | | | |
| Di-n-butylphthalate | ND | ug/kg | 440 | | | |
| Di-n-octylphthalate | ND | ug/kg | 440 | | | |
| Diethyl phthalate | ND | ug/kg | 440 | | | |
| Dimethyl phthalate | ND | ug/kg | 440 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-28
PWG-DW-2008-24 (6-6.5')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 8270C | 0911 00:30 0913 16:59 PS | |
| Benzo(a)anthracene | ND | ug/kg | 440 | | | |
| Benzo(a)pyrene | ND | ug/kg | 440 | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 440 | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 440 | | | |
| Chrysene | ND | ug/kg | 440 | | | |
| Acenaphthylene | ND | ug/kg | 440 | | | |
| Anthracene | ND | ug/kg | 440 | | | |
| Benzo(ghi)perylene | ND | ug/kg | 440 | | | |
| Fluorene | ND | ug/kg | 440 | | | |
| Phenanthrene | ND | ug/kg | 440 | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 440 | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 440 | | | |
| Pyrene | ND | ug/kg | 440 | | | |
| Biphenyl | ND | ug/kg | 440 | | | |
| 4-Chloroaniline | ND | ug/kg | 440 | | | |
| 2-Nitroaniline | ND | ug/kg | 440 | | | |
| 3-Nitroaniline | ND | ug/kg | 440 | | | |
| 4-Nitroaniline | ND | ug/kg | 620 | | | |
| Dibenzofuran | ND | ug/kg | 440 | | | |
| 2-Methylnaphthalene | ND | ug/kg | 440 | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/kg | 1800 | | | |
| Acetophenone | ND | ug/kg | 1800 | | | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 440 | | | |
| p-Chloro-M-Cresol | ND | ug/kg | 440 | | | |
| 2-Chlorophenol | ND | ug/kg | 530 | | | |
| 2,4-Dichlorophenol | ND | ug/kg | 890 | | | |
| 2,4-Dimethylphenol | ND | ug/kg | 440 | | | |
| 2-Nitrophenol | ND | ug/kg | 1800 | | | |
| 4-Nitrophenol | ND | ug/kg | 890 | | | |
| 2,4-Dinitrophenol | ND | ug/kg | 1800 | | | |
| 4,6-Dinitro-o-cresol | ND | ug/kg | 1800 | | | |
| Pentachlorophenol | ND | ug/kg | 1800 | | | |
| Phenol | ND | ug/kg | 620 | | | |
| 2-Methylphenol | ND | ug/kg | 530 | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/kg | 530 | | | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 440 | | | |
| Benzoic Acid | ND | ug/kg | 4400 | | | |
| Benzyl Alcohol | ND | ug/kg | 890 | | | |
| Carbazole | ND | ug/kg | 440 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 68.0 | % | 25-120 | | | |
| Phenol-d6 | 67.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 56.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 60.0 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 77.0 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 59.0 | % | 18-120 | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 8270C | 0911 00:30 0914 04:31 AK | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-28
PWG-DW-2008-24 (6-6.5')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C-SIM cont'd | | | | 1 8270C | 0911 00:30 0914 04:31 AK | |
| Acenaphthene | ND | ug/kg | 89. | | | |
| 2-Chloronaphthalene | ND | ug/kg | 89. | | | |
| Fluoranthene | 170 | ug/kg | 89 | | | |
| Hexachlorobutadiene | ND | ug/kg | 220 | | | |
| Naphthalene | ND | ug/kg | 89. | | | |
| Benzo(a)anthracene | ND | ug/kg | 89. | | | |
| Benzo(a)pyrene | ND | ug/kg | 89. | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 89. | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 89. | | | |
| Chrysene | ND | ug/kg | 89. | | | |
| Acenaphthylene | ND | ug/kg | 89. | | | |
| Anthracene | ND | ug/kg | 89. | | | |
| Benzo(ghi)perylene | ND | ug/kg | 89. | | | |
| Fluorene | ND | ug/kg | 89. | | | |
| Phenanthrene | ND | ug/kg | 89. | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 89. | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 89. | | | |
| Pyrene | 210 | ug/kg | 89 | | | |
| 2-Methylnaphthalene | ND | ug/kg | 89. | | | |
| Pentachlorophenol | ND | ug/kg | 360 | | | |
| Hexachlorobenzene | ND | ug/kg | 360 | | | |
| Hexachloroethane | ND | ug/kg | 360 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 57.0 | % | 25-120 | | | |
| Phenol-d6 | 60.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 49.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 54.0 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 53.0 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 49.0 | % | 18-120 | | | |
| Petroleum Hydrocarbon Quantitation by GC-FID | | | | 1 8015B(M) | 0911 01:00 0912 11:29 JL | |
| TPH | 934000 | ug/kg | 222000 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| o-Terphenyl | 73.0 | % | 40-140 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0813344-29 | Date Collected: 08-SEP-2008 16:05 |
| PWG-DW-2008-25 (5.75-6.25') | Date Received : 09-SEP-2008 |
| Sample Matrix: SOIL | Date Reported : 25-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 3-Amber,1-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-----------------------|----|
| Solids, Total | 80 | % | 0.10 | 30 2540G | 0910 19:00 | NM |
| Total Metals | | | | | | |
| Aluminum, Total | 16000 | mg/kg | 12 | 1 6010B | 0910 13:30 0916 11:58 | MG |
| Antimony, Total | ND | mg/kg | 3.0 | 1 6010B | 0910 13:30 0911 16:17 | AI |
| Arsenic, Total | 3.0 | mg/kg | 0.60 | 1 6010B | 0910 13:30 0911 16:17 | AI |
| Barium, Total | 43 | mg/kg | 0.60 | 1 6010B | 0910 13:30 0911 16:17 | AI |
| Beryllium, Total | ND | mg/kg | 0.30 | 1 6010B | 0910 13:30 0911 16:17 | AI |
| Cadmium, Total | ND | mg/kg | 0.60 | 1 6010B | 0910 13:30 0911 16:17 | AI |
| Calcium, Total | 3900 | mg/kg | 6.0 | 1 6010B | 0910 13:30 0911 16:17 | AI |
| Chromium, Total | 20 | mg/kg | 0.60 | 1 6010B | 0910 13:30 0911 16:17 | AI |
| Cobalt, Total | 4.4 | mg/kg | 1.2 | 1 6010B | 0910 13:30 0911 16:17 | AI |
| Copper, Total | 14 | mg/kg | 0.60 | 1 6010B | 0910 13:30 0911 16:17 | AI |
| Iron, Total | 24000 | mg/kg | 3.0 | 1 6010B | 0910 13:30 0911 16:17 | AI |
| Lead, Total | 13 | mg/kg | 3.0 | 1 6010B | 0910 13:30 0911 16:17 | AI |
| Magnesium, Total | 5200 | mg/kg | 6.0 | 1 6010B | 0910 13:30 0911 16:17 | AI |
| Manganese, Total | 130 | mg/kg | 0.60 | 1 6010B | 0910 13:30 0911 16:17 | AI |
| Mercury, Total | ND | mg/kg | 0.10 | 1 7471A | 0912 20:30 0914 14:03 | HG |
| Nickel, Total | 12 | mg/kg | 1.5 | 1 6010B | 0910 13:30 0911 16:17 | AI |
| Potassium, Total | 1300 | mg/kg | 150 | 1 6010B | 0910 13:30 0911 16:17 | AI |
| Selenium, Total | ND | mg/kg | 1.2 | 1 6010B | 0910 13:30 0911 16:17 | AI |
| Silver, Total | ND | mg/kg | 0.60 | 1 6010B | 0910 13:30 0911 16:17 | AI |
| Sodium, Total | ND | mg/kg | 120 | 1 6010B | 0910 13:30 0911 16:17 | AI |
| Thallium, Total | ND | mg/kg | 2.4 | 1 6010B | 0910 13:30 0916 11:58 | MG |
| Vanadium, Total | 31 | mg/kg | 0.60 | 1 6010B | 0910 13:30 0911 16:17 | AI |
| Zinc, Total | 37 | mg/kg | 3.0 | 1 6010B | 0910 13:30 0911 16:17 | AI |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0912 19:21 | PD |
| Methylene chloride | ND | ug/kg | 31. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 4.7 | | | |
| Chloroform | ND | ug/kg | 4.7 | | | |
| Carbon tetrachloride | ND | ug/kg | 3.1 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 11. | | | |
| Dibromochloromethane | ND | ug/kg | 3.1 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 4.7 | | | |
| Tetrachloroethene | ND | ug/kg | 3.1 | | | |
| Chlorobenzene | ND | ug/kg | 3.1 | | | |
| Trichlorofluoromethane | ND | ug/kg | 16. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-29
PWG-DW-2008-25 (5.75-6.25')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---------------------------------------|--------|-------|-----|------------|-------|---------------|----|
| | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0912 19:21 PD | |
| 1,2-Dichloroethane | ND | ug/kg | 3.1 | | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 3.1 | | | | |
| Bromodichloromethane | ND | ug/kg | 3.1 | | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 3.1 | | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 3.1 | | | | |
| 1,1-Dichloropropene | ND | ug/kg | 16. | | | | |
| Bromoform | ND | ug/kg | 12. | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 3.1 | | | | |
| Benzene | ND | ug/kg | 3.1 | | | | |
| Toluene | ND | ug/kg | 4.7 | | | | |
| Ethylbenzene | ND | ug/kg | 3.1 | | | | |
| Chloromethane | ND | ug/kg | 16. | | | | |
| Bromomethane | ND | ug/kg | 6.2 | | | | |
| Vinyl chloride | ND | ug/kg | 6.2 | | | | |
| Chloroethane | ND | ug/kg | 6.2 | | | | |
| 1,1-Dichloroethene | ND | ug/kg | 3.1 | | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 4.7 | | | | |
| Trichloroethene | ND | ug/kg | 3.1 | | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 16. | | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 16. | | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 16. | | | | |
| Methyl tert butyl ether | ND | ug/kg | 6.2 | | | | |
| p/m-Xylene | ND | ug/kg | 6.2 | | | | |
| o-Xylene | ND | ug/kg | 6.2 | | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 3.1 | | | | |
| Dibromomethane | ND | ug/kg | 31. | | | | |
| Styrene | ND | ug/kg | 6.2 | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 31. | | | | |
| Acetone | ND | ug/kg | 31. | | | | |
| Carbon disulfide | ND | ug/kg | 31. | | | | |
| 2-Butanone | ND | ug/kg | 31. | | | | |
| Vinyl acetate | ND | ug/kg | 31. | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 31. | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 31. | | | | |
| 2-Hexanone | ND | ug/kg | 31. | | | | |
| Bromochloromethane | ND | ug/kg | 16. | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 16. | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 12. | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 16. | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 3.1 | | | | |
| Bromobenzene | ND | ug/kg | 16. | | | | |
| n-Butylbenzene | ND | ug/kg | 3.1 | | | | |
| sec-Butylbenzene | ND | ug/kg | 3.1 | | | | |
| tert-Butylbenzene | ND | ug/kg | 16. | | | | |
| o-Chlorotoluene | ND | ug/kg | 16. | | | | |
| p-Chlorotoluene | ND | ug/kg | 16. | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 16. | | | | |
| Hexachlorobutadiene | ND | ug/kg | 16. | | | | |
| Isopropylbenzene | ND | ug/kg | 3.1 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-29
PWG-DW-2008-25 (5.75-6.25')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|-----------------------|----|
| <hr/> | | | | | | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0912 19:21 | PD |
| p-Isopropyltoluene | ND | ug/kg | 3.1 | | | |
| Naphthalene | ND | ug/kg | 16. | | | |
| Acrylonitrile | ND | ug/kg | 31. | | | |
| n-Propylbenzene | ND | ug/kg | 3.1 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 16. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 16. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 16. | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 16. | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 12. | | | |
| 4-Ethyltoluene | ND | ug/kg | 12. | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 12. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 96.0 | % | 70-130 | | | |
| Toluene-d8 | 103 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 108 | % | 70-130 | | | |
| Dibromofluoromethane | 92.0 | % | 70-130 | | | |
| <hr/> | | | | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 0911 00:30 0913 17:23 | PS |
| Acenaphthene | ND | ug/kg | 420 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 420 | | | |
| Hexachlorobenzene | ND | ug/kg | 420 | | | |
| Bis(2-chloroethyl)ether | ND | ug/kg | 420 | | | |
| 2-Chloronaphthalene | ND | ug/kg | 500 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 420 | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 420 | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 420 | | | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 830 | | | |
| 2,4-Dinitrotoluene | ND | ug/kg | 420 | | | |
| 2,6-Dinitrotoluene | ND | ug/kg | 420 | | | |
| Fluoranthene | ND | ug/kg | 420 | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/kg | 420 | | | |
| 4-Bromophenyl phenyl ether | ND | ug/kg | 420 | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/kg | 420 | | | |
| Bis(2-chloroethoxy)methane | ND | ug/kg | 420 | | | |
| Hexachlorobutadiene | ND | ug/kg | 830 | | | |
| Hexachlorocyclopentadiene | ND | ug/kg | 830 | | | |
| Hexachloroethane | ND | ug/kg | 420 | | | |
| Isophorone | ND | ug/kg | 420 | | | |
| Naphthalene | ND | ug/kg | 420 | | | |
| Nitrobenzene | ND | ug/kg | 420 | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/kg | 1200 | | | |
| n-Nitrosodi-n-propylamine | ND | ug/kg | 420 | | | |
| Bis(2-Ethylhexyl)phthalate | ND | ug/kg | 830 | | | |
| Butyl benzyl phthalate | ND | ug/kg | 420 | | | |
| Di-n-butylphthalate | ND | ug/kg | 420 | | | |
| Di-n-octylphthalate | ND | ug/kg | 420 | | | |
| Diethyl phthalate | ND | ug/kg | 420 | | | |
| Dimethyl phthalate | ND | ug/kg | 420 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-29
PWG-DW-2008-25 (5.75-6.25')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 8270C | 0911 00:30 0913 17:23 PS | |
| Benzo(a)anthracene | ND | ug/kg | 420 | | | |
| Benzo(a)pyrene | ND | ug/kg | 420 | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 420 | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 420 | | | |
| Chrysene | ND | ug/kg | 420 | | | |
| Acenaphthylene | ND | ug/kg | 420 | | | |
| Anthracene | ND | ug/kg | 420 | | | |
| Benzo(ghi)perylene | ND | ug/kg | 420 | | | |
| Fluorene | ND | ug/kg | 420 | | | |
| Phenanthrene | ND | ug/kg | 420 | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 420 | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 420 | | | |
| Pyrene | ND | ug/kg | 420 | | | |
| Biphenyl | ND | ug/kg | 420 | | | |
| 4-Chloroaniline | ND | ug/kg | 420 | | | |
| 2-Nitroaniline | ND | ug/kg | 420 | | | |
| 3-Nitroaniline | ND | ug/kg | 420 | | | |
| 4-Nitroaniline | ND | ug/kg | 580 | | | |
| Dibenzofuran | ND | ug/kg | 420 | | | |
| 2-Methylnaphthalene | ND | ug/kg | 420 | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/kg | 1700 | | | |
| Acetophenone | ND | ug/kg | 1700 | | | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 420 | | | |
| p-Chloro-M-Cresol | ND | ug/kg | 420 | | | |
| 2-Chlorophenol | ND | ug/kg | 500 | | | |
| 2,4-Dichlorophenol | ND | ug/kg | 830 | | | |
| 2,4-Dimethylphenol | ND | ug/kg | 420 | | | |
| 2-Nitrophenol | ND | ug/kg | 1700 | | | |
| 4-Nitrophenol | ND | ug/kg | 830 | | | |
| 2,4-Dinitrophenol | ND | ug/kg | 1700 | | | |
| 4,6-Dinitro-o-cresol | ND | ug/kg | 1700 | | | |
| Pentachlorophenol | ND | ug/kg | 1700 | | | |
| Phenol | ND | ug/kg | 580 | | | |
| 2-Methylphenol | ND | ug/kg | 500 | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/kg | 500 | | | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 420 | | | |
| Benzoic Acid | ND | ug/kg | 4200 | | | |
| Benzyl Alcohol | ND | ug/kg | 830 | | | |
| Carbazole | ND | ug/kg | 420 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 60.0 | % | 25-120 | | | |
| Phenol-d6 | 60.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 55.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 56.0 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 67.0 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 59.0 | % | 18-120 | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 8270C | 0911 00:30 0914 05:18 AK | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-29
PWG-DW-2008-25 (5.75-6.25')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C-SIM cont'd | | | | 1 8270C | 0911 00:30 0914 05:18 AK | |
| Acenaphthene | ND | ug/kg | 17. | | | |
| 2-Chloronaphthalene | ND | ug/kg | 17. | | | |
| Fluoranthene | ND | ug/kg | 17. | | | |
| Hexachlorobutadiene | ND | ug/kg | 42. | | | |
| Naphthalene | ND | ug/kg | 17. | | | |
| Benzo(a)anthracene | ND | ug/kg | 17. | | | |
| Benzo(a)pyrene | ND | ug/kg | 17. | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 17. | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 17. | | | |
| Chrysene | ND | ug/kg | 17. | | | |
| Acenaphthylene | ND | ug/kg | 17. | | | |
| Anthracene | ND | ug/kg | 17. | | | |
| Benzo(ghi)perylene | ND | ug/kg | 17. | | | |
| Fluorene | ND | ug/kg | 17. | | | |
| Phenanthrene | ND | ug/kg | 17. | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 17. | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 17. | | | |
| Pyrene | ND | ug/kg | 17. | | | |
| 2-Methylnaphthalene | ND | ug/kg | 17. | | | |
| Pentachlorophenol | ND | ug/kg | 67. | | | |
| Hexachlorobenzene | ND | ug/kg | 67. | | | |
| Hexachloroethane | ND | ug/kg | 67. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 60.0 | % | 25-120 | | | |
| Phenol-d6 | 64.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 60.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 54.0 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 53.0 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 66.0 | % | 18-120 | | | |
| Petroleum Hydrocarbon Quantitation by GC-FID | | | | 1 8015B(M) | 0911 01:00 0912 03:12 JL | |
| TPH | ND | ug/kg | 41700 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| o-Terphenyl | 71.0 | % | 40-140 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0813344-30 **Date Collected:** 08-SEP-2008 16:15
Sample Matrix: PWG-DW-2008-26 (4.25-4.75') **Date Received :** 09-SEP-2008
Condition of Sample: SOIL **Date Reported :** 25-SEP-2008
Field Prep: None
Number & Type of Containers: 3-Amber,1-Vial

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-----------------------|----|
| Solids, Total | 84 | % | 0.10 | 30 2540G | 0910 19:00 | NM |
| Total Metals | | | | | | |
| Aluminum, Total | 1100 | mg/kg | 5.8 | 1 6010B | 0910 13:30 0911 16:20 | AI |
| Antimony, Total | ND | mg/kg | 2.9 | 1 6010B | 0910 13:30 0911 16:20 | AI |
| Arsenic, Total | ND | mg/kg | 0.58 | 1 6010B | 0910 13:30 0911 16:20 | AI |
| Barium, Total | 7.3 | mg/kg | 0.58 | 1 6010B | 0910 13:30 0911 16:20 | AI |
| Beryllium, Total | ND | mg/kg | 0.29 | 1 6010B | 0910 13:30 0911 16:20 | AI |
| Cadmium, Total | ND | mg/kg | 0.58 | 1 6010B | 0910 13:30 0911 16:20 | AI |
| Calcium, Total | 6400 | mg/kg | 5.8 | 1 6010B | 0910 13:30 0911 16:20 | AI |
| Chromium, Total | 4.7 | mg/kg | 0.58 | 1 6010B | 0910 13:30 0911 16:20 | AI |
| Cobalt, Total | 1.6 | mg/kg | 1.2 | 1 6010B | 0910 13:30 0911 16:20 | AI |
| Copper, Total | 11 | mg/kg | 0.58 | 1 6010B | 0910 13:30 0911 16:20 | AI |
| Iron, Total | 3600 | mg/kg | 2.9 | 1 6010B | 0910 13:30 0911 16:20 | AI |
| Lead, Total | 14 | mg/kg | 2.9 | 1 6010B | 0910 13:30 0911 16:20 | AI |
| Magnesium, Total | 4000 | mg/kg | 5.8 | 1 6010B | 0910 13:30 0911 16:20 | AI |
| Manganese, Total | 34 | mg/kg | 0.58 | 1 6010B | 0910 13:30 0911 16:20 | AI |
| Mercury, Total | ND | mg/kg | 0.10 | 1 7471A | 0912 20:30 0914 14:05 | HG |
| Nickel, Total | 2.3 | mg/kg | 1.5 | 1 6010B | 0910 13:30 0911 16:20 | AI |
| Potassium, Total | ND | mg/kg | 150 | 1 6010B | 0910 13:30 0911 16:20 | AI |
| Selenium, Total | ND | mg/kg | 1.2 | 1 6010B | 0910 13:30 0911 16:20 | AI |
| Silver, Total | ND | mg/kg | 0.58 | 1 6010B | 0910 13:30 0911 16:20 | AI |
| Sodium, Total | ND | mg/kg | 120 | 1 6010B | 0910 13:30 0911 16:20 | AI |
| Thallium, Total | ND | mg/kg | 1.2 | 1 6010B | 0910 13:30 0911 16:20 | AI |
| Vanadium, Total | 17 | mg/kg | 0.58 | 1 6010B | 0910 13:30 0911 16:20 | AI |
| Zinc, Total | 54 | mg/kg | 2.9 | 1 6010B | 0910 13:30 0911 16:20 | AI |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0912 19:57 | PD |
| Methylene chloride | ND | ug/kg | 30. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 4.5 | | | |
| Chloroform | ND | ug/kg | 4.5 | | | |
| Carbon tetrachloride | ND | ug/kg | 3.0 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 10. | | | |
| Dibromochloromethane | ND | ug/kg | 3.0 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 4.5 | | | |
| Tetrachloroethene | ND | ug/kg | 3.0 | | | |
| Chlorobenzene | ND | ug/kg | 3.0 | | | |
| Trichlorofluoromethane | ND | ug/kg | 15. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-30
PWG-DW-2008-26 (4.25-4.75')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---------------------------------------|--------|-------|-----|------------|-------|---------------|----|
| | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0912 19:57 PD | |
| 1,2-Dichloroethane | ND | ug/kg | 3.0 | | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 3.0 | | | | |
| Bromodichloromethane | ND | ug/kg | 3.0 | | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 3.0 | | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 3.0 | | | | |
| 1,1-Dichloropropene | ND | ug/kg | 15. | | | | |
| Bromoform | ND | ug/kg | 12. | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 3.0 | | | | |
| Benzene | ND | ug/kg | 3.0 | | | | |
| Toluene | ND | ug/kg | 4.5 | | | | |
| Ethylbenzene | ND | ug/kg | 3.0 | | | | |
| Chloromethane | ND | ug/kg | 15. | | | | |
| Bromomethane | ND | ug/kg | 6.0 | | | | |
| Vinyl chloride | ND | ug/kg | 6.0 | | | | |
| Chloroethane | ND | ug/kg | 6.0 | | | | |
| 1,1-Dichloroethene | ND | ug/kg | 3.0 | | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 4.5 | | | | |
| Trichloroethene | ND | ug/kg | 3.0 | | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 15. | | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 15. | | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 15. | | | | |
| Methyl tert butyl ether | ND | ug/kg | 6.0 | | | | |
| p/m-Xylene | ND | ug/kg | 6.0 | | | | |
| o-Xylene | ND | ug/kg | 6.0 | | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 3.0 | | | | |
| Dibromomethane | ND | ug/kg | 30. | | | | |
| Styrene | ND | ug/kg | 6.0 | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 30. | | | | |
| Acetone | ND | ug/kg | 30. | | | | |
| Carbon disulfide | ND | ug/kg | 30. | | | | |
| 2-Butanone | ND | ug/kg | 30. | | | | |
| Vinyl acetate | ND | ug/kg | 30. | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 30. | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 30. | | | | |
| 2-Hexanone | ND | ug/kg | 30. | | | | |
| Bromochloromethane | ND | ug/kg | 15. | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 15. | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 12. | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 15. | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 3.0 | | | | |
| Bromobenzene | ND | ug/kg | 15. | | | | |
| n-Butylbenzene | ND | ug/kg | 3.0 | | | | |
| sec-Butylbenzene | ND | ug/kg | 3.0 | | | | |
| tert-Butylbenzene | ND | ug/kg | 15. | | | | |
| o-Chlorotoluene | ND | ug/kg | 15. | | | | |
| p-Chlorotoluene | ND | ug/kg | 15. | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 15. | | | | |
| Hexachlorobutadiene | ND | ug/kg | 15. | | | | |
| Isopropylbenzene | ND | ug/kg | 3.0 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-30
PWG-DW-2008-26 (4.25-4.75')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|--------------------------|----|
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0912 19:57 PD | |
| p-Isopropyltoluene | ND | ug/kg | 3.0 | | | |
| Naphthalene | ND | ug/kg | 15. | | | |
| Acrylonitrile | ND | ug/kg | 30. | | | |
| n-Propylbenzene | ND | ug/kg | 3.0 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 15. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 15. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 15. | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 15. | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 12. | | | |
| 4-Ethyltoluene | ND | ug/kg | 12. | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 12. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 115 | % | 70-130 | | | |
| Toluene-d8 | 130 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 130 | % | 70-130 | | | |
| Dibromofluoromethane | 113 | % | 70-130 | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 0911 00:30 0913 17:46 PS | |
| Acenaphthene | ND | ug/kg | 2000 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 2000 | | | |
| Hexachlorobenzene | ND | ug/kg | 2000 | | | |
| Bis(2-chloroethyl)ether | ND | ug/kg | 2000 | | | |
| 2-Chloronaphthalene | ND | ug/kg | 2400 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 2000 | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 2000 | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 2000 | | | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 4000 | | | |
| 2,4-Dinitrotoluene | ND | ug/kg | 2000 | | | |
| 2,6-Dinitrotoluene | ND | ug/kg | 2000 | | | |
| Fluoranthene | ND | ug/kg | 2000 | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/kg | 2000 | | | |
| 4-Bromophenyl phenyl ether | ND | ug/kg | 2000 | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/kg | 2000 | | | |
| Bis(2-chloroethoxy)methane | ND | ug/kg | 2000 | | | |
| Hexachlorobutadiene | ND | ug/kg | 4000 | | | |
| Hexachlorocyclopentadiene | ND | ug/kg | 4000 | | | |
| Hexachloroethane | ND | ug/kg | 2000 | | | |
| Isophorone | ND | ug/kg | 2000 | | | |
| Naphthalene | ND | ug/kg | 2000 | | | |
| Nitrobenzene | ND | ug/kg | 2000 | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/kg | 6000 | | | |
| n-Nitrosodi-n-propylamine | ND | ug/kg | 2000 | | | |
| Bis(2-Ethylhexyl)phthalate | ND | ug/kg | 4000 | | | |
| Butyl benzyl phthalate | ND | ug/kg | 2000 | | | |
| Di-n-butylphthalate | ND | ug/kg | 2000 | | | |
| Di-n-octylphthalate | ND | ug/kg | 2000 | | | |
| Diethyl phthalate | ND | ug/kg | 2000 | | | |
| Dimethyl phthalate | ND | ug/kg | 2000 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-30
PWG-DW-2008-26 (4.25-4.75')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 8270C | 0911 00:30 0913 17:46 PS | |
| Benzo(a)anthracene | ND | ug/kg | 2000 | | | |
| Benzo(a)pyrene | ND | ug/kg | 2000 | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 2000 | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 2000 | | | |
| Chrysene | ND | ug/kg | 2000 | | | |
| Acenaphthylene | ND | ug/kg | 2000 | | | |
| Anthracene | ND | ug/kg | 2000 | | | |
| Benzo(ghi)perylene | ND | ug/kg | 2000 | | | |
| Fluorene | ND | ug/kg | 2000 | | | |
| Phenanthrene | ND | ug/kg | 2000 | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 2000 | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 2000 | | | |
| Pyrene | ND | ug/kg | 2000 | | | |
| Biphenyl | ND | ug/kg | 2000 | | | |
| 4-Chloroaniline | ND | ug/kg | 2000 | | | |
| 2-Nitroaniline | ND | ug/kg | 2000 | | | |
| 3-Nitroaniline | ND | ug/kg | 2000 | | | |
| 4-Nitroaniline | ND | ug/kg | 2800 | | | |
| Dibenzofuran | ND | ug/kg | 2000 | | | |
| 2-Methylnaphthalene | ND | ug/kg | 2000 | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/kg | 7900 | | | |
| Acetophenone | ND | ug/kg | 7900 | | | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 2000 | | | |
| p-Chloro-M-Cresol | ND | ug/kg | 2000 | | | |
| 2-Chlorophenol | ND | ug/kg | 2400 | | | |
| 2,4-Dichlorophenol | ND | ug/kg | 4000 | | | |
| 2,4-Dimethylphenol | ND | ug/kg | 2000 | | | |
| 2-Nitrophenol | ND | ug/kg | 7900 | | | |
| 4-Nitrophenol | ND | ug/kg | 4000 | | | |
| 2,4-Dinitrophenol | ND | ug/kg | 7900 | | | |
| 4,6-Dinitro-o-cresol | ND | ug/kg | 7900 | | | |
| Pentachlorophenol | ND | ug/kg | 7900 | | | |
| Phenol | ND | ug/kg | 2800 | | | |
| 2-Methylphenol | ND | ug/kg | 2400 | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/kg | 2400 | | | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 2000 | | | |
| Benzoic Acid | ND | ug/kg | 20000 | | | |
| Benzyl Alcohol | ND | ug/kg | 4000 | | | |
| Carbazole | ND | ug/kg | 2000 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 78.0 | % | 25-120 | | | |
| Phenol-d6 | 80.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 73.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 80.0 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 101 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 75.0 | % | 18-120 | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 8270C | 0911 00:30 0914 06:04 AK | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813344-30
PWG-DW-2008-26 (4.25-4.75')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C-SIM cont'd | | | | 1 8270C | 0911 00:30 0914 06:04 AK | |
| Acenaphthene | ND | ug/kg | 790 | | | |
| 2-Chloronaphthalene | ND | ug/kg | 790 | | | |
| Fluoranthene | ND | ug/kg | 790 | | | |
| Hexachlorobutadiene | ND | ug/kg | 2000 | | | |
| Naphthalene | ND | ug/kg | 790 | | | |
| Benzo(a)anthracene | ND | ug/kg | 790 | | | |
| Benzo(a)pyrene | ND | ug/kg | 790 | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 790 | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 790 | | | |
| Chrysene | ND | ug/kg | 790 | | | |
| Acenaphthylene | ND | ug/kg | 790 | | | |
| Anthracene | ND | ug/kg | 790 | | | |
| Benzo(ghi)perylene | ND | ug/kg | 790 | | | |
| Fluorene | ND | ug/kg | 790 | | | |
| Phenanthrene | ND | ug/kg | 790 | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 790 | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 790 | | | |
| Pyrene | ND | ug/kg | 790 | | | |
| 2-Methylnaphthalene | ND | ug/kg | 790 | | | |
| Pentachlorophenol | ND | ug/kg | 3200 | | | |
| Hexachlorobenzene | ND | ug/kg | 3200 | | | |
| Hexachloroethane | ND | ug/kg | 3200 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | ND | % | 25-120 | | | |
| Phenol-d6 | ND | % | 10-120 | | | |
| Nitrobenzene-d5 | ND | % | 23-120 | | | |
| 2-Fluorobiphenyl | ND | % | 30-120 | | | |
| 2,4,6-Tribromophenol | ND | % | 19-120 | | | |
| 4-Terphenyl-d14 | ND | % | 18-120 | | | |
| Petroleum Hydrocarbon Quantitation by GC-FID | | | | 1 8015B(M) | 0911 01:00 0912 03:46 JL | |
| TPH | 748000 | ug/kg | 198000 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| o-Terphenyl | 87.0 | % | 40-140 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0813344

| Parameter | Value 1 | Value 2 | Units | RPD | RPD Limits |
|--|---------|---------|-------|-----|------------|
| Solids, Total for sample(s) 13 (L0813279-02, WG336159-1) | | | | | |
| Solids, Total | 89 | 90 | % | 1 | 20 |
| Solids, Total for sample(s) 04-10,12,14-25 (L0813344-04, WG335817-1) | | | | | |
| Solids, Total | 84 | 84 | % | 0 | 20 |
| Solids, Total for sample(s) 26-30 (L0813350-01, WG335824-1) | | | | | |
| Solids, Total | 82 | 81 | % | 1 | 20 |
| Total Metals for sample(s) 26-30 (L0813344-26, WG335803-1) | | | | | |
| Aluminum, Total | 2200 | 1100 | mg/kg | 67 | 35 |
| Antimony, Total | ND | ND | mg/kg | NC | 35 |
| Arsenic, Total | 7.2 | 0.87 | mg/kg | 157 | 35 |
| Barium, Total | 6.9 | 5.2 | mg/kg | 28 | 35 |
| Beryllium, Total | 0.34 | ND | mg/kg | NC | 35 |
| Cadmium, Total | ND | ND | mg/kg | NC | 35 |
| Calcium, Total | 11000 | 8200 | mg/kg | 29 | 35 |
| Chromium, Total | 26 | 3.2 | mg/kg | 156 | 35 |
| Cobalt, Total | 1.7 | ND | mg/kg | NC | 35 |
| Copper, Total | 6.1 | 2.4 | mg/kg | 87 | 35 |
| Iron, Total | 15000 | 2000 | mg/kg | 153 | 35 |
| Lead, Total | 12 | 9.8 | mg/kg | 20 | 35 |
| Magnesium, Total | 7200 | 5100 | mg/kg | 34 | 35 |
| Manganese, Total | 34 | 23 | mg/kg | 39 | 35 |
| Nickel, Total | 3.8 | 1.5 | mg/kg | 87 | 35 |
| Potassium, Total | 130 | ND | mg/kg | NC | 35 |
| Selenium, Total | ND | ND | mg/kg | NC | 35 |
| Silver, Total | ND | ND | mg/kg | NC | 35 |
| Sodium, Total | ND | ND | mg/kg | NC | 35 |
| Thallium, Total | ND | ND | mg/kg | NC | 35 |
| Vanadium, Total | 14 | 3.5 | mg/kg | 120 | 35 |
| Zinc, Total | 24 | 14 | mg/kg | 53 | 35 |
| Total Metals for sample(s) 04-10,12,14-25 (L0813344-10, WG335802-1) | | | | | |
| Aluminum, Total | 1400 | 2600 | mg/kg | 60 | 35 |
| Antimony, Total | ND | ND | mg/kg | NC | 35 |
| Arsenic, Total | 0.82 | 1.2 | mg/kg | 38 | 35 |
| Barium, Total | 7.8 | 14 | mg/kg | 57 | 35 |
| Beryllium, Total | ND | ND | mg/kg | NC | 35 |
| Cadmium, Total | ND | 1.1 | mg/kg | NC | 35 |
| Calcium, Total | 13000 | 4200 | mg/kg | 102 | 35 |
| Chromium, Total | 9.2 | 12 | mg/kg | 26 | 35 |
| Cobalt, Total | ND | 2.6 | mg/kg | NC | 35 |
| Copper, Total | 14 | 34 | mg/kg | 83 | 35 |
| Iron, Total | 2400 | 5300 | mg/kg | 75 | 35 |
| Lead, Total | 60 | 130 | mg/kg | 74 | 35 |
| Magnesium, Total | 8800 | 2900 | mg/kg | 101 | 35 |
| Manganese, Total | 26 | 34 | mg/kg | 27 | 35 |
| Nickel, Total | 3.7 | 7.3 | mg/kg | 65 | 35 |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0813344

Continued

| Parameter | Value 1 | Value 2 | Units | RPD | RPD Limits |
|---|----------|---------|-------|-----|-------------|
| Total Metals for sample(s) 04-10,12,14-25 (L0813344-10, WG335802-1) | | | | | |
| Potassium, Total | 170 | 220 | mg/kg | 26 | 35 |
| Selenium, Total | ND | ND | mg/kg | NC | 35 |
| Silver, Total | ND | ND | mg/kg | NC | 35 |
| Sodium, Total | ND | ND | mg/kg | NC | 35 |
| Thallium, Total | ND | ND | mg/kg | NC | 35 |
| Vanadium, Total | 9.3 | 20 | mg/kg | 73 | 35 |
| Zinc, Total | 110 | 220 | mg/kg | 67 | 35 |
| Total Metals for sample(s) 25-30 (L0813344-25, WG336225-3) | | | | | |
| Mercury, Total | 1.1 | 0.80 | mg/kg | 32 | 35 |
| Petroleum Hydrocarbon Quantitation by GC-FID for sample(s) 04-10,12,14-19,21-25 (L0813344-16, W | | | | | |
| TPH | ND | ND | ug/kg | NC | 40 |
| Surrogate(s) | Recovery | | | | QC Criteria |
| o-Terphenyl | 59.0 | 71.0 | % | | 40-140 |
| Petroleum Hydrocarbon Quantitation by GC-FID for sample(s) 13,26-30 (L0813330-01, WG335859-3) | | | | | |
| TPH | ND | ND | ug/kg | NC | 40 |
| Surrogate(s) | Recovery | | | | QC Criteria |
| o-Terphenyl | 80.0 | 80.0 | % | | 40-140 |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0813344

| Parameter | % Recovery | QC Criteria |
|-----------|------------|-------------|
|-----------|------------|-------------|

Total Metals LCS for sample(s) 13 (WG336007-4)

| | | |
|------------------|-----|--------|
| Aluminum, Total | 105 | 75-125 |
| Antimony, Total | 97 | 75-125 |
| Arsenic, Total | 107 | 75-125 |
| Barium, Total | 100 | 75-125 |
| Beryllium, Total | 101 | 75-125 |
| Cadmium, Total | 103 | 75-125 |
| Calcium, Total | 93 | 75-125 |
| Chromium, Total | 93 | 75-125 |
| Cobalt, Total | 101 | 75-125 |
| Copper, Total | 101 | 75-125 |
| Iron, Total | 99 | 75-125 |
| Lead, Total | 99 | 75-125 |
| Magnesium, Total | 93 | 75-125 |
| Manganese, Total | 97 | 75-125 |
| Nickel, Total | 97 | 75-125 |
| Potassium, Total | 101 | 75-125 |
| Selenium, Total | 104 | 75-125 |
| Silver, Total | 98 | 75-125 |
| Sodium, Total | 105 | 75-125 |
| Thallium, Total | 97 | 75-125 |
| Vanadium, Total | 93 | 75-125 |
| Zinc, Total | 97 | 75-125 |

Total Metals LCS for sample(s) 26-30 (WG335803-4)

| | | |
|------------------|----|--------|
| Aluminum, Total | 89 | 75-125 |
| Antimony, Total | 89 | 75-125 |
| Arsenic, Total | 95 | 75-125 |
| Barium, Total | 91 | 75-125 |
| Beryllium, Total | 93 | 75-125 |
| Cadmium, Total | 96 | 75-125 |
| Calcium, Total | 89 | 75-125 |
| Chromium, Total | 93 | 75-125 |
| Cobalt, Total | 93 | 75-125 |
| Copper, Total | 89 | 75-125 |
| Iron, Total | 91 | 75-125 |
| Lead, Total | 96 | 75-125 |
| Magnesium, Total | 87 | 75-125 |
| Manganese, Total | 89 | 75-125 |
| Nickel, Total | 89 | 75-125 |
| Potassium, Total | 81 | 75-125 |
| Selenium, Total | 90 | 75-125 |
| Silver, Total | 95 | 75-125 |
| Sodium, Total | 89 | 75-125 |
| Thallium, Total | 91 | 75-125 |
| Vanadium, Total | 93 | 75-125 |
| Zinc, Total | 89 | 75-125 |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0813344

Continued

| Parameter | % Recovery | QC Criteria |
|--|------------|-------------|
| Total Metals LCS for sample(s) 04-10,12,14-25 (WG335802-5) | | |
| Aluminum, Total | 92 | 75-125 |
| Antimony, Total | 93 | 75-125 |
| Arsenic, Total | 100 | 75-125 |
| Barium, Total | 94 | 75-125 |
| Beryllium, Total | 97 | 75-125 |
| Cadmium, Total | 99 | 75-125 |
| Calcium, Total | 93 | 75-125 |
| Chromium, Total | 97 | 75-125 |
| Cobalt, Total | 97 | 75-125 |
| Copper, Total | 97 | 75-125 |
| Iron, Total | 95 | 75-125 |
| Lead, Total | 99 | 75-125 |
| Magnesium, Total | 91 | 75-125 |
| Manganese, Total | 93 | 75-125 |
| Nickel, Total | 93 | 75-125 |
| Potassium, Total | 87 | 75-125 |
| Selenium, Total | 96 | 75-125 |
| Silver, Total | 101 | 75-125 |
| Sodium, Total | 93 | 75-125 |
| Thallium, Total | 94 | 75-125 |
| Vanadium, Total | 97 | 75-125 |
| Zinc, Total | 97 | 75-125 |
| Total Metals LCS for sample(s) 04-10,12-24 (WG336055-2) | | |
| Mercury, Total | 104 | 80-120 |
| Total Metals LCS for sample(s) 25-30 (WG336225-2) | | |
| Mercury, Total | 101 | 80-120 |
| Petroleum Hydrocarbon Quantitation by GC-FID LCS for sample(s) 04-10,12,14-19,21-25 (WG335858-2) | | |
| TPH | 82 | 40-140 |
| Surrogate(s) | | |
| o-Terphenyl | 77 | 40-140 |
| Petroleum Hydrocarbon Quantitation by GC-FID LCS for sample(s) 13,26-30 (WG335859-2) | | |
| TPH | 87 | 40-140 |
| Surrogate(s) | | |
| o-Terphenyl | 84 | 40-140 |
| Total Metals SPIKE for sample(s) 26-30 (L0813344-26, WG335803-2) | | |
| Aluminum, Total | 0 | 75-125 |
| Antimony, Total | 72 | 75-125 |
| Arsenic, Total | 0 | 75-125 |
| Barium, Total | 83 | 75-125 |
| Beryllium, Total | 74 | 75-125 |
| Cadmium, Total | 84 | 75-125 |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0813344

Continued

| Parameter | % Recovery | QC Criteria |
|--|------------|-------------|
| Total Metals SPIKE for sample(s) 26-30 (L0813344-26, WG335803-2) | | |
| Calcium, Total | 0 | 75-125 |
| Chromium, Total | 0 | 75-125 |
| Cobalt, Total | 80 | 75-125 |
| Copper, Total | 57 | 75-125 |
| Iron, Total | 0 | 75-125 |
| Lead, Total | 77 | 75-125 |
| Magnesium, Total | 0 | 75-125 |
| Manganese, Total | 40 | 75-125 |
| Nickel, Total | 72 | 75-125 |
| Potassium, Total | 124 | 75-125 |
| Selenium, Total | 87 | 75-125 |
| Silver, Total | 90 | 75-125 |
| Sodium, Total | 97 | 75-125 |
| Thallium, Total | 94 | 75-125 |
| Vanadium, Total | 47 | 75-125 |
| Zinc, Total | 43 | 75-125 |
| Total Metals SPIKE for sample(s) 25-30 (L0813344-25, WG336225-4) | | |
| Mercury, Total | 0 | 70-130 |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0813344

| Parameter | LCS % | LCSD % | RPD | RPD Limit | QC Limits |
|--|-------|--------|-----|-----------|-----------|
| Volatile Organics by EPA 8260B for sample(s) 24 (WG336400-4, WG336400-5) | | | | | |
| Chlorobenzene | 101 | 97 | 4 | 30 | 60-133 |
| Benzene | 95 | 94 | 1 | 30 | 66-142 |
| Toluene | 98 | 95 | 3 | 30 | 59-139 |
| 1,1-Dichloroethene | 91 | 92 | 1 | 30 | 59-172 |
| Trichloroethene | 95 | 93 | 2 | 30 | 62-137 |
| Surrogate(s) | | | | | |
| 1,2-Dichloroethane-d4 | 83 | 90 | 8 | | 70-130 |
| Toluene-d8 | 94 | 102 | 8 | | 70-130 |
| 4-Bromofluorobenzene | 92 | 102 | 10 | | 70-130 |
| Dibromofluoromethane | 89 | 97 | 9 | | 70-130 |
| Volatile Organics by EPA 8260B for sample(s) 04-08,12,14-20 (WG336351-1, WG336351-2) | | | | | |
| Chlorobenzene | 98 | 103 | 5 | 30 | 60-133 |
| Benzene | 92 | 97 | 5 | 30 | 66-142 |
| Toluene | 94 | 99 | 5 | 30 | 59-139 |
| 1,1-Dichloroethene | 90 | 96 | 6 | 30 | 59-172 |
| Trichloroethene | 94 | 100 | 6 | 30 | 62-137 |
| Surrogate(s) | | | | | |
| 1,2-Dichloroethane-d4 | 100 | 111 | 10 | | 70-130 |
| Toluene-d8 | 103 | 112 | 8 | | 70-130 |
| 4-Bromofluorobenzene | 102 | 110 | 8 | | 70-130 |
| Dibromofluoromethane | 102 | 112 | 9 | | 70-130 |
| Volatile Organics by EPA 8260B for sample(s) 01-03 (WG336088-1, WG336088-2) | | | | | |
| Chlorobenzene | 106 | 95 | 11 | 20 | 75-130 |
| Benzene | 106 | 96 | 10 | 20 | 76-127 |
| Toluene | 106 | 97 | 9 | 20 | 76-125 |
| 1,1-Dichloroethene | 104 | 95 | 9 | 20 | 61-145 |
| Trichloroethene | 101 | 92 | 9 | 20 | 71-120 |
| Surrogate(s) | | | | | |
| 1,2-Dichloroethane-d4 | 101 | 102 | 1 | | 70-130 |
| Toluene-d8 | 100 | 100 | 0 | | 70-130 |
| 4-Bromofluorobenzene | 100 | 101 | 1 | | 70-130 |
| Dibromofluoromethane | 98 | 99 | 1 | | 70-130 |
| Volatile Organics by EPA 8260B for sample(s) 26-30 (WG336400-1, WG336400-2) | | | | | |
| Chlorobenzene | 100 | 103 | 3 | 30 | 60-133 |
| Benzene | 95 | 99 | 4 | 30 | 66-142 |
| Toluene | 100 | 106 | 6 | 30 | 59-139 |
| 1,1-Dichloroethene | 92 | 100 | 8 | 30 | 59-172 |
| Trichloroethene | 97 | 102 | 5 | 30 | 62-137 |
| Surrogate(s) | | | | | |
| 1,2-Dichloroethane-d4 | 99 | 101 | 2 | | 70-130 |
| Toluene-d8 | 104 | 107 | 3 | | 70-130 |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0813344

Continued

| Parameter | LCS % | LCSD % | RPD | RPD Limit | QC Limits |
|--|-------|--------|-----|-----------|-----------|
| Volatile Organics by EPA 8260B for sample(s) 26-30 (WG336400-1, WG336400-2) | | | | | |
| 4-Bromofluorobenzene | 101 | 104 | 3 | | 70-130 |
| Dibromofluoromethane | 100 | 104 | 4 | | 70-130 |
| Volatile Organics by EPA 8260B for sample(s) 09-10,13,17,21-23,25 (WG336351-4, WG336351-5) | | | | | |
| Chlorobenzene | 100 | 103 | 5 | 30 | 60-133 |
| Benzene | 95 | 99 | 7 | 30 | 66-142 |
| Toluene | 100 | 106 | 12 | 30 | 59-139 |
| 1,1-Dichloroethene | 92 | 100 | 11 | 30 | 59-172 |
| Trichloroethene | 97 | 102 | 8 | 30 | 62-137 |
| Surrogate(s) | | | | | |
| 1,2-Dichloroethane-d4 | 99 | 101 | 2 | | 70-130 |
| Toluene-d8 | 104 | 107 | 3 | | 70-130 |
| 4-Bromofluorobenzene | 101 | 104 | 3 | | 70-130 |
| Dibromofluoromethane | 100 | 104 | 4 | | 70-130 |
| Semivolatile Organics by EPA 8270C for sample(s) 04 (WG336664-2, WG336664-3) | | | | | |
| Acenaphthene | 68 | 71 | 4 | 50 | 31-137 |
| 1,2,4-Trichlorobenzene | 62 | 63 | 2 | 50 | 38-107 |
| 2-Chloronaphthalene | 62 | 66 | 6 | 50 | 40-140 |
| 1,2-Dichlorobenzene | 64 | 68 | 6 | 50 | 40-140 |
| 1,4-Dichlorobenzene | 57 | 63 | 10 | 50 | 28-104 |
| 2,4-Dinitrotoluene | 84 | 86 | 2 | 50 | 28-89 |
| 2,6-Dinitrotoluene | 63 | 64 | 2 | 50 | 40-140 |
| Fluoranthene | 85 | 83 | 2 | 50 | 40-140 |
| 4-Chlorophenyl phenyl ether | 71 | 73 | 3 | 50 | 40-140 |
| n-Nitrosodi-n-propylamine | 66 | 68 | 3 | 50 | 41-126 |
| Butyl benzyl phthalate | 90 | 87 | 3 | 50 | 40-140 |
| Anthracene | 78 | 80 | 3 | 50 | 40-140 |
| Pyrene | 81 | 78 | 4 | 50 | 35-142 |
| P-Chloro-M-Cresol | 63 | 68 | 8 | 50 | 26-103 |
| 2-Chlorophenol | 63 | 65 | 3 | 50 | 25-102 |
| 2-Nitrophenol | 62 | 68 | 9 | 50 | 30-130 |
| 4-Nitrophenol | 71 | 77 | 8 | 50 | 11-114 |
| 2,4-Dinitrophenol | 36 | 40 | 11 | 50 | 30-130 |
| Pentachlorophenol | 67 | 62 | 8 | 50 | 17-109 |
| Phenol | 61 | 66 | 8 | 50 | 26-90 |
| Surrogate(s) | | | | | |
| 2-Fluorophenol | 74 | 75 | 1 | | 25-120 |
| Phenol-d6 | 68 | 72 | 6 | | 10-120 |
| Nitrobenzene-d5 | 62 | 66 | 6 | | 23-120 |
| 2-Fluorobiphenyl | 62 | 63 | 2 | | 30-120 |
| 2,4,6-Tribromophenol | 82 | 83 | 1 | | 19-120 |
| 4-Terphenyl-d14 | 68 | 65 | 5 | | 18-120 |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0813344

Continued

| Parameter | LCS % | LCSD % | RPD | RPD Limit | QC Limits |
|--|-------|--------|-----|-----------|-----------|
| Semivolatile Organics by EPA 8270C for sample(s) 13,20,26-30 (WG335861-2, WG335861-3) | | | | | |
| Acenaphthene | 77 | 72 | 7 | 50 | 31-137 |
| 1,2,4-Trichlorobenzene | 74 | 71 | 4 | 50 | 38-107 |
| 2-Chloronaphthalene | 76 | 72 | 5 | 50 | 40-140 |
| 1,2-Dichlorobenzene | 77 | 71 | 8 | 50 | 40-140 |
| 1,4-Dichlorobenzene | 72 | 71 | 1 | 50 | 28-104 |
| 2,4-Dinitrotoluene | 86 | 90 | 5 | 50 | 28-89 |
| 2,6-Dinitrotoluene | 71 | 71 | 0 | 50 | 40-140 |
| Fluoranthene | 88 | 87 | 1 | 50 | 40-140 |
| 4-Chlorophenyl phenyl ether | 76 | 73 | 4 | 50 | 40-140 |
| n-Nitrosodi-n-propylamine | 79 | 73 | 8 | 50 | 41-126 |
| Butyl benzyl phthalate | 86 | 88 | 2 | 50 | 40-140 |
| Anthracene | 84 | 83 | 1 | 50 | 40-140 |
| Pyrene | 86 | 84 | 2 | 50 | 35-142 |
| P-Chloro-M-Cresol | 78 | 73 | 7 | 50 | 26-103 |
| 2-Chlorophenol | 77 | 73 | 5 | 50 | 25-102 |
| 2-Nitrophenol | 78 | 72 | 8 | 50 | 30-130 |
| 4-Nitrophenol | 79 | 68 | 15 | 50 | 11-114 |
| 2,4-Dinitrophenol | 37 | 38 | 3 | 50 | 30-130 |
| Pentachlorophenol | 61 | 64 | 5 | 50 | 17-109 |
| Phenol | 80 | 72 | 11 | 50 | 26-90 |
| Surrogate(s) | | | | | |
| 2-Fluorophenol | 86 | 81 | 6 | | 25-120 |
| Phenol-d6 | 84 | 78 | 7 | | 10-120 |
| Nitrobenzene-d5 | 80 | 73 | 9 | | 23-120 |
| 2-Fluorobiphenyl | 72 | 71 | 1 | | 30-120 |
| 2,4,6-Tribromophenol | 89 | 86 | 3 | | 19-120 |
| 4-Terphenyl-d14 | 72 | 71 | 1 | | 18-120 |
| Semivolatile Organics by EPA 8270C for sample(s) 05-10,12,14-19,21-25 (WG335862-2, WG335862-3) | | | | | |
| Acenaphthene | 72 | 81 | 12 | 50 | 31-137 |
| 1,2,4-Trichlorobenzene | 68 | 68 | 0 | 50 | 38-107 |
| 2-Chloronaphthalene | 78 | 79 | 1 | 50 | 40-140 |
| 1,2-Dichlorobenzene | 66 | 72 | 9 | 50 | 40-140 |
| 1,4-Dichlorobenzene | 61 | 69 | 12 | 50 | 28-104 |
| 2,4-Dinitrotoluene | 90 | 88 | 2 | 50 | 28-89 |
| 2,6-Dinitrotoluene | 74 | 83 | 11 | 50 | 40-140 |
| Fluoranthene | 85 | 92 | 8 | 50 | 40-140 |
| 4-Chlorophenyl phenyl ether | 77 | 83 | 8 | 50 | 40-140 |
| n-Nitrosodi-n-propylamine | 72 | 80 | 11 | 50 | 41-126 |
| Butyl benzyl phthalate | 91 | 92 | 1 | 50 | 40-140 |
| Anthracene | 79 | 90 | 13 | 50 | 40-140 |
| Pyrene | 82 | 88 | 7 | 50 | 35-142 |
| P-Chloro-M-Cresol | 78 | 86 | 10 | 50 | 26-103 |
| 2-Chlorophenol | 66 | 71 | 7 | 50 | 25-102 |
| 2-Nitrophenol | 64 | 68 | 6 | 50 | 30-130 |
| 4-Nitrophenol | 76 | 71 | 7 | 50 | 11-114 |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0813344

Continued

| Parameter | LCS % | LCSD % | RPD | RPD Limit | QC Limits |
|---|-------|--------|-----|-----------|-----------|
| Semivolatile Organics by EPA 8270C for sample(s) 05-10,12,14-19,21-25 (WG335862-2, WG335862-3) | | | | | |
| 2,4-Dinitrophenol | 46 | 49 | 6 | 50 | 30-130 |
| Pentachlorophenol | 65 | 73 | 12 | 50 | 17-109 |
| Phenol | 66 | 72 | 9 | 50 | 26-90 |
| Surrogate(s) | | | | | |
| 2-Fluorophenol | 76 | 78 | 3 | | 25-120 |
| Phenol-d6 | 74 | 76 | 3 | | 10-120 |
| Nitrobenzene-d5 | 72 | 72 | 0 | | 23-120 |
| 2-Fluorobiphenyl | 72 | 76 | 5 | | 30-120 |
| 2,4,6-Tribromophenol | 79 | 92 | 15 | | 19-120 |
| 4-Terphenyl-d14 | 69 | 71 | 3 | | 18-120 |
| Semivolatile Organics by EPA 8270C-SIM for sample(s) 04-08,10,12,14-19,21-22,24-25 (WG335863-2, | | | | | |
| Acenaphthene | 88 | 89 | 1 | | 31-137 |
| 2-Chloronaphthalene | 91 | 91 | 0 | | 40-140 |
| Fluoranthene | 105 | 99 | 6 | | 40-140 |
| Anthracene | 105 | 105 | 0 | | 40-140 |
| Pyrene | 106 | 99 | 7 | | 35-142 |
| Pentachlorophenol | 77 | 73 | 5 | | 17-109 |
| Surrogate(s) | | | | | |
| 2-Fluorophenol | 92 | 83 | 10 | | 25-120 |
| Phenol-d6 | 98 | 90 | 9 | | 10-120 |
| Nitrobenzene-d5 | 85 | 79 | 7 | | 23-120 |
| 2-Fluorobiphenyl | 86 | 84 | 2 | | 30-120 |
| 2,4,6-Tribromophenol | 91 | 88 | 3 | | 19-120 |
| 4-Terphenyl-d14 | 91 | 84 | 8 | | 18-120 |
| Semivolatile Organics by EPA 8270C-SIM for sample(s) 09,23 (WG336734-2, WG336734-3) | | | | | |
| Acenaphthene | 77 | 83 | 8 | | 31-137 |
| 2-Chloronaphthalene | 80 | 88 | 10 | | 40-140 |
| Fluoranthene | 103 | 107 | 4 | | 40-140 |
| Anthracene | 88 | 96 | 9 | | 40-140 |
| Pyrene | 98 | 103 | 5 | | 35-142 |
| Pentachlorophenol | 79 | 48 | 49 | | 17-109 |
| Surrogate(s) | | | | | |
| 2-Fluorophenol | 80 | 86 | 7 | | 25-120 |
| Phenol-d6 | 85 | 90 | 6 | | 10-120 |
| Nitrobenzene-d5 | 78 | 83 | 6 | | 23-120 |
| 2-Fluorobiphenyl | 72 | 76 | 5 | | 30-120 |
| 2,4,6-Tribromophenol | 91 | 90 | 1 | | 19-120 |
| 4-Terphenyl-d14 | 87 | 88 | 1 | | 18-120 |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0813344

Continued

| Parameter | LCS % | LCSD % | RPD | RPD Limit | QC Limits |
|---|-------|--------|-----|-----------|-----------|
| Semivolatile Organics by EPA 8270C-SIM for sample(s) 13,20,26-30 (WG335860-2, WG335860-3) | | | | | |
| Acenaphthene | 84 | 80 | 5 | | 31-137 |
| 2-Chloronaphthalene | 82 | 78 | 5 | | 40-140 |
| Fluoranthene | 89 | 90 | 1 | | 40-140 |
| Anthracene | 94 | 87 | 8 | | 40-140 |
| Pyrene | 89 | 88 | 1 | | 35-142 |
| Pentachlorophenol | 62 | 46 | 30 | | 17-109 |
| Surrogate(s) | | | | | |
| 2-Fluorophenol | 88 | 82 | 7 | | 25-120 |
| Phenol-d6 | 91 | 87 | 4 | | 10-120 |
| Nitrobenzene-d5 | 85 | 80 | 6 | | 23-120 |
| 2-Fluorobiphenyl | 77 | 72 | 7 | | 30-120 |
| 2,4,6-Tribromophenol | 82 | 76 | 8 | | 19-120 |
| 4-Terphenyl-d14 | 83 | 78 | 6 | | 18-120 |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0813344

| Parameter | MS % | MSD % | RPD | RPD Limit | MS/MSD Limits |
|---|------|-------|-----|-----------|---------------|
| Total Metals for sample(s) 13 (L0813344-13, WG336007-2) | | | | | |
| Aluminum, Total | 437 | 308 | 35 | 35 | 75-125 |
| Antimony, Total | 64 | 65 | 2 | 35 | 75-125 |
| Arsenic, Total | 106 | 108 | 2 | 35 | 75-125 |
| Barium, Total | 96 | 94 | 2 | 35 | 75-125 |
| Beryllium, Total | 99 | 99 | 0 | 35 | 75-125 |
| Cadmium, Total | 97 | 94 | 3 | 35 | 75-125 |
| Calcium, Total | 0 | 154 | 200 | 35 | 75-125 |
| Chromium, Total | 122 | 90 | 30 | 35 | 75-125 |
| Cobalt, Total | 86 | 85 | 1 | 35 | 75-125 |
| Copper, Total | 111 | 105 | 6 | 35 | 75-125 |
| Iron, Total | 1160 | 0 | 200 | 35 | 75-125 |
| Lead, Total | 137 | 115 | 17 | 35 | 75-125 |
| Magnesium, Total | 0 | 0 | NC | 35 | 75-125 |
| Manganese, Total | 32 | 40 | 22 | 35 | 75-125 |
| Nickel, Total | 85 | 80 | 6 | 35 | 75-125 |
| Potassium, Total | 100 | 99 | 1 | 35 | 75-125 |
| Selenium, Total | 102 | 101 | 1 | 35 | 75-125 |
| Silver, Total | 102 | 108 | 6 | 35 | 75-125 |
| Sodium, Total | 112 | 112 | 0 | 35 | 75-125 |
| Thallium, Total | 78 | 77 | 1 | 35 | 75-125 |
| Vanadium, Total | 90 | 86 | 5 | 35 | 75-125 |
| Zinc, Total | 116 | 123 | 6 | 35 | 75-125 |
| Total Metals for sample(s) 04-10,12,14-25 (L0813344-10, WG335802-3) | | | | | |
| Aluminum, Total | 608 | 693 | 13 | 35 | 75-125 |
| Antimony, Total | 58 | 71 | 20 | 35 | 75-125 |
| Arsenic, Total | 83 | 100 | 19 | 35 | 75-125 |
| Barium, Total | 78 | 94 | 19 | 35 | 75-125 |
| Beryllium, Total | 76 | 89 | 16 | 35 | 75-125 |
| Cadmium, Total | 98 | 115 | 16 | 35 | 75-125 |
| Calcium, Total | 0 | 462 | 200 | 35 | 75-125 |
| Chromium, Total | 82 | 98 | 18 | 35 | 75-125 |
| Cobalt, Total | 82 | 95 | 15 | 35 | 75-125 |
| Copper, Total | 140 | 160 | 13 | 35 | 75-125 |
| Iron, Total | 4710 | 2460 | 63 | 35 | 75-125 |
| Lead, Total | 149 | 181 | 19 | 35 | 75-125 |
| Magnesium, Total | 0 | 0 | NC | 35 | 75-125 |
| Manganese, Total | 82 | 114 | 33 | 35 | 75-125 |
| Nickel, Total | 77 | 90 | 16 | 35 | 75-125 |
| Potassium, Total | 85 | 119 | 33 | 35 | 75-125 |
| Selenium, Total | 76 | 90 | 17 | 35 | 75-125 |
| Silver, Total | 81 | 98 | 19 | 35 | 75-125 |
| Sodium, Total | 90 | 112 | 22 | 35 | 75-125 |
| Thallium, Total | 73 | 85 | 15 | 35 | 75-125 |
| Vanadium, Total | 93 | 113 | 19 | 35 | 75-125 |
| Zinc, Total | 182 | 246 | 30 | 35 | 75-125 |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0813344

Continued

| Parameter | MS % | MSD % | RPD | RPD Limit | MS/MSD Limits |
|---|------|-------|-----|-----------|---------------|
| Total Metals for sample(s) 04-10,12-24 (L0813344-10, WG336055-4) | | | | | |
| Mercury, Total | 164 | 160 | 2 | 35 | 70-130 |
| Volatile Organics by EPA 8260B for sample(s) 04-10,12-23,25 (L0813344-10, WG336351-8) | | | | | |
| Chlorobenzene | 53 | 58 | 9 | 30 | 60-133 |
| Benzene | 73 | 77 | 5 | 30 | 66-142 |
| Toluene | 68 | 67 | 1 | 30 | 59-139 |
| 1,1-Dichloroethene | 76 | 77 | 1 | 30 | 59-172 |
| Trichloroethene | 64 | 67 | 5 | 30 | 62-137 |
| Surrogate(s) | | | | | |
| 1,2-Dichloroethane-d4 | 97 | 93 | 4 | | 70-130 |
| Toluene-d8 | 104 | 102 | 2 | | 70-130 |
| 4-Bromofluorobenzene | 113 | 105 | 7 | | 70-130 |
| Dibromofluoromethane | 98 | 97 | 1 | | 70-130 |
| Semivolatile Organics by EPA 8270C for sample(s) 05-10,12,14-19,21-25 (L0813344-10, WG335862-5) | | | | | |
| Acenaphthene | 96 | 96 | 0 | 50 | 31-137 |
| 1,2,4-Trichlorobenzene | 82 | 82 | 0 | 50 | 38-107 |
| 2-Chloronaphthalene | 77 | 82 | 6 | 50 | 40-140 |
| 1,2-Dichlorobenzene | 71 | 88 | 21 | 50 | 40-140 |
| 1,4-Dichlorobenzene | 66 | 79 | 18 | 50 | 28-104 |
| 2,4-Dinitrotoluene | 77 | 90 | 16 | 50 | 28-89 |
| 2,6-Dinitrotoluene | 68 | 66 | 3 | 50 | 40-140 |
| Fluoranthene | 100 | 120 | 18 | 50 | 40-140 |
| 4-Chlorophenyl phenyl ether | 88 | 93 | 6 | 50 | 40-140 |
| n-Nitrosodi-n-propylamine | 79 | 96 | 19 | 50 | 41-126 |
| Butyl benzyl phthalate | 110 | 130 | 17 | 50 | 40-140 |
| Anthracene | 93 | 100 | 7 | 50 | 40-140 |
| Pyrene | 96 | 110 | 14 | 50 | 35-142 |
| P-Chloro-M-Cresol | 77 | 85 | 10 | 50 | 26-103 |
| 2-Chlorophenol | 74 | 88 | 17 | 50 | 25-102 |
| 2-Nitrophenol | 71 | 93 | 27 | 50 | 30-130 |
| 4-Nitrophenol | 66 | 79 | 18 | 50 | 11-114 |
| 2,4-Dinitrophenol | 150 | 150 | 0 | 50 | 30-130 |
| Pentachlorophenol | 150 | 150 | 0 | 50 | 17-109 |
| Phenol | 79 | 85 | 7 | 50 | 26-90 |
| Surrogate(s) | | | | | |
| 2-Fluorophenol | 81 | 89 | 9 | | 25-120 |
| Phenol-d6 | 86 | 88 | 2 | | 10-120 |
| Nitrobenzene-d5 | 69 | 79 | 14 | | 23-120 |
| 2-Fluorobiphenyl | 73 | 75 | 3 | | 30-120 |
| 2,4,6-Tribromophenol | 91 | 95 | 4 | | 19-120 |
| 4-Terphenyl-d14 | 69 | 76 | 10 | | 18-120 |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0813344

Continued

| Parameter | MS % | MSD % | RPD | RPD Limit | MS/MSD Limits |
|--|------|-------|-----|-----------|---------------|
| Semivolatile Organics by EPA 8270C-SIM for sample(s) 04-08,10,12,14-19,21-22,24-25 (L0813344-10) | | | | | |
| Acenaphthene | 33 | 38 | 14 | 50 | 31-137 |
| 2-Chloronaphthalene | 36 | 42 | 15 | 50 | 40-140 |
| Fluoranthene | 54 | 60 | 11 | 50 | 40-140 |
| Anthracene | 41 | 47 | 14 | 50 | 40-140 |
| Pyrene | 54 | 61 | 12 | 50 | 35-142 |
| Pentachlorophenol | 32 | 34 | 6 | 50 | 17-109 |
| Surrogate(s) | | | | | |
| 2-Fluorophenol | 0 | 0 | NC | | 25-120 |
| Phenol-d6 | 0 | 0 | NC | | 10-120 |
| Nitrobenzene-d5 | 0 | 0 | NC | | 23-120 |
| 2-Fluorobiphenyl | 0 | 0 | NC | | 30-120 |
| 2,4,6-Tribromophenol | 0 | 0 | NC | | 19-120 |
| 4-Terphenyl-d14 | 0 | 0 | NC | | 18-120 |
| Petroleum Hydrocarbon Quantitation by GC-FID for sample(s) 04-10,12,14-19,21-25 (L0813344-10, W | | | | | |
| TPH | 0 | 188 | 200 | 40 | 40-140 |
| Surrogate(s) | | | | | |
| o-Terphenyl | 87 | 84 | 4 | | 40-140 |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0813344

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|--|--------|-------|------|-----|--------|------------|------------|----|
| | | | | | | PREP | ANAL | |
| Blank Analysis for sample(s) 04-10,12,14-25 (WG335802-4) | | | | | | | | |
| Total Metals | | | | | | | | |
| Aluminum, Total | ND | mg/kg | 5.0 | 1 | 6010B | 0910 13:30 | 0911 13:25 | AI |
| Antimony, Total | ND | mg/kg | 2.5 | 1 | 6010B | 0910 13:30 | 0911 13:25 | AI |
| Arsenic, Total | ND | mg/kg | 0.50 | 1 | 6010B | 0910 13:30 | 0911 13:25 | AI |
| Barium, Total | ND | mg/kg | 0.50 | 1 | 6010B | 0910 13:30 | 0911 13:25 | AI |
| Beryllium, Total | ND | mg/kg | 0.25 | 1 | 6010B | 0910 13:30 | 0911 13:25 | AI |
| Cadmium, Total | ND | mg/kg | 0.50 | 1 | 6010B | 0910 13:30 | 0911 13:25 | AI |
| Calcium, Total | ND | mg/kg | 5.0 | 1 | 6010B | 0910 13:30 | 0911 13:25 | AI |
| Chromium, Total | ND | mg/kg | 0.50 | 1 | 6010B | 0910 13:30 | 0911 13:25 | AI |
| Cobalt, Total | ND | mg/kg | 1.0 | 1 | 6010B | 0910 13:30 | 0911 13:25 | AI |
| Copper, Total | ND | mg/kg | 0.50 | 1 | 6010B | 0910 13:30 | 0911 13:25 | AI |
| Iron, Total | ND | mg/kg | 2.5 | 1 | 6010B | 0910 13:30 | 0911 13:25 | AI |
| Lead, Total | ND | mg/kg | 2.5 | 1 | 6010B | 0910 13:30 | 0911 13:25 | AI |
| Magnesium, Total | ND | mg/kg | 5.0 | 1 | 6010B | 0910 13:30 | 0911 13:25 | AI |
| Manganese, Total | ND | mg/kg | 0.50 | 1 | 6010B | 0910 13:30 | 0911 13:25 | AI |
| Nickel, Total | ND | mg/kg | 1.2 | 1 | 6010B | 0910 13:30 | 0911 13:25 | AI |
| Potassium, Total | ND | mg/kg | 120 | 1 | 6010B | 0910 13:30 | 0911 13:25 | AI |
| Selenium, Total | ND | mg/kg | 1.0 | 1 | 6010B | 0910 13:30 | 0911 13:25 | AI |
| Silver, Total | ND | mg/kg | 0.50 | 1 | 6010B | 0910 13:30 | 0911 13:25 | AI |
| Sodium, Total | ND | mg/kg | 100 | 1 | 6010B | 0910 13:30 | 0911 13:25 | AI |
| Thallium, Total | ND | mg/kg | 1.0 | 1 | 6010B | 0910 13:30 | 0911 13:25 | AI |
| Vanadium, Total | ND | mg/kg | 0.50 | 1 | 6010B | 0910 13:30 | 0911 13:25 | AI |
| Zinc, Total | ND | mg/kg | 2.5 | 1 | 6010B | 0910 13:30 | 0911 13:25 | AI |
| Blank Analysis for sample(s) 26-30 (WG335803-3) | | | | | | | | |
| Total Metals | | | | | | | | |
| Aluminum, Total | ND | mg/kg | 5.0 | 1 | 6010B | 0910 13:30 | 0911 15:33 | AI |
| Antimony, Total | ND | mg/kg | 2.5 | 1 | 6010B | 0910 13:30 | 0911 15:33 | AI |
| Arsenic, Total | ND | mg/kg | 0.50 | 1 | 6010B | 0910 13:30 | 0911 15:33 | AI |
| Barium, Total | ND | mg/kg | 0.50 | 1 | 6010B | 0910 13:30 | 0911 15:33 | AI |
| Beryllium, Total | ND | mg/kg | 0.25 | 1 | 6010B | 0910 13:30 | 0911 15:33 | AI |
| Cadmium, Total | ND | mg/kg | 0.50 | 1 | 6010B | 0910 13:30 | 0911 15:33 | AI |
| Calcium, Total | ND | mg/kg | 5.0 | 1 | 6010B | 0910 13:30 | 0911 15:33 | AI |
| Chromium, Total | ND | mg/kg | 0.50 | 1 | 6010B | 0910 13:30 | 0911 15:33 | AI |
| Cobalt, Total | ND | mg/kg | 1.0 | 1 | 6010B | 0910 13:30 | 0911 15:33 | AI |
| Copper, Total | ND | mg/kg | 0.50 | 1 | 6010B | 0910 13:30 | 0911 15:33 | AI |
| Iron, Total | ND | mg/kg | 2.5 | 1 | 6010B | 0910 13:30 | 0911 15:33 | AI |
| Lead, Total | ND | mg/kg | 2.5 | 1 | 6010B | 0910 13:30 | 0911 15:33 | AI |
| Magnesium, Total | ND | mg/kg | 5.0 | 1 | 6010B | 0910 13:30 | 0911 15:33 | AI |
| Manganese, Total | ND | mg/kg | 0.50 | 1 | 6010B | 0910 13:30 | 0911 15:33 | AI |
| Nickel, Total | ND | mg/kg | 1.2 | 1 | 6010B | 0910 13:30 | 0911 15:33 | AI |
| Potassium, Total | ND | mg/kg | 120 | 1 | 6010B | 0910 13:30 | 0911 15:33 | AI |
| Selenium, Total | ND | mg/kg | 1.0 | 1 | 6010B | 0910 13:30 | 0911 15:33 | AI |
| Silver, Total | ND | mg/kg | 0.50 | 1 | 6010B | 0910 13:30 | 0911 15:33 | AI |
| Sodium, Total | ND | mg/kg | 100 | 1 | 6010B | 0910 13:30 | 0911 15:33 | AI |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0813344

Continued

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---|--------|-------|------|-----|--------|---------------|------------|----|
| | | | | | | PREP | ANAL | |
| Blank Analysis for sample(s) 26-30 (WG335803-3) | | | | | | | | |
| Total Metals | | | | | | | | |
| Thallium, Total | ND | mg/kg | 1.0 | 1 | 6010B | 0910 13:30 | 0911 15:33 | AI |
| Vanadium, Total | ND | mg/kg | 0.50 | 1 | 6010B | 0910 13:30 | 0911 15:33 | AI |
| Zinc, Total | ND | mg/kg | 2.5 | 1 | 6010B | 0910 13:30 | 0911 15:33 | AI |
| Blank Analysis for sample(s) 13 (WG336007-3) | | | | | | | | |
| Total Metals | | | | | | | | |
| Aluminum, Total | 5.1 | mg/kg | 5.0 | 1 | 6010B | 0911 13:45 | 0916 20:44 | BM |
| Antimony, Total | ND | mg/kg | 2.5 | 1 | 6010B | 0911 13:45 | 0916 20:44 | BM |
| Arsenic, Total | ND | mg/kg | 0.50 | 1 | 6010B | 0911 13:45 | 0916 20:44 | BM |
| Barium, Total | ND | mg/kg | 0.50 | 1 | 6010B | 0911 13:45 | 0916 20:44 | BM |
| Beryllium, Total | ND | mg/kg | 0.25 | 1 | 6010B | 0911 13:45 | 0916 20:44 | BM |
| Cadmium, Total | ND | mg/kg | 0.50 | 1 | 6010B | 0911 13:45 | 0916 20:44 | BM |
| Calcium, Total | ND | mg/kg | 5.0 | 1 | 6010B | 0911 13:45 | 0916 20:44 | BM |
| Chromium, Total | ND | mg/kg | 0.50 | 1 | 6010B | 0911 13:45 | 0916 20:44 | BM |
| Cobalt, Total | ND | mg/kg | 1.0 | 1 | 6010B | 0911 13:45 | 0916 20:44 | BM |
| Copper, Total | ND | mg/kg | 0.50 | 1 | 6010B | 0911 13:45 | 0916 20:44 | BM |
| Iron, Total | ND | mg/kg | 2.5 | 1 | 6010B | 0911 13:45 | 0916 20:44 | BM |
| Lead, Total | ND | mg/kg | 2.5 | 1 | 6010B | 0911 13:45 | 0916 20:44 | BM |
| Magnesium, Total | ND | mg/kg | 5.0 | 1 | 6010B | 0911 13:45 | 0916 20:44 | BM |
| Manganese, Total | ND | mg/kg | 0.50 | 1 | 6010B | 0911 13:45 | 0916 20:44 | BM |
| Nickel, Total | ND | mg/kg | 1.2 | 1 | 6010B | 0911 13:45 | 0916 20:44 | BM |
| Potassium, Total | ND | mg/kg | 120 | 1 | 6010B | 0911 13:45 | 0916 20:44 | BM |
| Selenium, Total | ND | mg/kg | 1.0 | 1 | 6010B | 0911 13:45 | 0916 20:44 | BM |
| Silver, Total | ND | mg/kg | 0.50 | 1 | 6010B | 0911 13:45 | 0916 20:44 | BM |
| Sodium, Total | ND | mg/kg | 100 | 1 | 6010B | 0911 13:45 | 0916 20:44 | BM |
| Thallium, Total | ND | mg/kg | 1.0 | 1 | 6010B | 0911 13:45 | 0916 20:44 | BM |
| Vanadium, Total | ND | mg/kg | 0.50 | 1 | 6010B | 0911 13:45 | 0916 20:44 | BM |
| Zinc, Total | ND | mg/kg | 2.5 | 1 | 6010B | 0911 13:45 | 0916 20:44 | BM |
| Blank Analysis for sample(s) 04-10,12-24 (WG336055-1) | | | | | | | | |
| Total Metals | | | | | | | | |
| Mercury, Total | ND | mg/kg | 0.08 | 1 | 7471A | 0911 23:30 | 0912 14:06 | RC |
| Blank Analysis for sample(s) 25-30 (WG336225-1) | | | | | | | | |
| Total Metals | | | | | | | | |
| Mercury, Total | ND | mg/kg | 0.08 | 1 | 7471A | 0912 20:30 | 0914 13:49 | HG |
| Blank Analysis for sample(s) 01-03 (WG336088-3) | | | | | | | | |
| Volatile Organics by EPA 8260B | | | | 1 | 8260B | 0911 10:00 PD | | |
| Methylene chloride | ND | ug/l | 5.0 | | | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | | | |
| Chloroform | ND | ug/l | 0.75 | | | | | |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0813344

Continued

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|--------|-------|------|------------|-------------------|----|
| Blank Analysis for sample(s) 01-03 (WG336088-3) | | | | | | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0911 10:00 PD | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | |
| Tetrachloroethene | ND | ug/l | 0.50 | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | |
| Bromoform | ND | ug/l | 2.0 | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Benzene | ND | ug/l | 0.50 | | | |
| Toluene | ND | ug/l | 0.75 | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | |
| Chloromethane | ND | ug/l | 2.5 | | | |
| Bromomethane | ND | ug/l | 1.0 | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | |
| Chloroethane | ND | ug/l | 1.0 | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | |
| Trichloroethene | ND | ug/l | 0.50 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| Methyl tert butyl ether | ND | ug/l | 1.0 | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | |
| o-Xylene | ND | ug/l | 1.0 | | | |
| cis-1,2-Dichloroethene | ND | ug/l | 0.50 | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | |
| Styrene | ND | ug/l | 1.0 | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | |
| Acetone | ND | ug/l | 5.0 | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | |
| 2-Butanone | ND | ug/l | 5.0 | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0813344

Continued

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--|----------|-------|-------------|------------|-------------------|----|
| Blank Analysis for sample(s) 01-03 (WG336088-3) | | | | | | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0911 10:00 PD | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | |
| Naphthalene | ND | ug/l | 2.5 | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 102 | % | 70-130 | | | |
| Toluene-d8 | 100 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 105 | % | 70-130 | | | |
| Dibromofluoromethane | 97.0 | % | 70-130 | | | |
| Blank Analysis for sample(s) 04-08,12,14-20 (WG336351-3) | | | | | | |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0911 16:39 PD | |
| Methylene chloride | ND | ug/kg | 25. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 3.8 | | | |
| Chloroform | ND | ug/kg | 3.8 | | | |
| Carbon tetrachloride | ND | ug/kg | 2.5 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 8.8 | | | |
| Dibromochloromethane | ND | ug/kg | 2.5 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 3.8 | | | |
| Tetrachloroethene | ND | ug/kg | 2.5 | | | |
| Chlorobenzene | ND | ug/kg | 2.5 | | | |
| Trichlorofluoromethane | ND | ug/kg | 12. | | | |
| 1,2-Dichloroethane | ND | ug/kg | 2.5 | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 2.5 | | | |
| Bromodichloromethane | ND | ug/kg | 2.5 | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 2.5 | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 2.5 | | | |
| 1,1-Dichloropropene | ND | ug/kg | 12. | | | |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0813344

Continued

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|--|--------|-------|-----|------------|-------|---------------|----|
| | | | | | PREP | ANAL | |
| Blank Analysis for sample(s) 04-08,12,14-20 (WG336351-3) | | | | | | | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0911 16:39 PD | |
| Bromoform | ND | ug/kg | 10. | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 2.5 | | | | |
| Benzene | ND | ug/kg | 2.5 | | | | |
| Toluene | ND | ug/kg | 3.8 | | | | |
| Ethylbenzene | ND | ug/kg | 2.5 | | | | |
| Chloromethane | ND | ug/kg | 12. | | | | |
| Bromomethane | ND | ug/kg | 5.0 | | | | |
| Vinyl chloride | ND | ug/kg | 5.0 | | | | |
| Chloroethane | ND | ug/kg | 5.0 | | | | |
| 1,1-Dichloroethene | ND | ug/kg | 2.5 | | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 3.8 | | | | |
| Trichloroethene | ND | ug/kg | 2.5 | | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 12. | | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 12. | | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 12. | | | | |
| Methyl tert butyl ether | ND | ug/kg | 5.0 | | | | |
| p/m-Xylene | ND | ug/kg | 5.0 | | | | |
| o-Xylene | ND | ug/kg | 5.0 | | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 2.5 | | | | |
| Dibromomethane | ND | ug/kg | 25. | | | | |
| Styrene | ND | ug/kg | 5.0 | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 25. | | | | |
| Acetone | ND | ug/kg | 25. | | | | |
| Carbon disulfide | ND | ug/kg | 25. | | | | |
| 2-Butanone | ND | ug/kg | 25. | | | | |
| Vinyl acetate | ND | ug/kg | 25. | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 25. | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 25. | | | | |
| 2-Hexanone | ND | ug/kg | 25. | | | | |
| Bromochloromethane | ND | ug/kg | 12. | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 12. | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 10. | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 12. | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 2.5 | | | | |
| Bromobenzene | ND | ug/kg | 12. | | | | |
| n-Butylbenzene | ND | ug/kg | 2.5 | | | | |
| sec-Butylbenzene | ND | ug/kg | 2.5 | | | | |
| tert-Butylbenzene | ND | ug/kg | 12. | | | | |
| o-Chlorotoluene | ND | ug/kg | 12. | | | | |
| p-Chlorotoluene | ND | ug/kg | 12. | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 12. | | | | |
| Hexachlorobutadiene | ND | ug/kg | 12. | | | | |
| Isopropylbenzene | ND | ug/kg | 2.5 | | | | |
| p-Isopropyltoluene | ND | ug/kg | 2.5 | | | | |
| Naphthalene | ND | ug/kg | 12. | | | | |
| Acrylonitrile | ND | ug/kg | 25. | | | | |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0813344

Continued

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--|----------|-------|-------------|------------|-------------------|----|
| Blank Analysis for sample(s) 04-08,12,14-20 (WG336351-3) | | | | | | |
| Volatile Organics by EPA 8260B cont'd | | | | | | |
| | | | | 1 8260B | 0911 16:39 PD | |
| n-Propylbenzene | ND | ug/kg | 2.5 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 12. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 12. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 12. | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 12. | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 10. | | | |
| 4-Ethyltoluene | ND | ug/kg | 10. | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 10. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 95.0 | % | 70-130 | | | |
| Toluene-d8 | 105 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 115 | % | 70-130 | | | |
| Dibromofluoromethane | 99.0 | % | 70-130 | | | |
| Blank Analysis for sample(s) 09-10,13,17,21-23,25 (WG336351-6) | | | | | | |
| Volatile Organics by EPA 8260B | | | | | | |
| | | | | 1 8260B | 0912 10:07 PD | |
| Methylene chloride | ND | ug/kg | 25. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 3.8 | | | |
| Chloroform | ND | ug/kg | 3.8 | | | |
| Carbon tetrachloride | ND | ug/kg | 2.5 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 8.8 | | | |
| Dibromochloromethane | ND | ug/kg | 2.5 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 3.8 | | | |
| Tetrachloroethene | ND | ug/kg | 2.5 | | | |
| Chlorobenzene | ND | ug/kg | 2.5 | | | |
| Trichlorofluoromethane | ND | ug/kg | 12. | | | |
| 1,2-Dichloroethane | ND | ug/kg | 2.5 | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 2.5 | | | |
| Bromodichloromethane | ND | ug/kg | 2.5 | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 2.5 | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 2.5 | | | |
| 1,1-Dichloropropene | ND | ug/kg | 12. | | | |
| Bromoform | ND | ug/kg | 10. | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 2.5 | | | |
| Benzene | ND | ug/kg | 2.5 | | | |
| Toluene | ND | ug/kg | 3.8 | | | |
| Ethylbenzene | ND | ug/kg | 2.5 | | | |
| Chloromethane | ND | ug/kg | 12. | | | |
| Bromomethane | ND | ug/kg | 5.0 | | | |
| Vinyl chloride | ND | ug/kg | 5.0 | | | |
| Chloroethane | ND | ug/kg | 5.0 | | | |
| 1,1-Dichloroethene | ND | ug/kg | 2.5 | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 3.8 | | | |
| Trichloroethene | ND | ug/kg | 2.5 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 12. | | | |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0813344

Continued

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--|----------|-------|-----|-------------|------------------------|----|
| Blank Analysis for sample(s) 09-10,13,17,21-23,25 (WG336351-6) | | | | | | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0912 10:07 PD | |
| 1,3-Dichlorobenzene | ND | ug/kg | 12. | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 12. | | | |
| Methyl tert butyl ether | ND | ug/kg | 5.0 | | | |
| p/m-Xylene | ND | ug/kg | 5.0 | | | |
| o-Xylene | ND | ug/kg | 5.0 | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 2.5 | | | |
| Dibromomethane | ND | ug/kg | 25. | | | |
| Styrene | ND | ug/kg | 5.0 | | | |
| Dichlorodifluoromethane | ND | ug/kg | 25. | | | |
| Acetone | ND | ug/kg | 25. | | | |
| Carbon disulfide | ND | ug/kg | 25. | | | |
| 2-Butanone | ND | ug/kg | 25. | | | |
| Vinyl acetate | ND | ug/kg | 25. | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 25. | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 25. | | | |
| 2-Hexanone | ND | ug/kg | 25. | | | |
| Bromochloromethane | ND | ug/kg | 12. | | | |
| 2,2-Dichloropropane | ND | ug/kg | 12. | | | |
| 1,2-Dibromoethane | ND | ug/kg | 10. | | | |
| 1,3-Dichloropropane | ND | ug/kg | 12. | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 2.5 | | | |
| Bromobenzene | ND | ug/kg | 12. | | | |
| n-Butylbenzene | ND | ug/kg | 2.5 | | | |
| sec-Butylbenzene | ND | ug/kg | 2.5 | | | |
| tert-Butylbenzene | ND | ug/kg | 12. | | | |
| o-Chlorotoluene | ND | ug/kg | 12. | | | |
| p-Chlorotoluene | ND | ug/kg | 12. | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 12. | | | |
| Hexachlorobutadiene | ND | ug/kg | 12. | | | |
| Isopropylbenzene | ND | ug/kg | 2.5 | | | |
| p-Isopropyltoluene | ND | ug/kg | 2.5 | | | |
| Naphthalene | ND | ug/kg | 12. | | | |
| Acrylonitrile | ND | ug/kg | 25. | | | |
| n-Propylbenzene | ND | ug/kg | 2.5 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 12. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 12. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 12. | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 12. | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 10. | | | |
| 4-Ethyltoluene | ND | ug/kg | 10. | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 10. | | | |
| Surrogate(s) | Recovery | | | QC Criteria | | |
| 1,2-Dichloroethane-d4 | 98.0 | % | | 70-130 | | |
| Toluene-d8 | 103 | % | | 70-130 | | |
| 4-Bromofluorobenzene | 112 | % | | 70-130 | | |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0813344

Continued

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--|--------|-------|--------|------------|-------------------|----|
| Blank Analysis for sample(s) 09-10,13,17,21-23,25 (WG336351-6) | | | | | | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0912 10:07 PD | |
| Dibromofluoromethane | 97.0 | % | 70-130 | | | |
| Blank Analysis for sample(s) 26-30 (WG336400-3) | | | | | | |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0912 10:07 PD | |
| Methylene chloride | ND | ug/kg | 25. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 3.8 | | | |
| Chloroform | ND | ug/kg | 3.8 | | | |
| Carbon tetrachloride | ND | ug/kg | 2.5 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 8.8 | | | |
| Dibromochloromethane | ND | ug/kg | 2.5 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 3.8 | | | |
| Tetrachloroethene | ND | ug/kg | 2.5 | | | |
| Chlorobenzene | ND | ug/kg | 2.5 | | | |
| Trichlorofluoromethane | ND | ug/kg | 12. | | | |
| 1,2-Dichloroethane | ND | ug/kg | 2.5 | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 2.5 | | | |
| Bromodichloromethane | ND | ug/kg | 2.5 | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 2.5 | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 2.5 | | | |
| 1,1-Dichloropropene | ND | ug/kg | 12. | | | |
| Bromoform | ND | ug/kg | 10. | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 2.5 | | | |
| Benzene | ND | ug/kg | 2.5 | | | |
| Toluene | ND | ug/kg | 3.8 | | | |
| Ethylbenzene | ND | ug/kg | 2.5 | | | |
| Chloromethane | ND | ug/kg | 12. | | | |
| Bromomethane | ND | ug/kg | 5.0 | | | |
| Vinyl chloride | ND | ug/kg | 5.0 | | | |
| Chloroethane | ND | ug/kg | 5.0 | | | |
| 1,1-Dichloroethene | ND | ug/kg | 2.5 | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 3.8 | | | |
| Trichloroethene | ND | ug/kg | 2.5 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 12. | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 12. | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 12. | | | |
| Methyl tert butyl ether | ND | ug/kg | 5.0 | | | |
| p/m-Xylene | ND | ug/kg | 5.0 | | | |
| o-Xylene | ND | ug/kg | 5.0 | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 2.5 | | | |
| Dibromomethane | ND | ug/kg | 25. | | | |
| Styrene | ND | ug/kg | 5.0 | | | |
| Dichlorodifluoromethane | ND | ug/kg | 25. | | | |
| Acetone | ND | ug/kg | 25. | | | |
| Carbon disulfide | ND | ug/kg | 25. | | | |
| 2-Butanone | ND | ug/kg | 25. | | | |
| Vinyl acetate | ND | ug/kg | 25. | | | |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0813344

Continued

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|-------------------|----|
| Blank Analysis for sample(s) 26-30 (WG336400-3) | | | | | | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0912 10:07 PD | |
| 4-Methyl-2-pentanone | ND | ug/kg | 25. | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 25. | | | |
| 2-Hexanone | ND | ug/kg | 25. | | | |
| Bromochloromethane | ND | ug/kg | 12. | | | |
| 2,2-Dichloropropane | ND | ug/kg | 12. | | | |
| 1,2-Dibromoethane | ND | ug/kg | 10. | | | |
| 1,3-Dichloropropane | ND | ug/kg | 12. | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 2.5 | | | |
| Bromobenzene | ND | ug/kg | 12. | | | |
| n-Butylbenzene | ND | ug/kg | 2.5 | | | |
| sec-Butylbenzene | ND | ug/kg | 2.5 | | | |
| tert-Butylbenzene | ND | ug/kg | 12. | | | |
| o-Chlorotoluene | ND | ug/kg | 12. | | | |
| p-Chlorotoluene | ND | ug/kg | 12. | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 12. | | | |
| Hexachlorobutadiene | ND | ug/kg | 12. | | | |
| Isopropylbenzene | ND | ug/kg | 2.5 | | | |
| p-Isopropyltoluene | ND | ug/kg | 2.5 | | | |
| Naphthalene | ND | ug/kg | 12. | | | |
| Acrylonitrile | ND | ug/kg | 25. | | | |
| n-Propylbenzene | ND | ug/kg | 2.5 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 12. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 12. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 12. | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 12. | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 10. | | | |
| 4-Ethyltoluene | ND | ug/kg | 10. | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 10. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 98.0 | % | 70-130 | | | |
| Toluene-d8 | 103 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 112 | % | 70-130 | | | |
| Dibromofluoromethane | 97.0 | % | 70-130 | | | |
| Blank Analysis for sample(s) 24 (WG336400-6) | | | | | | |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0915 13:31 PD | |
| Methylene chloride | ND | ug/kg | 25. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 3.8 | | | |
| Chloroform | ND | ug/kg | 3.8 | | | |
| Carbon tetrachloride | ND | ug/kg | 2.5 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 8.8 | | | |
| Dibromochloromethane | ND | ug/kg | 2.5 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 3.8 | | | |
| Tetrachloroethene | ND | ug/kg | 2.5 | | | |
| Chlorobenzene | ND | ug/kg | 2.5 | | | |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0813344

Continued

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--|--------|-------|-----|------------|------------------------|----|
| Blank Analysis for sample(s) 24 (WG336400-6) | | | | | | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0915 13:31 PD | |
| Trichlorofluoromethane | ND | ug/kg | 12. | | | |
| 1,2-Dichloroethane | ND | ug/kg | 2.5 | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 2.5 | | | |
| Bromodichloromethane | ND | ug/kg | 2.5 | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 2.5 | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 2.5 | | | |
| 1,1-Dichloropropene | ND | ug/kg | 12. | | | |
| Bromoform | ND | ug/kg | 10. | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 2.5 | | | |
| Benzene | ND | ug/kg | 2.5 | | | |
| Toluene | ND | ug/kg | 3.8 | | | |
| Ethylbenzene | ND | ug/kg | 2.5 | | | |
| Chloromethane | ND | ug/kg | 12. | | | |
| Bromomethane | ND | ug/kg | 5.0 | | | |
| Vinyl chloride | ND | ug/kg | 5.0 | | | |
| Chloroethane | ND | ug/kg | 5.0 | | | |
| 1,1-Dichloroethene | ND | ug/kg | 2.5 | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 3.8 | | | |
| Trichloroethene | ND | ug/kg | 2.5 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 12. | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 12. | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 12. | | | |
| Methyl tert butyl ether | ND | ug/kg | 5.0 | | | |
| p/m-Xylene | ND | ug/kg | 5.0 | | | |
| o-Xylene | ND | ug/kg | 5.0 | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 2.5 | | | |
| Dibromomethane | ND | ug/kg | 25. | | | |
| Styrene | ND | ug/kg | 5.0 | | | |
| Dichlorodifluoromethane | ND | ug/kg | 25. | | | |
| Acetone | ND | ug/kg | 25. | | | |
| Carbon disulfide | ND | ug/kg | 25. | | | |
| 2-Butanone | ND | ug/kg | 25. | | | |
| Vinyl acetate | ND | ug/kg | 25. | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 25. | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 25. | | | |
| 2-Hexanone | ND | ug/kg | 25. | | | |
| Bromochloromethane | ND | ug/kg | 12. | | | |
| 2,2-Dichloropropane | ND | ug/kg | 12. | | | |
| 1,2-Dibromoethane | ND | ug/kg | 10. | | | |
| 1,3-Dichloropropane | ND | ug/kg | 12. | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 2.5 | | | |
| Bromobenzene | ND | ug/kg | 12. | | | |
| n-Butylbenzene | ND | ug/kg | 2.5 | | | |
| sec-Butylbenzene | ND | ug/kg | 2.5 | | | |
| tert-Butylbenzene | ND | ug/kg | 12. | | | |
| o-Chlorotoluene | ND | ug/kg | 12. | | | |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0813344

Continued

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Blank Analysis for sample(s) 24 (WG336400-6) | | | | | | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0915 13:31 | PD |
| p-Chlorotoluene | ND | ug/kg | 12. | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 12. | | | |
| Hexachlorobutadiene | ND | ug/kg | 12. | | | |
| Isopropylbenzene | ND | ug/kg | 2.5 | | | |
| p-Isopropyltoluene | ND | ug/kg | 2.5 | | | |
| Naphthalene | ND | ug/kg | 12. | | | |
| Acrylonitrile | ND | ug/kg | 25. | | | |
| n-Propylbenzene | ND | ug/kg | 2.5 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 12. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 12. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 12. | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 12. | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 10. | | | |
| 4-Ethyltoluene | ND | ug/kg | 10. | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 10. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 94.0 | % | 70-130 | | | |
| Toluene-d8 | 109 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 115 | % | 70-130 | | | |
| Dibromofluoromethane | 98.0 | % | 70-130 | | | |
| Blank Analysis for sample(s) 13,20,26-30 (WG335861-1) | | | | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 0911 00:30 0911 13:59 | PS |
| Acenaphthene | ND | ug/kg | 330 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 330 | | | |
| Hexachlorobenzene | ND | ug/kg | 330 | | | |
| Bis(2-chloroethyl)ether | ND | ug/kg | 330 | | | |
| 2-Chloronaphthalene | ND | ug/kg | 400 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 330 | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 330 | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 330 | | | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 670 | | | |
| 2,4-Dinitrotoluene | ND | ug/kg | 330 | | | |
| 2,6-Dinitrotoluene | ND | ug/kg | 330 | | | |
| Fluoranthene | ND | ug/kg | 330 | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/kg | 330 | | | |
| 4-Bromophenyl phenyl ether | ND | ug/kg | 330 | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/kg | 330 | | | |
| Bis(2-chloroethoxy)methane | ND | ug/kg | 330 | | | |
| Hexachlorobutadiene | ND | ug/kg | 670 | | | |
| Hexachlorocyclopentadiene | ND | ug/kg | 670 | | | |
| Hexachloroethane | ND | ug/kg | 330 | | | |
| Isophorone | ND | ug/kg | 330 | | | |
| Naphthalene | ND | ug/kg | 330 | | | |
| Nitrobenzene | ND | ug/kg | 330 | | | |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0813344

Continued

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---|--------|-------|------|------------|------------|------------|----|
| | | | | | PREP | ANAL | |
| Blank Analysis for sample(s) 13,20,26-30 (WG335861-1) | | | | | | | |
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 8270C | 0911 00:30 | 0911 13:59 | PS |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/kg | 1000 | | | | |
| n-Nitrosodi-n-propylamine | ND | ug/kg | 330 | | | | |
| Bis(2-Ethylhexyl)phthalate | ND | ug/kg | 670 | | | | |
| Butyl benzyl phthalate | ND | ug/kg | 330 | | | | |
| Di-n-butylphthalate | ND | ug/kg | 330 | | | | |
| Di-n-octylphthalate | ND | ug/kg | 330 | | | | |
| Diethyl phthalate | ND | ug/kg | 330 | | | | |
| Dimethyl phthalate | ND | ug/kg | 330 | | | | |
| Benzo(a)anthracene | ND | ug/kg | 330 | | | | |
| Benzo(a)pyrene | ND | ug/kg | 330 | | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 330 | | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 330 | | | | |
| Chrysene | ND | ug/kg | 330 | | | | |
| Acenaphthylene | ND | ug/kg | 330 | | | | |
| Anthracene | ND | ug/kg | 330 | | | | |
| Benzo(ghi)perylene | ND | ug/kg | 330 | | | | |
| Fluorene | ND | ug/kg | 330 | | | | |
| Phenanthrene | ND | ug/kg | 330 | | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 330 | | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 330 | | | | |
| Pyrene | ND | ug/kg | 330 | | | | |
| Biphenyl | ND | ug/kg | 330 | | | | |
| 4-Chloroaniline | ND | ug/kg | 330 | | | | |
| 2-Nitroaniline | ND | ug/kg | 330 | | | | |
| 3-Nitroaniline | ND | ug/kg | 330 | | | | |
| 4-Nitroaniline | ND | ug/kg | 470 | | | | |
| Dibenzofuran | ND | ug/kg | 330 | | | | |
| 2-Methylnaphthalene | ND | ug/kg | 330 | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/kg | 1300 | | | | |
| Acetophenone | ND | ug/kg | 1300 | | | | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 330 | | | | |
| P-Chloro-M-Cresol | ND | ug/kg | 330 | | | | |
| 2-Chlorophenol | ND | ug/kg | 400 | | | | |
| 2,4-Dichlorophenol | ND | ug/kg | 670 | | | | |
| 2,4-Dimethylphenol | ND | ug/kg | 330 | | | | |
| 2-Nitrophenol | ND | ug/kg | 1300 | | | | |
| 4-Nitrophenol | ND | ug/kg | 670 | | | | |
| 2,4-Dinitrophenol | ND | ug/kg | 1300 | | | | |
| 4,6-Dinitro-o-cresol | ND | ug/kg | 1300 | | | | |
| Pentachlorophenol | ND | ug/kg | 1300 | | | | |
| Phenol | ND | ug/kg | 470 | | | | |
| 2-Methylphenol | ND | ug/kg | 400 | | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/kg | 400 | | | | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 330 | | | | |
| Benzoic Acid | ND | ug/kg | 3300 | | | | |
| Benzyl Alcohol | ND | ug/kg | 670 | | | | |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0813344

Continued

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--|----------|-------|-------------|------------|--------------------------|----|
| Blank Analysis for sample(s) 13,20,26-30 (WG335861-1) | | | | | | |
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 8270C | 0911 00:30 0911 13:59 PS | |
| Carbazole | ND | ug/kg | 330 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 78.0 | % | 25-120 | | | |
| Phenol-d6 | 74.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 69.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 70.0 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 80.0 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 66.0 | % | 18-120 | | | |
| Blank Analysis for sample(s) 05-10,12,14-19,21-25 (WG335862-1) | | | | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 0911 03:30 0912 12:01 PS | |
| Acenaphthene | ND | ug/kg | 330 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 330 | | | |
| Hexachlorobenzene | ND | ug/kg | 330 | | | |
| Bis(2-chloroethyl)ether | ND | ug/kg | 330 | | | |
| 2-Chloronaphthalene | ND | ug/kg | 400 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 330 | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 330 | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 330 | | | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 670 | | | |
| 2,4-Dinitrotoluene | ND | ug/kg | 330 | | | |
| 2,6-Dinitrotoluene | ND | ug/kg | 330 | | | |
| Fluoranthene | ND | ug/kg | 330 | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/kg | 330 | | | |
| 4-Bromophenyl phenyl ether | ND | ug/kg | 330 | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/kg | 330 | | | |
| Bis(2-chloroethoxy)methane | ND | ug/kg | 330 | | | |
| Hexachlorobutadiene | ND | ug/kg | 670 | | | |
| Hexachlorocyclopentadiene | ND | ug/kg | 670 | | | |
| Hexachloroethane | ND | ug/kg | 330 | | | |
| Isophorone | ND | ug/kg | 330 | | | |
| Naphthalene | ND | ug/kg | 330 | | | |
| Nitrobenzene | ND | ug/kg | 330 | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/kg | 1000 | | | |
| n-Nitrosodi-n-propylamine | ND | ug/kg | 330 | | | |
| Bis(2-Ethylhexyl)phthalate | ND | ug/kg | 670 | | | |
| Butyl benzyl phthalate | ND | ug/kg | 330 | | | |
| Di-n-butylphthalate | ND | ug/kg | 330 | | | |
| Di-n-octylphthalate | ND | ug/kg | 330 | | | |
| Diethyl phthalate | ND | ug/kg | 330 | | | |
| Dimethyl phthalate | ND | ug/kg | 330 | | | |
| Benzo(a)anthracene | ND | ug/kg | 330 | | | |
| Benzo(a)pyrene | ND | ug/kg | 330 | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 330 | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 330 | | | |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0813344

Continued

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--|----------|-------|-------------|------------|--------------------------|----|
| Blank Analysis for sample(s) 05-10,12,14-19,21-25 (WG335862-1) | | | | | | |
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 8270C | 0911 03:30 0912 12:01 PS | |
| Chrysene | ND | ug/kg | 330 | | | |
| Acenaphthylene | ND | ug/kg | 330 | | | |
| Anthracene | ND | ug/kg | 330 | | | |
| Benzo(ghi)perylene | ND | ug/kg | 330 | | | |
| Fluorene | ND | ug/kg | 330 | | | |
| Phenanthrene | ND | ug/kg | 330 | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 330 | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 330 | | | |
| Pyrene | ND | ug/kg | 330 | | | |
| Biphenyl | ND | ug/kg | 330 | | | |
| 4-Chloroaniline | ND | ug/kg | 330 | | | |
| 2-Nitroaniline | ND | ug/kg | 330 | | | |
| 3-Nitroaniline | ND | ug/kg | 330 | | | |
| 4-Nitroaniline | ND | ug/kg | 470 | | | |
| Dibenzofuran | ND | ug/kg | 330 | | | |
| 2-Methylnaphthalene | ND | ug/kg | 330 | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/kg | 1300 | | | |
| Acetophenone | ND | ug/kg | 1300 | | | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 330 | | | |
| P-Chloro-M-Cresol | ND | ug/kg | 330 | | | |
| 2-Chlorophenol | ND | ug/kg | 400 | | | |
| 2,4-Dichlorophenol | ND | ug/kg | 670 | | | |
| 2,4-Dimethylphenol | ND | ug/kg | 330 | | | |
| 2-Nitrophenol | ND | ug/kg | 1300 | | | |
| 4-Nitrophenol | ND | ug/kg | 670 | | | |
| 2,4-Dinitrophenol | ND | ug/kg | 1300 | | | |
| 4,6-Dinitro-o-cresol | ND | ug/kg | 1300 | | | |
| Pentachlorophenol | ND | ug/kg | 1300 | | | |
| Phenol | ND | ug/kg | 470 | | | |
| 2-Methylphenol | ND | ug/kg | 400 | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/kg | 400 | | | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 330 | | | |
| Benzoic Acid | ND | ug/kg | 3300 | | | |
| Benzyl Alcohol | ND | ug/kg | 670 | | | |
| Carbazole | ND | ug/kg | 330 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 58.0 | % | 25-120 | | | |
| Phenol-d6 | 54.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 52.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 51.0 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 57.0 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 61.0 | % | 18-120 | | | |
| Blank Analysis for sample(s) 04 (WG336664-1) | | | | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 0916 09:50 0916 16:02 PS | |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0813344

Continued

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|--|--------|-------|------|------------|------------|------------|----|
| | | | | | PREP | ANAL | |
| Blank Analysis for sample(s) 04 (WG336664-1) | | | | | | | |
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 8270C | 0916 09:50 | 0916 16:02 | PS |
| Acenaphthene | ND | ug/kg | 330 | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 330 | | | | |
| Hexachlorobenzene | ND | ug/kg | 330 | | | | |
| Bis(2-chloroethyl)ether | ND | ug/kg | 330 | | | | |
| 2-Chloronaphthalene | ND | ug/kg | 400 | | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 330 | | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 330 | | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 330 | | | | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 670 | | | | |
| 2,4-Dinitrotoluene | ND | ug/kg | 330 | | | | |
| 2,6-Dinitrotoluene | ND | ug/kg | 330 | | | | |
| Fluoranthene | ND | ug/kg | 330 | | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/kg | 330 | | | | |
| 4-Bromophenyl phenyl ether | ND | ug/kg | 330 | | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/kg | 330 | | | | |
| Bis(2-chloroethoxy)methane | ND | ug/kg | 330 | | | | |
| Hexachlorobutadiene | ND | ug/kg | 670 | | | | |
| Hexachlorocyclopentadiene | ND | ug/kg | 670 | | | | |
| Hexachloroethane | ND | ug/kg | 330 | | | | |
| Isophorone | ND | ug/kg | 330 | | | | |
| Naphthalene | ND | ug/kg | 330 | | | | |
| Nitrobenzene | ND | ug/kg | 330 | | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/kg | 1000 | | | | |
| n-Nitrosodi-n-propylamine | ND | ug/kg | 330 | | | | |
| Bis(2-Ethylhexyl)phthalate | ND | ug/kg | 670 | | | | |
| Butyl benzyl phthalate | ND | ug/kg | 330 | | | | |
| Di-n-butylphthalate | ND | ug/kg | 330 | | | | |
| Di-n-octylphthalate | ND | ug/kg | 330 | | | | |
| Diethyl phthalate | ND | ug/kg | 330 | | | | |
| Dimethyl phthalate | ND | ug/kg | 330 | | | | |
| Benzo(a)anthracene | ND | ug/kg | 330 | | | | |
| Benzo(a)pyrene | ND | ug/kg | 330 | | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 330 | | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 330 | | | | |
| Chrysene | ND | ug/kg | 330 | | | | |
| Acenaphthylene | ND | ug/kg | 330 | | | | |
| Anthracene | ND | ug/kg | 330 | | | | |
| Benzo(ghi)perylene | ND | ug/kg | 330 | | | | |
| Fluorene | ND | ug/kg | 330 | | | | |
| Phenanthrene | ND | ug/kg | 330 | | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 330 | | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 330 | | | | |
| Pyrene | ND | ug/kg | 330 | | | | |
| Biphenyl | ND | ug/kg | 330 | | | | |
| 4-Chloroaniline | ND | ug/kg | 330 | | | | |
| 2-Nitroaniline | ND | ug/kg | 330 | | | | |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0813344

Continued

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP | DATE ANAL | ID |
|---|----------|-------|-------------|------------|--------------|--------------|----|
| Blank Analysis for sample(s) 04 (WG336664-1) | | | | | | | |
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 8270C | 0916 09:50 | 0916 16:02 | PS |
| 3-Nitroaniline | ND | ug/kg | 330 | | | | |
| 4-Nitroaniline | ND | ug/kg | 470 | | | | |
| Dibenzofuran | ND | ug/kg | 330 | | | | |
| 2-Methylnaphthalene | ND | ug/kg | 330 | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/kg | 1300 | | | | |
| Acetophenone | ND | ug/kg | 1300 | | | | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 330 | | | | |
| P-Chloro-M-Cresol | ND | ug/kg | 330 | | | | |
| 2-Chlorophenol | ND | ug/kg | 400 | | | | |
| 2,4-Dichlorophenol | ND | ug/kg | 670 | | | | |
| 2,4-Dimethylphenol | ND | ug/kg | 330 | | | | |
| 2-Nitrophenol | ND | ug/kg | 1300 | | | | |
| 4-Nitrophenol | ND | ug/kg | 670 | | | | |
| 2,4-Dinitrophenol | ND | ug/kg | 1300 | | | | |
| 4,6-Dinitro-o-cresol | ND | ug/kg | 1300 | | | | |
| Pentachlorophenol | ND | ug/kg | 1300 | | | | |
| Phenol | ND | ug/kg | 470 | | | | |
| 2-Methylphenol | ND | ug/kg | 400 | | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/kg | 400 | | | | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 330 | | | | |
| Benzoic Acid | ND | ug/kg | 3300 | | | | |
| Benzyl Alcohol | ND | ug/kg | 670 | | | | |
| Carbazole | ND | ug/kg | 330 | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | |
| 2-Fluorophenol | 79.0 | % | 25-120 | | | | |
| Phenol-d6 | 75.0 | % | 10-120 | | | | |
| Nitrobenzene-d5 | 68.0 | % | 23-120 | | | | |
| 2-Fluorobiphenyl | 66.0 | % | 30-120 | | | | |
| 2,4,6-Tribromophenol | 74.0 | % | 19-120 | | | | |
| 4-Terphenyl-d14 | 74.0 | % | 18-120 | | | | |
| Blank Analysis for sample(s) 13,20,26-30 (WG335860-1) | | | | | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 8270C | 0911 00:30 | 0914 00:36 | AK |
| Acenaphthene | ND | ug/kg | 13. | | | | |
| 2-Chloronaphthalene | ND | ug/kg | 13. | | | | |
| Fluoranthene | ND | ug/kg | 13. | | | | |
| Hexachlorobutadiene | ND | ug/kg | 33. | | | | |
| Naphthalene | ND | ug/kg | 13. | | | | |
| Benzo(a)anthracene | ND | ug/kg | 13. | | | | |
| Benzo(a)pyrene | ND | ug/kg | 13. | | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 13. | | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 13. | | | | |
| Chrysene | ND | ug/kg | 13. | | | | |
| Acenaphthylene | ND | ug/kg | 13. | | | | |
| Anthracene | ND | ug/kg | 13. | | | | |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0813344

Continued

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Blank Analysis for sample(s) 13,20,26-30 (WG335860-1) | | | | | | |
| Semivolatile Organics by EPA 8270C-SIM cont'd | | | | 1 8270C | 0911 00:30 0914 00:36 AK | |
| Benzo(ghi)perylene | ND | ug/kg | 13. | | | |
| Fluorene | ND | ug/kg | 13. | | | |
| Phenanthrene | ND | ug/kg | 13. | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 13. | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 13. | | | |
| Pyrene | ND | ug/kg | 13. | | | |
| 2-Methylnaphthalene | ND | ug/kg | 13. | | | |
| Pentachlorophenol | ND | ug/kg | 53. | | | |
| Hexachlorobenzene | ND | ug/kg | 53. | | | |
| Hexachloroethane | ND | ug/kg | 53. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 78.0 | % | 25-120 | | | |
| Phenol-d6 | 82.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 77.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 68.0 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 67.0 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 77.0 | % | 18-120 | | | |
| Blank Analysis for sample(s) 04-08,10,12,14-19,21-22,24-25 (WG335863-1) | | | | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 8270C | 0911 03:30 0912 18:46 AK | |
| Acenaphthene | ND | ug/kg | 13. | | | |
| 2-Chloronaphthalene | ND | ug/kg | 13. | | | |
| Fluoranthene | ND | ug/kg | 13. | | | |
| Hexachlorobutadiene | ND | ug/kg | 33. | | | |
| Naphthalene | ND | ug/kg | 13. | | | |
| Benzo(a)anthracene | ND | ug/kg | 13. | | | |
| Benzo(a)pyrene | ND | ug/kg | 13. | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 13. | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 13. | | | |
| Chrysene | ND | ug/kg | 13. | | | |
| Acenaphthylene | ND | ug/kg | 13. | | | |
| Anthracene | ND | ug/kg | 13. | | | |
| Benzo(ghi)perylene | ND | ug/kg | 13. | | | |
| Fluorene | ND | ug/kg | 13. | | | |
| Phenanthrene | ND | ug/kg | 13. | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 13. | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 13. | | | |
| Pyrene | ND | ug/kg | 13. | | | |
| 2-Methylnaphthalene | ND | ug/kg | 13. | | | |
| Pentachlorophenol | ND | ug/kg | 53. | | | |
| Hexachlorobenzene | ND | ug/kg | 53. | | | |
| Hexachloroethane | ND | ug/kg | 53. | | | |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0813344

Continued

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Blank Analysis for sample(s) 04-08,10,12,14-19,21-22,24-25 (WG335863-1) | | | | | | |
| Semivolatiles Organics by EPA 8270C-SIM cont'd | | | | 1 8270C | 0911 03:30 0912 18:46 AK | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 68.0 | % | 25-120 | | | |
| Phenol-d6 | 72.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 65.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 62.0 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 75.0 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 86.0 | % | 18-120 | | | |
| Blank Analysis for sample(s) 09,23 (WG336734-1) | | | | | | |
| Semivolatiles Organics by EPA 8270C-SIM | | | | 1 8270C | 0915 18:00 0916 13:52 AK | |
| Acenaphthene | ND | ug/kg | 13. | | | |
| 2-Chloronaphthalene | ND | ug/kg | 13. | | | |
| Fluoranthene | ND | ug/kg | 13. | | | |
| Hexachlorobutadiene | ND | ug/kg | 33. | | | |
| Naphthalene | ND | ug/kg | 13. | | | |
| Benzo(a)anthracene | ND | ug/kg | 13. | | | |
| Benzo(a)pyrene | ND | ug/kg | 13. | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 13. | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 13. | | | |
| Chrysene | ND | ug/kg | 13. | | | |
| Acenaphthylene | ND | ug/kg | 13. | | | |
| Anthracene | ND | ug/kg | 13. | | | |
| Benzo(ghi)perylene | ND | ug/kg | 13. | | | |
| Fluorene | ND | ug/kg | 13. | | | |
| Phenanthrene | ND | ug/kg | 13. | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 13. | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 13. | | | |
| Pyrene | ND | ug/kg | 13. | | | |
| 2-Methylnaphthalene | ND | ug/kg | 13. | | | |
| Pentachlorophenol | ND | ug/kg | 53. | | | |
| Hexachlorobenzene | ND | ug/kg | 53. | | | |
| Hexachloroethane | ND | ug/kg | 53. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 67.0 | % | 25-120 | | | |
| Phenol-d6 | 70.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 65.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 60.0 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 66.0 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 77.0 | % | 18-120 | | | |
| Blank Analysis for sample(s) 04-10,12,14-19,21-25 (WG335858-1) | | | | | | |
| Petroleum Hydrocarbon Quantitation by GC-FID | | | | 1 8015B(M) | 0911 00:15 0912 00:20 RT | |
| TPH | ND | ug/kg | 33300 | | | |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0813344

Continued

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP | ANAL | ID |
|--|----------|-------|-----|-------------|--------------|------------|----|
| Blank Analysis for sample(s) 04-10,12,14-19,21-25 (WG335858-1) | | | | | | | |
| Petroleum Hydrocarbon Quantitation by GC-FID cont'd | | | | 1 8015B(M) | 0911 00:15 | 0912 00:20 | RT |
| Surrogate(s) | Recovery | | | QC Criteria | | | |
| o-Terphenyl | 73.0 | % | | 40-140 | | | |
| Blank Analysis for sample(s) 13,26-30 (WG335859-1) | | | | | | | |
| Petroleum Hydrocarbon Quantitation by GC-FID | | | | 1 8015B(M) | 0911 01:00 | 0911 12:14 | JL |
| TPH | ND | ug/kg | | 33300 | | | |
| Surrogate(s) | Recovery | | | QC Criteria | | | |
| o-Terphenyl | 70.0 | % | | 40-140 | | | |

**ALPHA ANALYTICAL
ADDENDUM I**

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.
30. Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

GLOSSARY OF TERMS AND SYMBOLS

| | |
|---------|--|
| REF | Reference number in which test method may be found. |
| METHOD | Method number by which analysis was performed. |
| ID | Initials of the analyst. |
| ND | Not detected in comparison to the reported detection limit. |
| NI | Not Ignitable. |
| ug/cart | Micrograms per Cartridge. |
| H | The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection. |

LIMITATION OF LIABILITIES

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

CHAIN OF CUSTODY

PAGE 2 OF 4



ANALYTICAL

Westborough, MA Mansfield, MA
TEL. 508-898-9220 TEL. 508-822-9300
FAX 508-898-9193 FAX 508-822-3288

Project Information

Project Name:

Aurion Bury

Project Location: 50 Bury Ave Northville Center

Project #:

ALM0201

Project Manager: Kris Almskog

Alpha Quote #:

Turn-Around Time

Standard

Rush (ONLY IF PRE-APPROVED)

Fax: 631-589-8705

Email: ☐ These samples have been previously analyzed by Alpha

Due Date:

9/16 Time:

Other Project Specific Requirements/Comments/Detection Limits:

Date Rec'd in Lab:

9/9

ALPHA Job #:

60813344

Report Information Data Deliverables

☐ FAX ☐ EMAIL

☐ ADEX ☐ Add'l Deliverables

Regulatory Requirements/Report Limits

State/Fed Program

MSDC Analytical Services (Protocol 057)

MCP PRESUMPTIVE CERTAINTY-CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

ANALYSIS

SAMPLE HANDLING

Filtration

☐ Done

☐ Not Needed

Preservation

☐ Lab to do

☐ Lab to do

(Please specify below)

TO T A L # B O T T L E S

ALPHA Lab ID
(Lab Use Only)

Sample ID

Collection
Date Time

Sample
Matrix

Sampler's
Initials

3344-10 PWG-DW-2008-07(6.75-7.25')MSD

9/8/08

1045

L

JLL

8260 TCL

8270# TCL

TPH 8015

RCRA Metals, 6010/7000

TCL

4

11 PWG-DW-2008-08(5.25-5.75')

1105

1125

1140

1155

1205

1220

1230

1240

8260 TCL

8270# TCL

TPH 8015

RCRA Metals, 6010/7000

TCL

4

12 PWG-DW-2008-09(6.75-7.25')

1125

1140

1155

1205

1220

1230

1240

8260 TCL

8270# TCL

TPH 8015

RCRA Metals, 6010/7000

TCL

4

13 PWG-DW-2008-10(6.75-7.25')

1140

1155

1205

1220

1230

1240

8260 TCL

8270# TCL

TPH 8015

RCRA Metals, 6010/7000

TCL

4

14 PWG-DW-2008-11(6.75-7.25')

1155

1205

1220

1230

1240

8260 TCL

8270# TCL

TPH 8015

RCRA Metals, 6010/7000

TCL

4

15 PWG-DW-2008-12(7.25-7.75')

1205

1220

1230

1240

8260 TCL

8270# TCL

TPH 8015

RCRA Metals, 6010/7000

TCL

4

16 PWG-DW-2008-13(7.25-7.75')

1220

1230

1240

8260 TCL

8270# TCL

TPH 8015

RCRA Metals, 6010/7000

TCL

4

17 PWG-DW-2008-14(7.75-8.25')

1230

1240

8260 TCL

8270# TCL

TPH 8015

RCRA Metals, 6010/7000

TCL

4

18 PWG-DW-2008-15(7.75-8.25')

1240

8260 TCL

8270# TCL

TPH 8015

RCRA Metals, 6010/7000

TCL

4

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MA MCP or CT RCP?

FORM NO. 01/01/00
(Rev. 05/04/07)

Relinquished By:

Container Type

Preservative

Date/Time

Received By:

Date/Time

Date/Time

Date/Time

Date/Time

Date/Time

Date/Time

Date/Time

Date/Time

Date/Time

Date/Time

Date/Time

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.

Relinquished By: [Signature] 9/9/08 11:10
Received By: [Signature] 9/9/08 13:50
Date/Time: 9/9/08 13:50

ALPHA ANALYTICAL

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220 www.alphalab.com

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: P.W. Grosser

Laboratory Job Number: L0813196

Address: 630 Johnson Avenue
Suite 7
Bohemia, NY 11716

Date Received: 05-SEP-2008

Date Reported: 15-SEP-2008

Attn: Mr. Kris Almskog

Delivery Method: Alpha

Project Number: AVB0801

Site: FORMER DARBY DRUG

| ALPHA SAMPLE NUMBER | CLIENT IDENTIFICATION | SAMPLE LOCATION |
|---------------------|-------------------------------|-----------------|
| L0813196-01 | PWG.SB.2008.05@5-10' | RUC |
| L0813196-02 | PWG.GW.2008.05 | RUC |
| L0813196-03 | PWG.SB.2008.03@10-15' | RUC |
| L0813196-04 | PWG.GW.2008.03 | RUC |
| L0813196-05 | PWG.SB.2008.08@5-10' | RUC |
| L0813196-06 | PWG.GW.2008.08 | RUC |
| L0813196-07 | FB090308 (SOIL) | RUC |
| L0813196-08 | PWG.SB.2008.02@5-10' | RUC |
| L0813196-09 | PWG.GW.2008.02 | RUC |
| L0813196-10 | PWG.SB.2008.04@5-10' | RUC |
| L0813196-11 | PWG.GW.2008.04 | RUC |
| L0813196-12 | PWG.GW.2008.24 | RUC |
| L0813196-13 | PWG.SB.2008.06@5-10' (MS/MSD) | RUC |
| L0813196-14 | PWG.GW.2008.06 | RUC |
| L0813196-15 | FB090308 (GW) | RUC |
| L0813196-16 | TB090308 | RUC |
| L0813196-17 | FB090408 (GW) | RUC |
| L0813196-18 | PWG.SB.2008.07@10-15' | RUC |
| L0813196-19 | PWG.GW.2008.07 | RUC |
| L0813196-20 | PWG.SB.2008.01@5-10' | RUC |
| L0813196-21 | PWG.SB.2008.21@5-10' | RUC |
| L0813196-22 | PWG.GW.2008.01 | RUC |
| L0813196-23 | PWG.GW.2008.15 | RUC |
| L0813196-24 | PWG.SB.2008.13@5-10' | RUC |

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: _____

Technical Representative

ALPHA ANALYTICAL

Laboratory Job Number: L0813196

Date Reported: 15-SEP-2008

| ALPHA SAMPLE NUMBER | CLIENT IDENTIFICATION | SAMPLE LOCATION |
|---------------------|--------------------------------|-----------------|
| L0813196-25 | PWG.SB.2008.13@10-15' | RUC |
| L0813196-26 | PWG.GW.2008.13 | RUC |
| L0813196-27 | PWG.SB.2008.14@0-5' | RUC |
| L0813196-28 | PWG.SB.2008.14@10-15' | RUC |
| L0813196-29 | PWG.GW.2008.14 | RUC |
| L0813196-30 | PWG.SB.2008.10@5-10' | RUC |
| L0813196-31 | PWG.SB.2008.10@10-15' | RUC |
| L0813196-32 | PWG.SB.2008.09@5-10' | RUC |
| L0813196-33 | PWG.SB.2008.09@15-20' (MS/MSD) | RUC |
| L0813196-34 | PWG.SB.2008.11@5-10' | RUC |
| L0813196-35 | PWG.SB.2008.11@15-20' | RUC |
| L0813196-36 | PWG.SB.2008.12@5-10' | RUC |
| L0813196-37 | PWG.SB.2008.22@5-10' | RUC |
| L0813196-38 | PWG.SB.2008.12@10-15' | RUC |
| L0813196-39 | FB090508 (SOIL) | RUC |
| L0813196-40 | FB090408 (SOIL) | RUC |

**ALPHA ANALYTICAL
NARRATIVE REPORT**

Laboratory Job Number: L0813196

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

Sample Receipt

A sample identified as "FB 090408 (SOIL)" was received but not listed on the Chain of Custody. At the client's request, this sample was analyzed for TCL VOCs.

Volatile Organics

L0813196-26 has elevated detection limits due to the 20x dilution required by the elevated concentrations of target compounds in the sample.

L0813196-28 has elevated detection limits due to the 2x dilution required by the elevated concentrations of target compounds in the sample.

L0813196-29 required re-analysis on a 10x dilution in order to quantitate the sample within the calibration range. The result is reported as a "greater than" value for the compound that exceeded the calibration on the initial analysis. The re-analysis was performed only for the compound which exceeded the calibration range.

The surrogate recovery for L0813196-33 is above the acceptance criteria for 4-Bromofluorobenzene (140%). Since the sample was non-detect for all target analytes, re-analysis is not required.

The surrogate recovery for L0813196-35 is above the acceptance criteria for 1,2-Dichloroethane-d4 (134%) and 4-Bromofluorobenzene (139%). Since the sample was non-detect for all target analytes, re-analysis is not required.

Metals

The WG335841-3 Laboratory Duplicate RPD for Mercury (117%) associated with L0813196-21 is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogenous nature of the sample utilized for the laboratory duplicate.

The WG335482-2 MS recoveries for Antimony (50%), Calcium (166%), Chromium (74%), Lead (69%), Magnesium (64%), Manganese (133%), and Zinc (62%) associated with L0813196-21 are outside the acceptance criteria. Post digestion spikes were performed with acceptable recoveries of 100% for Antimony, 96% for Calcium, 91% for Chromium, 102% for Lead, 88% for Magnesium, 88% for Manganese, and 88% for Zinc.

The MS recoveries for Aluminum (0%) and Iron (0%) are invalid because the sample concentration is greater than four times the spike amount added.

The WG335841-4 MS recovery for Mercury (6%) associated with L0813196-21 is below the acceptance criteria. A post digestion spike was performed with an acceptable recovery of 98%.

Pesticides

ALPHA ANALYTICAL
NARRATIVE REPORT

Laboratory Job Number: L0813196

Continued

The WG335356-3 LCS/LCSD RPDs associated with L0813196-05, -20, -21, -27, and -30 are above the acceptance criteria for Delta-BHC (37%), Lindane (32%), Alpha-BHC (34%), Beta-BHC (31%), Heptachlor (34%), Aldrin (35%), Heptachlor epoxide (35%), Endrin (39%), Endrin ketone (36%), Dieldrin (38%), 4,4'-DDE (37%), 4,4'-DDD (40%), 4,4'-DDT (40%), Endosulfan I (37%), Endosulfan II (39%), Endosulfan sulfate (41%), Methoxychlor (41%), and trans-Chlordane (34%); however, the individual LCS/LCSD recoveries are within method limits. The results of the associated samples are reported.

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0813196-01 | Date Collected: 03-SEP-2008 09:50 |
| PWG.SB.2008.05@5-10' | Date Received : 05-SEP-2008 |
| Sample Matrix: SOIL | Date Reported : 15-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 1-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-------------------|----|
| Solids, Total | 84 | % | 0.10 | 30 2540G | 0911 15:15 | SD |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0906 16:22 | PD |
| Methylene chloride | ND | ug/kg | 30. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 4.5 | | | |
| Chloroform | ND | ug/kg | 4.5 | | | |
| Carbon tetrachloride | ND | ug/kg | 3.0 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 10. | | | |
| Dibromochloromethane | ND | ug/kg | 3.0 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 4.5 | | | |
| Tetrachloroethene | ND | ug/kg | 3.0 | | | |
| Chlorobenzene | ND | ug/kg | 3.0 | | | |
| Trichlorofluoromethane | ND | ug/kg | 15. | | | |
| 1,2-Dichloroethane | ND | ug/kg | 3.0 | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 3.0 | | | |
| Bromodichloromethane | ND | ug/kg | 3.0 | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 3.0 | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 3.0 | | | |
| 1,1-Dichloropropene | ND | ug/kg | 15. | | | |
| Bromoform | ND | ug/kg | 12. | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 3.0 | | | |
| Benzene | ND | ug/kg | 3.0 | | | |
| Toluene | ND | ug/kg | 4.5 | | | |
| Ethylbenzene | ND | ug/kg | 3.0 | | | |
| Chloromethane | ND | ug/kg | 15. | | | |
| Bromomethane | ND | ug/kg | 6.0 | | | |
| Vinyl chloride | ND | ug/kg | 6.0 | | | |
| Chloroethane | ND | ug/kg | 6.0 | | | |
| 1,1-Dichloroethene | ND | ug/kg | 3.0 | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 4.5 | | | |
| Trichloroethene | ND | ug/kg | 3.0 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 15. | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 15. | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 15. | | | |
| Methyl tert butyl ether | ND | ug/kg | 6.0 | | | |
| p/m-Xylene | ND | ug/kg | 6.0 | | | |
| o-Xylene | ND | ug/kg | 6.0 | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 3.0 | | | |
| Dibromomethane | ND | ug/kg | 30. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-01
PWG.SB.2008.05@5-10'

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|------------|-------|---------------|----|
| | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0906 16:22 PD | |
| Styrene | ND | ug/kg | 6.0 | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 30. | | | | |
| Acetone | ND | ug/kg | 30. | | | | |
| Carbon disulfide | ND | ug/kg | 30. | | | | |
| 2-Butanone | ND | ug/kg | 30. | | | | |
| Vinyl acetate | ND | ug/kg | 30. | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 30. | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 30. | | | | |
| 2-Hexanone | ND | ug/kg | 30. | | | | |
| Bromochloromethane | ND | ug/kg | 15. | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 15. | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 12. | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 15. | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 3.0 | | | | |
| Bromobenzene | ND | ug/kg | 15. | | | | |
| n-Butylbenzene | ND | ug/kg | 3.0 | | | | |
| sec-Butylbenzene | ND | ug/kg | 3.0 | | | | |
| tert-Butylbenzene | ND | ug/kg | 15. | | | | |
| o-Chlorotoluene | ND | ug/kg | 15. | | | | |
| p-Chlorotoluene | ND | ug/kg | 15. | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 15. | | | | |
| Hexachlorobutadiene | ND | ug/kg | 15. | | | | |
| Isopropylbenzene | ND | ug/kg | 3.0 | | | | |
| p-Isopropyltoluene | ND | ug/kg | 3.0 | | | | |
| Naphthalene | ND | ug/kg | 15. | | | | |
| Acrylonitrile | ND | ug/kg | 30. | | | | |
| n-Propylbenzene | ND | ug/kg | 3.0 | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 15. | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 15. | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 15. | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 15. | | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 12. | | | | |
| 4-Ethyltoluene | ND | ug/kg | 12. | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 12. | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | |
| 1,2-Dichloroethane-d4 | 107 | % | 70-130 | | | | |
| Toluene-d8 | 108 | % | 70-130 | | | | |
| 4-Bromofluorobenzene | 119 | % | 70-130 | | | | |
| Dibromofluoromethane | 103 | % | 70-130 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | | | |
|-------------------------------------|----------------|-----------------|-------------------|
| Laboratory Sample Number: | L0813196-02 | Date Collected: | 03-SEP-2008 10:05 |
| | PWG.GW.2008.05 | Date Received : | 05-SEP-2008 |
| Sample Matrix: | WATER | Date Reported : | 15-SEP-2008 |
| Condition of Sample: | Satisfactory | Field Prep: | None |
| Number & Type of Containers: 2-Vial | | | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-------------------|----|
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0909 19:59 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | |
| Chloroform | ND | ug/l | 0.75 | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | |
| Tetrachloroethene | ND | ug/l | 0.50 | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | |
| Bromoform | ND | ug/l | 2.0 | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Benzene | ND | ug/l | 0.50 | | | |
| Toluene | ND | ug/l | 0.75 | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | |
| Chloromethane | ND | ug/l | 2.5 | | | |
| Bromomethane | ND | ug/l | 1.0 | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | |
| Chloroethane | ND | ug/l | 1.0 | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | |
| Trichloroethene | ND | ug/l | 0.50 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| Methyl tert butyl ether | ND | ug/l | 1.0 | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | |
| o-Xylene | ND | ug/l | 1.0 | | | |
| cis-1,2-Dichloroethene | ND | ug/l | 0.50 | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-02
PWG.GW.2008.05

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0909 19:59 PD | | |
| Styrene | ND | ug/l | 1.0 | | | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | | | |
| Acetone | ND | ug/l | 5.0 | | | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | | | |
| 2-Butanone | ND | ug/l | 5.0 | | | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | | | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | | | |
| Naphthalene | ND | ug/l | 2.5 | | | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 1,2-Dichloroethane-d4 | 101 | % | 70-130 | | | | | |
| Toluene-d8 | 99.0 | % | 70-130 | | | | | |
| 4-Bromofluorobenzene | 105 | % | 70-130 | | | | | |
| Dibromofluoromethane | 96.0 | % | 70-130 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | | | |
|-------------------------------------|-----------------------|-----------------|-------------------|
| Laboratory Sample Number: | L0813196-03 | Date Collected: | 03-SEP-2008 10:40 |
| | PWG.SB.2008.03@10-15' | Date Received : | 05-SEP-2008 |
| Sample Matrix: | SOIL | Date Reported : | 15-SEP-2008 |
| Condition of Sample: | Satisfactory | Field Prep: | None |
| Number & Type of Containers: 1-Vial | | | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-------------------|----|
| Solids, Total | 79 | % | 0.10 | 30 2540G | 0911 15:15 | SD |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0906 16:59 | PD |
| Methylene chloride | ND | ug/kg | 32. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 4.7 | | | |
| Chloroform | ND | ug/kg | 4.7 | | | |
| Carbon tetrachloride | ND | ug/kg | 3.2 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 11. | | | |
| Dibromochloromethane | ND | ug/kg | 3.2 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 4.7 | | | |
| Tetrachloroethene | ND | ug/kg | 3.2 | | | |
| Chlorobenzene | ND | ug/kg | 3.2 | | | |
| Trichlorofluoromethane | ND | ug/kg | 16. | | | |
| 1,2-Dichloroethane | ND | ug/kg | 3.2 | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 3.2 | | | |
| Bromodichloromethane | ND | ug/kg | 3.2 | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 3.2 | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 3.2 | | | |
| 1,1-Dichloropropene | ND | ug/kg | 16. | | | |
| Bromoform | ND | ug/kg | 13. | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 3.2 | | | |
| Benzene | ND | ug/kg | 3.2 | | | |
| Toluene | ND | ug/kg | 4.7 | | | |
| Ethylbenzene | ND | ug/kg | 3.2 | | | |
| Chloromethane | ND | ug/kg | 16. | | | |
| Bromomethane | ND | ug/kg | 6.3 | | | |
| Vinyl chloride | ND | ug/kg | 6.3 | | | |
| Chloroethane | ND | ug/kg | 6.3 | | | |
| 1,1-Dichloroethene | ND | ug/kg | 3.2 | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 4.7 | | | |
| Trichloroethene | ND | ug/kg | 3.2 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 16. | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 16. | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 16. | | | |
| Methyl tert butyl ether | ND | ug/kg | 6.3 | | | |
| p/m-Xylene | ND | ug/kg | 6.3 | | | |
| o-Xylene | ND | ug/kg | 6.3 | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 3.2 | | | |
| Dibromomethane | ND | ug/kg | 32. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-03
PWG.SB.2008.03@10-15'

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|------------|-------|---------------|----|
| | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0906 16:59 PD | |
| Styrene | ND | ug/kg | 6.3 | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 32. | | | | |
| Acetone | ND | ug/kg | 32. | | | | |
| Carbon disulfide | ND | ug/kg | 32. | | | | |
| 2-Butanone | ND | ug/kg | 32. | | | | |
| Vinyl acetate | ND | ug/kg | 32. | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 32. | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 32. | | | | |
| 2-Hexanone | ND | ug/kg | 32. | | | | |
| Bromochloromethane | ND | ug/kg | 16. | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 16. | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 13. | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 16. | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 3.2 | | | | |
| Bromobenzene | ND | ug/kg | 16. | | | | |
| n-Butylbenzene | ND | ug/kg | 3.2 | | | | |
| sec-Butylbenzene | ND | ug/kg | 3.2 | | | | |
| tert-Butylbenzene | ND | ug/kg | 16. | | | | |
| o-Chlorotoluene | ND | ug/kg | 16. | | | | |
| p-Chlorotoluene | ND | ug/kg | 16. | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 16. | | | | |
| Hexachlorobutadiene | ND | ug/kg | 16. | | | | |
| Isopropylbenzene | ND | ug/kg | 3.2 | | | | |
| p-Isopropyltoluene | ND | ug/kg | 3.2 | | | | |
| Naphthalene | ND | ug/kg | 16. | | | | |
| Acrylonitrile | ND | ug/kg | 32. | | | | |
| n-Propylbenzene | ND | ug/kg | 3.2 | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 16. | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 16. | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 16. | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 16. | | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 13. | | | | |
| 4-Ethyltoluene | ND | ug/kg | 13. | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 13. | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | |
| 1,2-Dichloroethane-d4 | 105 | % | 70-130 | | | | |
| Toluene-d8 | 107 | % | 70-130 | | | | |
| 4-Bromofluorobenzene | 121 | % | 70-130 | | | | |
| Dibromofluoromethane | 103 | % | 70-130 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|---------------------------------------|-----------------------------------|
| Laboratory Sample Number: L0813196-04 | Date Collected: 03-SEP-2008 10:55 |
| PWG.GW.2008.03 | Date Received : 05-SEP-2008 |
| Sample Matrix: WATER | Date Reported : 15-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 2-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-------------------|----|
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0909 20:35 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | |
| Chloroform | ND | ug/l | 0.75 | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | |
| Tetrachloroethene | ND | ug/l | 0.50 | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | |
| Bromoform | ND | ug/l | 2.0 | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Benzene | ND | ug/l | 0.50 | | | |
| Toluene | ND | ug/l | 0.75 | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | |
| Chloromethane | ND | ug/l | 2.5 | | | |
| Bromomethane | ND | ug/l | 1.0 | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | |
| Chloroethane | ND | ug/l | 1.0 | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | |
| Trichloroethene | ND | ug/l | 0.50 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| Methyl tert butyl ether | ND | ug/l | 1.0 | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | |
| o-Xylene | ND | ug/l | 1.0 | | | |
| cis-1,2-Dichloroethene | ND | ug/l | 0.50 | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-04
PWG.GW.2008.03

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|------------|-------|---------------|----|
| | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0909 20:35 PD | |
| Styrene | ND | ug/l | 1.0 | | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | | |
| Acetone | ND | ug/l | 5.0 | | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | | |
| 2-Butanone | ND | ug/l | 5.0 | | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | | |
| Naphthalene | ND | ug/l | 2.5 | | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | |
| 1,2-Dichloroethane-d4 | 102 | % | 70-130 | | | | |
| Toluene-d8 | 99.0 | % | 70-130 | | | | |
| 4-Bromofluorobenzene | 102 | % | 70-130 | | | | |
| Dibromofluoromethane | 98.0 | % | 70-130 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0813196-05 | Date Collected: 03-SEP-2008 11:40 |
| PWG.SB.2008.08@5-10' | Date Received : 05-SEP-2008 |
| Sample Matrix: SOIL | Date Reported : 15-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 3-Amber,1-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-----------------------|----|
| Solids, Total | 86 | % | 0.10 | 30 2540G | 0909 18:20 | NM |
| Total Metals | | | | | | |
| Aluminum, Total | 2500 | mg/kg | 5.6 | 1 6010B | 0908 14:00 0910 19:44 | TD |
| Antimony, Total | ND | mg/kg | 2.8 | 1 6010B | 0908 14:00 0910 19:44 | TD |
| Arsenic, Total | 1.8 | mg/kg | 0.56 | 1 6010B | 0908 14:00 0910 19:44 | TD |
| Barium, Total | 14 | mg/kg | 0.56 | 1 6010B | 0908 14:00 0910 19:44 | TD |
| Beryllium, Total | ND | mg/kg | 0.28 | 1 6010B | 0908 14:00 0910 19:44 | TD |
| Cadmium, Total | ND | mg/kg | 0.56 | 1 6010B | 0908 14:00 0910 19:44 | TD |
| Calcium, Total | 92 | mg/kg | 5.6 | 1 6010B | 0908 14:00 0910 19:44 | TD |
| Chromium, Total | 4.7 | mg/kg | 0.56 | 1 6010B | 0908 14:00 0910 19:44 | TD |
| Cobalt, Total | 9.0 | mg/kg | 1.1 | 1 6010B | 0908 14:00 0910 19:44 | TD |
| Copper, Total | 5.8 | mg/kg | 0.56 | 1 6010B | 0908 14:00 0910 19:44 | TD |
| Iron, Total | 6900 | mg/kg | 2.8 | 1 6010B | 0908 14:00 0910 19:44 | TD |
| Lead, Total | ND | mg/kg | 2.8 | 1 6010B | 0908 14:00 0910 19:44 | TD |
| Magnesium, Total | 340 | mg/kg | 5.6 | 1 6010B | 0908 14:00 0910 19:44 | TD |
| Manganese, Total | 650 | mg/kg | 0.56 | 1 6010B | 0908 14:00 0910 19:44 | TD |
| Mercury, Total | ND | mg/kg | 0.09 | 1 7471A | 0910 21:30 0911 17:14 | HG |
| Nickel, Total | 5.6 | mg/kg | 1.4 | 1 6010B | 0908 14:00 0910 19:44 | TD |
| Potassium, Total | 240 | mg/kg | 140 | 1 6010B | 0908 14:00 0910 19:44 | TD |
| Selenium, Total | ND | mg/kg | 1.1 | 1 6010B | 0908 14:00 0910 19:44 | TD |
| Silver, Total | ND | mg/kg | 0.56 | 1 6010B | 0908 14:00 0910 19:44 | TD |
| Sodium, Total | ND | mg/kg | 110 | 1 6010B | 0908 14:00 0910 19:44 | TD |
| Thallium, Total | ND | mg/kg | 1.1 | 1 6010B | 0908 14:00 0910 19:44 | TD |
| Vanadium, Total | 7.5 | mg/kg | 0.56 | 1 6010B | 0908 14:00 0910 19:44 | TD |
| Zinc, Total | 25 | mg/kg | 2.8 | 1 6010B | 0908 14:00 0910 19:44 | TD |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0906 17:36 | PD |
| Methylene chloride | ND | ug/kg | 29. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 4.4 | | | |
| Chloroform | ND | ug/kg | 4.4 | | | |
| Carbon tetrachloride | ND | ug/kg | 2.9 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 10. | | | |
| Dibromochloromethane | ND | ug/kg | 2.9 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 4.4 | | | |
| Tetrachloroethene | ND | ug/kg | 2.9 | | | |
| Chlorobenzene | ND | ug/kg | 2.9 | | | |
| Trichlorofluoromethane | ND | ug/kg | 14. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-05
PWG.SB.2008.08@5-10'

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---------------------------------------|--------|-------|-----|------------|-------|---------------|----|
| | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0906 17:36 PD | |
| 1,2-Dichloroethane | ND | ug/kg | 2.9 | | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 2.9 | | | | |
| Bromodichloromethane | ND | ug/kg | 2.9 | | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 2.9 | | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 2.9 | | | | |
| 1,1-Dichloropropene | ND | ug/kg | 14. | | | | |
| Bromoform | ND | ug/kg | 12. | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 2.9 | | | | |
| Benzene | ND | ug/kg | 2.9 | | | | |
| Toluene | ND | ug/kg | 4.4 | | | | |
| Ethylbenzene | ND | ug/kg | 2.9 | | | | |
| Chloromethane | ND | ug/kg | 14. | | | | |
| Bromomethane | ND | ug/kg | 5.8 | | | | |
| Vinyl chloride | ND | ug/kg | 5.8 | | | | |
| Chloroethane | ND | ug/kg | 5.8 | | | | |
| 1,1-Dichloroethene | ND | ug/kg | 2.9 | | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 4.4 | | | | |
| Trichloroethene | ND | ug/kg | 2.9 | | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 14. | | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 14. | | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 14. | | | | |
| Methyl tert butyl ether | ND | ug/kg | 5.8 | | | | |
| p/m-Xylene | ND | ug/kg | 5.8 | | | | |
| o-Xylene | ND | ug/kg | 5.8 | | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 2.9 | | | | |
| Dibromomethane | ND | ug/kg | 29. | | | | |
| Styrene | ND | ug/kg | 5.8 | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 29. | | | | |
| Acetone | ND | ug/kg | 29. | | | | |
| Carbon disulfide | ND | ug/kg | 29. | | | | |
| 2-Butanone | ND | ug/kg | 29. | | | | |
| Vinyl acetate | ND | ug/kg | 29. | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 29. | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 29. | | | | |
| 2-Hexanone | ND | ug/kg | 29. | | | | |
| Bromochloromethane | ND | ug/kg | 14. | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 14. | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 12. | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 14. | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 2.9 | | | | |
| Bromobenzene | ND | ug/kg | 14. | | | | |
| n-Butylbenzene | ND | ug/kg | 2.9 | | | | |
| sec-Butylbenzene | ND | ug/kg | 2.9 | | | | |
| tert-Butylbenzene | ND | ug/kg | 14. | | | | |
| o-Chlorotoluene | ND | ug/kg | 14. | | | | |
| p-Chlorotoluene | ND | ug/kg | 14. | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 14. | | | | |
| Hexachlorobutadiene | ND | ug/kg | 14. | | | | |
| Isopropylbenzene | ND | ug/kg | 2.9 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-05
PWG.SB.2008.08@5-10'

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|--------------------------|----|
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0906 17:36 PD | |
| p-Isopropyltoluene | ND | ug/kg | 2.9 | | | |
| Naphthalene | ND | ug/kg | 14. | | | |
| Acrylonitrile | ND | ug/kg | 29. | | | |
| n-Propylbenzene | ND | ug/kg | 2.9 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 14. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 14. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 14. | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 14. | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 12. | | | |
| 4-Ethyltoluene | ND | ug/kg | 12. | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 12. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 104 | % | 70-130 | | | |
| Toluene-d8 | 107 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 121 | % | 70-130 | | | |
| Dibromofluoromethane | 101 | % | 70-130 | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 0906 12:05 0910 16:17 PS | |
| Acenaphthene | ND | ug/kg | 390 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 390 | | | |
| Hexachlorobenzene | ND | ug/kg | 390 | | | |
| Bis(2-chloroethyl)ether | ND | ug/kg | 390 | | | |
| 2-Chloronaphthalene | ND | ug/kg | 460 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 390 | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 390 | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 390 | | | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 780 | | | |
| 2,4-Dinitrotoluene | ND | ug/kg | 390 | | | |
| 2,6-Dinitrotoluene | ND | ug/kg | 390 | | | |
| Fluoranthene | ND | ug/kg | 390 | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/kg | 390 | | | |
| 4-Bromophenyl phenyl ether | ND | ug/kg | 390 | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/kg | 390 | | | |
| Bis(2-chloroethoxy)methane | ND | ug/kg | 390 | | | |
| Hexachlorobutadiene | ND | ug/kg | 780 | | | |
| Hexachlorocyclopentadiene | ND | ug/kg | 780 | | | |
| Hexachloroethane | ND | ug/kg | 390 | | | |
| Isophorone | ND | ug/kg | 390 | | | |
| Naphthalene | ND | ug/kg | 390 | | | |
| Nitrobenzene | ND | ug/kg | 390 | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/kg | 1200 | | | |
| n-Nitrosodi-n-propylamine | ND | ug/kg | 390 | | | |
| Bis(2-Ethylhexyl)phthalate | ND | ug/kg | 780 | | | |
| Butyl benzyl phthalate | ND | ug/kg | 390 | | | |
| Di-n-butylphthalate | ND | ug/kg | 390 | | | |
| Di-n-octylphthalate | ND | ug/kg | 390 | | | |
| Diethyl phthalate | ND | ug/kg | 390 | | | |
| Dimethyl phthalate | ND | ug/kg | 390 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-05
PWG.SB.2008.08@5-10'

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 8270C | 0906 12:05 0910 16:17 PS | |
| Benzo(a)anthracene | ND | ug/kg | 390 | | | |
| Benzo(a)pyrene | ND | ug/kg | 390 | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 390 | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 390 | | | |
| Chrysene | ND | ug/kg | 390 | | | |
| Acenaphthylene | ND | ug/kg | 390 | | | |
| Anthracene | ND | ug/kg | 390 | | | |
| Benzo(ghi)perylene | ND | ug/kg | 390 | | | |
| Fluorene | ND | ug/kg | 390 | | | |
| Phenanthrene | ND | ug/kg | 390 | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 390 | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 390 | | | |
| Pyrene | ND | ug/kg | 390 | | | |
| Biphenyl | ND | ug/kg | 390 | | | |
| 4-Chloroaniline | ND | ug/kg | 390 | | | |
| 2-Nitroaniline | ND | ug/kg | 390 | | | |
| 3-Nitroaniline | ND | ug/kg | 390 | | | |
| 4-Nitroaniline | ND | ug/kg | 540 | | | |
| Dibenzofuran | ND | ug/kg | 390 | | | |
| 2-Methylnaphthalene | ND | ug/kg | 390 | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/kg | 1600 | | | |
| Acetophenone | ND | ug/kg | 1600 | | | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 390 | | | |
| p-Chloro-M-Cresol | ND | ug/kg | 390 | | | |
| 2-Chlorophenol | ND | ug/kg | 460 | | | |
| 2,4-Dichlorophenol | ND | ug/kg | 780 | | | |
| 2,4-Dimethylphenol | ND | ug/kg | 390 | | | |
| 2-Nitrophenol | ND | ug/kg | 1600 | | | |
| 4-Nitrophenol | ND | ug/kg | 780 | | | |
| 2,4-Dinitrophenol | ND | ug/kg | 1600 | | | |
| 4,6-Dinitro-o-cresol | ND | ug/kg | 1600 | | | |
| Pentachlorophenol | ND | ug/kg | 1600 | | | |
| Phenol | ND | ug/kg | 540 | | | |
| 2-Methylphenol | ND | ug/kg | 460 | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/kg | 460 | | | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 390 | | | |
| Benzoic Acid | ND | ug/kg | 3900 | | | |
| Benzyl Alcohol | ND | ug/kg | 780 | | | |
| Carbazole | ND | ug/kg | 390 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 53.0 | % | 25-120 | | | |
| Phenol-d6 | 49.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 46.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 44.0 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 52.0 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 48.0 | % | 18-120 | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 8270C | 0906 12:05 0911 04:13 AK | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-05
PWG.SB.2008.08@5-10'

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C-SIM cont'd | | | | 1 8270C | 0906 12:05 0911 04:13 AK | |
| Acenaphthene | ND | ug/kg | 16. | | | |
| 2-Chloronaphthalene | ND | ug/kg | 16. | | | |
| Fluoranthene | ND | ug/kg | 16. | | | |
| Hexachlorobutadiene | ND | ug/kg | 39. | | | |
| Naphthalene | ND | ug/kg | 16. | | | |
| Benzo(a)anthracene | ND | ug/kg | 16. | | | |
| Benzo(a)pyrene | ND | ug/kg | 16. | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 16. | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 16. | | | |
| Chrysene | ND | ug/kg | 16. | | | |
| Acenaphthylene | ND | ug/kg | 16. | | | |
| Anthracene | ND | ug/kg | 16. | | | |
| Benzo(ghi)perylene | ND | ug/kg | 16. | | | |
| Fluorene | ND | ug/kg | 16. | | | |
| Phenanthrene | ND | ug/kg | 16. | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 16. | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 16. | | | |
| Pyrene | ND | ug/kg | 16. | | | |
| 2-Methylnaphthalene | ND | ug/kg | 16. | | | |
| Pentachlorophenol | ND | ug/kg | 62. | | | |
| Hexachlorobenzene | ND | ug/kg | 62. | | | |
| Hexachloroethane | ND | ug/kg | 62. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 50.0 | % | 25-120 | | | |
| Phenol-d6 | 53.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 50.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 48.0 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 72.0 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 63.0 | % | 18-120 | | | |
| Polychlorinated Biphenyls by EPA 8082 | | | | 1 8082 | 0909 23:00 0910 16:25 SH | |
| Aroclor 1016 | ND | ug/kg | 38.8 | | | |
| Aroclor 1221 | ND | ug/kg | 38.8 | | | |
| Aroclor 1232 | ND | ug/kg | 38.8 | | | |
| Aroclor 1242 | ND | ug/kg | 38.8 | | | |
| Aroclor 1248 | ND | ug/kg | 38.8 | | | |
| Aroclor 1254 | ND | ug/kg | 38.8 | | | |
| Aroclor 1260 | ND | ug/kg | 38.8 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 60.0 | % | 30-150 | | | |
| Decachlorobiphenyl | 67.0 | % | 30-150 | | | |
| Organochlorine Pesticides by EPA 8081A | | | | 1 8081A | 0906 10:30 0910 17:12 SS | |
| Delta-BHC | ND | ug/kg | 3.88 | | | |
| Lindane | ND | ug/kg | 3.88 | | | |
| Alpha-BHC | ND | ug/kg | 3.88 | | | |
| Beta-BHC | ND | ug/kg | 3.88 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-05
PWG.SB.2008.08@5-10'

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---|----------|-------|-------------|------------|------------|------------|----|
| | | | | | PREP | ANAL | |
| | | | | | | | |
| Organochlorine Pesticides by EPA 8081A cont'd | | | | 1 8081A | 0906 10:30 | 0910 17:12 | SS |
| Heptachlor | ND | ug/kg | 3.88 | | | | |
| Aldrin | ND | ug/kg | 3.88 | | | | |
| Heptachlor epoxide | ND | ug/kg | 3.88 | | | | |
| Endrin | ND | ug/kg | 3.88 | | | | |
| Endrin ketone | ND | ug/kg | 3.88 | | | | |
| Dieldrin | ND | ug/kg | 3.88 | | | | |
| 4,4'-DDE | ND | ug/kg | 3.88 | | | | |
| 4,4'-DDD | ND | ug/kg | 3.88 | | | | |
| 4,4'-DDT | ND | ug/kg | 3.88 | | | | |
| Endosulfan I | ND | ug/kg | 3.88 | | | | |
| Endosulfan II | ND | ug/kg | 3.88 | | | | |
| Endosulfan sulfate | ND | ug/kg | 3.88 | | | | |
| Methoxychlor | ND | ug/kg | 15.5 | | | | |
| trans-Chlordane | ND | ug/kg | 3.88 | | | | |
| Chlordane | ND | ug/kg | 38.8 | | | | |
| | | | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 51.0 | % | 30-150 | | | | |
| Decachlorobiphenyl | 65.0 | % | 30-150 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0813196-06 | Date Collected: 03-SEP-2008 11:50 |
| PWG.GW.2008.08 | Date Received : 05-SEP-2008 |
| Sample Matrix: WATER | Date Reported : 15-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 2-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-------------------|----|
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0909 21:12 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | |
| Chloroform | ND | ug/l | 0.75 | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | |
| Tetrachloroethene | ND | ug/l | 0.50 | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | |
| Bromoform | ND | ug/l | 2.0 | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Benzene | ND | ug/l | 0.50 | | | |
| Toluene | ND | ug/l | 0.75 | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | |
| Chloromethane | ND | ug/l | 2.5 | | | |
| Bromomethane | ND | ug/l | 1.0 | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | |
| Chloroethane | ND | ug/l | 1.0 | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | |
| Trichloroethene | ND | ug/l | 0.50 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| Methyl tert butyl ether | ND | ug/l | 1.0 | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | |
| o-Xylene | ND | ug/l | 1.0 | | | |
| cis-1,2-Dichloroethene | ND | ug/l | 0.50 | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-06
PWG.GW.2008.08

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0909 21:12 PD | | |
| Styrene | ND | ug/l | 1.0 | | | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | | | |
| Acetone | ND | ug/l | 5.0 | | | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | | | |
| 2-Butanone | ND | ug/l | 5.0 | | | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | | | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | | | |
| Naphthalene | ND | ug/l | 2.5 | | | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 1,2-Dichloroethane-d4 | 100 | % | 70-130 | | | | | |
| Toluene-d8 | 100 | % | 70-130 | | | | | |
| 4-Bromofluorobenzene | 105 | % | 70-130 | | | | | |
| Dibromofluoromethane | 98.0 | % | 70-130 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0813196-07 | Date Collected: 03-SEP-2008 13:00 |
| FB090308 (SOIL) | Date Received : 05-SEP-2008 |
| Sample Matrix: WATER | Date Reported : 15-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 2-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-------------------|----|
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0909 21:48 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | |
| Chloroform | ND | ug/l | 0.75 | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | |
| Tetrachloroethene | ND | ug/l | 0.50 | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | |
| Bromoform | ND | ug/l | 2.0 | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Benzene | ND | ug/l | 0.50 | | | |
| Toluene | ND | ug/l | 0.75 | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | |
| Chloromethane | ND | ug/l | 2.5 | | | |
| Bromomethane | ND | ug/l | 1.0 | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | |
| Chloroethane | ND | ug/l | 1.0 | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | |
| Trichloroethene | ND | ug/l | 0.50 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| Methyl tert butyl ether | ND | ug/l | 1.0 | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | |
| o-Xylene | ND | ug/l | 1.0 | | | |
| cis-1,2-Dichloroethene | ND | ug/l | 0.50 | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-07
FB090308 (SOIL)

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0909 21:48 PD | | |
| Styrene | ND | ug/l | 1.0 | | | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | | | |
| Acetone | ND | ug/l | 5.0 | | | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | | | |
| 2-Butanone | ND | ug/l | 5.0 | | | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | | | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | | | |
| Naphthalene | ND | ug/l | 2.5 | | | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 1,2-Dichloroethane-d4 | 102 | % | 70-130 | | | | | |
| Toluene-d8 | 101 | % | 70-130 | | | | | |
| 4-Bromofluorobenzene | 104 | % | 70-130 | | | | | |
| Dibromofluoromethane | 99.0 | % | 70-130 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0813196-08 | Date Collected: 03-SEP-2008 13:30 |
| PWG.SB.2008.02@5-10' | Date Received : 05-SEP-2008 |
| Sample Matrix: SOIL | Date Reported : 15-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 1-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-------------------|----|
| Solids, Total | 98 | % | 0.10 | 30 2540G | 0911 15:15 | SD |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0906 18:13 | PD |
| Methylene chloride | ND | ug/kg | 26. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 3.8 | | | |
| Chloroform | ND | ug/kg | 3.8 | | | |
| Carbon tetrachloride | ND | ug/kg | 2.6 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 8.9 | | | |
| Dibromochloromethane | ND | ug/kg | 2.6 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 3.8 | | | |
| Tetrachloroethene | ND | ug/kg | 2.6 | | | |
| Chlorobenzene | ND | ug/kg | 2.6 | | | |
| Trichlorofluoromethane | ND | ug/kg | 13. | | | |
| 1,2-Dichloroethane | ND | ug/kg | 2.6 | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 2.6 | | | |
| Bromodichloromethane | ND | ug/kg | 2.6 | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 2.6 | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 2.6 | | | |
| 1,1-Dichloropropene | ND | ug/kg | 13. | | | |
| Bromoform | ND | ug/kg | 10. | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 2.6 | | | |
| Benzene | ND | ug/kg | 2.6 | | | |
| Toluene | ND | ug/kg | 3.8 | | | |
| Ethylbenzene | ND | ug/kg | 2.6 | | | |
| Chloromethane | ND | ug/kg | 13. | | | |
| Bromomethane | ND | ug/kg | 5.1 | | | |
| Vinyl chloride | ND | ug/kg | 5.1 | | | |
| Chloroethane | ND | ug/kg | 5.1 | | | |
| 1,1-Dichloroethene | ND | ug/kg | 2.6 | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 3.8 | | | |
| Trichloroethene | ND | ug/kg | 2.6 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 13. | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 13. | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 13. | | | |
| Methyl tert butyl ether | ND | ug/kg | 5.1 | | | |
| p/m-Xylene | ND | ug/kg | 5.1 | | | |
| o-Xylene | ND | ug/kg | 5.1 | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 2.6 | | | |
| Dibromomethane | ND | ug/kg | 26. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-08
PWG.SB.2008.02@5-10'

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|------------|-------|---------------|----|
| | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0906 18:13 PD | |
| Styrene | ND | ug/kg | 5.1 | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 26. | | | | |
| Acetone | ND | ug/kg | 26. | | | | |
| Carbon disulfide | ND | ug/kg | 26. | | | | |
| 2-Butanone | ND | ug/kg | 26. | | | | |
| Vinyl acetate | ND | ug/kg | 26. | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 26. | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 26. | | | | |
| 2-Hexanone | ND | ug/kg | 26. | | | | |
| Bromochloromethane | ND | ug/kg | 13. | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 13. | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 10. | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 13. | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 2.6 | | | | |
| Bromobenzene | ND | ug/kg | 13. | | | | |
| n-Butylbenzene | ND | ug/kg | 2.6 | | | | |
| sec-Butylbenzene | ND | ug/kg | 2.6 | | | | |
| tert-Butylbenzene | ND | ug/kg | 13. | | | | |
| o-Chlorotoluene | ND | ug/kg | 13. | | | | |
| p-Chlorotoluene | ND | ug/kg | 13. | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 13. | | | | |
| Hexachlorobutadiene | ND | ug/kg | 13. | | | | |
| Isopropylbenzene | ND | ug/kg | 2.6 | | | | |
| p-Isopropyltoluene | ND | ug/kg | 2.6 | | | | |
| Naphthalene | ND | ug/kg | 13. | | | | |
| Acrylonitrile | ND | ug/kg | 26. | | | | |
| n-Propylbenzene | ND | ug/kg | 2.6 | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 13. | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 13. | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 13. | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 13. | | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 10. | | | | |
| 4-Ethyltoluene | ND | ug/kg | 10. | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 10. | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | |
| 1,2-Dichloroethane-d4 | 107 | % | 70-130 | | | | |
| Toluene-d8 | 108 | % | 70-130 | | | | |
| 4-Bromofluorobenzene | 120 | % | 70-130 | | | | |
| Dibromofluoromethane | 101 | % | 70-130 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | | | |
|-------------------------------------|----------------|-----------------|-------------------|
| Laboratory Sample Number: | L0813196-09 | Date Collected: | 03-SEP-2008 13:40 |
| | PWG.GW.2008.02 | Date Received : | 05-SEP-2008 |
| Sample Matrix: | WATER | Date Reported : | 15-SEP-2008 |
| Condition of Sample: | Satisfactory | Field Prep: | None |
| Number & Type of Containers: 2-Vial | | | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-------------------|----|
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0909 22:24 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | |
| Chloroform | ND | ug/l | 0.75 | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | |
| Tetrachloroethene | ND | ug/l | 0.50 | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | |
| Bromoform | ND | ug/l | 2.0 | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Benzene | ND | ug/l | 0.50 | | | |
| Toluene | ND | ug/l | 0.75 | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | |
| Chloromethane | ND | ug/l | 2.5 | | | |
| Bromomethane | ND | ug/l | 1.0 | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | |
| Chloroethane | ND | ug/l | 1.0 | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | |
| Trichloroethene | ND | ug/l | 0.50 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| Methyl tert butyl ether | ND | ug/l | 1.0 | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | |
| o-Xylene | ND | ug/l | 1.0 | | | |
| cis-1,2-Dichloroethene | ND | ug/l | 0.50 | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-09
PWG.GW.2008.02

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0909 22:24 PD | | |
| Styrene | ND | ug/l | 1.0 | | | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | | | |
| Acetone | ND | ug/l | 5.0 | | | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | | | |
| 2-Butanone | ND | ug/l | 5.0 | | | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | | | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | | | |
| Naphthalene | ND | ug/l | 2.5 | | | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 1,2-Dichloroethane-d4 | 104 | % | 70-130 | | | | | |
| Toluene-d8 | 99.0 | % | 70-130 | | | | | |
| 4-Bromofluorobenzene | 105 | % | 70-130 | | | | | |
| Dibromofluoromethane | 99.0 | % | 70-130 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0813196-10 | Date Collected: 03-SEP-2008 14:30 |
| PWG.SB.2008.04@5-10' | Date Received : 05-SEP-2008 |
| Sample Matrix: SOIL | Date Reported : 15-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 1-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-------------------|----|
| Solids, Total | 98 | % | 0.10 | 30 2540G | 0911 15:15 | SD |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0906 18:50 | PD |
| Methylene chloride | ND | ug/kg | 26. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 3.8 | | | |
| Chloroform | ND | ug/kg | 3.8 | | | |
| Carbon tetrachloride | ND | ug/kg | 2.6 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 8.9 | | | |
| Dibromochloromethane | ND | ug/kg | 2.6 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 3.8 | | | |
| Tetrachloroethene | ND | ug/kg | 2.6 | | | |
| Chlorobenzene | ND | ug/kg | 2.6 | | | |
| Trichlorofluoromethane | ND | ug/kg | 13. | | | |
| 1,2-Dichloroethane | ND | ug/kg | 2.6 | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 2.6 | | | |
| Bromodichloromethane | ND | ug/kg | 2.6 | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 2.6 | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 2.6 | | | |
| 1,1-Dichloropropene | ND | ug/kg | 13. | | | |
| Bromoform | ND | ug/kg | 10. | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 2.6 | | | |
| Benzene | ND | ug/kg | 2.6 | | | |
| Toluene | ND | ug/kg | 3.8 | | | |
| Ethylbenzene | ND | ug/kg | 2.6 | | | |
| Chloromethane | ND | ug/kg | 13. | | | |
| Bromomethane | ND | ug/kg | 5.1 | | | |
| Vinyl chloride | ND | ug/kg | 5.1 | | | |
| Chloroethane | ND | ug/kg | 5.1 | | | |
| 1,1-Dichloroethene | ND | ug/kg | 2.6 | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 3.8 | | | |
| Trichloroethene | ND | ug/kg | 2.6 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 13. | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 13. | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 13. | | | |
| Methyl tert butyl ether | ND | ug/kg | 5.1 | | | |
| p/m-Xylene | ND | ug/kg | 5.1 | | | |
| o-Xylene | ND | ug/kg | 5.1 | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 2.6 | | | |
| Dibromomethane | ND | ug/kg | 26. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-10
PWG.SB.2008.04@5-10'

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|------------|-------|---------------|----|
| | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0906 18:50 PD | |
| Styrene | ND | ug/kg | 5.1 | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 26. | | | | |
| Acetone | ND | ug/kg | 26. | | | | |
| Carbon disulfide | ND | ug/kg | 26. | | | | |
| 2-Butanone | ND | ug/kg | 26. | | | | |
| Vinyl acetate | ND | ug/kg | 26. | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 26. | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 26. | | | | |
| 2-Hexanone | ND | ug/kg | 26. | | | | |
| Bromochloromethane | ND | ug/kg | 13. | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 13. | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 10. | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 13. | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 2.6 | | | | |
| Bromobenzene | ND | ug/kg | 13. | | | | |
| n-Butylbenzene | ND | ug/kg | 2.6 | | | | |
| sec-Butylbenzene | ND | ug/kg | 2.6 | | | | |
| tert-Butylbenzene | ND | ug/kg | 13. | | | | |
| o-Chlorotoluene | ND | ug/kg | 13. | | | | |
| p-Chlorotoluene | ND | ug/kg | 13. | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 13. | | | | |
| Hexachlorobutadiene | ND | ug/kg | 13. | | | | |
| Isopropylbenzene | ND | ug/kg | 2.6 | | | | |
| p-Isopropyltoluene | ND | ug/kg | 2.6 | | | | |
| Naphthalene | ND | ug/kg | 13. | | | | |
| Acrylonitrile | ND | ug/kg | 26. | | | | |
| n-Propylbenzene | ND | ug/kg | 2.6 | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 13. | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 13. | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 13. | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 13. | | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 10. | | | | |
| 4-Ethyltoluene | ND | ug/kg | 10. | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 10. | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | |
| 1,2-Dichloroethane-d4 | 112 | % | 70-130 | | | | |
| Toluene-d8 | 108 | % | 70-130 | | | | |
| 4-Bromofluorobenzene | 122 | % | 70-130 | | | | |
| Dibromofluoromethane | 105 | % | 70-130 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|---------------------------------------|-----------------------------------|
| Laboratory Sample Number: L0813196-11 | Date Collected: 03-SEP-2008 14:40 |
| PWG.GW.2008.04 | Date Received : 05-SEP-2008 |
| Sample Matrix: WATER | Date Reported : 15-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 2-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-------------------|----|
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0909 23:01 | PD |
| Methylene chloride | ND | ug/l | 5.0 | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | |
| Chloroform | ND | ug/l | 0.75 | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | |
| Tetrachloroethene | ND | ug/l | 0.50 | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | |
| Bromoform | ND | ug/l | 2.0 | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Benzene | ND | ug/l | 0.50 | | | |
| Toluene | ND | ug/l | 0.75 | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | |
| Chloromethane | ND | ug/l | 2.5 | | | |
| Bromomethane | ND | ug/l | 1.0 | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | |
| Chloroethane | ND | ug/l | 1.0 | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | |
| Trichloroethene | ND | ug/l | 0.50 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| Methyl tert butyl ether | ND | ug/l | 1.0 | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | |
| o-Xylene | ND | ug/l | 1.0 | | | |
| cis-1,2-Dichloroethene | ND | ug/l | 0.50 | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-11
PWG.GW.2008.04

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0909 23:01 PD | | |
| Styrene | ND | ug/l | 1.0 | | | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | | | |
| Acetone | ND | ug/l | 5.0 | | | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | | | |
| 2-Butanone | ND | ug/l | 5.0 | | | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | | | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | | | |
| Naphthalene | ND | ug/l | 2.5 | | | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 1,2-Dichloroethane-d4 | 102 | % | 70-130 | | | | | |
| Toluene-d8 | 100 | % | 70-130 | | | | | |
| 4-Bromofluorobenzene | 103 | % | 70-130 | | | | | |
| Dibromofluoromethane | 98.0 | % | 70-130 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | | | |
|-------------------------------------|----------------|-----------------|-------------------|
| Laboratory Sample Number: | L0813196-12 | Date Collected: | 03-SEP-2008 14:40 |
| | PWG.GW.2008.24 | Date Received : | 05-SEP-2008 |
| Sample Matrix: | WATER | Date Reported : | 15-SEP-2008 |
| Condition of Sample: | Satisfactory | Field Prep: | None |
| Number & Type of Containers: 2-Vial | | | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-------------------|----|
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0909 23:38 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | |
| Chloroform | ND | ug/l | 0.75 | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | |
| Tetrachloroethene | ND | ug/l | 0.50 | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | |
| Bromoform | ND | ug/l | 2.0 | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Benzene | ND | ug/l | 0.50 | | | |
| Toluene | ND | ug/l | 0.75 | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | |
| Chloromethane | ND | ug/l | 2.5 | | | |
| Bromomethane | ND | ug/l | 1.0 | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | |
| Chloroethane | ND | ug/l | 1.0 | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | |
| Trichloroethene | ND | ug/l | 0.50 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| Methyl tert butyl ether | ND | ug/l | 1.0 | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | |
| o-Xylene | ND | ug/l | 1.0 | | | |
| cis-1,2-Dichloroethene | ND | ug/l | 0.50 | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-12
PWG.GW.2008.24

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0909 23:38 PD | | |
| Styrene | ND | ug/l | 1.0 | | | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | | | |
| Acetone | ND | ug/l | 5.0 | | | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | | | |
| 2-Butanone | ND | ug/l | 5.0 | | | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | | | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | | | |
| Naphthalene | ND | ug/l | 2.5 | | | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 1,2-Dichloroethane-d4 | 103 | % | 70-130 | | | | | |
| Toluene-d8 | 98.0 | % | 70-130 | | | | | |
| 4-Bromofluorobenzene | 102 | % | 70-130 | | | | | |
| Dibromofluoromethane | 101 | % | 70-130 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0813196-13 Date Collected: 03-SEP-2008 15:05
PWG.SB.2008.06@5-10' (MS/MSD) Date Received : 05-SEP-2008
Sample Matrix: SOIL Date Reported : 15-SEP-2008
Condition of Sample: Satisfactory Field Prep: None
Number & Type of Containers: 3-Vial

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-------------------|----|
| Solids, Total | 81 | % | 0.10 | 30 2540G | 0911 15:15 | SD |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0906 19:27 | PD |
| Methylene chloride | ND | ug/kg | 31. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 4.6 | | | |
| Chloroform | ND | ug/kg | 4.6 | | | |
| Carbon tetrachloride | ND | ug/kg | 3.1 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 11. | | | |
| Dibromochloromethane | ND | ug/kg | 3.1 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 4.6 | | | |
| Tetrachloroethene | ND | ug/kg | 3.1 | | | |
| Chlorobenzene | ND | ug/kg | 3.1 | | | |
| Trichlorofluoromethane | ND | ug/kg | 15. | | | |
| 1,2-Dichloroethane | ND | ug/kg | 3.1 | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 3.1 | | | |
| Bromodichloromethane | ND | ug/kg | 3.1 | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 3.1 | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 3.1 | | | |
| 1,1-Dichloropropene | ND | ug/kg | 15. | | | |
| Bromoform | ND | ug/kg | 12. | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 3.1 | | | |
| Benzene | ND | ug/kg | 3.1 | | | |
| Toluene | ND | ug/kg | 4.6 | | | |
| Ethylbenzene | ND | ug/kg | 3.1 | | | |
| Chloromethane | ND | ug/kg | 15. | | | |
| Bromomethane | ND | ug/kg | 6.2 | | | |
| Vinyl chloride | ND | ug/kg | 6.2 | | | |
| Chloroethane | ND | ug/kg | 6.2 | | | |
| 1,1-Dichloroethene | ND | ug/kg | 3.1 | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 4.6 | | | |
| Trichloroethene | ND | ug/kg | 3.1 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 15. | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 15. | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 15. | | | |
| Methyl tert butyl ether | ND | ug/kg | 6.2 | | | |
| p/m-Xylene | ND | ug/kg | 6.2 | | | |
| o-Xylene | ND | ug/kg | 6.2 | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 3.1 | | | |
| Dibromomethane | ND | ug/kg | 31. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-13
PWG.SB.2008.06@5-10' (MS/MSD)

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|------------|-------|---------------|----|
| | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0906 19:27 PD | |
| Styrene | ND | ug/kg | 6.2 | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 31. | | | | |
| Acetone | ND | ug/kg | 31. | | | | |
| Carbon disulfide | ND | ug/kg | 31. | | | | |
| 2-Butanone | ND | ug/kg | 31. | | | | |
| Vinyl acetate | ND | ug/kg | 31. | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 31. | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 31. | | | | |
| 2-Hexanone | ND | ug/kg | 31. | | | | |
| Bromochloromethane | ND | ug/kg | 15. | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 15. | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 12. | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 15. | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 3.1 | | | | |
| Bromobenzene | ND | ug/kg | 15. | | | | |
| n-Butylbenzene | ND | ug/kg | 3.1 | | | | |
| sec-Butylbenzene | ND | ug/kg | 3.1 | | | | |
| tert-Butylbenzene | ND | ug/kg | 15. | | | | |
| o-Chlorotoluene | ND | ug/kg | 15. | | | | |
| p-Chlorotoluene | ND | ug/kg | 15. | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 15. | | | | |
| Hexachlorobutadiene | ND | ug/kg | 15. | | | | |
| Isopropylbenzene | ND | ug/kg | 3.1 | | | | |
| p-Isopropyltoluene | ND | ug/kg | 3.1 | | | | |
| Naphthalene | ND | ug/kg | 15. | | | | |
| Acrylonitrile | ND | ug/kg | 31. | | | | |
| n-Propylbenzene | ND | ug/kg | 3.1 | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 15. | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 15. | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 15. | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 15. | | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 12. | | | | |
| 4-Ethyltoluene | ND | ug/kg | 12. | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 12. | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | |
| 1,2-Dichloroethane-d4 | 112 | % | 70-130 | | | | |
| Toluene-d8 | 111 | % | 70-130 | | | | |
| 4-Bromofluorobenzene | 125 | % | 70-130 | | | | |
| Dibromofluoromethane | 104 | % | 70-130 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | | | |
|-------------------------------------|----------------|-----------------|-------------------|
| Laboratory Sample Number: | L0813196-14 | Date Collected: | 03-SEP-2008 15:15 |
| | PWG.GW.2008.06 | Date Received : | 05-SEP-2008 |
| Sample Matrix: | WATER | Date Reported : | 15-SEP-2008 |
| Condition of Sample: | Satisfactory | Field Prep: | None |
| Number & Type of Containers: 2-Vial | | | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-------------------|----|
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0910 00:14 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | |
| Chloroform | ND | ug/l | 0.75 | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | |
| Tetrachloroethene | ND | ug/l | 0.50 | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | |
| Bromoform | ND | ug/l | 2.0 | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Benzene | ND | ug/l | 0.50 | | | |
| Toluene | ND | ug/l | 0.75 | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | |
| Chloromethane | ND | ug/l | 2.5 | | | |
| Bromomethane | ND | ug/l | 1.0 | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | |
| Chloroethane | ND | ug/l | 1.0 | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | |
| Trichloroethene | ND | ug/l | 0.50 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| Methyl tert butyl ether | ND | ug/l | 1.0 | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | |
| o-Xylene | ND | ug/l | 1.0 | | | |
| cis-1,2-Dichloroethene | ND | ug/l | 0.50 | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-14
PWG.GW.2008.06

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0910 00:14 PD | | |
| Styrene | ND | ug/l | 1.0 | | | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | | | |
| Acetone | ND | ug/l | 5.0 | | | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | | | |
| 2-Butanone | ND | ug/l | 5.0 | | | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | | | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | | | |
| Naphthalene | ND | ug/l | 2.5 | | | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 1,2-Dichloroethane-d4 | 102 | % | 70-130 | | | | | |
| Toluene-d8 | 99.0 | % | 70-130 | | | | | |
| 4-Bromofluorobenzene | 102 | % | 70-130 | | | | | |
| Dibromofluoromethane | 100 | % | 70-130 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|---------------------------------------|-----------------------------------|
| Laboratory Sample Number: L0813196-15 | Date Collected: 03-SEP-2008 15:45 |
| FB090308 (GW) | Date Received : 05-SEP-2008 |
| Sample Matrix: WATER | Date Reported : 15-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 2-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-------------------|----|
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0910 00:51 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | |
| Chloroform | ND | ug/l | 0.75 | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | |
| Tetrachloroethene | ND | ug/l | 0.50 | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | |
| Bromoform | ND | ug/l | 2.0 | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Benzene | ND | ug/l | 0.50 | | | |
| Toluene | ND | ug/l | 0.75 | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | |
| Chloromethane | ND | ug/l | 2.5 | | | |
| Bromomethane | ND | ug/l | 1.0 | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | |
| Chloroethane | ND | ug/l | 1.0 | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | |
| Trichloroethene | ND | ug/l | 0.50 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| Methyl tert butyl ether | ND | ug/l | 1.0 | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | |
| o-Xylene | ND | ug/l | 1.0 | | | |
| cis-1,2-Dichloroethene | ND | ug/l | 0.50 | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-15
FB090308 (GW)

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0910 00:51 PD | | |
| Styrene | ND | ug/l | 1.0 | | | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | | | |
| Acetone | ND | ug/l | 5.0 | | | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | | | |
| 2-Butanone | ND | ug/l | 5.0 | | | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | | | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | | | |
| Naphthalene | ND | ug/l | 2.5 | | | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 1,2-Dichloroethane-d4 | 104 | % | 70-130 | | | | | |
| Toluene-d8 | 100 | % | 70-130 | | | | | |
| 4-Bromofluorobenzene | 102 | % | 70-130 | | | | | |
| Dibromofluoromethane | 99.0 | % | 70-130 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|---------------------------------------|-----------------------------------|
| Laboratory Sample Number: L0813196-16 | Date Collected: 19-AUG-2008 17:15 |
| TB090308 | Date Received : 05-SEP-2008 |
| Sample Matrix: WATER | Date Reported : 15-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 2-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-------------------|----|
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0910 01:27 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | |
| Chloroform | ND | ug/l | 0.75 | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | |
| Tetrachloroethene | ND | ug/l | 0.50 | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | |
| Bromoform | ND | ug/l | 2.0 | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Benzene | ND | ug/l | 0.50 | | | |
| Toluene | ND | ug/l | 0.75 | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | |
| Chloromethane | ND | ug/l | 2.5 | | | |
| Bromomethane | ND | ug/l | 1.0 | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | |
| Chloroethane | ND | ug/l | 1.0 | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | |
| Trichloroethene | ND | ug/l | 0.50 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| Methyl tert butyl ether | ND | ug/l | 1.0 | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | |
| o-Xylene | ND | ug/l | 1.0 | | | |
| cis-1,2-Dichloroethene | ND | ug/l | 0.50 | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-16
TB090308

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0910 01:27 PD | | |
| Styrene | ND | ug/l | 1.0 | | | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | | | |
| Acetone | ND | ug/l | 5.0 | | | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | | | |
| 2-Butanone | ND | ug/l | 5.0 | | | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | | | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | | | |
| Naphthalene | ND | ug/l | 2.5 | | | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 1,2-Dichloroethane-d4 | 104 | % | 70-130 | | | | | |
| Toluene-d8 | 99.0 | % | 70-130 | | | | | |
| 4-Bromofluorobenzene | 102 | % | 70-130 | | | | | |
| Dibromofluoromethane | 98.0 | % | 70-130 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|---------------------------------------|-----------------------------------|
| Laboratory Sample Number: L0813196-17 | Date Collected: 04-SEP-2008 09:45 |
| FB090408(GW) | Date Received : 05-SEP-2008 |
| Sample Matrix: WATER | Date Reported : 15-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 2-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-------------------|----|
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0910 02:03 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | |
| Chloroform | ND | ug/l | 0.75 | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | |
| Tetrachloroethene | ND | ug/l | 0.50 | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | |
| Bromoform | ND | ug/l | 2.0 | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Benzene | ND | ug/l | 0.50 | | | |
| Toluene | ND | ug/l | 0.75 | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | |
| Chloromethane | ND | ug/l | 2.5 | | | |
| Bromomethane | ND | ug/l | 1.0 | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | |
| Chloroethane | ND | ug/l | 1.0 | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | |
| Trichloroethene | ND | ug/l | 0.50 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| Methyl tert butyl ether | ND | ug/l | 1.0 | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | |
| o-Xylene | ND | ug/l | 1.0 | | | |
| cis-1,2-Dichloroethene | ND | ug/l | 0.50 | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-17
FB090408 (GW)

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0910 02:03 PD | | |
| Styrene | ND | ug/l | 1.0 | | | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | | | |
| Acetone | ND | ug/l | 5.0 | | | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | | | |
| 2-Butanone | ND | ug/l | 5.0 | | | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | | | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | | | |
| Naphthalene | ND | ug/l | 2.5 | | | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 1,2-Dichloroethane-d4 | 104 | % | 70-130 | | | | | |
| Toluene-d8 | 100 | % | 70-130 | | | | | |
| 4-Bromofluorobenzene | 106 | % | 70-130 | | | | | |
| Dibromofluoromethane | 100 | % | 70-130 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0813196-18 | Date Collected: 04-SEP-2008 09:30 |
| PWG.SB.2008.07@10-15' | Date Received : 05-SEP-2008 |
| Sample Matrix: SOIL | Date Reported : 15-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 1-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-------------------|----|
| Solids, Total | 84 | % | 0.10 | 30 2540G | 0911 15:15 | SD |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0906 20:03 | PD |
| Methylene chloride | ND | ug/kg | 30. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 4.5 | | | |
| Chloroform | ND | ug/kg | 4.5 | | | |
| Carbon tetrachloride | ND | ug/kg | 3.0 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 10. | | | |
| Dibromochloromethane | ND | ug/kg | 3.0 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 4.5 | | | |
| Tetrachloroethene | ND | ug/kg | 3.0 | | | |
| Chlorobenzene | ND | ug/kg | 3.0 | | | |
| Trichlorofluoromethane | ND | ug/kg | 15. | | | |
| 1,2-Dichloroethane | ND | ug/kg | 3.0 | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 3.0 | | | |
| Bromodichloromethane | ND | ug/kg | 3.0 | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 3.0 | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 3.0 | | | |
| 1,1-Dichloropropene | ND | ug/kg | 15. | | | |
| Bromoform | ND | ug/kg | 12. | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 3.0 | | | |
| Benzene | ND | ug/kg | 3.0 | | | |
| Toluene | ND | ug/kg | 4.5 | | | |
| Ethylbenzene | ND | ug/kg | 3.0 | | | |
| Chloromethane | ND | ug/kg | 15. | | | |
| Bromomethane | ND | ug/kg | 6.0 | | | |
| Vinyl chloride | ND | ug/kg | 6.0 | | | |
| Chloroethane | ND | ug/kg | 6.0 | | | |
| 1,1-Dichloroethene | ND | ug/kg | 3.0 | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 4.5 | | | |
| Trichloroethene | ND | ug/kg | 3.0 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 15. | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 15. | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 15. | | | |
| Methyl tert butyl ether | ND | ug/kg | 6.0 | | | |
| p/m-Xylene | ND | ug/kg | 6.0 | | | |
| o-Xylene | ND | ug/kg | 6.0 | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 3.0 | | | |
| Dibromomethane | ND | ug/kg | 30. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-18
PWG.SB.2008.07@10-15'

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|------------|-------|---------------|----|
| | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0906 20:03 PD | |
| Styrene | ND | ug/kg | 6.0 | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 30. | | | | |
| Acetone | ND | ug/kg | 30. | | | | |
| Carbon disulfide | ND | ug/kg | 30. | | | | |
| 2-Butanone | ND | ug/kg | 30. | | | | |
| Vinyl acetate | ND | ug/kg | 30. | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 30. | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 30. | | | | |
| 2-Hexanone | ND | ug/kg | 30. | | | | |
| Bromochloromethane | ND | ug/kg | 15. | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 15. | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 12. | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 15. | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 3.0 | | | | |
| Bromobenzene | ND | ug/kg | 15. | | | | |
| n-Butylbenzene | ND | ug/kg | 3.0 | | | | |
| sec-Butylbenzene | ND | ug/kg | 3.0 | | | | |
| tert-Butylbenzene | ND | ug/kg | 15. | | | | |
| o-Chlorotoluene | ND | ug/kg | 15. | | | | |
| p-Chlorotoluene | ND | ug/kg | 15. | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 15. | | | | |
| Hexachlorobutadiene | ND | ug/kg | 15. | | | | |
| Isopropylbenzene | ND | ug/kg | 3.0 | | | | |
| p-Isopropyltoluene | ND | ug/kg | 3.0 | | | | |
| Naphthalene | ND | ug/kg | 15. | | | | |
| Acrylonitrile | ND | ug/kg | 30. | | | | |
| n-Propylbenzene | ND | ug/kg | 3.0 | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 15. | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 15. | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 15. | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 15. | | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 12. | | | | |
| 4-Ethyltoluene | ND | ug/kg | 12. | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 12. | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | |
| 1,2-Dichloroethane-d4 | 105 | % | 70-130 | | | | |
| Toluene-d8 | 106 | % | 70-130 | | | | |
| 4-Bromofluorobenzene | 115 | % | 70-130 | | | | |
| Dibromofluoromethane | 100 | % | 70-130 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | | | |
|-------------------------------------|----------------|-----------------|-------------------|
| Laboratory Sample Number: | L0813196-19 | Date Collected: | 04-SEP-2008 09:55 |
| | PWG.GW.2008.07 | Date Received : | 05-SEP-2008 |
| Sample Matrix: | WATER | Date Reported : | 15-SEP-2008 |
| Condition of Sample: | Satisfactory | Field Prep: | None |
| Number & Type of Containers: 2-Vial | | | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-------------------|----|
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0910 02:39 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | |
| Chloroform | ND | ug/l | 0.75 | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | |
| Tetrachloroethene | ND | ug/l | 0.50 | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | |
| Bromoform | ND | ug/l | 2.0 | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Benzene | ND | ug/l | 0.50 | | | |
| Toluene | ND | ug/l | 0.75 | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | |
| Chloromethane | ND | ug/l | 2.5 | | | |
| Bromomethane | ND | ug/l | 1.0 | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | |
| Chloroethane | ND | ug/l | 1.0 | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | |
| Trichloroethene | ND | ug/l | 0.50 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| Methyl tert butyl ether | ND | ug/l | 1.0 | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | |
| o-Xylene | ND | ug/l | 1.0 | | | |
| cis-1,2-Dichloroethene | ND | ug/l | 0.50 | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-19
PWG.GW.2008.07

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0910 02:39 PD | | |
| Styrene | ND | ug/l | 1.0 | | | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | | | |
| Acetone | ND | ug/l | 5.0 | | | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | | | |
| 2-Butanone | ND | ug/l | 5.0 | | | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | | | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | | | |
| Naphthalene | ND | ug/l | 2.5 | | | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 1,2-Dichloroethane-d4 | 103 | % | 70-130 | | | | | |
| Toluene-d8 | 101 | % | 70-130 | | | | | |
| 4-Bromofluorobenzene | 105 | % | 70-130 | | | | | |
| Dibromofluoromethane | 100 | % | 70-130 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0813196-20 | Date Collected: 04-SEP-2008 10:35 |
| PWG.SB.2008.01@5-10' | Date Received : 05-SEP-2008 |
| Sample Matrix: SOIL | Date Reported : 15-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 3-Amber,1-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-----------------------|----|
| Solids, Total | 81 | % | 0.10 | 30 2540G | 0909 18:20 | NM |
| Total Metals | | | | | | |
| Aluminum, Total | 4700 | mg/kg | 5.8 | 1 6010B | 0908 14:00 0910 19:48 | TD |
| Antimony, Total | ND | mg/kg | 2.9 | 1 6010B | 0908 14:00 0910 19:48 | TD |
| Arsenic, Total | 2.2 | mg/kg | 0.58 | 1 6010B | 0908 14:00 0910 19:48 | TD |
| Barium, Total | 40 | mg/kg | 0.58 | 1 6010B | 0908 14:00 0910 19:48 | TD |
| Beryllium, Total | ND | mg/kg | 0.29 | 1 6010B | 0908 14:00 0910 19:48 | TD |
| Cadmium, Total | ND | mg/kg | 0.58 | 1 6010B | 0908 14:00 0910 19:48 | TD |
| Calcium, Total | 1000 | mg/kg | 5.8 | 1 6010B | 0908 14:00 0910 19:48 | TD |
| Chromium, Total | 6.4 | mg/kg | 0.58 | 1 6010B | 0908 14:00 0910 19:48 | TD |
| Cobalt, Total | 2.8 | mg/kg | 1.2 | 1 6010B | 0908 14:00 0910 19:48 | TD |
| Copper, Total | 9.4 | mg/kg | 0.58 | 1 6010B | 0908 14:00 0910 19:48 | TD |
| Iron, Total | 7500 | mg/kg | 2.9 | 1 6010B | 0908 14:00 0910 19:48 | TD |
| Lead, Total | 87 | mg/kg | 2.9 | 1 6010B | 0908 14:00 0910 19:48 | TD |
| Magnesium, Total | 690 | mg/kg | 5.8 | 1 6010B | 0908 14:00 0910 19:48 | TD |
| Manganese, Total | 100 | mg/kg | 0.58 | 1 6010B | 0908 14:00 0910 19:48 | TD |
| Mercury, Total | 0.10 | mg/kg | 0.09 | 1 7471A | 0910 21:30 0911 17:16 | HG |
| Nickel, Total | 5.2 | mg/kg | 1.5 | 1 6010B | 0908 14:00 0910 19:48 | TD |
| Potassium, Total | 320 | mg/kg | 150 | 1 6010B | 0908 14:00 0910 19:48 | TD |
| Selenium, Total | ND | mg/kg | 1.2 | 1 6010B | 0908 14:00 0910 19:48 | TD |
| Silver, Total | ND | mg/kg | 0.58 | 1 6010B | 0908 14:00 0910 19:48 | TD |
| Sodium, Total | ND | mg/kg | 120 | 1 6010B | 0908 14:00 0910 19:48 | TD |
| Thallium, Total | ND | mg/kg | 1.2 | 1 6010B | 0908 14:00 0910 19:48 | TD |
| Vanadium, Total | 9.3 | mg/kg | 0.58 | 1 6010B | 0908 14:00 0910 19:48 | TD |
| Zinc, Total | 58 | mg/kg | 2.9 | 1 6010B | 0908 14:00 0910 19:48 | TD |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0906 20:40 | PD |
| Methylene chloride | ND | ug/kg | 31. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 4.6 | | | |
| Chloroform | ND | ug/kg | 4.6 | | | |
| Carbon tetrachloride | ND | ug/kg | 3.1 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 11. | | | |
| Dibromochloromethane | ND | ug/kg | 3.1 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 4.6 | | | |
| Tetrachloroethene | ND | ug/kg | 3.1 | | | |
| Chlorobenzene | ND | ug/kg | 3.1 | | | |
| Trichlorofluoromethane | ND | ug/kg | 15. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-20
PWG.SB.2008.01@5-10'

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---------------------------------------|--------|-------|-----|------------|-------|---------------|----|
| | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0906 20:40 PD | |
| 1,2-Dichloroethane | ND | ug/kg | 3.1 | | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 3.1 | | | | |
| Bromodichloromethane | ND | ug/kg | 3.1 | | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 3.1 | | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 3.1 | | | | |
| 1,1-Dichloropropene | ND | ug/kg | 15. | | | | |
| Bromoform | ND | ug/kg | 12. | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 3.1 | | | | |
| Benzene | ND | ug/kg | 3.1 | | | | |
| Toluene | ND | ug/kg | 4.6 | | | | |
| Ethylbenzene | ND | ug/kg | 3.1 | | | | |
| Chloromethane | ND | ug/kg | 15. | | | | |
| Bromomethane | ND | ug/kg | 6.2 | | | | |
| Vinyl chloride | ND | ug/kg | 6.2 | | | | |
| Chloroethane | ND | ug/kg | 6.2 | | | | |
| 1,1-Dichloroethene | ND | ug/kg | 3.1 | | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 4.6 | | | | |
| Trichloroethene | ND | ug/kg | 3.1 | | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 15. | | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 15. | | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 15. | | | | |
| Methyl tert butyl ether | ND | ug/kg | 6.2 | | | | |
| p/m-Xylene | ND | ug/kg | 6.2 | | | | |
| o-Xylene | ND | ug/kg | 6.2 | | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 3.1 | | | | |
| Dibromomethane | ND | ug/kg | 31. | | | | |
| Styrene | ND | ug/kg | 6.2 | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 31. | | | | |
| Acetone | ND | ug/kg | 31. | | | | |
| Carbon disulfide | ND | ug/kg | 31. | | | | |
| 2-Butanone | ND | ug/kg | 31. | | | | |
| Vinyl acetate | ND | ug/kg | 31. | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 31. | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 31. | | | | |
| 2-Hexanone | ND | ug/kg | 31. | | | | |
| Bromochloromethane | ND | ug/kg | 15. | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 15. | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 12. | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 15. | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 3.1 | | | | |
| Bromobenzene | ND | ug/kg | 15. | | | | |
| n-Butylbenzene | ND | ug/kg | 3.1 | | | | |
| sec-Butylbenzene | ND | ug/kg | 3.1 | | | | |
| tert-Butylbenzene | ND | ug/kg | 15. | | | | |
| o-Chlorotoluene | ND | ug/kg | 15. | | | | |
| p-Chlorotoluene | ND | ug/kg | 15. | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 15. | | | | |
| Hexachlorobutadiene | ND | ug/kg | 15. | | | | |
| Isopropylbenzene | ND | ug/kg | 3.1 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-20
PWG.SB.2008.01@5-10'

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|--------------------------|----|
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0906 20:40 PD | |
| p-Isopropyltoluene | ND | ug/kg | 3.1 | | | |
| Naphthalene | ND | ug/kg | 15. | | | |
| Acrylonitrile | ND | ug/kg | 31. | | | |
| n-Propylbenzene | ND | ug/kg | 3.1 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 15. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 15. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 15. | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 15. | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 12. | | | |
| 4-Ethyltoluene | ND | ug/kg | 12. | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 12. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 108 | % | 70-130 | | | |
| Toluene-d8 | 107 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 121 | % | 70-130 | | | |
| Dibromofluoromethane | 101 | % | 70-130 | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 0906 12:05 0910 16:40 PS | |
| Acenaphthene | ND | ug/kg | 410 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 410 | | | |
| Hexachlorobenzene | ND | ug/kg | 410 | | | |
| Bis(2-chloroethyl)ether | ND | ug/kg | 410 | | | |
| 2-Chloronaphthalene | ND | ug/kg | 490 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 410 | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 410 | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 410 | | | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 820 | | | |
| 2,4-Dinitrotoluene | ND | ug/kg | 410 | | | |
| 2,6-Dinitrotoluene | ND | ug/kg | 410 | | | |
| Fluoranthene | ND | ug/kg | 410 | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/kg | 410 | | | |
| 4-Bromophenyl phenyl ether | ND | ug/kg | 410 | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/kg | 410 | | | |
| Bis(2-chloroethoxy)methane | ND | ug/kg | 410 | | | |
| Hexachlorobutadiene | ND | ug/kg | 820 | | | |
| Hexachlorocyclopentadiene | ND | ug/kg | 820 | | | |
| Hexachloroethane | ND | ug/kg | 410 | | | |
| Isophorone | ND | ug/kg | 410 | | | |
| Naphthalene | ND | ug/kg | 410 | | | |
| Nitrobenzene | ND | ug/kg | 410 | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/kg | 1200 | | | |
| n-Nitrosodi-n-propylamine | ND | ug/kg | 410 | | | |
| Bis(2-Ethylhexyl)phthalate | ND | ug/kg | 820 | | | |
| Butyl benzyl phthalate | ND | ug/kg | 410 | | | |
| Di-n-butylphthalate | ND | ug/kg | 410 | | | |
| Di-n-octylphthalate | ND | ug/kg | 410 | | | |
| Diethyl phthalate | ND | ug/kg | 410 | | | |
| Dimethyl phthalate | ND | ug/kg | 410 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-20
PWG.SB.2008.01@5-10'

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 8270C | 0906 12:05 0910 16:40 PS | |
| Benzo(a)anthracene | ND | ug/kg | 410 | | | |
| Benzo(a)pyrene | ND | ug/kg | 410 | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 410 | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 410 | | | |
| Chrysene | ND | ug/kg | 410 | | | |
| Acenaphthylene | ND | ug/kg | 410 | | | |
| Anthracene | ND | ug/kg | 410 | | | |
| Benzo(ghi)perylene | ND | ug/kg | 410 | | | |
| Fluorene | ND | ug/kg | 410 | | | |
| Phenanthrene | ND | ug/kg | 410 | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 410 | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 410 | | | |
| Pyrene | ND | ug/kg | 410 | | | |
| Biphenyl | ND | ug/kg | 410 | | | |
| 4-Chloroaniline | ND | ug/kg | 410 | | | |
| 2-Nitroaniline | ND | ug/kg | 410 | | | |
| 3-Nitroaniline | ND | ug/kg | 410 | | | |
| 4-Nitroaniline | ND | ug/kg | 580 | | | |
| Dibenzofuran | ND | ug/kg | 410 | | | |
| 2-Methylnaphthalene | ND | ug/kg | 410 | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/kg | 1600 | | | |
| Acetophenone | ND | ug/kg | 1600 | | | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 410 | | | |
| p-Chloro-M-Cresol | ND | ug/kg | 410 | | | |
| 2-Chlorophenol | ND | ug/kg | 490 | | | |
| 2,4-Dichlorophenol | ND | ug/kg | 820 | | | |
| 2,4-Dimethylphenol | ND | ug/kg | 410 | | | |
| 2-Nitrophenol | ND | ug/kg | 1600 | | | |
| 4-Nitrophenol | ND | ug/kg | 820 | | | |
| 2,4-Dinitrophenol | ND | ug/kg | 1600 | | | |
| 4,6-Dinitro-o-cresol | ND | ug/kg | 1600 | | | |
| Pentachlorophenol | ND | ug/kg | 1600 | | | |
| Phenol | ND | ug/kg | 580 | | | |
| 2-Methylphenol | ND | ug/kg | 490 | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/kg | 490 | | | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 410 | | | |
| Benzoic Acid | ND | ug/kg | 4100 | | | |
| Benzyl Alcohol | ND | ug/kg | 820 | | | |
| Carbazole | ND | ug/kg | 410 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 57.0 | % | 25-120 | | | |
| Phenol-d6 | 56.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 51.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 51.0 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 68.0 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 57.0 | % | 18-120 | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 8270C | 0906 12:05 0911 04:59 AK | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-20
PWG.SB.2008.01@5-10'

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C-SIM cont'd | | | | 1 8270C | 0906 12:05 0911 04:59 AK | |
| Acenaphthene | ND | ug/kg | 16. | | | |
| 2-Chloronaphthalene | ND | ug/kg | 16. | | | |
| Fluoranthene | 120 | ug/kg | 16 | | | |
| Hexachlorobutadiene | ND | ug/kg | 41. | | | |
| Naphthalene | ND | ug/kg | 16. | | | |
| Benzo(a)anthracene | 48 | ug/kg | 16 | | | |
| Benzo(a)pyrene | 64 | ug/kg | 16 | | | |
| Benzo(b)fluoranthene | 58 | ug/kg | 16 | | | |
| Benzo(k)fluoranthene | 58 | ug/kg | 16 | | | |
| Chrysene | 55 | ug/kg | 16 | | | |
| Acenaphthylene | ND | ug/kg | 16. | | | |
| Anthracene | ND | ug/kg | 16. | | | |
| Benzo(ghi)perylene | 51 | ug/kg | 16 | | | |
| Fluorene | ND | ug/kg | 16. | | | |
| Phenanthrene | 47 | ug/kg | 16 | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 16. | | | |
| Indeno(1,2,3-cd)Pyrene | 52 | ug/kg | 16 | | | |
| Pyrene | 120 | ug/kg | 16 | | | |
| 2-Methylnaphthalene | ND | ug/kg | 16. | | | |
| Pentachlorophenol | ND | ug/kg | 66. | | | |
| Hexachlorobenzene | ND | ug/kg | 66. | | | |
| Hexachloroethane | ND | ug/kg | 66. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 61.0 | % | 25-120 | | | |
| Phenol-d6 | 63.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 58.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 56.0 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 95.0 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 73.0 | % | 18-120 | | | |
| Polychlorinated Biphenyls by EPA 8082 | | | | 1 8082 | 0909 23:00 0910 16:39 SH | |
| Aroclor 1016 | ND | ug/kg | 41.2 | | | |
| Aroclor 1221 | ND | ug/kg | 41.2 | | | |
| Aroclor 1232 | ND | ug/kg | 41.2 | | | |
| Aroclor 1242 | ND | ug/kg | 41.2 | | | |
| Aroclor 1248 | ND | ug/kg | 41.2 | | | |
| Aroclor 1254 | ND | ug/kg | 41.2 | | | |
| Aroclor 1260 | ND | ug/kg | 41.2 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 57.0 | % | 30-150 | | | |
| Decachlorobiphenyl | 61.0 | % | 30-150 | | | |
| Organochlorine Pesticides by EPA 8081A | | | | 1 8081A | 0906 10:30 0910 17:25 SS | |
| Delta-BHC | ND | ug/kg | 4.12 | | | |
| Lindane | ND | ug/kg | 4.12 | | | |
| Alpha-BHC | ND | ug/kg | 4.12 | | | |
| Beta-BHC | ND | ug/kg | 4.12 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-20
PWG.SB.2008.01@5-10'

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---|----------|-------|-------------|------------|------------|------------|----|
| | | | | | PREP | ANAL | |
| | | | | | | | |
| Organochlorine Pesticides by EPA 8081A cont'd | | | | 1 8081A | 0906 10:30 | 0910 17:25 | SS |
| Heptachlor | ND | ug/kg | 4.12 | | | | |
| Aldrin | ND | ug/kg | 4.12 | | | | |
| Heptachlor epoxide | ND | ug/kg | 4.12 | | | | |
| Endrin | ND | ug/kg | 4.12 | | | | |
| Endrin ketone | ND | ug/kg | 4.12 | | | | |
| Dieldrin | ND | ug/kg | 4.12 | | | | |
| 4,4'-DDE | ND | ug/kg | 4.12 | | | | |
| 4,4'-DDD | ND | ug/kg | 4.12 | | | | |
| 4,4'-DDT | 4.73 | ug/kg | 4.12 | | | | |
| Endosulfan I | ND | ug/kg | 4.12 | | | | |
| Endosulfan II | ND | ug/kg | 4.12 | | | | |
| Endosulfan sulfate | ND | ug/kg | 4.12 | | | | |
| Methoxychlor | ND | ug/kg | 16.5 | | | | |
| trans-Chlordane | ND | ug/kg | 4.12 | | | | |
| Chlordane | ND | ug/kg | 41.2 | | | | |
| | | | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 64.0 | % | 30-150 | | | | |
| Decachlorobiphenyl | 84.0 | % | 30-150 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0813196-21 | Date Collected: 04-SEP-2008 10:35 |
| PWG.SB.2008.21@5-10' | Date Received : 05-SEP-2008 |
| Sample Matrix: SOIL | Date Reported : 15-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 3-Amber,1-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-----------------------|----|
| Solids, Total | 96 | % | 0.10 | 30 2540G | 0909 18:20 | NM |
| Total Metals | | | | | | |
| Aluminum, Total | 2900 | mg/kg | 5.0 | 1 6010B | 0908 14:00 0910 19:30 | TD |
| Antimony, Total | ND | mg/kg | 2.5 | 1 6010B | 0908 14:00 0910 19:30 | TD |
| Arsenic, Total | 1.2 | mg/kg | 0.50 | 1 6010B | 0908 14:00 0910 19:30 | TD |
| Barium, Total | 20 | mg/kg | 0.50 | 1 6010B | 0908 14:00 0910 19:30 | TD |
| Beryllium, Total | ND | mg/kg | 0.25 | 1 6010B | 0908 14:00 0910 19:30 | TD |
| Cadmium, Total | ND | mg/kg | 0.50 | 1 6010B | 0908 14:00 0910 19:30 | TD |
| Calcium, Total | 500 | mg/kg | 5.0 | 1 6010B | 0908 14:00 0910 19:30 | TD |
| Chromium, Total | 4.9 | mg/kg | 0.50 | 1 6010B | 0908 14:00 0910 19:30 | TD |
| Cobalt, Total | 2.4 | mg/kg | 1.0 | 1 6010B | 0908 14:00 0910 19:30 | TD |
| Copper, Total | 5.6 | mg/kg | 0.50 | 1 6010B | 0908 14:00 0910 19:30 | TD |
| Iron, Total | 6400 | mg/kg | 2.5 | 1 6010B | 0908 14:00 0910 19:30 | TD |
| Lead, Total | 30 | mg/kg | 2.5 | 1 6010B | 0908 14:00 0910 19:30 | TD |
| Magnesium, Total | 560 | mg/kg | 5.0 | 1 6010B | 0908 14:00 0910 19:30 | TD |
| Manganese, Total | 88 | mg/kg | 0.50 | 1 6010B | 0908 14:00 0910 19:30 | TD |
| Mercury, Total | 0.25 | mg/kg | 0.08 | 1 7471A | 0910 21:30 0911 17:17 | HG |
| Nickel, Total | 4.5 | mg/kg | 1.2 | 1 6010B | 0908 14:00 0910 19:30 | TD |
| Potassium, Total | 260 | mg/kg | 120 | 1 6010B | 0908 14:00 0910 19:30 | TD |
| Selenium, Total | ND | mg/kg | 1.0 | 1 6010B | 0908 14:00 0910 19:30 | TD |
| Silver, Total | ND | mg/kg | 0.50 | 1 6010B | 0908 14:00 0910 19:30 | TD |
| Sodium, Total | ND | mg/kg | 100 | 1 6010B | 0908 14:00 0910 19:30 | TD |
| Thallium, Total | ND | mg/kg | 1.0 | 1 6010B | 0908 14:00 0910 19:30 | TD |
| Vanadium, Total | 6.3 | mg/kg | 0.50 | 1 6010B | 0908 14:00 0910 19:30 | TD |
| Zinc, Total | 24 | mg/kg | 2.5 | 1 6010B | 0908 14:00 0910 19:30 | TD |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0908 12:22 | PD |
| Methylene chloride | ND | ug/kg | 26. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 3.9 | | | |
| Chloroform | ND | ug/kg | 3.9 | | | |
| Carbon tetrachloride | ND | ug/kg | 2.6 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 9.1 | | | |
| Dibromochloromethane | ND | ug/kg | 2.6 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 3.9 | | | |
| Tetrachloroethene | ND | ug/kg | 2.6 | | | |
| Chlorobenzene | ND | ug/kg | 2.6 | | | |
| Trichlorofluoromethane | ND | ug/kg | 13. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-21
PWG.SB.2008.21@5-10'

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---------------------------------------|--------|-------|-----|------------|-------|---------------|----|
| | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0908 12:22 PD | |
| 1,2-Dichloroethane | ND | ug/kg | 2.6 | | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 2.6 | | | | |
| Bromodichloromethane | ND | ug/kg | 2.6 | | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 2.6 | | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 2.6 | | | | |
| 1,1-Dichloropropene | ND | ug/kg | 13. | | | | |
| Bromoform | ND | ug/kg | 10. | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 2.6 | | | | |
| Benzene | ND | ug/kg | 2.6 | | | | |
| Toluene | ND | ug/kg | 3.9 | | | | |
| Ethylbenzene | ND | ug/kg | 2.6 | | | | |
| Chloromethane | ND | ug/kg | 13. | | | | |
| Bromomethane | ND | ug/kg | 5.2 | | | | |
| Vinyl chloride | ND | ug/kg | 5.2 | | | | |
| Chloroethane | ND | ug/kg | 5.2 | | | | |
| 1,1-Dichloroethene | ND | ug/kg | 2.6 | | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 3.9 | | | | |
| Trichloroethene | ND | ug/kg | 2.6 | | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 13. | | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 13. | | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 13. | | | | |
| Methyl tert butyl ether | ND | ug/kg | 5.2 | | | | |
| p/m-Xylene | ND | ug/kg | 5.2 | | | | |
| o-Xylene | ND | ug/kg | 5.2 | | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 2.6 | | | | |
| Dibromomethane | ND | ug/kg | 26. | | | | |
| Styrene | ND | ug/kg | 5.2 | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 26. | | | | |
| Acetone | ND | ug/kg | 26. | | | | |
| Carbon disulfide | ND | ug/kg | 26. | | | | |
| 2-Butanone | ND | ug/kg | 26. | | | | |
| Vinyl acetate | ND | ug/kg | 26. | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 26. | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 26. | | | | |
| 2-Hexanone | ND | ug/kg | 26. | | | | |
| Bromochloromethane | ND | ug/kg | 13. | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 13. | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 10. | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 13. | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 2.6 | | | | |
| Bromobenzene | ND | ug/kg | 13. | | | | |
| n-Butylbenzene | ND | ug/kg | 2.6 | | | | |
| sec-Butylbenzene | ND | ug/kg | 2.6 | | | | |
| tert-Butylbenzene | ND | ug/kg | 13. | | | | |
| o-Chlorotoluene | ND | ug/kg | 13. | | | | |
| p-Chlorotoluene | ND | ug/kg | 13. | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 13. | | | | |
| Hexachlorobutadiene | ND | ug/kg | 13. | | | | |
| Isopropylbenzene | ND | ug/kg | 2.6 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-21
PWG.SB.2008.21@5-10'

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|--------------------------|----|
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0908 12:22 PD | |
| p-Isopropyltoluene | ND | ug/kg | 2.6 | | | |
| Naphthalene | ND | ug/kg | 13. | | | |
| Acrylonitrile | ND | ug/kg | 26. | | | |
| n-Propylbenzene | ND | ug/kg | 2.6 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 13. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 13. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 13. | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 13. | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 10. | | | |
| 4-Ethyltoluene | ND | ug/kg | 10. | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 10. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 99.0 | % | 70-130 | | | |
| Toluene-d8 | 98.0 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 114 | % | 70-130 | | | |
| Dibromofluoromethane | 94.0 | % | 70-130 | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 0906 12:05 0910 17:04 PS | |
| Acenaphthene | ND | ug/kg | 350 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 350 | | | |
| Hexachlorobenzene | ND | ug/kg | 350 | | | |
| Bis(2-chloroethyl)ether | ND | ug/kg | 350 | | | |
| 2-Chloronaphthalene | ND | ug/kg | 420 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 350 | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 350 | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 350 | | | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 690 | | | |
| 2,4-Dinitrotoluene | ND | ug/kg | 350 | | | |
| 2,6-Dinitrotoluene | ND | ug/kg | 350 | | | |
| Fluoranthene | ND | ug/kg | 350 | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/kg | 350 | | | |
| 4-Bromophenyl phenyl ether | ND | ug/kg | 350 | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/kg | 350 | | | |
| Bis(2-chloroethoxy)methane | ND | ug/kg | 350 | | | |
| Hexachlorobutadiene | ND | ug/kg | 690 | | | |
| Hexachlorocyclopentadiene | ND | ug/kg | 690 | | | |
| Hexachloroethane | ND | ug/kg | 350 | | | |
| Isophorone | ND | ug/kg | 350 | | | |
| Naphthalene | ND | ug/kg | 350 | | | |
| Nitrobenzene | ND | ug/kg | 350 | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/kg | 1000 | | | |
| n-Nitrosodi-n-propylamine | ND | ug/kg | 350 | | | |
| Bis(2-Ethylhexyl)phthalate | ND | ug/kg | 690 | | | |
| Butyl benzyl phthalate | ND | ug/kg | 350 | | | |
| Di-n-butylphthalate | ND | ug/kg | 350 | | | |
| Di-n-octylphthalate | ND | ug/kg | 350 | | | |
| Diethyl phthalate | ND | ug/kg | 350 | | | |
| Dimethyl phthalate | ND | ug/kg | 350 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-21
PWG.SB.2008.21@5-10'

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 8270C | 0906 12:05 0910 17:04 PS | |
| Benzo(a)anthracene | ND | ug/kg | 350 | | | |
| Benzo(a)pyrene | ND | ug/kg | 350 | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 350 | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 350 | | | |
| Chrysene | ND | ug/kg | 350 | | | |
| Acenaphthylene | ND | ug/kg | 350 | | | |
| Anthracene | ND | ug/kg | 350 | | | |
| Benzo(ghi)perylene | ND | ug/kg | 350 | | | |
| Fluorene | ND | ug/kg | 350 | | | |
| Phenanthrene | ND | ug/kg | 350 | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 350 | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 350 | | | |
| Pyrene | ND | ug/kg | 350 | | | |
| Biphenyl | ND | ug/kg | 350 | | | |
| 4-Chloroaniline | ND | ug/kg | 350 | | | |
| 2-Nitroaniline | ND | ug/kg | 350 | | | |
| 3-Nitroaniline | ND | ug/kg | 350 | | | |
| 4-Nitroaniline | ND | ug/kg | 490 | | | |
| Dibenzofuran | ND | ug/kg | 350 | | | |
| 2-Methylnaphthalene | ND | ug/kg | 350 | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/kg | 1400 | | | |
| Acetophenone | ND | ug/kg | 1400 | | | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 350 | | | |
| p-Chloro-M-Cresol | ND | ug/kg | 350 | | | |
| 2-Chlorophenol | ND | ug/kg | 420 | | | |
| 2,4-Dichlorophenol | ND | ug/kg | 690 | | | |
| 2,4-Dimethylphenol | ND | ug/kg | 350 | | | |
| 2-Nitrophenol | ND | ug/kg | 1400 | | | |
| 4-Nitrophenol | ND | ug/kg | 690 | | | |
| 2,4-Dinitrophenol | ND | ug/kg | 1400 | | | |
| 4,6-Dinitro-o-cresol | ND | ug/kg | 1400 | | | |
| Pentachlorophenol | ND | ug/kg | 1400 | | | |
| Phenol | ND | ug/kg | 490 | | | |
| 2-Methylphenol | ND | ug/kg | 420 | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/kg | 420 | | | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 350 | | | |
| Benzoic Acid | ND | ug/kg | 3500 | | | |
| Benzyl Alcohol | ND | ug/kg | 690 | | | |
| Carbazole | ND | ug/kg | 350 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 56.0 | % | 25-120 | | | |
| Phenol-d6 | 53.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 51.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 45.0 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 56.0 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 51.0 | % | 18-120 | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 8270C | 0906 12:05 0911 05:45 AK | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-21
PWG.SB.2008.21@5-10'

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C-SIM cont'd | | | | 1 8270C | 0906 12:05 0911 05:45 AK | |
| Acenaphthene | ND | ug/kg | 14. | | | |
| 2-Chloronaphthalene | ND | ug/kg | 14. | | | |
| Fluoranthene | 99 | ug/kg | 14 | | | |
| Hexachlorobutadiene | ND | ug/kg | 35. | | | |
| Naphthalene | ND | ug/kg | 14. | | | |
| Benzo(a)anthracene | 40 | ug/kg | 14 | | | |
| Benzo(a)pyrene | 53 | ug/kg | 14 | | | |
| Benzo(b)fluoranthene | 50 | ug/kg | 14 | | | |
| Benzo(k)fluoranthene | 48 | ug/kg | 14 | | | |
| Chrysene | 45 | ug/kg | 14 | | | |
| Acenaphthylene | ND | ug/kg | 14. | | | |
| Anthracene | ND | ug/kg | 14. | | | |
| Benzo(ghi)perylene | 43 | ug/kg | 14 | | | |
| Fluorene | ND | ug/kg | 14. | | | |
| Phenanthrene | 56 | ug/kg | 14 | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 14. | | | |
| Indeno(1,2,3-cd)Pyrene | 44 | ug/kg | 14 | | | |
| Pyrene | 93 | ug/kg | 14 | | | |
| 2-Methylnaphthalene | ND | ug/kg | 14. | | | |
| Pentachlorophenol | ND | ug/kg | 56. | | | |
| Hexachlorobenzene | ND | ug/kg | 56. | | | |
| Hexachloroethane | ND | ug/kg | 56. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 53.0 | % | 25-120 | | | |
| Phenol-d6 | 57.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 54.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 51.0 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 71.0 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 64.0 | % | 18-120 | | | |
| Polychlorinated Biphenyls by EPA 8082 | | | | 1 8082 | 0906 12:00 0909 20:59 SH | |
| Aroclor 1016 | ND | ug/kg | 34.7 | | | |
| Aroclor 1221 | ND | ug/kg | 34.7 | | | |
| Aroclor 1232 | ND | ug/kg | 34.7 | | | |
| Aroclor 1242 | ND | ug/kg | 34.7 | | | |
| Aroclor 1248 | ND | ug/kg | 34.7 | | | |
| Aroclor 1254 | ND | ug/kg | 34.7 | | | |
| Aroclor 1260 | ND | ug/kg | 34.7 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 55.0 | % | 30-150 | | | |
| Decachlorobiphenyl | 52.0 | % | 30-150 | | | |
| Organochlorine Pesticides by EPA 8081A | | | | 1 8081A | 0906 10:30 0910 17:52 SS | |
| Delta-BHC | ND | ug/kg | 3.47 | | | |
| Lindane | ND | ug/kg | 3.47 | | | |
| Alpha-BHC | ND | ug/kg | 3.47 | | | |
| Beta-BHC | ND | ug/kg | 3.47 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-21
PWG.SB.2008.21@5-10'

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---|----------|-------|-------------|------------|------------|------------|----|
| | | | | | PREP | ANAL | |
| | | | | | | | |
| Organochlorine Pesticides by EPA 8081A cont'd | | | | 1 8081A | 0906 10:30 | 0910 17:52 | SS |
| Heptachlor | ND | ug/kg | 3.47 | | | | |
| Aldrin | ND | ug/kg | 3.47 | | | | |
| Heptachlor epoxide | ND | ug/kg | 3.47 | | | | |
| Endrin | ND | ug/kg | 3.47 | | | | |
| Endrin ketone | ND | ug/kg | 3.47 | | | | |
| Dieldrin | ND | ug/kg | 3.47 | | | | |
| 4,4'-DDE | ND | ug/kg | 3.47 | | | | |
| 4,4'-DDD | ND | ug/kg | 3.47 | | | | |
| 4,4'-DDT | ND | ug/kg | 3.47 | | | | |
| Endosulfan I | ND | ug/kg | 3.47 | | | | |
| Endosulfan II | ND | ug/kg | 3.47 | | | | |
| Endosulfan sulfate | ND | ug/kg | 3.47 | | | | |
| Methoxychlor | ND | ug/kg | 13.9 | | | | |
| trans-Chlordane | ND | ug/kg | 3.47 | | | | |
| Chlordane | ND | ug/kg | 34.7 | | | | |
| | | | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 59.0 | % | 30-150 | | | | |
| Decachlorobiphenyl | 77.0 | % | 30-150 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0813196-22 | Date Collected: 04-SEP-2008 10:45 |
| PWG.GW.2008.01 | Date Received : 05-SEP-2008 |
| Sample Matrix: WATER | Date Reported : 15-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 2-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-------------------|----|
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0910 03:16 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | |
| Chloroform | ND | ug/l | 0.75 | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | |
| Tetrachloroethene | ND | ug/l | 0.50 | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | |
| Bromoform | ND | ug/l | 2.0 | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Benzene | ND | ug/l | 0.50 | | | |
| Toluene | ND | ug/l | 0.75 | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | |
| Chloromethane | ND | ug/l | 2.5 | | | |
| Bromomethane | ND | ug/l | 1.0 | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | |
| Chloroethane | ND | ug/l | 1.0 | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | |
| Trichloroethene | ND | ug/l | 0.50 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| Methyl tert butyl ether | ND | ug/l | 1.0 | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | |
| o-Xylene | ND | ug/l | 1.0 | | | |
| cis-1,2-Dichloroethene | ND | ug/l | 0.50 | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-22
PWG.GW.2008.01

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0910 03:16 PD | | |
| Styrene | ND | ug/l | 1.0 | | | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | | | |
| Acetone | ND | ug/l | 5.0 | | | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | | | |
| 2-Butanone | ND | ug/l | 5.0 | | | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | | | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | | | |
| Naphthalene | ND | ug/l | 2.5 | | | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 1,2-Dichloroethane-d4 | 104 | % | 70-130 | | | | | |
| Toluene-d8 | 99.0 | % | 70-130 | | | | | |
| 4-Bromofluorobenzene | 105 | % | 70-130 | | | | | |
| Dibromofluoromethane | 100 | % | 70-130 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|---------------------------------------|-----------------------------------|
| Laboratory Sample Number: L0813196-23 | Date Collected: 04-SEP-2008 11:40 |
| PWG.GW.2008.15 | Date Received : 05-SEP-2008 |
| Sample Matrix: WATER | Date Reported : 15-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 2-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-------------------|----|
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0910 03:53 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | |
| Chloroform | ND | ug/l | 0.75 | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | |
| Tetrachloroethene | 73 | ug/l | 0.50 | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | |
| Bromoform | ND | ug/l | 2.0 | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Benzene | ND | ug/l | 0.50 | | | |
| Toluene | ND | ug/l | 0.75 | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | |
| Chloromethane | ND | ug/l | 2.5 | | | |
| Bromomethane | ND | ug/l | 1.0 | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | |
| Chloroethane | ND | ug/l | 1.0 | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | |
| Trichloroethene | 2.2 | ug/l | 0.50 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| Methyl tert butyl ether | ND | ug/l | 1.0 | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | |
| o-Xylene | ND | ug/l | 1.0 | | | |
| cis-1,2-Dichloroethene | ND | ug/l | 0.50 | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-23
PWG.GW.2008.15

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0910 03:53 PD | | |
| Styrene | ND | ug/l | 1.0 | | | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | | | |
| Acetone | ND | ug/l | 5.0 | | | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | | | |
| 2-Butanone | ND | ug/l | 5.0 | | | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | | | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | | | |
| Naphthalene | ND | ug/l | 2.5 | | | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 1,2-Dichloroethane-d4 | 104 | % | 70-130 | | | | | |
| Toluene-d8 | 98.0 | % | 70-130 | | | | | |
| 4-Bromofluorobenzene | 102 | % | 70-130 | | | | | |
| Dibromofluoromethane | 98.0 | % | 70-130 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | | | |
|-------------------------------------|----------------------|-----------------|-------------------|
| Laboratory Sample Number: | L0813196-24 | Date Collected: | 04-SEP-2008 12:40 |
| | PWG.SB.2008.13@5-10' | Date Received : | 05-SEP-2008 |
| Sample Matrix: | SOIL | Date Reported : | 15-SEP-2008 |
| Condition of Sample: | Satisfactory | Field Prep: | None |
| Number & Type of Containers: 1-Vial | | | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-------------------|----|
| Solids, Total | 78 | % | 0.10 | 30 2540G | 0911 15:15 | SD |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0906 21:54 | PD |
| Methylene chloride | ND | ug/kg | 32. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 4.8 | | | |
| Chloroform | ND | ug/kg | 4.8 | | | |
| Carbon tetrachloride | ND | ug/kg | 3.2 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 11. | | | |
| Dibromochloromethane | ND | ug/kg | 3.2 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 4.8 | | | |
| Tetrachloroethene | 14 | ug/kg | 3.2 | | | |
| Chlorobenzene | ND | ug/kg | 3.2 | | | |
| Trichlorofluoromethane | ND | ug/kg | 16. | | | |
| 1,2-Dichloroethane | ND | ug/kg | 3.2 | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 3.2 | | | |
| Bromodichloromethane | ND | ug/kg | 3.2 | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 3.2 | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 3.2 | | | |
| 1,1-Dichloropropene | ND | ug/kg | 16. | | | |
| Bromoform | ND | ug/kg | 13. | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 3.2 | | | |
| Benzene | ND | ug/kg | 3.2 | | | |
| Toluene | ND | ug/kg | 4.8 | | | |
| Ethylbenzene | ND | ug/kg | 3.2 | | | |
| Chloromethane | ND | ug/kg | 16. | | | |
| Bromomethane | ND | ug/kg | 6.4 | | | |
| Vinyl chloride | ND | ug/kg | 6.4 | | | |
| Chloroethane | ND | ug/kg | 6.4 | | | |
| 1,1-Dichloroethene | ND | ug/kg | 3.2 | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 4.8 | | | |
| Trichloroethene | ND | ug/kg | 3.2 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 16. | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 16. | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 16. | | | |
| Methyl tert butyl ether | ND | ug/kg | 6.4 | | | |
| p/m-Xylene | ND | ug/kg | 6.4 | | | |
| o-Xylene | ND | ug/kg | 6.4 | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 3.2 | | | |
| Dibromomethane | ND | ug/kg | 32. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-24
PWG.SB.2008.13@5-10'

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|------------|-------|---------------|----|
| | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0906 21:54 PD | |
| Styrene | ND | ug/kg | 6.4 | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 32. | | | | |
| Acetone | ND | ug/kg | 32. | | | | |
| Carbon disulfide | ND | ug/kg | 32. | | | | |
| 2-Butanone | ND | ug/kg | 32. | | | | |
| Vinyl acetate | ND | ug/kg | 32. | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 32. | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 32. | | | | |
| 2-Hexanone | ND | ug/kg | 32. | | | | |
| Bromochloromethane | ND | ug/kg | 16. | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 16. | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 13. | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 16. | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 3.2 | | | | |
| Bromobenzene | ND | ug/kg | 16. | | | | |
| n-Butylbenzene | ND | ug/kg | 3.2 | | | | |
| sec-Butylbenzene | ND | ug/kg | 3.2 | | | | |
| tert-Butylbenzene | ND | ug/kg | 16. | | | | |
| o-Chlorotoluene | ND | ug/kg | 16. | | | | |
| p-Chlorotoluene | ND | ug/kg | 16. | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 16. | | | | |
| Hexachlorobutadiene | ND | ug/kg | 16. | | | | |
| Isopropylbenzene | ND | ug/kg | 3.2 | | | | |
| p-Isopropyltoluene | ND | ug/kg | 3.2 | | | | |
| Naphthalene | ND | ug/kg | 16. | | | | |
| Acrylonitrile | ND | ug/kg | 32. | | | | |
| n-Propylbenzene | ND | ug/kg | 3.2 | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 16. | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 16. | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 16. | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 16. | | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 13. | | | | |
| 4-Ethyltoluene | ND | ug/kg | 13. | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 13. | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | |
| 1,2-Dichloroethane-d4 | 114 | % | 70-130 | | | | |
| Toluene-d8 | 113 | % | 70-130 | | | | |
| 4-Bromofluorobenzene | 127 | % | 70-130 | | | | |
| Dibromofluoromethane | 108 | % | 70-130 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0813196-25 | Date Collected: 04-SEP-2008 12:50 |
| PWG.SB.2008.13@10-15' | Date Received : 05-SEP-2008 |
| Sample Matrix: SOIL | Date Reported : 15-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 1-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-------------------|----|
| Solids, Total | 78 | % | 0.10 | 30 2540G | 0911 15:15 | SD |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0906 22:31 | PD |
| Methylene chloride | ND | ug/kg | 32. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 4.8 | | | |
| Chloroform | ND | ug/kg | 4.8 | | | |
| Carbon tetrachloride | ND | ug/kg | 3.2 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 11. | | | |
| Dibromochloromethane | ND | ug/kg | 3.2 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 4.8 | | | |
| Tetrachloroethene | 44 | ug/kg | 3.2 | | | |
| Chlorobenzene | ND | ug/kg | 3.2 | | | |
| Trichlorofluoromethane | ND | ug/kg | 16. | | | |
| 1,2-Dichloroethane | ND | ug/kg | 3.2 | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 3.2 | | | |
| Bromodichloromethane | ND | ug/kg | 3.2 | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 3.2 | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 3.2 | | | |
| 1,1-Dichloropropene | ND | ug/kg | 16. | | | |
| Bromoform | ND | ug/kg | 13. | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 3.2 | | | |
| Benzene | ND | ug/kg | 3.2 | | | |
| Toluene | ND | ug/kg | 4.8 | | | |
| Ethylbenzene | ND | ug/kg | 3.2 | | | |
| Chloromethane | ND | ug/kg | 16. | | | |
| Bromomethane | ND | ug/kg | 6.4 | | | |
| Vinyl chloride | ND | ug/kg | 6.4 | | | |
| Chloroethane | ND | ug/kg | 6.4 | | | |
| 1,1-Dichloroethene | ND | ug/kg | 3.2 | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 4.8 | | | |
| Trichloroethene | ND | ug/kg | 3.2 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 16. | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 16. | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 16. | | | |
| Methyl tert butyl ether | ND | ug/kg | 6.4 | | | |
| p/m-Xylene | ND | ug/kg | 6.4 | | | |
| o-Xylene | ND | ug/kg | 6.4 | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 3.2 | | | |
| Dibromomethane | ND | ug/kg | 32. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-25
PWG.SB.2008.13@10-15'

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|------------|-------|---------------|----|
| | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0906 22:31 PD | |
| Styrene | ND | ug/kg | 6.4 | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 32. | | | | |
| Acetone | ND | ug/kg | 32. | | | | |
| Carbon disulfide | ND | ug/kg | 32. | | | | |
| 2-Butanone | ND | ug/kg | 32. | | | | |
| Vinyl acetate | ND | ug/kg | 32. | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 32. | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 32. | | | | |
| 2-Hexanone | ND | ug/kg | 32. | | | | |
| Bromochloromethane | ND | ug/kg | 16. | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 16. | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 13. | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 16. | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 3.2 | | | | |
| Bromobenzene | ND | ug/kg | 16. | | | | |
| n-Butylbenzene | ND | ug/kg | 3.2 | | | | |
| sec-Butylbenzene | ND | ug/kg | 3.2 | | | | |
| tert-Butylbenzene | ND | ug/kg | 16. | | | | |
| o-Chlorotoluene | ND | ug/kg | 16. | | | | |
| p-Chlorotoluene | ND | ug/kg | 16. | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 16. | | | | |
| Hexachlorobutadiene | ND | ug/kg | 16. | | | | |
| Isopropylbenzene | ND | ug/kg | 3.2 | | | | |
| p-Isopropyltoluene | ND | ug/kg | 3.2 | | | | |
| Naphthalene | ND | ug/kg | 16. | | | | |
| Acrylonitrile | ND | ug/kg | 32. | | | | |
| n-Propylbenzene | ND | ug/kg | 3.2 | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 16. | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 16. | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 16. | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 16. | | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 13. | | | | |
| 4-Ethyltoluene | ND | ug/kg | 13. | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 13. | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | |
| 1,2-Dichloroethane-d4 | 100 | % | 70-130 | | | | |
| Toluene-d8 | 99.0 | % | 70-130 | | | | |
| 4-Bromofluorobenzene | 115 | % | 70-130 | | | | |
| Dibromofluoromethane | 94.0 | % | 70-130 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|---------------------------------------|-----------------------------------|
| Laboratory Sample Number: L0813196-26 | Date Collected: 04-SEP-2008 13:00 |
| PWG.GW.2008.13 | Date Received : 05-SEP-2008 |
| Sample Matrix: WATER | Date Reported : 15-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 2-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|-----|------------|-------------------|----|
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0910 04:29 PD | |
| Methylene chloride | ND | ug/l | 100 | | | |
| 1,1-Dichloroethane | ND | ug/l | 15. | | | |
| Chloroform | ND | ug/l | 15. | | | |
| Carbon tetrachloride | ND | ug/l | 10. | | | |
| 1,2-Dichloropropane | ND | ug/l | 35. | | | |
| Dibromochloromethane | ND | ug/l | 10. | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 15. | | | |
| Tetrachloroethene | 1800 | ug/l | 10 | | | |
| Chlorobenzene | ND | ug/l | 10. | | | |
| Trichlorofluoromethane | ND | ug/l | 50. | | | |
| 1,2-Dichloroethane | ND | ug/l | 10. | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 10. | | | |
| Bromodichloromethane | ND | ug/l | 10. | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 10. | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 10. | | | |
| 1,1-Dichloropropene | ND | ug/l | 50. | | | |
| Bromoform | ND | ug/l | 40. | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 10. | | | |
| Benzene | ND | ug/l | 10. | | | |
| Toluene | ND | ug/l | 15. | | | |
| Ethylbenzene | ND | ug/l | 10. | | | |
| Chloromethane | ND | ug/l | 50. | | | |
| Bromomethane | ND | ug/l | 20. | | | |
| Vinyl chloride | ND | ug/l | 20. | | | |
| Chloroethane | ND | ug/l | 20. | | | |
| 1,1-Dichloroethene | ND | ug/l | 10. | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 15. | | | |
| Trichloroethene | 11 | ug/l | 10 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 50. | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 50. | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 50. | | | |
| Methyl tert butyl ether | ND | ug/l | 20. | | | |
| p/m-Xylene | ND | ug/l | 20. | | | |
| o-Xylene | ND | ug/l | 20. | | | |
| cis-1,2-Dichloroethene | 11 | ug/l | 10 | | | |
| Dibromomethane | ND | ug/l | 100 | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 100 | | | |
| Acrylonitrile | ND | ug/l | 100 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-26
PWG.GW.2008.13

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0910 04:29 PD | | |
| Styrene | ND | ug/l | 20. | | | | | |
| Dichlorodifluoromethane | ND | ug/l | 100 | | | | | |
| Acetone | ND | ug/l | 100 | | | | | |
| Carbon disulfide | ND | ug/l | 100 | | | | | |
| 2-Butanone | ND | ug/l | 100 | | | | | |
| Vinyl acetate | ND | ug/l | 100 | | | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 100 | | | | | |
| 2-Hexanone | ND | ug/l | 100 | | | | | |
| Bromochloromethane | ND | ug/l | 50. | | | | | |
| 2,2-Dichloropropane | ND | ug/l | 50. | | | | | |
| 1,2-Dibromoethane | ND | ug/l | 40. | | | | | |
| 1,3-Dichloropropane | ND | ug/l | 50. | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 10. | | | | | |
| Bromobenzene | ND | ug/l | 50. | | | | | |
| n-Butylbenzene | ND | ug/l | 10. | | | | | |
| sec-Butylbenzene | ND | ug/l | 10. | | | | | |
| tert-Butylbenzene | ND | ug/l | 50. | | | | | |
| o-Chlorotoluene | ND | ug/l | 50. | | | | | |
| p-Chlorotoluene | ND | ug/l | 50. | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 50. | | | | | |
| Hexachlorobutadiene | ND | ug/l | 12. | | | | | |
| Isopropylbenzene | ND | ug/l | 10. | | | | | |
| p-Isopropyltoluene | ND | ug/l | 10. | | | | | |
| Naphthalene | ND | ug/l | 50. | | | | | |
| n-Propylbenzene | ND | ug/l | 10. | | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 50. | | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 50. | | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 50. | | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 50. | | | | | |
| 1,4-Diethylbenzene | ND | ug/l | 40. | | | | | |
| 4-Ethyltoluene | ND | ug/l | 40. | | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 40. | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 1,2-Dichloroethane-d4 | 103 | % | 70-130 | | | | | |
| Toluene-d8 | 98.0 | % | 70-130 | | | | | |
| 4-Bromofluorobenzene | 105 | % | 70-130 | | | | | |
| Dibromofluoromethane | 98.0 | % | 70-130 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0813196-27 | Date Collected: 04-SEP-2008 13:30 |
| PWG.SB.2008.14@0-5' | Date Received : 05-SEP-2008 |
| Sample Matrix: SOIL | Date Reported : 15-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 3-Amber,1-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-----------------------|----|
| Solids, Total | 94 | % | 0.10 | 30 2540G | 0909 18:20 | NM |
| Total Metals | | | | | | |
| Aluminum, Total | 4000 | mg/kg | 5.0 | 1 6010B | 0908 14:00 0910 19:51 | TD |
| Antimony, Total | ND | mg/kg | 2.5 | 1 6010B | 0908 14:00 0910 19:51 | TD |
| Arsenic, Total | 1.1 | mg/kg | 0.50 | 1 6010B | 0908 14:00 0910 19:51 | TD |
| Barium, Total | 19 | mg/kg | 0.50 | 1 6010B | 0908 14:00 0910 19:51 | TD |
| Beryllium, Total | ND | mg/kg | 0.25 | 1 6010B | 0908 14:00 0910 19:51 | TD |
| Cadmium, Total | ND | mg/kg | 0.50 | 1 6010B | 0908 14:00 0910 19:51 | TD |
| Calcium, Total | 350 | mg/kg | 5.0 | 1 6010B | 0908 14:00 0910 19:51 | TD |
| Chromium, Total | 4.2 | mg/kg | 0.50 | 1 6010B | 0908 14:00 0910 19:51 | TD |
| Cobalt, Total | ND | mg/kg | 1.0 | 1 6010B | 0908 14:00 0910 19:51 | TD |
| Copper, Total | 3.3 | mg/kg | 0.50 | 1 6010B | 0908 14:00 0910 19:51 | TD |
| Iron, Total | 3800 | mg/kg | 2.5 | 1 6010B | 0908 14:00 0910 19:51 | TD |
| Lead, Total | 21 | mg/kg | 2.5 | 1 6010B | 0908 14:00 0910 19:51 | TD |
| Magnesium, Total | 380 | mg/kg | 5.0 | 1 6010B | 0908 14:00 0910 19:51 | TD |
| Manganese, Total | 55 | mg/kg | 0.50 | 1 6010B | 0908 14:00 0910 19:51 | TD |
| Mercury, Total | ND | mg/kg | 0.09 | 1 7471A | 0910 21:30 0911 17:23 | HG |
| Nickel, Total | 2.3 | mg/kg | 1.2 | 1 6010B | 0908 14:00 0910 19:51 | TD |
| Potassium, Total | 150 | mg/kg | 120 | 1 6010B | 0908 14:00 0910 19:51 | TD |
| Selenium, Total | ND | mg/kg | 1.0 | 1 6010B | 0908 14:00 0910 19:51 | TD |
| Silver, Total | ND | mg/kg | 0.50 | 1 6010B | 0908 14:00 0910 19:51 | TD |
| Sodium, Total | ND | mg/kg | 100 | 1 6010B | 0908 14:00 0910 19:51 | TD |
| Thallium, Total | ND | mg/kg | 1.0 | 1 6010B | 0908 14:00 0910 19:51 | TD |
| Vanadium, Total | 6.2 | mg/kg | 0.50 | 1 6010B | 0908 14:00 0910 19:51 | TD |
| Zinc, Total | 26 | mg/kg | 2.5 | 1 6010B | 0908 14:00 0910 19:51 | TD |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0906 23:08 | PD |
| Methylene chloride | ND | ug/kg | 26. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 4.0 | | | |
| Chloroform | ND | ug/kg | 4.0 | | | |
| Carbon tetrachloride | ND | ug/kg | 2.6 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 9.3 | | | |
| Dibromochloromethane | ND | ug/kg | 2.6 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 4.0 | | | |
| Tetrachloroethene | 56 | ug/kg | 2.6 | | | |
| Chlorobenzene | ND | ug/kg | 2.6 | | | |
| Trichlorofluoromethane | ND | ug/kg | 13. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-27
PWG.SB.2008.14@0-5'

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---------------------------------------|--------|-------|-----|------------|-------|---------------|----|
| | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0906 23:08 PD | |
| 1,2-Dichloroethane | ND | ug/kg | 2.6 | | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 2.6 | | | | |
| Bromodichloromethane | ND | ug/kg | 2.6 | | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 2.6 | | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 2.6 | | | | |
| 1,1-Dichloropropene | ND | ug/kg | 13. | | | | |
| Bromoform | ND | ug/kg | 11. | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 2.6 | | | | |
| Benzene | ND | ug/kg | 2.6 | | | | |
| Toluene | ND | ug/kg | 4.0 | | | | |
| Ethylbenzene | ND | ug/kg | 2.6 | | | | |
| Chloromethane | ND | ug/kg | 13. | | | | |
| Bromomethane | ND | ug/kg | 5.3 | | | | |
| Vinyl chloride | ND | ug/kg | 5.3 | | | | |
| Chloroethane | ND | ug/kg | 5.3 | | | | |
| 1,1-Dichloroethene | ND | ug/kg | 2.6 | | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 4.0 | | | | |
| Trichloroethene | ND | ug/kg | 2.6 | | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 13. | | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 13. | | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 13. | | | | |
| Methyl tert butyl ether | ND | ug/kg | 5.3 | | | | |
| p/m-Xylene | ND | ug/kg | 5.3 | | | | |
| o-Xylene | ND | ug/kg | 5.3 | | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 2.6 | | | | |
| Dibromomethane | ND | ug/kg | 26. | | | | |
| Styrene | ND | ug/kg | 5.3 | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 26. | | | | |
| Acetone | ND | ug/kg | 26. | | | | |
| Carbon disulfide | ND | ug/kg | 26. | | | | |
| 2-Butanone | ND | ug/kg | 26. | | | | |
| Vinyl acetate | ND | ug/kg | 26. | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 26. | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 26. | | | | |
| 2-Hexanone | ND | ug/kg | 26. | | | | |
| Bromochloromethane | ND | ug/kg | 13. | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 13. | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 11. | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 13. | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 2.6 | | | | |
| Bromobenzene | ND | ug/kg | 13. | | | | |
| n-Butylbenzene | ND | ug/kg | 2.6 | | | | |
| sec-Butylbenzene | ND | ug/kg | 2.6 | | | | |
| tert-Butylbenzene | ND | ug/kg | 13. | | | | |
| o-Chlorotoluene | ND | ug/kg | 13. | | | | |
| p-Chlorotoluene | ND | ug/kg | 13. | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 13. | | | | |
| Hexachlorobutadiene | ND | ug/kg | 13. | | | | |
| Isopropylbenzene | ND | ug/kg | 2.6 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-27
PWG.SB.2008.14@0-5'

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|--------------------------|----|
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0906 23:08 PD | |
| p-Isopropyltoluene | ND | ug/kg | 2.6 | | | |
| Naphthalene | ND | ug/kg | 13. | | | |
| Acrylonitrile | ND | ug/kg | 26. | | | |
| n-Propylbenzene | ND | ug/kg | 2.6 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 13. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 13. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 13. | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 13. | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 11. | | | |
| 4-Ethyltoluene | ND | ug/kg | 11. | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 11. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 109 | % | 70-130 | | | |
| Toluene-d8 | 105 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 120 | % | 70-130 | | | |
| Dibromofluoromethane | 99.0 | % | 70-130 | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 0906 12:05 0910 17:27 PS | |
| Acenaphthene | ND | ug/kg | 350 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 350 | | | |
| Hexachlorobenzene | ND | ug/kg | 350 | | | |
| Bis(2-chloroethyl)ether | ND | ug/kg | 350 | | | |
| 2-Chloronaphthalene | ND | ug/kg | 420 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 350 | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 350 | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 350 | | | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 710 | | | |
| 2,4-Dinitrotoluene | ND | ug/kg | 350 | | | |
| 2,6-Dinitrotoluene | ND | ug/kg | 350 | | | |
| Fluoranthene | ND | ug/kg | 350 | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/kg | 350 | | | |
| 4-Bromophenyl phenyl ether | ND | ug/kg | 350 | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/kg | 350 | | | |
| Bis(2-chloroethoxy)methane | ND | ug/kg | 350 | | | |
| Hexachlorobutadiene | ND | ug/kg | 710 | | | |
| Hexachlorocyclopentadiene | ND | ug/kg | 710 | | | |
| Hexachloroethane | ND | ug/kg | 350 | | | |
| Isophorone | ND | ug/kg | 350 | | | |
| Naphthalene | ND | ug/kg | 350 | | | |
| Nitrobenzene | ND | ug/kg | 350 | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/kg | 1100 | | | |
| n-Nitrosodi-n-propylamine | ND | ug/kg | 350 | | | |
| Bis(2-Ethylhexyl)phthalate | ND | ug/kg | 710 | | | |
| Butyl benzyl phthalate | ND | ug/kg | 350 | | | |
| Di-n-butylphthalate | ND | ug/kg | 350 | | | |
| Di-n-octylphthalate | ND | ug/kg | 350 | | | |
| Diethyl phthalate | ND | ug/kg | 350 | | | |
| Dimethyl phthalate | ND | ug/kg | 350 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-27
PWG.SB.2008.14@0-5'

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---|----------|-------|-------------|------------|-------|-----------------------|----|
| | | | | | PREP | ANAL | |
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 | 8270C | 0906 12:05 0910 17:27 | PS |
| Benzo(a)anthracene | ND | ug/kg | 350 | | | | |
| Benzo(a)pyrene | ND | ug/kg | 350 | | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 350 | | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 350 | | | | |
| Chrysene | ND | ug/kg | 350 | | | | |
| Acenaphthylene | ND | ug/kg | 350 | | | | |
| Anthracene | ND | ug/kg | 350 | | | | |
| Benzo(ghi)perylene | ND | ug/kg | 350 | | | | |
| Fluorene | ND | ug/kg | 350 | | | | |
| Phenanthrene | ND | ug/kg | 350 | | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 350 | | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 350 | | | | |
| Pyrene | ND | ug/kg | 350 | | | | |
| Biphenyl | ND | ug/kg | 350 | | | | |
| 4-Chloroaniline | ND | ug/kg | 350 | | | | |
| 2-Nitroaniline | ND | ug/kg | 350 | | | | |
| 3-Nitroaniline | ND | ug/kg | 350 | | | | |
| 4-Nitroaniline | ND | ug/kg | 500 | | | | |
| Dibenzofuran | ND | ug/kg | 350 | | | | |
| 2-Methylnaphthalene | ND | ug/kg | 350 | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/kg | 1400 | | | | |
| Acetophenone | ND | ug/kg | 1400 | | | | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 350 | | | | |
| P-Chloro-M-Cresol | ND | ug/kg | 350 | | | | |
| 2-Chlorophenol | ND | ug/kg | 420 | | | | |
| 2,4-Dichlorophenol | ND | ug/kg | 710 | | | | |
| 2,4-Dimethylphenol | ND | ug/kg | 350 | | | | |
| 2-Nitrophenol | ND | ug/kg | 1400 | | | | |
| 4-Nitrophenol | ND | ug/kg | 710 | | | | |
| 2,4-Dinitrophenol | ND | ug/kg | 1400 | | | | |
| 4,6-Dinitro-o-cresol | ND | ug/kg | 1400 | | | | |
| Pentachlorophenol | ND | ug/kg | 1400 | | | | |
| Phenol | ND | ug/kg | 500 | | | | |
| 2-Methylphenol | ND | ug/kg | 420 | | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/kg | 420 | | | | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 350 | | | | |
| Benzoic Acid | ND | ug/kg | 3500 | | | | |
| Benzyl Alcohol | ND | ug/kg | 710 | | | | |
| Carbazole | ND | ug/kg | 350 | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | |
| 2-Fluorophenol | 53.0 | % | 25-120 | | | | |
| Phenol-d6 | 53.0 | % | 10-120 | | | | |
| Nitrobenzene-d5 | 47.0 | % | 23-120 | | | | |
| 2-Fluorobiphenyl | 48.0 | % | 30-120 | | | | |
| 2,4,6-Tribromophenol | 60.0 | % | 19-120 | | | | |
| 4-Terphenyl-d14 | 51.0 | % | 18-120 | | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 | 8270C | 0906 12:05 0911 06:30 | AK |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-27
PWG.SB.2008.14@0-5'

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C-SIM cont'd | | | | 1 8270C | 0906 12:05 0911 06:30 AK | |
| Acenaphthene | ND | ug/kg | 14. | | | |
| 2-Chloronaphthalene | ND | ug/kg | 14. | | | |
| Fluoranthene | ND | ug/kg | 14. | | | |
| Hexachlorobutadiene | ND | ug/kg | 35. | | | |
| Naphthalene | ND | ug/kg | 14. | | | |
| Benzo(a)anthracene | ND | ug/kg | 14. | | | |
| Benzo(a)pyrene | ND | ug/kg | 14. | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 14. | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 14. | | | |
| Chrysene | ND | ug/kg | 14. | | | |
| Acenaphthylene | ND | ug/kg | 14. | | | |
| Anthracene | ND | ug/kg | 14. | | | |
| Benzo(ghi)perylene | ND | ug/kg | 14. | | | |
| Fluorene | ND | ug/kg | 14. | | | |
| Phenanthrene | ND | ug/kg | 14. | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 14. | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 14. | | | |
| Pyrene | ND | ug/kg | 14. | | | |
| 2-Methylnaphthalene | ND | ug/kg | 14. | | | |
| Pentachlorophenol | ND | ug/kg | 57. | | | |
| Hexachlorobenzene | ND | ug/kg | 57. | | | |
| Hexachloroethane | ND | ug/kg | 57. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 50.0 | % | 25-120 | | | |
| Phenol-d6 | 56.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 50.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 51.0 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 72.0 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 64.0 | % | 18-120 | | | |
| Polychlorinated Biphenyls by EPA 8082 | | | | 1 8082 | 0906 12:00 0909 21:13 SH | |
| Aroclor 1016 | ND | ug/kg | 35.5 | | | |
| Aroclor 1221 | ND | ug/kg | 35.5 | | | |
| Aroclor 1232 | ND | ug/kg | 35.5 | | | |
| Aroclor 1242 | ND | ug/kg | 35.5 | | | |
| Aroclor 1248 | ND | ug/kg | 35.5 | | | |
| Aroclor 1254 | ND | ug/kg | 35.5 | | | |
| Aroclor 1260 | ND | ug/kg | 35.5 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 63.0 | % | 30-150 | | | |
| Decachlorobiphenyl | 57.0 | % | 30-150 | | | |
| Organochlorine Pesticides by EPA 8081A | | | | 1 8081A | 0906 10:30 0910 18:05 SS | |
| Delta-BHC | ND | ug/kg | 3.55 | | | |
| Lindane | ND | ug/kg | 3.55 | | | |
| Alpha-BHC | ND | ug/kg | 3.55 | | | |
| Beta-BHC | ND | ug/kg | 3.55 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-27
PWG.SB.2008.14@0-5'

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---|----------|-------|-------------|------------|------------|------------|----|
| | | | | | PREP | ANAL | |
| | | | | | | | |
| Organochlorine Pesticides by EPA 8081A cont'd | | | | 1 8081A | 0906 10:30 | 0910 18:05 | SS |
| Heptachlor | ND | ug/kg | 3.55 | | | | |
| Aldrin | ND | ug/kg | 3.55 | | | | |
| Heptachlor epoxide | ND | ug/kg | 3.55 | | | | |
| Endrin | ND | ug/kg | 3.55 | | | | |
| Endrin ketone | ND | ug/kg | 3.55 | | | | |
| Dieldrin | ND | ug/kg | 3.55 | | | | |
| 4,4'-DDE | ND | ug/kg | 3.55 | | | | |
| 4,4'-DDD | ND | ug/kg | 3.55 | | | | |
| 4,4'-DDT | ND | ug/kg | 3.55 | | | | |
| Endosulfan I | ND | ug/kg | 3.55 | | | | |
| Endosulfan II | ND | ug/kg | 3.55 | | | | |
| Endosulfan sulfate | ND | ug/kg | 3.55 | | | | |
| Methoxychlor | ND | ug/kg | 14.2 | | | | |
| trans-Chlordane | ND | ug/kg | 3.55 | | | | |
| Chlordane | ND | ug/kg | 35.5 | | | | |
| | | | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 59.0 | % | 30-150 | | | | |
| Decachlorobiphenyl | 76.0 | % | 30-150 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | | | |
|-------------------------------------|-----------------------|-----------------|-------------------|
| Laboratory Sample Number: | L0813196-28 | Date Collected: | 04-SEP-2008 13:35 |
| | PWG.SB.2008.14@10-15' | Date Received : | 05-SEP-2008 |
| Sample Matrix: | SOIL | Date Reported : | 15-SEP-2008 |
| Condition of Sample: | Satisfactory | Field Prep: | None |
| Number & Type of Containers: 1-Vial | | | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-------------------|----|
| Solids, Total | 76 | % | 0.10 | 30 2540G | 0911 15:15 | SD |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0908 12:59 | PD |
| Methylene chloride | ND | ug/kg | 66. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 9.9 | | | |
| Chloroform | ND | ug/kg | 9.9 | | | |
| Carbon tetrachloride | ND | ug/kg | 6.6 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 23. | | | |
| Dibromochloromethane | ND | ug/kg | 6.6 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 9.9 | | | |
| Tetrachloroethene | 290 | ug/kg | 6.6 | | | |
| Chlorobenzene | ND | ug/kg | 6.6 | | | |
| Trichlorofluoromethane | ND | ug/kg | 33. | | | |
| 1,2-Dichloroethane | ND | ug/kg | 6.6 | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 6.6 | | | |
| Bromodichloromethane | ND | ug/kg | 6.6 | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 6.6 | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 6.6 | | | |
| 1,1-Dichloropropene | ND | ug/kg | 33. | | | |
| Bromoform | ND | ug/kg | 26. | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 6.6 | | | |
| Benzene | ND | ug/kg | 6.6 | | | |
| Toluene | ND | ug/kg | 9.9 | | | |
| Ethylbenzene | ND | ug/kg | 6.6 | | | |
| Chloromethane | ND | ug/kg | 33. | | | |
| Bromomethane | ND | ug/kg | 13. | | | |
| Vinyl chloride | ND | ug/kg | 13. | | | |
| Chloroethane | ND | ug/kg | 13. | | | |
| 1,1-Dichloroethene | ND | ug/kg | 6.6 | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 9.9 | | | |
| Trichloroethene | ND | ug/kg | 6.6 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 33. | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 33. | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 33. | | | |
| Methyl tert butyl ether | ND | ug/kg | 13. | | | |
| p/m-Xylene | ND | ug/kg | 13. | | | |
| o-Xylene | ND | ug/kg | 13. | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 6.6 | | | |
| Dibromomethane | ND | ug/kg | 66. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-28
PWG.SB.2008.14@10-15'

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|-------------------|----|
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0908 12:59 PD | |
| Styrene | ND | ug/kg | 13. | | | |
| Dichlorodifluoromethane | ND | ug/kg | 66. | | | |
| Acetone | ND | ug/kg | 66. | | | |
| Carbon disulfide | ND | ug/kg | 66. | | | |
| 2-Butanone | ND | ug/kg | 66. | | | |
| Vinyl acetate | ND | ug/kg | 66. | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 66. | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 66. | | | |
| 2-Hexanone | ND | ug/kg | 66. | | | |
| Bromochloromethane | ND | ug/kg | 33. | | | |
| 2,2-Dichloropropane | ND | ug/kg | 33. | | | |
| 1,2-Dibromoethane | ND | ug/kg | 26. | | | |
| 1,3-Dichloropropane | ND | ug/kg | 33. | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 6.6 | | | |
| Bromobenzene | ND | ug/kg | 33. | | | |
| n-Butylbenzene | ND | ug/kg | 6.6 | | | |
| sec-Butylbenzene | ND | ug/kg | 6.6 | | | |
| tert-Butylbenzene | ND | ug/kg | 33. | | | |
| o-Chlorotoluene | ND | ug/kg | 33. | | | |
| p-Chlorotoluene | ND | ug/kg | 33. | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 33. | | | |
| Hexachlorobutadiene | ND | ug/kg | 33. | | | |
| Isopropylbenzene | ND | ug/kg | 6.6 | | | |
| p-Isopropyltoluene | ND | ug/kg | 6.6 | | | |
| Naphthalene | ND | ug/kg | 33. | | | |
| Acrylonitrile | ND | ug/kg | 66. | | | |
| n-Propylbenzene | ND | ug/kg | 6.6 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 33. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 33. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 33. | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 33. | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 26. | | | |
| 4-Ethyltoluene | ND | ug/kg | 26. | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 26. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 100 | % | 70-130 | | | |
| Toluene-d8 | 97.0 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 116 | % | 70-130 | | | |
| Dibromofluoromethane | 93.0 | % | 70-130 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|---------------------------------------|-----------------------------------|
| Laboratory Sample Number: L0813196-29 | Date Collected: 05-SEP-2008 09:25 |
| PWG.GW.2008.14 | Date Received : 05-SEP-2008 |
| Sample Matrix: WATER | Date Reported : 15-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 2-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-------------------|----|
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0910 05:06 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | |
| Chloroform | ND | ug/l | 0.75 | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | |
| Tetrachloroethene | >100 | ug/l | .5 | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | |
| Bromoform | ND | ug/l | 2.0 | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Benzene | ND | ug/l | 0.50 | | | |
| Toluene | ND | ug/l | 0.75 | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | |
| Chloromethane | ND | ug/l | 2.5 | | | |
| Bromomethane | ND | ug/l | 1.0 | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | |
| Chloroethane | ND | ug/l | 1.0 | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | |
| Trichloroethene | 4.6 | ug/l | 0.50 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| Methyl tert butyl ether | ND | ug/l | 1.0 | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | |
| o-Xylene | ND | ug/l | 1.0 | | | |
| cis-1,2-Dichloroethene | 13 | ug/l | 0.50 | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-29
PWG.GW.2008.14

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|-------------------|----|
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0910 05:06 PD | |
| Styrene | ND | ug/l | 1.0 | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | |
| Acetone | ND | ug/l | 5.0 | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | |
| 2-Butanone | ND | ug/l | 5.0 | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | |
| Naphthalene | ND | ug/l | 2.5 | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 105 | % | 70-130 | | | |
| Toluene-d8 | 98.0 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 105 | % | 70-130 | | | |
| Dibromofluoromethane | 100 | % | 70-130 | | | |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0910 21:34 PD | |
| Tetrachloroethene | 240 | ug/l | 5.0 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 104 | % | 70-130 | | | |
| Toluene-d8 | 99.0 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 105 | % | 70-130 | | | |
| Dibromofluoromethane | 96.0 | % | 70-130 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0813196-30 | Date Collected: 05-SEP-2008 09:50 |
| PWG.SB.2008.10@5-10' | Date Received : 05-SEP-2008 |
| Sample Matrix: SOIL | Date Reported : 15-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 3-Amber,1-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-----------------------|----|
| Solids, Total | 78 | % | 0.10 | 30 2540G | 0909 18:20 | NM |
| Total Metals | | | | | | |
| Aluminum, Total | 1100 | mg/kg | 6.0 | 1 6010B | 0908 14:00 0910 19:55 | TD |
| Antimony, Total | ND | mg/kg | 3.0 | 1 6010B | 0908 14:00 0910 19:55 | TD |
| Arsenic, Total | 1.0 | mg/kg | 0.60 | 1 6010B | 0908 14:00 0910 19:55 | TD |
| Barium, Total | 3.0 | mg/kg | 0.60 | 1 6010B | 0908 14:00 0910 19:55 | TD |
| Beryllium, Total | ND | mg/kg | 0.30 | 1 6010B | 0908 14:00 0910 19:55 | TD |
| Cadmium, Total | ND | mg/kg | 0.60 | 1 6010B | 0908 14:00 0910 19:55 | TD |
| Calcium, Total | 64 | mg/kg | 6.0 | 1 6010B | 0908 14:00 0910 19:55 | TD |
| Chromium, Total | 3.2 | mg/kg | 0.60 | 1 6010B | 0908 14:00 0910 19:55 | TD |
| Cobalt, Total | ND | mg/kg | 1.2 | 1 6010B | 0908 14:00 0910 19:55 | TD |
| Copper, Total | 1.2 | mg/kg | 0.60 | 1 6010B | 0908 14:00 0910 19:55 | TD |
| Iron, Total | 2500 | mg/kg | 3.0 | 1 6010B | 0908 14:00 0910 19:55 | TD |
| Lead, Total | ND | mg/kg | 3.0 | 1 6010B | 0908 14:00 0910 19:55 | TD |
| Magnesium, Total | 80 | mg/kg | 6.0 | 1 6010B | 0908 14:00 0910 19:55 | TD |
| Manganese, Total | 7.8 | mg/kg | 0.60 | 1 6010B | 0908 14:00 0910 19:55 | TD |
| Mercury, Total | ND | mg/kg | 0.09 | 1 7471A | 0910 21:30 0911 17:25 | HG |
| Nickel, Total | ND | mg/kg | 1.5 | 1 6010B | 0908 14:00 0910 19:55 | TD |
| Potassium, Total | ND | mg/kg | 150 | 1 6010B | 0908 14:00 0910 19:55 | TD |
| Selenium, Total | ND | mg/kg | 1.2 | 1 6010B | 0908 14:00 0910 19:55 | TD |
| Silver, Total | ND | mg/kg | 0.60 | 1 6010B | 0908 14:00 0910 19:55 | TD |
| Sodium, Total | ND | mg/kg | 120 | 1 6010B | 0908 14:00 0910 19:55 | TD |
| Thallium, Total | ND | mg/kg | 1.2 | 1 6010B | 0908 14:00 0910 19:55 | TD |
| Vanadium, Total | 3.4 | mg/kg | 0.60 | 1 6010B | 0908 14:00 0910 19:55 | TD |
| Zinc, Total | 6.5 | mg/kg | 3.0 | 1 6010B | 0908 14:00 0910 19:55 | TD |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0907 00:21 | PD |
| Methylene chloride | ND | ug/kg | 32. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 4.8 | | | |
| Chloroform | ND | ug/kg | 4.8 | | | |
| Carbon tetrachloride | ND | ug/kg | 3.2 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 11. | | | |
| Dibromochloromethane | ND | ug/kg | 3.2 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 4.8 | | | |
| Tetrachloroethene | 5.5 | ug/kg | 3.2 | | | |
| Chlorobenzene | ND | ug/kg | 3.2 | | | |
| Trichlorofluoromethane | ND | ug/kg | 16. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-30
PWG.SB.2008.10@5-10'

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|--------|-------|-----|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0907 00:21 PD | | |
| 1,2-Dichloroethane | ND | ug/kg | 3.2 | | | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 3.2 | | | | | |
| Bromodichloromethane | ND | ug/kg | 3.2 | | | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 3.2 | | | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 3.2 | | | | | |
| 1,1-Dichloropropene | ND | ug/kg | 16. | | | | | |
| Bromoform | ND | ug/kg | 13. | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 3.2 | | | | | |
| Benzene | ND | ug/kg | 3.2 | | | | | |
| Toluene | ND | ug/kg | 4.8 | | | | | |
| Ethylbenzene | ND | ug/kg | 3.2 | | | | | |
| Chloromethane | ND | ug/kg | 16. | | | | | |
| Bromomethane | ND | ug/kg | 6.4 | | | | | |
| Vinyl chloride | ND | ug/kg | 6.4 | | | | | |
| Chloroethane | ND | ug/kg | 6.4 | | | | | |
| 1,1-Dichloroethene | ND | ug/kg | 3.2 | | | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 4.8 | | | | | |
| Trichloroethene | ND | ug/kg | 3.2 | | | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 16. | | | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 16. | | | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 16. | | | | | |
| Methyl tert butyl ether | ND | ug/kg | 6.4 | | | | | |
| p/m-Xylene | ND | ug/kg | 6.4 | | | | | |
| o-Xylene | ND | ug/kg | 6.4 | | | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 3.2 | | | | | |
| Dibromomethane | ND | ug/kg | 32. | | | | | |
| Styrene | ND | ug/kg | 6.4 | | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 32. | | | | | |
| Acetone | ND | ug/kg | 32. | | | | | |
| Carbon disulfide | ND | ug/kg | 32. | | | | | |
| 2-Butanone | ND | ug/kg | 32. | | | | | |
| Vinyl acetate | ND | ug/kg | 32. | | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 32. | | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 32. | | | | | |
| 2-Hexanone | ND | ug/kg | 32. | | | | | |
| Bromochloromethane | ND | ug/kg | 16. | | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 16. | | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 13. | | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 16. | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 3.2 | | | | | |
| Bromobenzene | ND | ug/kg | 16. | | | | | |
| n-Butylbenzene | ND | ug/kg | 3.2 | | | | | |
| sec-Butylbenzene | ND | ug/kg | 3.2 | | | | | |
| tert-Butylbenzene | ND | ug/kg | 16. | | | | | |
| o-Chlorotoluene | ND | ug/kg | 16. | | | | | |
| p-Chlorotoluene | ND | ug/kg | 16. | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 16. | | | | | |
| Hexachlorobutadiene | ND | ug/kg | 16. | | | | | |
| Isopropylbenzene | ND | ug/kg | 3.2 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-30
PWG.SB.2008.10@5-10'

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|--------------------------|----|
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0907 00:21 PD | |
| p-Isopropyltoluene | ND | ug/kg | 3.2 | | | |
| Naphthalene | ND | ug/kg | 16. | | | |
| Acrylonitrile | ND | ug/kg | 32. | | | |
| n-Propylbenzene | ND | ug/kg | 3.2 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 16. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 16. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 16. | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 16. | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 13. | | | |
| 4-Ethyltoluene | ND | ug/kg | 13. | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 13. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 115 | % | 70-130 | | | |
| Toluene-d8 | 108 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 124 | % | 70-130 | | | |
| Dibromofluoromethane | 104 | % | 70-130 | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 0906 12:05 0910 17:51 PS | |
| Acenaphthene | ND | ug/kg | 430 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 430 | | | |
| Hexachlorobenzene | ND | ug/kg | 430 | | | |
| Bis(2-chloroethyl)ether | ND | ug/kg | 430 | | | |
| 2-Chloronaphthalene | ND | ug/kg | 510 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 430 | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 430 | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 430 | | | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 850 | | | |
| 2,4-Dinitrotoluene | ND | ug/kg | 430 | | | |
| 2,6-Dinitrotoluene | ND | ug/kg | 430 | | | |
| Fluoranthene | ND | ug/kg | 430 | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/kg | 430 | | | |
| 4-Bromophenyl phenyl ether | ND | ug/kg | 430 | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/kg | 430 | | | |
| Bis(2-chloroethoxy)methane | ND | ug/kg | 430 | | | |
| Hexachlorobutadiene | ND | ug/kg | 850 | | | |
| Hexachlorocyclopentadiene | ND | ug/kg | 850 | | | |
| Hexachloroethane | ND | ug/kg | 430 | | | |
| Isophorone | ND | ug/kg | 430 | | | |
| Naphthalene | ND | ug/kg | 430 | | | |
| Nitrobenzene | ND | ug/kg | 430 | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/kg | 1300 | | | |
| n-Nitrosodi-n-propylamine | ND | ug/kg | 430 | | | |
| Bis(2-Ethylhexyl)phthalate | ND | ug/kg | 850 | | | |
| Butyl benzyl phthalate | ND | ug/kg | 430 | | | |
| Di-n-butylphthalate | ND | ug/kg | 430 | | | |
| Di-n-octylphthalate | ND | ug/kg | 430 | | | |
| Diethyl phthalate | ND | ug/kg | 430 | | | |
| Dimethyl phthalate | ND | ug/kg | 430 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-30
PWG.SB.2008.10@5-10'

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 8270C | 0906 12:05 0910 17:51 PS | |
| Benzo(a)anthracene | ND | ug/kg | 430 | | | |
| Benzo(a)pyrene | ND | ug/kg | 430 | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 430 | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 430 | | | |
| Chrysene | ND | ug/kg | 430 | | | |
| Acenaphthylene | ND | ug/kg | 430 | | | |
| Anthracene | ND | ug/kg | 430 | | | |
| Benzo(ghi)perylene | ND | ug/kg | 430 | | | |
| Fluorene | ND | ug/kg | 430 | | | |
| Phenanthrene | ND | ug/kg | 430 | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 430 | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 430 | | | |
| Pyrene | ND | ug/kg | 430 | | | |
| Biphenyl | ND | ug/kg | 430 | | | |
| 4-Chloroaniline | ND | ug/kg | 430 | | | |
| 2-Nitroaniline | ND | ug/kg | 430 | | | |
| 3-Nitroaniline | ND | ug/kg | 430 | | | |
| 4-Nitroaniline | ND | ug/kg | 600 | | | |
| Dibenzofuran | ND | ug/kg | 430 | | | |
| 2-Methylnaphthalene | ND | ug/kg | 430 | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/kg | 1700 | | | |
| Acetophenone | ND | ug/kg | 1700 | | | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 430 | | | |
| p-Chloro-M-Cresol | ND | ug/kg | 430 | | | |
| 2-Chlorophenol | ND | ug/kg | 510 | | | |
| 2,4-Dichlorophenol | ND | ug/kg | 850 | | | |
| 2,4-Dimethylphenol | ND | ug/kg | 430 | | | |
| 2-Nitrophenol | ND | ug/kg | 1700 | | | |
| 4-Nitrophenol | ND | ug/kg | 850 | | | |
| 2,4-Dinitrophenol | ND | ug/kg | 1700 | | | |
| 4,6-Dinitro-o-cresol | ND | ug/kg | 1700 | | | |
| Pentachlorophenol | ND | ug/kg | 1700 | | | |
| Phenol | ND | ug/kg | 600 | | | |
| 2-Methylphenol | ND | ug/kg | 510 | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/kg | 510 | | | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 430 | | | |
| Benzoic Acid | ND | ug/kg | 4300 | | | |
| Benzyl Alcohol | ND | ug/kg | 850 | | | |
| Carbazole | ND | ug/kg | 430 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 37.0 | % | 25-120 | | | |
| Phenol-d6 | 37.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 35.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 33.0 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 36.0 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 38.0 | % | 18-120 | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 8270C | 0906 12:05 0911 07:16 AK | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-30
PWG.SB.2008.10@5-10'

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C-SIM cont'd | | | | 1 8270C | 0906 12:05 0911 07:16 AK | |
| Acenaphthene | ND | ug/kg | 17. | | | |
| 2-Chloronaphthalene | ND | ug/kg | 17. | | | |
| Fluoranthene | ND | ug/kg | 17. | | | |
| Hexachlorobutadiene | ND | ug/kg | 43. | | | |
| Naphthalene | ND | ug/kg | 17. | | | |
| Benzo(a)anthracene | ND | ug/kg | 17. | | | |
| Benzo(a)pyrene | ND | ug/kg | 17. | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 17. | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 17. | | | |
| Chrysene | ND | ug/kg | 17. | | | |
| Acenaphthylene | ND | ug/kg | 17. | | | |
| Anthracene | ND | ug/kg | 17. | | | |
| Benzo(ghi)perylene | ND | ug/kg | 17. | | | |
| Fluorene | ND | ug/kg | 17. | | | |
| Phenanthrene | ND | ug/kg | 17. | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 17. | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 17. | | | |
| Pyrene | ND | ug/kg | 17. | | | |
| 2-Methylnaphthalene | ND | ug/kg | 17. | | | |
| Pentachlorophenol | ND | ug/kg | 68. | | | |
| Hexachlorobenzene | ND | ug/kg | 68. | | | |
| Hexachloroethane | ND | ug/kg | 68. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 36.0 | % | 25-120 | | | |
| Phenol-d6 | 41.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 37.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 36.0 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 43.0 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 47.0 | % | 18-120 | | | |
| Polychlorinated Biphenyls by EPA 8082 | | | | 1 8082 | 0906 12:00 0909 21:27 SH | |
| Aroclor 1016 | ND | ug/kg | 42.7 | | | |
| Aroclor 1221 | ND | ug/kg | 42.7 | | | |
| Aroclor 1232 | ND | ug/kg | 42.7 | | | |
| Aroclor 1242 | ND | ug/kg | 42.7 | | | |
| Aroclor 1248 | ND | ug/kg | 42.7 | | | |
| Aroclor 1254 | ND | ug/kg | 42.7 | | | |
| Aroclor 1260 | ND | ug/kg | 42.7 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 66.0 | % | 30-150 | | | |
| Decachlorobiphenyl | 58.0 | % | 30-150 | | | |
| Organochlorine Pesticides by EPA 8081A | | | | 1 8081A | 0906 10:30 0910 20:56 SS | |
| Delta-BHC | ND | ug/kg | 4.27 | | | |
| Lindane | ND | ug/kg | 4.27 | | | |
| Alpha-BHC | ND | ug/kg | 4.27 | | | |
| Beta-BHC | ND | ug/kg | 4.27 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-30
PWG.SB.2008.10@5-10'

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---|----------|-------|-------------|------------|------------|------------|----|
| | | | | | PREP | ANAL | |
| | | | | | | | |
| Organochlorine Pesticides by EPA 8081A cont'd | | | | 1 8081A | 0906 10:30 | 0910 20:56 | SS |
| Heptachlor | ND | ug/kg | 4.27 | | | | |
| Aldrin | ND | ug/kg | 4.27 | | | | |
| Heptachlor epoxide | ND | ug/kg | 4.27 | | | | |
| Endrin | ND | ug/kg | 4.27 | | | | |
| Endrin ketone | ND | ug/kg | 4.27 | | | | |
| Dieldrin | ND | ug/kg | 4.27 | | | | |
| 4,4'-DDE | ND | ug/kg | 4.27 | | | | |
| 4,4'-DDD | ND | ug/kg | 4.27 | | | | |
| 4,4'-DDT | ND | ug/kg | 4.27 | | | | |
| Endosulfan I | ND | ug/kg | 4.27 | | | | |
| Endosulfan II | ND | ug/kg | 4.27 | | | | |
| Endosulfan sulfate | ND | ug/kg | 4.27 | | | | |
| Methoxychlor | ND | ug/kg | 17.1 | | | | |
| trans-Chlordane | ND | ug/kg | 4.27 | | | | |
| Chlordane | ND | ug/kg | 42.7 | | | | |
| | | | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 52.0 | % | 30-150 | | | | |
| Decachlorobiphenyl | 83.0 | % | 30-150 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0813196-31 | Date Collected: 05-SEP-2008 09:55 |
| PWG.SB.2008.10@10-15' | Date Received : 05-SEP-2008 |
| Sample Matrix: SOIL | Date Reported : 15-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 1-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-------------------|----|
| Solids, Total | 81 | % | 0.10 | 30 2540G | 0911 15:15 | SD |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0907 00:58 | PD |
| Methylene chloride | ND | ug/kg | 31. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 4.6 | | | |
| Chloroform | ND | ug/kg | 4.6 | | | |
| Carbon tetrachloride | ND | ug/kg | 3.1 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 11. | | | |
| Dibromochloromethane | ND | ug/kg | 3.1 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 4.6 | | | |
| Tetrachloroethene | 45 | ug/kg | 3.1 | | | |
| Chlorobenzene | ND | ug/kg | 3.1 | | | |
| Trichlorofluoromethane | ND | ug/kg | 15. | | | |
| 1,2-Dichloroethane | ND | ug/kg | 3.1 | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 3.1 | | | |
| Bromodichloromethane | ND | ug/kg | 3.1 | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 3.1 | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 3.1 | | | |
| 1,1-Dichloropropene | ND | ug/kg | 15. | | | |
| Bromoform | ND | ug/kg | 12. | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 3.1 | | | |
| Benzene | ND | ug/kg | 3.1 | | | |
| Toluene | ND | ug/kg | 4.6 | | | |
| Ethylbenzene | ND | ug/kg | 3.1 | | | |
| Chloromethane | ND | ug/kg | 15. | | | |
| Bromomethane | ND | ug/kg | 6.2 | | | |
| Vinyl chloride | ND | ug/kg | 6.2 | | | |
| Chloroethane | ND | ug/kg | 6.2 | | | |
| 1,1-Dichloroethene | ND | ug/kg | 3.1 | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 4.6 | | | |
| Trichloroethene | ND | ug/kg | 3.1 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 15. | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 15. | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 15. | | | |
| Methyl tert butyl ether | ND | ug/kg | 6.2 | | | |
| p/m-Xylene | ND | ug/kg | 6.2 | | | |
| o-Xylene | ND | ug/kg | 6.2 | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 3.1 | | | |
| Dibromomethane | ND | ug/kg | 31. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-31
PWG.SB.2008.10@10-15'

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|------------|-------|---------------|----|
| | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0907 00:58 PD | |
| Styrene | ND | ug/kg | 6.2 | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 31. | | | | |
| Acetone | ND | ug/kg | 31. | | | | |
| Carbon disulfide | ND | ug/kg | 31. | | | | |
| 2-Butanone | ND | ug/kg | 31. | | | | |
| Vinyl acetate | ND | ug/kg | 31. | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 31. | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 31. | | | | |
| 2-Hexanone | ND | ug/kg | 31. | | | | |
| Bromochloromethane | ND | ug/kg | 15. | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 15. | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 12. | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 15. | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 3.1 | | | | |
| Bromobenzene | ND | ug/kg | 15. | | | | |
| n-Butylbenzene | ND | ug/kg | 3.1 | | | | |
| sec-Butylbenzene | ND | ug/kg | 3.1 | | | | |
| tert-Butylbenzene | ND | ug/kg | 15. | | | | |
| o-Chlorotoluene | ND | ug/kg | 15. | | | | |
| p-Chlorotoluene | ND | ug/kg | 15. | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 15. | | | | |
| Hexachlorobutadiene | ND | ug/kg | 15. | | | | |
| Isopropylbenzene | ND | ug/kg | 3.1 | | | | |
| p-Isopropyltoluene | ND | ug/kg | 3.1 | | | | |
| Naphthalene | ND | ug/kg | 15. | | | | |
| Acrylonitrile | ND | ug/kg | 31. | | | | |
| n-Propylbenzene | ND | ug/kg | 3.1 | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 15. | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 15. | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 15. | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 15. | | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 12. | | | | |
| 4-Ethyltoluene | ND | ug/kg | 12. | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 12. | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | |
| 1,2-Dichloroethane-d4 | 116 | % | 70-130 | | | | |
| Toluene-d8 | 112 | % | 70-130 | | | | |
| 4-Bromofluorobenzene | 125 | % | 70-130 | | | | |
| Dibromofluoromethane | 105 | % | 70-130 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0813196-32 | Date Collected: 05-SEP-2008 10:55 |
| PWG.SB.2008.09@5-10' | Date Received : 05-SEP-2008 |
| Sample Matrix: SOIL | Date Reported : 15-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 1-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-------------------|----|
| Solids, Total | 92 | % | 0.10 | 30 2540G | 0911 15:15 | SD |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0907 01:35 | PD |
| Methylene chloride | ND | ug/kg | 27. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 4.1 | | | |
| Chloroform | ND | ug/kg | 4.1 | | | |
| Carbon tetrachloride | ND | ug/kg | 2.7 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 9.5 | | | |
| Dibromochloromethane | ND | ug/kg | 2.7 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 4.1 | | | |
| Tetrachloroethene | ND | ug/kg | 2.7 | | | |
| Chlorobenzene | ND | ug/kg | 2.7 | | | |
| Trichlorofluoromethane | ND | ug/kg | 14. | | | |
| 1,2-Dichloroethane | ND | ug/kg | 2.7 | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 2.7 | | | |
| Bromodichloromethane | ND | ug/kg | 2.7 | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 2.7 | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 2.7 | | | |
| 1,1-Dichloropropene | ND | ug/kg | 14. | | | |
| Bromoform | ND | ug/kg | 11. | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 2.7 | | | |
| Benzene | ND | ug/kg | 2.7 | | | |
| Toluene | ND | ug/kg | 4.1 | | | |
| Ethylbenzene | ND | ug/kg | 2.7 | | | |
| Chloromethane | ND | ug/kg | 14. | | | |
| Bromomethane | ND | ug/kg | 5.4 | | | |
| Vinyl chloride | ND | ug/kg | 5.4 | | | |
| Chloroethane | ND | ug/kg | 5.4 | | | |
| 1,1-Dichloroethene | ND | ug/kg | 2.7 | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 4.1 | | | |
| Trichloroethene | ND | ug/kg | 2.7 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 14. | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 14. | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 14. | | | |
| Methyl tert butyl ether | ND | ug/kg | 5.4 | | | |
| p/m-Xylene | ND | ug/kg | 5.4 | | | |
| o-Xylene | ND | ug/kg | 5.4 | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 2.7 | | | |
| Dibromomethane | ND | ug/kg | 27. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-32
PWG.SB.2008.09@5-10'

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|------------|-------|---------------|----|
| | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0907 01:35 PD | |
| Styrene | ND | ug/kg | 5.4 | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 27. | | | | |
| Acetone | ND | ug/kg | 27. | | | | |
| Carbon disulfide | ND | ug/kg | 27. | | | | |
| 2-Butanone | ND | ug/kg | 27. | | | | |
| Vinyl acetate | ND | ug/kg | 27. | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 27. | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 27. | | | | |
| 2-Hexanone | ND | ug/kg | 27. | | | | |
| Bromochloromethane | ND | ug/kg | 14. | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 14. | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 11. | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 14. | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 2.7 | | | | |
| Bromobenzene | ND | ug/kg | 14. | | | | |
| n-Butylbenzene | ND | ug/kg | 2.7 | | | | |
| sec-Butylbenzene | ND | ug/kg | 2.7 | | | | |
| tert-Butylbenzene | ND | ug/kg | 14. | | | | |
| o-Chlorotoluene | ND | ug/kg | 14. | | | | |
| p-Chlorotoluene | ND | ug/kg | 14. | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 14. | | | | |
| Hexachlorobutadiene | ND | ug/kg | 14. | | | | |
| Isopropylbenzene | ND | ug/kg | 2.7 | | | | |
| p-Isopropyltoluene | ND | ug/kg | 2.7 | | | | |
| Naphthalene | ND | ug/kg | 14. | | | | |
| Acrylonitrile | ND | ug/kg | 27. | | | | |
| n-Propylbenzene | ND | ug/kg | 2.7 | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 14. | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 14. | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 14. | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 14. | | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 11. | | | | |
| 4-Ethyltoluene | ND | ug/kg | 11. | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 11. | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | |
| 1,2-Dichloroethane-d4 | 117 | % | 70-130 | | | | |
| Toluene-d8 | 110 | % | 70-130 | | | | |
| 4-Bromofluorobenzene | 129 | % | 70-130 | | | | |
| Dibromofluoromethane | 106 | % | 70-130 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0813196-33 **Date Collected:** 05-SEP-2008 11:15
Sample Matrix: PWG.SB.2008.09@15-20' (MS/MSD) **Date Received :** 05-SEP-2008
Condition of Sample: SOIL **Date Reported :** 15-SEP-2008
Field Prep: None
Number & Type of Containers: 3-Vial

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-------------------|----|
| Solids, Total | 84 | % | 0.10 | 30 2540G | 0911 15:15 | SD |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0908 13:36 | PD |
| Methylene chloride | ND | ug/kg | 30. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 4.5 | | | |
| Chloroform | ND | ug/kg | 4.5 | | | |
| Carbon tetrachloride | ND | ug/kg | 3.0 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 10. | | | |
| Dibromochloromethane | ND | ug/kg | 3.0 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 4.5 | | | |
| Tetrachloroethene | ND | ug/kg | 3.0 | | | |
| Chlorobenzene | ND | ug/kg | 3.0 | | | |
| Trichlorofluoromethane | ND | ug/kg | 15. | | | |
| 1,2-Dichloroethane | ND | ug/kg | 3.0 | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 3.0 | | | |
| Bromodichloromethane | ND | ug/kg | 3.0 | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 3.0 | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 3.0 | | | |
| 1,1-Dichloropropene | ND | ug/kg | 15. | | | |
| Bromoform | ND | ug/kg | 12. | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 3.0 | | | |
| Benzene | ND | ug/kg | 3.0 | | | |
| Toluene | ND | ug/kg | 4.5 | | | |
| Ethylbenzene | ND | ug/kg | 3.0 | | | |
| Chloromethane | ND | ug/kg | 15. | | | |
| Bromomethane | ND | ug/kg | 6.0 | | | |
| Vinyl chloride | ND | ug/kg | 6.0 | | | |
| Chloroethane | ND | ug/kg | 6.0 | | | |
| 1,1-Dichloroethene | ND | ug/kg | 3.0 | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 4.5 | | | |
| Trichloroethene | ND | ug/kg | 3.0 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 15. | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 15. | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 15. | | | |
| Methyl tert butyl ether | ND | ug/kg | 6.0 | | | |
| p/m-Xylene | ND | ug/kg | 6.0 | | | |
| o-Xylene | ND | ug/kg | 6.0 | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 3.0 | | | |
| Dibromomethane | ND | ug/kg | 30. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-33

PWG.SB.2008.09@15-20' (MS/MSD)

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|------------|-------|---------------|----|
| | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0908 13:36 PD | |
| Styrene | ND | ug/kg | 6.0 | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 30. | | | | |
| Acetone | ND | ug/kg | 30. | | | | |
| Carbon disulfide | ND | ug/kg | 30. | | | | |
| 2-Butanone | ND | ug/kg | 30. | | | | |
| Vinyl acetate | ND | ug/kg | 30. | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 30. | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 30. | | | | |
| 2-Hexanone | ND | ug/kg | 30. | | | | |
| Bromochloromethane | ND | ug/kg | 15. | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 15. | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 12. | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 15. | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 3.0 | | | | |
| Bromobenzene | ND | ug/kg | 15. | | | | |
| n-Butylbenzene | ND | ug/kg | 3.0 | | | | |
| sec-Butylbenzene | ND | ug/kg | 3.0 | | | | |
| tert-Butylbenzene | ND | ug/kg | 15. | | | | |
| o-Chlorotoluene | ND | ug/kg | 15. | | | | |
| p-Chlorotoluene | ND | ug/kg | 15. | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 15. | | | | |
| Hexachlorobutadiene | ND | ug/kg | 15. | | | | |
| Isopropylbenzene | ND | ug/kg | 3.0 | | | | |
| p-Isopropyltoluene | ND | ug/kg | 3.0 | | | | |
| Naphthalene | ND | ug/kg | 15. | | | | |
| Acrylonitrile | ND | ug/kg | 30. | | | | |
| n-Propylbenzene | ND | ug/kg | 3.0 | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 15. | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 15. | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 15. | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 15. | | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 12. | | | | |
| 4-Ethyltoluene | ND | ug/kg | 12. | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 12. | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | |
| 1,2-Dichloroethane-d4 | 125 | % | 70-130 | | | | |
| Toluene-d8 | 121 | % | 70-130 | | | | |
| 4-Bromofluorobenzene | 140 | % | 70-130 | | | | |
| Dibromofluoromethane | 119 | % | 70-130 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0813196-34 | Date Collected: 05-SEP-2008 11:30 |
| PWG.SB.2008.11@5-10' | Date Received : 05-SEP-2008 |
| Sample Matrix: SOIL | Date Reported : 15-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 1-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-------------------|----|
| Solids, Total | 94 | % | 0.10 | 30 2540G | 0911 15:15 | SD |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0908 15:25 | PD |
| Methylene chloride | ND | ug/kg | 26. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 4.0 | | | |
| Chloroform | ND | ug/kg | 4.0 | | | |
| Carbon tetrachloride | ND | ug/kg | 2.6 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 9.3 | | | |
| Dibromochloromethane | ND | ug/kg | 2.6 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 4.0 | | | |
| Tetrachloroethene | ND | ug/kg | 2.6 | | | |
| Chlorobenzene | ND | ug/kg | 2.6 | | | |
| Trichlorofluoromethane | ND | ug/kg | 13. | | | |
| 1,2-Dichloroethane | ND | ug/kg | 2.6 | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 2.6 | | | |
| Bromodichloromethane | ND | ug/kg | 2.6 | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 2.6 | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 2.6 | | | |
| 1,1-Dichloropropene | ND | ug/kg | 13. | | | |
| Bromoform | ND | ug/kg | 11. | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 2.6 | | | |
| Benzene | ND | ug/kg | 2.6 | | | |
| Toluene | ND | ug/kg | 4.0 | | | |
| Ethylbenzene | ND | ug/kg | 2.6 | | | |
| Chloromethane | ND | ug/kg | 13. | | | |
| Bromomethane | ND | ug/kg | 5.3 | | | |
| Vinyl chloride | ND | ug/kg | 5.3 | | | |
| Chloroethane | ND | ug/kg | 5.3 | | | |
| 1,1-Dichloroethene | ND | ug/kg | 2.6 | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 4.0 | | | |
| Trichloroethene | ND | ug/kg | 2.6 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 13. | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 13. | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 13. | | | |
| Methyl tert butyl ether | ND | ug/kg | 5.3 | | | |
| p/m-Xylene | ND | ug/kg | 5.3 | | | |
| o-Xylene | ND | ug/kg | 5.3 | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 2.6 | | | |
| Dibromomethane | ND | ug/kg | 26. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-34
PWG.SB.2008.11@5-10'

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|------------|-------|---------------|----|
| | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0908 15:25 PD | |
| Styrene | ND | ug/kg | 5.3 | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 26. | | | | |
| Acetone | ND | ug/kg | 26. | | | | |
| Carbon disulfide | ND | ug/kg | 26. | | | | |
| 2-Butanone | ND | ug/kg | 26. | | | | |
| Vinyl acetate | ND | ug/kg | 26. | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 26. | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 26. | | | | |
| 2-Hexanone | ND | ug/kg | 26. | | | | |
| Bromochloromethane | ND | ug/kg | 13. | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 13. | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 11. | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 13. | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 2.6 | | | | |
| Bromobenzene | ND | ug/kg | 13. | | | | |
| n-Butylbenzene | ND | ug/kg | 2.6 | | | | |
| sec-Butylbenzene | ND | ug/kg | 2.6 | | | | |
| tert-Butylbenzene | ND | ug/kg | 13. | | | | |
| o-Chlorotoluene | ND | ug/kg | 13. | | | | |
| p-Chlorotoluene | ND | ug/kg | 13. | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 13. | | | | |
| Hexachlorobutadiene | ND | ug/kg | 13. | | | | |
| Isopropylbenzene | ND | ug/kg | 2.6 | | | | |
| p-Isopropyltoluene | ND | ug/kg | 2.6 | | | | |
| Naphthalene | ND | ug/kg | 13. | | | | |
| Acrylonitrile | ND | ug/kg | 26. | | | | |
| n-Propylbenzene | ND | ug/kg | 2.6 | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 13. | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 13. | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 13. | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 13. | | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 11. | | | | |
| 4-Ethyltoluene | ND | ug/kg | 11. | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 11. | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | |
| 1,2-Dichloroethane-d4 | 102 | % | 70-130 | | | | |
| Toluene-d8 | 102 | % | 70-130 | | | | |
| 4-Bromofluorobenzene | 113 | % | 70-130 | | | | |
| Dibromofluoromethane | 95.0 | % | 70-130 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | | | |
|-------------------------------------|-----------------------|-----------------|-------------------|
| Laboratory Sample Number: | L0813196-35 | Date Collected: | 05-SEP-2008 11:45 |
| | PWG.SB.2008.11@15-20' | Date Received : | 05-SEP-2008 |
| Sample Matrix: | SOIL | Date Reported : | 15-SEP-2008 |
| Condition of Sample: | Satisfactory | Field Prep: | None |
| Number & Type of Containers: 1-Vial | | | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-------------------|----|
| Solids, Total | 76 | % | 0.10 | 30 2540G | 0911 15:15 | SD |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0908 16:02 | PD |
| Methylene chloride | ND | ug/kg | 33. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 4.9 | | | |
| Chloroform | ND | ug/kg | 4.9 | | | |
| Carbon tetrachloride | ND | ug/kg | 3.3 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 12. | | | |
| Dibromochloromethane | ND | ug/kg | 3.3 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 4.9 | | | |
| Tetrachloroethene | ND | ug/kg | 3.3 | | | |
| Chlorobenzene | ND | ug/kg | 3.3 | | | |
| Trichlorofluoromethane | ND | ug/kg | 16. | | | |
| 1,2-Dichloroethane | ND | ug/kg | 3.3 | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 3.3 | | | |
| Bromodichloromethane | ND | ug/kg | 3.3 | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 3.3 | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 3.3 | | | |
| 1,1-Dichloropropene | ND | ug/kg | 16. | | | |
| Bromoform | ND | ug/kg | 13. | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 3.3 | | | |
| Benzene | ND | ug/kg | 3.3 | | | |
| Toluene | ND | ug/kg | 4.9 | | | |
| Ethylbenzene | ND | ug/kg | 3.3 | | | |
| Chloromethane | ND | ug/kg | 16. | | | |
| Bromomethane | ND | ug/kg | 6.6 | | | |
| Vinyl chloride | ND | ug/kg | 6.6 | | | |
| Chloroethane | ND | ug/kg | 6.6 | | | |
| 1,1-Dichloroethene | ND | ug/kg | 3.3 | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 4.9 | | | |
| Trichloroethene | ND | ug/kg | 3.3 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 16. | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 16. | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 16. | | | |
| Methyl tert butyl ether | ND | ug/kg | 6.6 | | | |
| p/m-Xylene | ND | ug/kg | 6.6 | | | |
| o-Xylene | ND | ug/kg | 6.6 | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 3.3 | | | |
| Dibromomethane | ND | ug/kg | 33. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-35
PWG.SB.2008.11@15-20'

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|------------|-------|---------------|----|
| | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0908 16:02 PD | |
| Styrene | ND | ug/kg | 6.6 | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 33. | | | | |
| Acetone | ND | ug/kg | 33. | | | | |
| Carbon disulfide | ND | ug/kg | 33. | | | | |
| 2-Butanone | ND | ug/kg | 33. | | | | |
| Vinyl acetate | ND | ug/kg | 33. | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 33. | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 33. | | | | |
| 2-Hexanone | ND | ug/kg | 33. | | | | |
| Bromochloromethane | ND | ug/kg | 16. | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 16. | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 13. | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 16. | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 3.3 | | | | |
| Bromobenzene | ND | ug/kg | 16. | | | | |
| n-Butylbenzene | ND | ug/kg | 3.3 | | | | |
| sec-Butylbenzene | ND | ug/kg | 3.3 | | | | |
| tert-Butylbenzene | ND | ug/kg | 16. | | | | |
| o-Chlorotoluene | ND | ug/kg | 16. | | | | |
| p-Chlorotoluene | ND | ug/kg | 16. | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 16. | | | | |
| Hexachlorobutadiene | ND | ug/kg | 16. | | | | |
| Isopropylbenzene | ND | ug/kg | 3.3 | | | | |
| p-Isopropyltoluene | ND | ug/kg | 3.3 | | | | |
| Naphthalene | ND | ug/kg | 16. | | | | |
| Acrylonitrile | ND | ug/kg | 33. | | | | |
| n-Propylbenzene | ND | ug/kg | 3.3 | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 16. | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 16. | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 16. | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 16. | | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 13. | | | | |
| 4-Ethyltoluene | ND | ug/kg | 13. | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 13. | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | |
| 1,2-Dichloroethane-d4 | 134 | % | 70-130 | | | | |
| Toluene-d8 | 129 | % | 70-130 | | | | |
| 4-Bromofluorobenzene | 139 | % | 70-130 | | | | |
| Dibromofluoromethane | 122 | % | 70-130 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0813196-36 | Date Collected: 05-SEP-2008 12:25 |
| PWG.SB.2008.12@5-10' | Date Received : 05-SEP-2008 |
| Sample Matrix: SOIL | Date Reported : 15-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 1-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-------------------|----|
| Solids, Total | 88 | % | 0.10 | 30 2540G | 0911 15:15 | SD |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0908 16:39 | PD |
| Methylene chloride | ND | ug/kg | 28. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 4.3 | | | |
| Chloroform | ND | ug/kg | 4.3 | | | |
| Carbon tetrachloride | ND | ug/kg | 2.8 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 9.9 | | | |
| Dibromochloromethane | ND | ug/kg | 2.8 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 4.3 | | | |
| Tetrachloroethene | ND | ug/kg | 2.8 | | | |
| Chlorobenzene | ND | ug/kg | 2.8 | | | |
| Trichlorofluoromethane | ND | ug/kg | 14. | | | |
| 1,2-Dichloroethane | ND | ug/kg | 2.8 | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 2.8 | | | |
| Bromodichloromethane | ND | ug/kg | 2.8 | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 2.8 | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 2.8 | | | |
| 1,1-Dichloropropene | ND | ug/kg | 14. | | | |
| Bromoform | ND | ug/kg | 11. | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 2.8 | | | |
| Benzene | ND | ug/kg | 2.8 | | | |
| Toluene | ND | ug/kg | 4.3 | | | |
| Ethylbenzene | ND | ug/kg | 2.8 | | | |
| Chloromethane | ND | ug/kg | 14. | | | |
| Bromomethane | ND | ug/kg | 5.7 | | | |
| Vinyl chloride | ND | ug/kg | 5.7 | | | |
| Chloroethane | ND | ug/kg | 5.7 | | | |
| 1,1-Dichloroethene | ND | ug/kg | 2.8 | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 4.3 | | | |
| Trichloroethene | ND | ug/kg | 2.8 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 14. | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 14. | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 14. | | | |
| Methyl tert butyl ether | ND | ug/kg | 5.7 | | | |
| p/m-Xylene | ND | ug/kg | 5.7 | | | |
| o-Xylene | ND | ug/kg | 5.7 | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 2.8 | | | |
| Dibromomethane | ND | ug/kg | 28. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-36
PWG.SB.2008.12@5-10'

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|------------|-------|---------------|----|
| | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0908 16:39 PD | |
| Styrene | ND | ug/kg | 5.7 | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 28. | | | | |
| Acetone | ND | ug/kg | 28. | | | | |
| Carbon disulfide | ND | ug/kg | 28. | | | | |
| 2-Butanone | ND | ug/kg | 28. | | | | |
| Vinyl acetate | ND | ug/kg | 28. | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 28. | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 28. | | | | |
| 2-Hexanone | ND | ug/kg | 28. | | | | |
| Bromochloromethane | ND | ug/kg | 14. | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 14. | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 11. | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 14. | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 2.8 | | | | |
| Bromobenzene | ND | ug/kg | 14. | | | | |
| n-Butylbenzene | ND | ug/kg | 2.8 | | | | |
| sec-Butylbenzene | ND | ug/kg | 2.8 | | | | |
| tert-Butylbenzene | ND | ug/kg | 14. | | | | |
| o-Chlorotoluene | ND | ug/kg | 14. | | | | |
| p-Chlorotoluene | ND | ug/kg | 14. | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 14. | | | | |
| Hexachlorobutadiene | ND | ug/kg | 14. | | | | |
| Isopropylbenzene | ND | ug/kg | 2.8 | | | | |
| p-Isopropyltoluene | ND | ug/kg | 2.8 | | | | |
| Naphthalene | ND | ug/kg | 14. | | | | |
| Acrylonitrile | ND | ug/kg | 28. | | | | |
| n-Propylbenzene | ND | ug/kg | 2.8 | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 14. | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 14. | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 14. | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 14. | | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 11. | | | | |
| 4-Ethyltoluene | ND | ug/kg | 11. | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 11. | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | |
| 1,2-Dichloroethane-d4 | 109 | % | 70-130 | | | | |
| Toluene-d8 | 105 | % | 70-130 | | | | |
| 4-Bromofluorobenzene | 122 | % | 70-130 | | | | |
| Dibromofluoromethane | 102 | % | 70-130 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0813196-37 | Date Collected: 05-SEP-2008 12:25 |
| PWG.SB.2008.22@5-10' | Date Received : 05-SEP-2008 |
| Sample Matrix: SOIL | Date Reported : 15-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 1-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-------------------|----|
| Solids, Total | 93 | % | 0.10 | 30 2540G | 0911 15:15 | SD |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0908 17:15 | PD |
| Methylene chloride | ND | ug/kg | 27. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 4.0 | | | |
| Chloroform | ND | ug/kg | 4.0 | | | |
| Carbon tetrachloride | ND | ug/kg | 2.7 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 9.4 | | | |
| Dibromochloromethane | ND | ug/kg | 2.7 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 4.0 | | | |
| Tetrachloroethene | ND | ug/kg | 2.7 | | | |
| Chlorobenzene | ND | ug/kg | 2.7 | | | |
| Trichlorofluoromethane | ND | ug/kg | 13. | | | |
| 1,2-Dichloroethane | ND | ug/kg | 2.7 | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 2.7 | | | |
| Bromodichloromethane | ND | ug/kg | 2.7 | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 2.7 | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 2.7 | | | |
| 1,1-Dichloropropene | ND | ug/kg | 13. | | | |
| Bromoform | ND | ug/kg | 11. | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 2.7 | | | |
| Benzene | ND | ug/kg | 2.7 | | | |
| Toluene | ND | ug/kg | 4.0 | | | |
| Ethylbenzene | ND | ug/kg | 2.7 | | | |
| Chloromethane | ND | ug/kg | 13. | | | |
| Bromomethane | ND | ug/kg | 5.4 | | | |
| Vinyl chloride | ND | ug/kg | 5.4 | | | |
| Chloroethane | ND | ug/kg | 5.4 | | | |
| 1,1-Dichloroethene | ND | ug/kg | 2.7 | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 4.0 | | | |
| Trichloroethene | ND | ug/kg | 2.7 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 13. | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 13. | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 13. | | | |
| Methyl tert butyl ether | ND | ug/kg | 5.4 | | | |
| p/m-Xylene | ND | ug/kg | 5.4 | | | |
| o-Xylene | ND | ug/kg | 5.4 | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 2.7 | | | |
| Dibromomethane | ND | ug/kg | 27. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-37
PWG.SB.2008.22@5-10'

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|------------|-------|---------------|----|
| | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0908 17:15 PD | |
| Styrene | ND | ug/kg | 5.4 | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 27. | | | | |
| Acetone | ND | ug/kg | 27. | | | | |
| Carbon disulfide | ND | ug/kg | 27. | | | | |
| 2-Butanone | ND | ug/kg | 27. | | | | |
| Vinyl acetate | ND | ug/kg | 27. | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 27. | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 27. | | | | |
| 2-Hexanone | ND | ug/kg | 27. | | | | |
| Bromochloromethane | ND | ug/kg | 13. | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 13. | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 11. | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 13. | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 2.7 | | | | |
| Bromobenzene | ND | ug/kg | 13. | | | | |
| n-Butylbenzene | ND | ug/kg | 2.7 | | | | |
| sec-Butylbenzene | ND | ug/kg | 2.7 | | | | |
| tert-Butylbenzene | ND | ug/kg | 13. | | | | |
| o-Chlorotoluene | ND | ug/kg | 13. | | | | |
| p-Chlorotoluene | ND | ug/kg | 13. | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 13. | | | | |
| Hexachlorobutadiene | ND | ug/kg | 13. | | | | |
| Isopropylbenzene | ND | ug/kg | 2.7 | | | | |
| p-Isopropyltoluene | ND | ug/kg | 2.7 | | | | |
| Naphthalene | ND | ug/kg | 13. | | | | |
| Acrylonitrile | ND | ug/kg | 27. | | | | |
| n-Propylbenzene | ND | ug/kg | 2.7 | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 13. | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 13. | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 13. | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 13. | | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 11. | | | | |
| 4-Ethyltoluene | ND | ug/kg | 11. | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 11. | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | |
| 1,2-Dichloroethane-d4 | 109 | % | 70-130 | | | | |
| Toluene-d8 | 105 | % | 70-130 | | | | |
| 4-Bromofluorobenzene | 120 | % | 70-130 | | | | |
| Dibromofluoromethane | 103 | % | 70-130 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | | | |
|-------------------------------------|-----------------------|-----------------|-------------------|
| Laboratory Sample Number: | L0813196-38 | Date Collected: | 05-SEP-2008 12:40 |
| | PWG.SB.2008.12@10-15' | Date Received : | 05-SEP-2008 |
| Sample Matrix: | SOIL | Date Reported : | 15-SEP-2008 |
| Condition of Sample: | Satisfactory | Field Prep: | None |
| Number & Type of Containers: 1-Vial | | | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-------------------|----|
| Solids, Total | 81 | % | 0.10 | 30 2540G | 0911 15:15 | SD |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0908 17:52 | PD |
| Methylene chloride | ND | ug/kg | 31. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 4.6 | | | |
| Chloroform | ND | ug/kg | 4.6 | | | |
| Carbon tetrachloride | ND | ug/kg | 3.1 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 11. | | | |
| Dibromochloromethane | ND | ug/kg | 3.1 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 4.6 | | | |
| Tetrachloroethene | ND | ug/kg | 3.1 | | | |
| Chlorobenzene | ND | ug/kg | 3.1 | | | |
| Trichlorofluoromethane | ND | ug/kg | 15. | | | |
| 1,2-Dichloroethane | ND | ug/kg | 3.1 | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 3.1 | | | |
| Bromodichloromethane | ND | ug/kg | 3.1 | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 3.1 | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 3.1 | | | |
| 1,1-Dichloropropene | ND | ug/kg | 15. | | | |
| Bromoform | ND | ug/kg | 12. | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 3.1 | | | |
| Benzene | ND | ug/kg | 3.1 | | | |
| Toluene | ND | ug/kg | 4.6 | | | |
| Ethylbenzene | ND | ug/kg | 3.1 | | | |
| Chloromethane | ND | ug/kg | 15. | | | |
| Bromomethane | ND | ug/kg | 6.2 | | | |
| Vinyl chloride | ND | ug/kg | 6.2 | | | |
| Chloroethane | ND | ug/kg | 6.2 | | | |
| 1,1-Dichloroethene | ND | ug/kg | 3.1 | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 4.6 | | | |
| Trichloroethene | ND | ug/kg | 3.1 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 15. | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 15. | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 15. | | | |
| Methyl tert butyl ether | ND | ug/kg | 6.2 | | | |
| p/m-Xylene | ND | ug/kg | 6.2 | | | |
| o-Xylene | ND | ug/kg | 6.2 | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 3.1 | | | |
| Dibromomethane | ND | ug/kg | 31. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-38
PWG.SB.2008.12@10-15'

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|-------------------|----|
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0908 17:52 PD | |
| Styrene | ND | ug/kg | 6.2 | | | |
| Dichlorodifluoromethane | ND | ug/kg | 31. | | | |
| Acetone | ND | ug/kg | 31. | | | |
| Carbon disulfide | ND | ug/kg | 31. | | | |
| 2-Butanone | ND | ug/kg | 31. | | | |
| Vinyl acetate | ND | ug/kg | 31. | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 31. | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 31. | | | |
| 2-Hexanone | ND | ug/kg | 31. | | | |
| Bromochloromethane | ND | ug/kg | 15. | | | |
| 2,2-Dichloropropane | ND | ug/kg | 15. | | | |
| 1,2-Dibromoethane | ND | ug/kg | 12. | | | |
| 1,3-Dichloropropane | ND | ug/kg | 15. | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 3.1 | | | |
| Bromobenzene | ND | ug/kg | 15. | | | |
| n-Butylbenzene | ND | ug/kg | 3.1 | | | |
| sec-Butylbenzene | ND | ug/kg | 3.1 | | | |
| tert-Butylbenzene | ND | ug/kg | 15. | | | |
| o-Chlorotoluene | ND | ug/kg | 15. | | | |
| p-Chlorotoluene | ND | ug/kg | 15. | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 15. | | | |
| Hexachlorobutadiene | ND | ug/kg | 15. | | | |
| Isopropylbenzene | ND | ug/kg | 3.1 | | | |
| p-Isopropyltoluene | ND | ug/kg | 3.1 | | | |
| Naphthalene | ND | ug/kg | 15. | | | |
| Acrylonitrile | ND | ug/kg | 31. | | | |
| n-Propylbenzene | ND | ug/kg | 3.1 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 15. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 15. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 15. | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 15. | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 12. | | | |
| 4-Ethyltoluene | ND | ug/kg | 12. | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 12. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 110 | % | 70-130 | | | |
| Toluene-d8 | 104 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 117 | % | 70-130 | | | |
| Dibromofluoromethane | 100 | % | 70-130 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0813196-39 | Date Collected: 05-SEP-2008 12:25 |
| FB090508 (SOIL) | Date Received : 05-SEP-2008 |
| Sample Matrix: WATER | Date Reported : 15-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 2-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-------------------|----|
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0910 22:10 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | |
| Chloroform | ND | ug/l | 0.75 | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | |
| Tetrachloroethene | ND | ug/l | 0.50 | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | |
| Bromoform | ND | ug/l | 2.0 | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Benzene | ND | ug/l | 0.50 | | | |
| Toluene | ND | ug/l | 0.75 | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | |
| Chloromethane | ND | ug/l | 2.5 | | | |
| Bromomethane | ND | ug/l | 1.0 | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | |
| Chloroethane | ND | ug/l | 1.0 | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | |
| Trichloroethene | ND | ug/l | 0.50 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| Methyl tert butyl ether | ND | ug/l | 1.0 | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | |
| o-Xylene | ND | ug/l | 1.0 | | | |
| cis-1,2-Dichloroethene | ND | ug/l | 0.50 | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-39
FB090508 (SOIL)

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0910 22:10 PD | | |
| Styrene | ND | ug/l | 1.0 | | | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | | | |
| Acetone | ND | ug/l | 5.0 | | | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | | | |
| 2-Butanone | ND | ug/l | 5.0 | | | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | | | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | | | |
| Naphthalene | ND | ug/l | 2.5 | | | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 1,2-Dichloroethane-d4 | 101 | % | 70-130 | | | | | |
| Toluene-d8 | 101 | % | 70-130 | | | | | |
| 4-Bromofluorobenzene | 101 | % | 70-130 | | | | | |
| Dibromofluoromethane | 97.0 | % | 70-130 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|---------------------------------------|-----------------------------------|
| Laboratory Sample Number: L0813196-40 | Date Collected: 04-SEP-2008 13:10 |
| FB090408 (SOIL) | Date Received : 05-SEP-2008 |
| Sample Matrix: WATER | Date Reported : 15-SEP-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 2-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-------------------|----|
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0910 20:57 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | |
| Chloroform | ND | ug/l | 0.75 | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | |
| Tetrachloroethene | ND | ug/l | 0.50 | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | |
| Bromoform | ND | ug/l | 2.0 | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Benzene | ND | ug/l | 0.50 | | | |
| Toluene | ND | ug/l | 0.75 | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | |
| Chloromethane | ND | ug/l | 2.5 | | | |
| Bromomethane | ND | ug/l | 1.0 | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | |
| Chloroethane | ND | ug/l | 1.0 | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | |
| Trichloroethene | ND | ug/l | 0.50 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| Methyl tert butyl ether | ND | ug/l | 1.0 | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | |
| o-Xylene | ND | ug/l | 1.0 | | | |
| cis-1,2-Dichloroethene | ND | ug/l | 0.50 | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0813196-40
FB090408 (SOIL)

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0910 20:57 PD | | |
| Styrene | ND | ug/l | 1.0 | | | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | | | |
| Acetone | ND | ug/l | 5.0 | | | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | | | |
| 2-Butanone | ND | ug/l | 5.0 | | | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | | | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | | | |
| Naphthalene | ND | ug/l | 2.5 | | | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 1,2-Dichloroethane-d4 | 104 | % | 70-130 | | | | | |
| Toluene-d8 | 99.0 | % | 70-130 | | | | | |
| 4-Bromofluorobenzene | 104 | % | 70-130 | | | | | |
| Dibromofluoromethane | 99.0 | % | 70-130 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0813196

| Parameter | Value 1 | Value 2 | Units | RPD | RPD Limits |
|--|---------|---------|-------|-----|------------|
| Solids, Total for sample(s) 05,20-21,27,30 (L0813121-08, WG335668-1) | | | | | |
| Solids, Total | 58 | 60 | % | 3 | 20 |
| Solids, Total for sample(s) 01,03,08,10,13,18,24-25,28,31-38 (L0813196-33, WG335977-1) | | | | | |
| Solids, Total | 84 | 85 | % | 1 | 20 |
| Total Metals for sample(s) 05,20-21,27,30 (L0813196-21, WG335482-1) | | | | | |
| Aluminum, Total | 2900 | 2700 | mg/kg | 7 | 35 |
| Antimony, Total | ND | ND | mg/kg | NC | 35 |
| Arsenic, Total | 1.2 | 1.4 | mg/kg | 15 | 35 |
| Barium, Total | 20 | 19 | mg/kg | 5 | 35 |
| Beryllium, Total | ND | ND | mg/kg | NC | 35 |
| Cadmium, Total | ND | ND | mg/kg | NC | 35 |
| Calcium, Total | 500 | 400 | mg/kg | 22 | 35 |
| Chromium, Total | 4.9 | 4.8 | mg/kg | 2 | 35 |
| Cobalt, Total | 2.4 | 2.6 | mg/kg | 8 | 35 |
| Copper, Total | 5.6 | 5.0 | mg/kg | 11 | 35 |
| Iron, Total | 6400 | 6100 | mg/kg | 5 | 35 |
| Lead, Total | 30 | 28 | mg/kg | 7 | 35 |
| Magnesium, Total | 560 | 510 | mg/kg | 9 | 35 |
| Manganese, Total | 88 | 85 | mg/kg | 3 | 35 |
| Nickel, Total | 4.5 | 4.0 | mg/kg | 12 | 35 |
| Potassium, Total | 260 | 240 | mg/kg | 8 | 35 |
| Selenium, Total | ND | ND | mg/kg | NC | 35 |
| Silver, Total | ND | ND | mg/kg | NC | 35 |
| Sodium, Total | ND | ND | mg/kg | NC | 35 |
| Thallium, Total | ND | ND | mg/kg | NC | 35 |
| Vanadium, Total | 6.3 | 5.8 | mg/kg | 8 | 35 |
| Zinc, Total | 24 | 24 | mg/kg | 0 | 35 |
| Total Metals for sample(s) 05,20-21,27,30 (L0813196-21, WG335841-3) | | | | | |
| Mercury, Total | 0.25 | 0.96 | mg/kg | 117 | 35 |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0813196

| Parameter | % Recovery | QC Criteria |
|---|------------|-------------|
| Total Metals LCS for sample(s) 05,20-21,27,30 (WG335482-4) | | |
| Aluminum, Total | 100 | 75-125 |
| Antimony, Total | 100 | 75-125 |
| Arsenic, Total | 104 | 75-125 |
| Barium, Total | 100 | 75-125 |
| Beryllium, Total | 100 | 75-125 |
| Cadmium, Total | 106 | 75-125 |
| Calcium, Total | 98 | 75-125 |
| Chromium, Total | 101 | 75-125 |
| Cobalt, Total | 100 | 75-125 |
| Copper, Total | 100 | 75-125 |
| Iron, Total | 100 | 75-125 |
| Lead, Total | 102 | 75-125 |
| Magnesium, Total | 98 | 75-125 |
| Manganese, Total | 100 | 75-125 |
| Nickel, Total | 100 | 75-125 |
| Potassium, Total | 94 | 75-125 |
| Selenium, Total | 97 | 75-125 |
| Silver, Total | 96 | 75-125 |
| Sodium, Total | 100 | 75-125 |
| Thallium, Total | 102 | 75-125 |
| Vanadium, Total | 100 | 75-125 |
| Zinc, Total | 96 | 75-125 |
| Total Metals LCS for sample(s) 05,20-21,27,30 (WG335841-2) | | |
| Mercury, Total | 112 | 80-120 |
| Total Metals SPIKE for sample(s) 05,20-21,27,30 (L0813196-21, WG335482-2) | | |
| Aluminum, Total | 0 | 75-125 |
| Antimony, Total | 50 | 75-125 |
| Arsenic, Total | 88 | 75-125 |
| Barium, Total | 83 | 75-125 |
| Beryllium, Total | 87 | 75-125 |
| Cadmium, Total | 89 | 75-125 |
| Calcium, Total | 166 | 75-125 |
| Chromium, Total | 74 | 75-125 |
| Cobalt, Total | 85 | 75-125 |
| Copper, Total | 78 | 75-125 |
| Iron, Total | 0 | 75-125 |
| Lead, Total | 69 | 75-125 |
| Magnesium, Total | 64 | 75-125 |
| Manganese, Total | 133 | 75-125 |
| Nickel, Total | 85 | 75-125 |
| Potassium, Total | 91 | 75-125 |
| Selenium, Total | 85 | 75-125 |
| Silver, Total | 87 | 75-125 |
| Sodium, Total | 93 | 75-125 |
| Thallium, Total | 81 | 75-125 |
| Vanadium, Total | 82 | 75-125 |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0813196

Continued

| Parameter | % Recovery | QC Criteria |
|---|------------|-------------|
| Total Metals SPIKE for sample(s) 05,20-21,27,30 (L0813196-21, WG335482-2) | | |
| Zinc, Total | 62 | 75-125 |
| Total Metals SPIKE for sample(s) 05,20-21,27,30 (L0813196-21, WG335841-4) | | |
| Mercury, Total | 6 | 70-130 |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0813196

| Parameter | LCS % | LCSD % | RPD | RPD Limit | QC Limits |
|--|-------|--------|-----|-----------|-----------|
| Volatile Organics by EPA 8260B for sample(s) 01,03,05,08,10,13,18,20,24-25,27,30-32 (WG335931-1) | | | | | |
| Chlorobenzene | 94 | 93 | 1 | 30 | 60-133 |
| Benzene | 96 | 92 | 4 | 30 | 66-142 |
| Toluene | 93 | 94 | 1 | 30 | 59-139 |
| 1,1-Dichloroethene | 95 | 91 | 4 | 30 | 59-172 |
| Trichloroethene | 95 | 92 | 3 | 30 | 62-137 |
| Surrogate(s) | | | | | |
| 1,2-Dichloroethane-d4 | 102 | 102 | 0 | | 70-130 |
| Toluene-d8 | 104 | 104 | 0 | | 70-130 |
| 4-Bromofluorobenzene | 102 | 103 | 1 | | 70-130 |
| Dibromofluoromethane | 103 | 101 | 2 | | 70-130 |
| Volatile Organics by EPA 8260B for sample(s) 33,38 (WG335933-1, WG335933-2) | | | | | |
| Chlorobenzene | 95 | 96 | 1 | 30 | 60-133 |
| Benzene | 97 | 99 | 2 | 30 | 66-142 |
| Toluene | 97 | 98 | 1 | 30 | 59-139 |
| 1,1-Dichloroethene | 94 | 100 | 6 | 30 | 59-172 |
| Trichloroethene | 98 | 100 | 2 | 30 | 62-137 |
| Surrogate(s) | | | | | |
| 1,2-Dichloroethane-d4 | 101 | 104 | 3 | | 70-130 |
| Toluene-d8 | 96 | 101 | 5 | | 70-130 |
| 4-Bromofluorobenzene | 97 | 100 | 3 | | 70-130 |
| Dibromofluoromethane | 97 | 102 | 5 | | 70-130 |
| Volatile Organics by EPA 8260B for sample(s) 02,04,06-07,09,11-12,14-17,19,22-23,26,29 (WG33591-1) | | | | | |
| Chlorobenzene | 98 | 98 | 0 | 20 | 75-130 |
| Benzene | 94 | 91 | 3 | 20 | 76-127 |
| Toluene | 97 | 97 | 0 | 20 | 76-125 |
| 1,1-Dichloroethene | 91 | 89 | 2 | 20 | 61-145 |
| Trichloroethene | 94 | 92 | 2 | 20 | 71-120 |
| Surrogate(s) | | | | | |
| 1,2-Dichloroethane-d4 | 101 | 99 | 2 | | 70-130 |
| Toluene-d8 | 99 | 98 | 1 | | 70-130 |
| 4-Bromofluorobenzene | 104 | 102 | 2 | | 70-130 |
| Dibromofluoromethane | 99 | 98 | 1 | | 70-130 |
| Volatile Organics by EPA 8260B for sample(s) 21,28,34-37 (WG335931-4, WG335931-5) | | | | | |
| Chlorobenzene | 95 | 96 | 1 | 30 | 60-133 |
| Benzene | 97 | 99 | 2 | 30 | 66-142 |
| Toluene | 97 | 98 | 1 | 30 | 59-139 |
| 1,1-Dichloroethene | 94 | 100 | 6 | 30 | 59-172 |
| Trichloroethene | 98 | 100 | 2 | 30 | 62-137 |
| Surrogate(s) | | | | | |
| 1,2-Dichloroethane-d4 | 101 | 104 | 3 | | 70-130 |
| Toluene-d8 | 96 | 101 | 5 | | 70-130 |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0813196

Continued

| Parameter | LCS % | LCSD % | RPD | RPD Limit | QC Limits |
|--|-------|--------|-----|-----------|-----------|
| Volatile Organics by EPA 8260B for sample(s) 21,28,34-37 (WG335931-4, WG335931-5) | | | | | |
| 4-Bromofluorobenzene | 97 | 100 | 3 | | 70-130 |
| Dibromofluoromethane | 97 | 102 | 5 | | 70-130 |
| Volatile Organics by EPA 8260B for sample(s) 29,39-40 (WG335914-4, WG335914-5) | | | | | |
| Chlorobenzene | 104 | 101 | 3 | 20 | 75-130 |
| Benzene | 98 | 96 | 2 | 20 | 76-127 |
| Toluene | 102 | 100 | 2 | 20 | 76-125 |
| 1,1-Dichloroethene | 93 | 91 | 2 | 20 | 61-145 |
| Trichloroethene | 96 | 93 | 3 | 20 | 71-120 |
| Surrogate(s) | | | | | |
| 1,2-Dichloroethane-d4 | 101 | 101 | 0 | | 70-130 |
| Toluene-d8 | 100 | 99 | 1 | | 70-130 |
| 4-Bromofluorobenzene | 100 | 102 | 2 | | 70-130 |
| Dibromofluoromethane | 99 | 97 | 2 | | 70-130 |
| Semivolatile Organics by EPA 8270C for sample(s) 05,20-21,27,30 (WG335363-2, WG335363-3) | | | | | |
| Acenaphthene | 66 | 76 | 14 | 50 | 31-137 |
| 1,2,4-Trichlorobenzene | 66 | 68 | 3 | 50 | 38-107 |
| 2-Chloronaphthalene | 70 | 71 | 1 | 50 | 40-140 |
| 1,2-Dichlorobenzene | 71 | 68 | 4 | 50 | 40-140 |
| 1,4-Dichlorobenzene | 69 | 65 | 6 | 50 | 28-104 |
| 2,4-Dinitrotoluene | 79 | 82 | 4 | 50 | 28-89 |
| 2,6-Dinitrotoluene | 68 | 72 | 6 | 50 | 40-140 |
| Fluoranthene | 79 | 80 | 1 | 50 | 40-140 |
| 4-Chlorophenyl phenyl ether | 70 | 76 | 8 | 50 | 40-140 |
| n-Nitrosodi-n-propylamine | 70 | 67 | 4 | 50 | 41-126 |
| Butyl benzyl phthalate | 81 | 81 | 0 | 50 | 40-140 |
| Anthracene | 78 | 76 | 3 | 50 | 40-140 |
| Pyrene | 77 | 75 | 3 | 50 | 35-142 |
| P-Chloro-M-Cresol | 75 | 72 | 4 | 50 | 26-103 |
| 2-Chlorophenol | 71 | 66 | 7 | 50 | 25-102 |
| 2-Nitrophenol | 70 | 66 | 6 | 50 | 30-130 |
| 4-Nitrophenol | 70 | 62 | 12 | 50 | 11-114 |
| 2,4-Dinitrophenol | 45 | 41 | 9 | 50 | 30-130 |
| Pentachlorophenol | 54 | 53 | 2 | 50 | 17-109 |
| Phenol | 66 | 65 | 2 | 50 | 26-90 |
| Surrogate(s) | | | | | |
| 2-Fluorophenol | 76 | 68 | 11 | | 25-120 |
| Phenol-d6 | 72 | 65 | 10 | | 10-120 |
| Nitrobenzene-d5 | 69 | 60 | 14 | | 23-120 |
| 2-Fluorobiphenyl | 64 | 63 | 2 | | 30-120 |
| 2,4,6-Tribromophenol | 80 | 70 | 13 | | 19-120 |
| 4-Terphenyl-d14 | 63 | 58 | 8 | | 18-120 |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0813196

Continued

| Parameter | LCS % | LCSD % | RPD | RPD Limit | QC Limits |
|--|-------|--------|-----|-----------|-----------|
| Semivolatile Organics by EPA 8270C-SIM for sample(s) 05,20-21,27,30 (WG335365-2, WG335365-3) | | | | | |
| Acenaphthene | 45 | 68 | 41 | | 31-137 |
| 2-Chloronaphthalene | 47 | 71 | 41 | | 40-140 |
| Fluoranthene | 65 | 74 | 13 | | 40-140 |
| Anthracene | 57 | 74 | 26 | | 40-140 |
| Pyrene | 66 | 76 | 14 | | 35-142 |
| Pentachlorophenol | 19 | 31 | 48 | | 17-109 |
| Surrogate(s) | | | | | |
| 2-Fluorophenol | 46 | 67 | 37 | | 25-120 |
| Phenol-d6 | 50 | 72 | 36 | | 10-120 |
| Nitrobenzene-d5 | 46 | 66 | 36 | | 23-120 |
| 2-Fluorobiphenyl | 44 | 64 | 37 | | 30-120 |
| 2,4,6-Tribromophenol | 70 | 91 | 26 | | 19-120 |
| 4-Terphenyl-d14 | 57 | 69 | 19 | | 18-120 |
| Polychlorinated Biphenyls by EPA 8082 for sample(s) 05,20 (WG336109-2, WG336109-3) | | | | | |
| Aroclor 1016 | 62 | 72 | 15 | 30 | 40-140 |
| Aroclor 1260 | 69 | 80 | 15 | 30 | 40-140 |
| Surrogate(s) | | | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 52 | 69 | 28 | | 30-150 |
| Decachlorobiphenyl | 66 | 91 | 32 | | 30-150 |
| Polychlorinated Biphenyls by EPA 8082 for sample(s) 21,27,30 (WG335372-2, WG335372-3) | | | | | |
| Aroclor 1016 | 44 | 53 | 19 | 30 | 40-140 |
| Aroclor 1260 | 40 | 50 | 22 | 30 | 40-140 |
| Surrogate(s) | | | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 44 | 46 | 4 | | 30-150 |
| Decachlorobiphenyl | 39 | 51 | 27 | | 30-150 |
| Organochlorine Pesticides by EPA 8081A for sample(s) 05,20-21,27,30 (WG335356-2, WG335356-3) | | | | | |
| Delta-BHC | 74 | 51 | 37 | 30 | 30-150 |
| Lindane | 79 | 57 | 32 | 30 | 30-150 |
| Alpha-BHC | 79 | 56 | 34 | 30 | 30-150 |
| Beta-BHC | 75 | 55 | 31 | 30 | 30-150 |
| Heptachlor | 87 | 62 | 34 | 30 | 30-150 |
| Aldrin | 80 | 56 | 35 | 30 | 30-150 |
| Heptachlor epoxide | 90 | 63 | 35 | 30 | 30-150 |
| Endrin | 95 | 64 | 39 | 30 | 30-150 |
| Endrin ketone | 101 | 70 | 36 | 30 | 30-150 |
| Dieldrin | 95 | 65 | 38 | 30 | 30-150 |
| 4,4'-DDE | 89 | 61 | 37 | 30 | 30-150 |
| 4,4'-DDD | 97 | 65 | 40 | 30 | 30-150 |
| 4,4'-DDT | 111 | 74 | 40 | 30 | 30-150 |
| Endosulfan I | 90 | 62 | 37 | 30 | 30-150 |
| Endosulfan II | 92 | 62 | 39 | 30 | 30-150 |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0813196

Continued

| Parameter | LCS % | LCSD % | RPD | RPD Limit | QC Limits |
|--|-------|--------|-----|-----------|-----------|
| Organochlorine Pesticides by EPA 8081A for sample(s) 05,20-21,27,30 (WG335356-2, WG335356-3) | | | | | |
| Endosulfan sulfate | 94 | 62 | 41 | 30 | 30-150 |
| Methoxychlor | 115 | 76 | 41 | 30 | 30-150 |
| trans-Chlordane | 86 | 61 | 34 | 30 | 30-150 |
| Surrogate(s) | | | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 69 | 50 | 32 | | 30-150 |
| Decachlorobiphenyl | 98 | 70 | 33 | | 30-150 |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0813196

| Parameter | MS % | MSD % | RPD | RPD Limit | MS/MSD Limits |
|---|------|-------|-----|-----------|---------------|
| Volatile Organics by EPA 8260B for sample(s) 01,03,05,08,10,13,18,20-21,24-25,27-28,30-32,34-37 | | | | | |
| Chlorobenzene | 79 | 89 | 12 | 30 | 60-133 |
| Benzene | 85 | 102 | 18 | 30 | 66-142 |
| Toluene | 82 | 97 | 17 | 30 | 59-139 |
| 1,1-Dichloroethene | 88 | 103 | 16 | 30 | 59-172 |
| Trichloroethene | 83 | 99 | 18 | 30 | 62-137 |
| Surrogate(s) | | | | | |
| 1,2-Dichloroethane-d4 | 106 | 124 | 16 | | 70-130 |
| Toluene-d8 | 102 | 120 | 16 | | 70-130 |
| 4-Bromofluorobenzene | 108 | 133 | 21 | | 70-130 |
| Dibromofluoromethane | 103 | 122 | 17 | | 70-130 |
| Volatile Organics by EPA 8260B for sample(s) 33,38 (L0813196-33, WG335933-5) | | | | | |
| Chlorobenzene | 78 | 72 | 8 | 30 | 60-133 |
| Benzene | 82 | 78 | 5 | 30 | 66-142 |
| Toluene | 80 | 76 | 5 | 30 | 59-139 |
| 1,1-Dichloroethene | 81 | 76 | 6 | 30 | 59-172 |
| Trichloroethene | 81 | 72 | 12 | 30 | 62-137 |
| Surrogate(s) | | | | | |
| 1,2-Dichloroethane-d4 | 101 | 104 | 3 | | 70-130 |
| Toluene-d8 | 99 | 102 | 3 | | 70-130 |
| 4-Bromofluorobenzene | 101 | 105 | 4 | | 70-130 |
| Dibromofluoromethane | 98 | 100 | 2 | | 70-130 |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0813196

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---|--------|-------|------|-----|--------|---------------|------------|----|
| | | | | | | PREP | ANAL | |
| Blank Analysis for sample(s) 05,20-21,27,30 (WG335482-3) | | | | | | | | |
| Total Metals | | | | | | | | |
| Aluminum, Total | ND | mg/kg | 5.0 | 1 | 6010B | 0908 14:00 | 0910 19:02 | TD |
| Antimony, Total | ND | mg/kg | 2.5 | 1 | 6010B | 0908 14:00 | 0910 19:02 | TD |
| Arsenic, Total | ND | mg/kg | 0.50 | 1 | 6010B | 0908 14:00 | 0910 19:02 | TD |
| Barium, Total | ND | mg/kg | 0.50 | 1 | 6010B | 0908 14:00 | 0910 19:02 | TD |
| Beryllium, Total | ND | mg/kg | 0.25 | 1 | 6010B | 0908 14:00 | 0910 19:02 | TD |
| Cadmium, Total | ND | mg/kg | 0.50 | 1 | 6010B | 0908 14:00 | 0910 19:02 | TD |
| Calcium, Total | ND | mg/kg | 5.0 | 1 | 6010B | 0908 14:00 | 0910 19:02 | TD |
| Chromium, Total | ND | mg/kg | 0.50 | 1 | 6010B | 0908 14:00 | 0910 19:02 | TD |
| Cobalt, Total | ND | mg/kg | 1.0 | 1 | 6010B | 0908 14:00 | 0910 19:02 | TD |
| Copper, Total | ND | mg/kg | 0.50 | 1 | 6010B | 0908 14:00 | 0910 19:02 | TD |
| Iron, Total | ND | mg/kg | 2.5 | 1 | 6010B | 0908 14:00 | 0910 19:02 | TD |
| Lead, Total | ND | mg/kg | 2.5 | 1 | 6010B | 0908 14:00 | 0910 19:02 | TD |
| Magnesium, Total | ND | mg/kg | 5.0 | 1 | 6010B | 0908 14:00 | 0910 19:02 | TD |
| Manganese, Total | ND | mg/kg | 0.50 | 1 | 6010B | 0908 14:00 | 0910 19:02 | TD |
| Nickel, Total | ND | mg/kg | 1.2 | 1 | 6010B | 0908 14:00 | 0910 19:02 | TD |
| Potassium, Total | ND | mg/kg | 120 | 1 | 6010B | 0908 14:00 | 0910 19:02 | TD |
| Selenium, Total | ND | mg/kg | 1.0 | 1 | 6010B | 0908 14:00 | 0910 19:02 | TD |
| Silver, Total | ND | mg/kg | 0.50 | 1 | 6010B | 0908 14:00 | 0910 19:02 | TD |
| Sodium, Total | ND | mg/kg | 100 | 1 | 6010B | 0908 14:00 | 0910 19:02 | TD |
| Thallium, Total | ND | mg/kg | 1.0 | 1 | 6010B | 0908 14:00 | 0910 19:02 | TD |
| Vanadium, Total | ND | mg/kg | 0.50 | 1 | 6010B | 0908 14:00 | 0910 19:02 | TD |
| Zinc, Total | ND | mg/kg | 2.5 | 1 | 6010B | 0908 14:00 | 0910 19:02 | TD |
| Blank Analysis for sample(s) 05,20-21,27,30 (WG335841-1) | | | | | | | | |
| Total Metals | | | | | | | | |
| Mercury, Total | ND | mg/kg | 0.08 | 1 | 7471A | 0910 21:30 | 0911 17:10 | HG |
| Blank Analysis for sample(s) 02,04,06-07,09,11-12,14-17,19,22-23,26,29 (WG335914-3) | | | | | | | | |
| Volatile Organics by EPA 8260B | | | | 1 | 8260B | 0909 19:22 PD | | |
| Methylene chloride | ND | ug/l | 5.0 | | | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | | | |
| Chloroform | ND | ug/l | 0.75 | | | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | | | |
| Tetrachloroethene | ND | ug/l | 0.50 | | | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | | | |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0813196

Continued

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---|--------|-------|------|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Blank Analysis for sample(s) 02,04,06-07,09,11-12,14-17,19,22-23,26,29 (WG335914-3) | | | | | | | | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0909 19:22 PD | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | | | |
| Bromoform | ND | ug/l | 2.0 | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | | |
| Benzene | ND | ug/l | 0.50 | | | | | |
| Toluene | ND | ug/l | 0.75 | | | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | | | |
| Chloromethane | ND | ug/l | 2.5 | | | | | |
| Bromomethane | ND | ug/l | 1.0 | | | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | | | |
| Chloroethane | ND | ug/l | 1.0 | | | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | | | |
| Trichloroethene | ND | ug/l | 0.50 | | | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | | | |
| Methyl tert butyl ether | ND | ug/l | 1.0 | | | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | | | |
| o-Xylene | ND | ug/l | 1.0 | | | | | |
| cis-1,2-Dichloroethene | ND | ug/l | 0.50 | | | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | | | |
| Styrene | ND | ug/l | 1.0 | | | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | | | |
| Acetone | ND | ug/l | 5.0 | | | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | | | |
| 2-Butanone | ND | ug/l | 5.0 | | | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | | | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | | | |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0813196

Continued

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|------------------------|----|
| Blank Analysis for sample(s) 02,04,06-07,09,11-12,14-17,19,22-23,26,29 (WG335914-3) | | | | | | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0909 19:22 PD | |
| Naphthalene | ND | ug/l | 2.5 | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 100 | % | 70-130 | | | |
| Toluene-d8 | 98.0 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 104 | % | 70-130 | | | |
| Dibromofluoromethane | 96.0 | % | 70-130 | | | |
| Blank Analysis for sample(s) 29,39-40 (WG335914-6) | | | | | | |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0910 16:08 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | |
| Chloroform | ND | ug/l | 0.75 | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | |
| Tetrachloroethene | ND | ug/l | 0.50 | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | |
| Bromoform | ND | ug/l | 2.0 | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Benzene | ND | ug/l | 0.50 | | | |
| Toluene | ND | ug/l | 0.75 | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | |
| Chloromethane | ND | ug/l | 2.5 | | | |
| Bromomethane | ND | ug/l | 1.0 | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | |
| Chloroethane | ND | ug/l | 1.0 | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | |
| Trichloroethene | ND | ug/l | 0.50 | | | |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0813196

Continued

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--|----------|-------|-------------|------------|------------------------|----|
| Blank Analysis for sample(s) 29,39-40 (WG335914-6) | | | | | | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0910 16:08 PD | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| Methyl tert butyl ether | ND | ug/l | 1.0 | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | |
| o-Xylene | ND | ug/l | 1.0 | | | |
| cis-1,2-Dichloroethene | ND | ug/l | 0.50 | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | |
| Styrene | ND | ug/l | 1.0 | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | |
| Acetone | ND | ug/l | 5.0 | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | |
| 2-Butanone | ND | ug/l | 5.0 | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | |
| Naphthalene | ND | ug/l | 2.5 | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 102 | % | 70-130 | | | |
| Toluene-d8 | 100 | % | 70-130 | | | |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0813196

Continued

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--|--------|-------|--------|------------|------------------------|----|
| Blank Analysis for sample(s) 29,39-40 (WG335914-6) | | | | | | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0910 16:08 PD | |
| 4-Bromofluorobenzene | 104 | % | 70-130 | | | |
| Dibromofluoromethane | 97.0 | % | 70-130 | | | |
| Blank Analysis for sample(s) 01,03,05,08,10,13,18,20,24-25,27,30-32 (WG335931-3) | | | | | | |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0906 15:45 PD | |
| Methylene chloride | ND | ug/kg | 25. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 3.8 | | | |
| Chloroform | ND | ug/kg | 3.8 | | | |
| Carbon tetrachloride | ND | ug/kg | 2.5 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 8.8 | | | |
| Dibromochloromethane | ND | ug/kg | 2.5 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 3.8 | | | |
| Tetrachloroethene | ND | ug/kg | 2.5 | | | |
| Chlorobenzene | ND | ug/kg | 2.5 | | | |
| Trichlorofluoromethane | ND | ug/kg | 12. | | | |
| 1,2-Dichloroethane | ND | ug/kg | 2.5 | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 2.5 | | | |
| Bromodichloromethane | ND | ug/kg | 2.5 | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 2.5 | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 2.5 | | | |
| 1,1-Dichloropropene | ND | ug/kg | 12. | | | |
| Bromoform | ND | ug/kg | 10. | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 2.5 | | | |
| Benzene | ND | ug/kg | 2.5 | | | |
| Toluene | ND | ug/kg | 3.8 | | | |
| Ethylbenzene | ND | ug/kg | 2.5 | | | |
| Chloromethane | ND | ug/kg | 12. | | | |
| Bromomethane | ND | ug/kg | 5.0 | | | |
| Vinyl chloride | ND | ug/kg | 5.0 | | | |
| Chloroethane | ND | ug/kg | 5.0 | | | |
| 1,1-Dichloroethene | ND | ug/kg | 2.5 | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 3.8 | | | |
| Trichloroethene | ND | ug/kg | 2.5 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 12. | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 12. | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 12. | | | |
| Methyl tert butyl ether | ND | ug/kg | 5.0 | | | |
| p/m-Xylene | ND | ug/kg | 5.0 | | | |
| o-Xylene | ND | ug/kg | 5.0 | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 2.5 | | | |
| Dibromomethane | ND | ug/kg | 25. | | | |
| Styrene | ND | ug/kg | 5.0 | | | |
| Dichlorodifluoromethane | ND | ug/kg | 25. | | | |
| Acetone | ND | ug/kg | 25. | | | |
| Carbon disulfide | ND | ug/kg | 25. | | | |
| 2-Butanone | ND | ug/kg | 25. | | | |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0813196

Continued

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--|----------|-------|-------------|------------|-------------------|----|
| Blank Analysis for sample(s) 01,03,05,08,10,13,18,20,24-25,27,30-32 (WG335931-3) | | | | | | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0906 15:45 PD | |
| Vinyl acetate | ND | ug/kg | 25. | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 25. | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 25. | | | |
| 2-Hexanone | ND | ug/kg | 25. | | | |
| Bromochloromethane | ND | ug/kg | 12. | | | |
| 2,2-Dichloropropane | ND | ug/kg | 12. | | | |
| 1,2-Dibromoethane | ND | ug/kg | 10. | | | |
| 1,3-Dichloropropane | ND | ug/kg | 12. | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 2.5 | | | |
| Bromobenzene | ND | ug/kg | 12. | | | |
| n-Butylbenzene | ND | ug/kg | 2.5 | | | |
| sec-Butylbenzene | ND | ug/kg | 2.5 | | | |
| tert-Butylbenzene | ND | ug/kg | 12. | | | |
| o-Chlorotoluene | ND | ug/kg | 12. | | | |
| p-Chlorotoluene | ND | ug/kg | 12. | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 12. | | | |
| Hexachlorobutadiene | ND | ug/kg | 12. | | | |
| Isopropylbenzene | ND | ug/kg | 2.5 | | | |
| p-Isopropyltoluene | ND | ug/kg | 2.5 | | | |
| Naphthalene | ND | ug/kg | 12. | | | |
| Acrylonitrile | ND | ug/kg | 25. | | | |
| n-Propylbenzene | ND | ug/kg | 2.5 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 12. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 12. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 12. | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 12. | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 10. | | | |
| 4-Ethyltoluene | ND | ug/kg | 10. | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 10. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 104 | % | 70-130 | | | |
| Toluene-d8 | 105 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 118 | % | 70-130 | | | |
| Dibromofluoromethane | 98.0 | % | 70-130 | | | |
| Blank Analysis for sample(s) 21,28,34-37 (WG335931-6) | | | | | | |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0908 09:56 PD | |
| Methylene chloride | ND | ug/kg | 25. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 3.8 | | | |
| Chloroform | ND | ug/kg | 3.8 | | | |
| Carbon tetrachloride | ND | ug/kg | 2.5 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 8.8 | | | |
| Dibromochloromethane | ND | ug/kg | 2.5 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 3.8 | | | |
| Tetrachloroethene | ND | ug/kg | 2.5 | | | |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0813196

Continued

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|--------|-------|-----|------------|------------------------|----|
| Blank Analysis for sample(s) 21,28,34-37 (WG335931-6) | | | | | | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0908 09:56 PD | |
| Chlorobenzene | ND | ug/kg | 2.5 | | | |
| Trichlorofluoromethane | ND | ug/kg | 12. | | | |
| 1,2-Dichloroethane | ND | ug/kg | 2.5 | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 2.5 | | | |
| Bromodichloromethane | ND | ug/kg | 2.5 | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 2.5 | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 2.5 | | | |
| 1,1-Dichloropropene | ND | ug/kg | 12. | | | |
| Bromoform | ND | ug/kg | 10. | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 2.5 | | | |
| Benzene | ND | ug/kg | 2.5 | | | |
| Toluene | ND | ug/kg | 3.8 | | | |
| Ethylbenzene | ND | ug/kg | 2.5 | | | |
| Chloromethane | ND | ug/kg | 12. | | | |
| Bromomethane | ND | ug/kg | 5.0 | | | |
| Vinyl chloride | ND | ug/kg | 5.0 | | | |
| Chloroethane | ND | ug/kg | 5.0 | | | |
| 1,1-Dichloroethene | ND | ug/kg | 2.5 | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 3.8 | | | |
| Trichloroethene | ND | ug/kg | 2.5 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 12. | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 12. | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 12. | | | |
| Methyl tert butyl ether | ND | ug/kg | 5.0 | | | |
| p/m-Xylene | ND | ug/kg | 5.0 | | | |
| o-Xylene | ND | ug/kg | 5.0 | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 2.5 | | | |
| Dibromomethane | ND | ug/kg | 25. | | | |
| Styrene | ND | ug/kg | 5.0 | | | |
| Dichlorodifluoromethane | ND | ug/kg | 25. | | | |
| Acetone | ND | ug/kg | 25. | | | |
| Carbon disulfide | ND | ug/kg | 25. | | | |
| 2-Butanone | ND | ug/kg | 25. | | | |
| Vinyl acetate | ND | ug/kg | 25. | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 25. | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 25. | | | |
| 2-Hexanone | ND | ug/kg | 25. | | | |
| Bromochloromethane | ND | ug/kg | 12. | | | |
| 2,2-Dichloropropane | ND | ug/kg | 12. | | | |
| 1,2-Dibromoethane | ND | ug/kg | 10. | | | |
| 1,3-Dichloropropane | ND | ug/kg | 12. | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 2.5 | | | |
| Bromobenzene | ND | ug/kg | 12. | | | |
| n-Butylbenzene | ND | ug/kg | 2.5 | | | |
| sec-Butylbenzene | ND | ug/kg | 2.5 | | | |
| tert-Butylbenzene | ND | ug/kg | 12. | | | |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0813196

Continued

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|-------------------|----|
| Blank Analysis for sample(s) 21,28,34-37 (WG335931-6) | | | | | | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0908 09:56 PD | |
| o-Chlorotoluene | ND | ug/kg | 12. | | | |
| p-Chlorotoluene | ND | ug/kg | 12. | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 12. | | | |
| Hexachlorobutadiene | ND | ug/kg | 12. | | | |
| Isopropylbenzene | ND | ug/kg | 2.5 | | | |
| p-Isopropyltoluene | ND | ug/kg | 2.5 | | | |
| Naphthalene | ND | ug/kg | 12. | | | |
| Acrylonitrile | ND | ug/kg | 25. | | | |
| n-Propylbenzene | ND | ug/kg | 2.5 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 12. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 12. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 12. | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 12. | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 10. | | | |
| 4-Ethyltoluene | ND | ug/kg | 10. | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 10. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 104 | % | 70-130 | | | |
| Toluene-d8 | 105 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 121 | % | 70-130 | | | |
| Dibromofluoromethane | 98.0 | % | 70-130 | | | |
| Blank Analysis for sample(s) 33,38 (WG335933-3) | | | | | | |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 0908 09:56 PD | |
| Methylene chloride | ND | ug/kg | 25. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 3.8 | | | |
| Chloroform | ND | ug/kg | 3.8 | | | |
| Carbon tetrachloride | ND | ug/kg | 2.5 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 8.8 | | | |
| Dibromochloromethane | ND | ug/kg | 2.5 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 3.8 | | | |
| Tetrachloroethene | ND | ug/kg | 2.5 | | | |
| Chlorobenzene | ND | ug/kg | 2.5 | | | |
| Trichlorofluoromethane | ND | ug/kg | 12. | | | |
| 1,2-Dichloroethane | ND | ug/kg | 2.5 | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 2.5 | | | |
| Bromodichloromethane | ND | ug/kg | 2.5 | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 2.5 | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 2.5 | | | |
| 1,1-Dichloropropene | ND | ug/kg | 12. | | | |
| Bromoform | ND | ug/kg | 10. | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 2.5 | | | |
| Benzene | ND | ug/kg | 2.5 | | | |
| Toluene | ND | ug/kg | 3.8 | | | |
| Ethylbenzene | ND | ug/kg | 2.5 | | | |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0813196

Continued

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---|--------|-------|-----|------------|-------|---------------|----|
| | | | | | PREP | ANAL | |
| Blank Analysis for sample(s) 33,38 (WG335933-3) | | | | | | | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 0908 09:56 PD | |
| Chloromethane | ND | ug/kg | 12. | | | | |
| Bromomethane | ND | ug/kg | 5.0 | | | | |
| Vinyl chloride | ND | ug/kg | 5.0 | | | | |
| Chloroethane | ND | ug/kg | 5.0 | | | | |
| 1,1-Dichloroethene | ND | ug/kg | 2.5 | | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 3.8 | | | | |
| Trichloroethene | ND | ug/kg | 2.5 | | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 12. | | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 12. | | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 12. | | | | |
| Methyl tert butyl ether | ND | ug/kg | 5.0 | | | | |
| p/m-Xylene | ND | ug/kg | 5.0 | | | | |
| o-Xylene | ND | ug/kg | 5.0 | | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 2.5 | | | | |
| Dibromomethane | ND | ug/kg | 25. | | | | |
| Styrene | ND | ug/kg | 5.0 | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 25. | | | | |
| Acetone | ND | ug/kg | 25. | | | | |
| Carbon disulfide | ND | ug/kg | 25. | | | | |
| 2-Butanone | ND | ug/kg | 25. | | | | |
| Vinyl acetate | ND | ug/kg | 25. | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 25. | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 25. | | | | |
| 2-Hexanone | ND | ug/kg | 25. | | | | |
| Bromochloromethane | ND | ug/kg | 12. | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 12. | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 10. | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 12. | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 2.5 | | | | |
| Bromobenzene | ND | ug/kg | 12. | | | | |
| n-Butylbenzene | ND | ug/kg | 2.5 | | | | |
| sec-Butylbenzene | ND | ug/kg | 2.5 | | | | |
| tert-Butylbenzene | ND | ug/kg | 12. | | | | |
| o-Chlorotoluene | ND | ug/kg | 12. | | | | |
| p-Chlorotoluene | ND | ug/kg | 12. | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 12. | | | | |
| Hexachlorobutadiene | ND | ug/kg | 12. | | | | |
| Isopropylbenzene | ND | ug/kg | 2.5 | | | | |
| p-Isopropyltoluene | ND | ug/kg | 2.5 | | | | |
| Naphthalene | ND | ug/kg | 12. | | | | |
| Acrylonitrile | ND | ug/kg | 25. | | | | |
| n-Propylbenzene | ND | ug/kg | 2.5 | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 12. | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 12. | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 12. | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 12. | | | | |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0813196

Continued

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--|----------|-------|-------------|------------|--------------------------|----|
| Blank Analysis for sample(s) 33,38 (WG335933-3) | | | | | | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 0908 09:56 PD | |
| 1,4-Diethylbenzene | ND | ug/kg | 10. | | | |
| 4-Ethyltoluene | ND | ug/kg | 10. | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 10. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 104 | % | 70-130 | | | |
| Toluene-d8 | 105 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 121 | % | 70-130 | | | |
| Dibromofluoromethane | 98.0 | % | 70-130 | | | |
| Blank Analysis for sample(s) 05,20-21,27,30 (WG335363-1) | | | | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 0906 12:05 0910 11:38 PS | |
| Acenaphthene | ND | ug/kg | 330 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 330 | | | |
| Hexachlorobenzene | ND | ug/kg | 330 | | | |
| Bis(2-chloroethyl)ether | ND | ug/kg | 330 | | | |
| 2-Chloronaphthalene | ND | ug/kg | 400 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 330 | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 330 | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 330 | | | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 670 | | | |
| 2,4-Dinitrotoluene | ND | ug/kg | 330 | | | |
| 2,6-Dinitrotoluene | ND | ug/kg | 330 | | | |
| Fluoranthene | ND | ug/kg | 330 | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/kg | 330 | | | |
| 4-Bromophenyl phenyl ether | ND | ug/kg | 330 | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/kg | 330 | | | |
| Bis(2-chloroethoxy)methane | ND | ug/kg | 330 | | | |
| Hexachlorobutadiene | ND | ug/kg | 670 | | | |
| Hexachlorocyclopentadiene | ND | ug/kg | 670 | | | |
| Hexachloroethane | ND | ug/kg | 330 | | | |
| Isophorone | ND | ug/kg | 330 | | | |
| Naphthalene | ND | ug/kg | 330 | | | |
| Nitrobenzene | ND | ug/kg | 330 | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/kg | 1000 | | | |
| n-Nitrosodi-n-propylamine | ND | ug/kg | 330 | | | |
| Bis(2-Ethylhexyl)phthalate | ND | ug/kg | 670 | | | |
| Butyl benzyl phthalate | ND | ug/kg | 330 | | | |
| Di-n-butylphthalate | ND | ug/kg | 330 | | | |
| Di-n-octylphthalate | ND | ug/kg | 330 | | | |
| Diethyl phthalate | ND | ug/kg | 330 | | | |
| Dimethyl phthalate | ND | ug/kg | 330 | | | |
| Benzo(a)anthracene | ND | ug/kg | 330 | | | |
| Benzo(a)pyrene | ND | ug/kg | 330 | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 330 | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 330 | | | |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0813196

Continued

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP | ANAL | ID |
|--|----------|-------|-------------|------------|--------------|------------|----|
| Blank Analysis for sample(s) 05,20-21,27,30 (WG335363-1) | | | | | | | |
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 8270C | 0906 12:05 | 0910 11:38 | PS |
| Chrysene | ND | ug/kg | 330 | | | | |
| Acenaphthylene | ND | ug/kg | 330 | | | | |
| Anthracene | ND | ug/kg | 330 | | | | |
| Benzo(ghi)perylene | ND | ug/kg | 330 | | | | |
| Fluorene | ND | ug/kg | 330 | | | | |
| Phenanthrene | ND | ug/kg | 330 | | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 330 | | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 330 | | | | |
| Pyrene | ND | ug/kg | 330 | | | | |
| Biphenyl | ND | ug/kg | 330 | | | | |
| 4-Chloroaniline | ND | ug/kg | 330 | | | | |
| 2-Nitroaniline | ND | ug/kg | 330 | | | | |
| 3-Nitroaniline | ND | ug/kg | 330 | | | | |
| 4-Nitroaniline | ND | ug/kg | 470 | | | | |
| Dibenzofuran | ND | ug/kg | 330 | | | | |
| 2-Methylnaphthalene | ND | ug/kg | 330 | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/kg | 1300 | | | | |
| Acetophenone | ND | ug/kg | 1300 | | | | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 330 | | | | |
| P-Chloro-M-Cresol | ND | ug/kg | 330 | | | | |
| 2-Chlorophenol | ND | ug/kg | 400 | | | | |
| 2,4-Dichlorophenol | ND | ug/kg | 670 | | | | |
| 2,4-Dimethylphenol | ND | ug/kg | 330 | | | | |
| 2-Nitrophenol | ND | ug/kg | 1300 | | | | |
| 4-Nitrophenol | ND | ug/kg | 670 | | | | |
| 2,4-Dinitrophenol | ND | ug/kg | 1300 | | | | |
| 4,6-Dinitro-o-cresol | ND | ug/kg | 1300 | | | | |
| Pentachlorophenol | ND | ug/kg | 1300 | | | | |
| Phenol | ND | ug/kg | 470 | | | | |
| 2-Methylphenol | ND | ug/kg | 400 | | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/kg | 400 | | | | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 330 | | | | |
| Benzoic Acid | ND | ug/kg | 3300 | | | | |
| Benzyl Alcohol | ND | ug/kg | 670 | | | | |
| Carbazole | ND | ug/kg | 330 | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | |
| 2-Fluorophenol | 76.0 | % | 25-120 | | | | |
| Phenol-d6 | 71.0 | % | 10-120 | | | | |
| Nitrobenzene-d5 | 67.0 | % | 23-120 | | | | |
| 2-Fluorobiphenyl | 61.0 | % | 30-120 | | | | |
| 2,4,6-Tribromophenol | 65.0 | % | 19-120 | | | | |
| 4-Terphenyl-d14 | 57.0 | % | 18-120 | | | | |
| Blank Analysis for sample(s) 05,20-21,27,30 (WG335365-1) | | | | | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 8270C | 0906 12:05 | 0911 01:54 | AK |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0813196

Continued

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP | ANAL | ID |
|--|----------|-------|-------------|------------|--------------|------------|----|
| Blank Analysis for sample(s) 05,20-21,27,30 (WG335365-1) | | | | | | | |
| Semivolatile Organics by EPA 8270C-SIM cont'd | | | | 1 8270C | 0906 12:05 | 0911 01:54 | AK |
| Acenaphthene | ND | ug/kg | 13. | | | | |
| 2-Chloronaphthalene | ND | ug/kg | 13. | | | | |
| Fluoranthene | ND | ug/kg | 13. | | | | |
| Hexachlorobutadiene | ND | ug/kg | 33. | | | | |
| Naphthalene | ND | ug/kg | 13. | | | | |
| Benzo(a)anthracene | ND | ug/kg | 13. | | | | |
| Benzo(a)pyrene | ND | ug/kg | 13. | | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 13. | | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 13. | | | | |
| Chrysene | ND | ug/kg | 13. | | | | |
| Acenaphthylene | ND | ug/kg | 13. | | | | |
| Anthracene | ND | ug/kg | 13. | | | | |
| Benzo(ghi)perylene | ND | ug/kg | 13. | | | | |
| Fluorene | ND | ug/kg | 13. | | | | |
| Phenanthrene | ND | ug/kg | 13. | | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 13. | | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 13. | | | | |
| Pyrene | ND | ug/kg | 13. | | | | |
| 2-Methylnaphthalene | ND | ug/kg | 13. | | | | |
| Pentachlorophenol | ND | ug/kg | 53. | | | | |
| Hexachlorobenzene | ND | ug/kg | 53. | | | | |
| Hexachloroethane | ND | ug/kg | 53. | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | |
| 2-Fluorophenol | 90.0 | % | 25-120 | | | | |
| Phenol-d6 | 96.0 | % | 10-120 | | | | |
| Nitrobenzene-d5 | 87.0 | % | 23-120 | | | | |
| 2-Fluorobiphenyl | 83.0 | % | 30-120 | | | | |
| 2,4,6-Tribromophenol | 111 | % | 19-120 | | | | |
| 4-Terphenyl-d14 | 89.0 | % | 18-120 | | | | |
| Blank Analysis for sample(s) 21,27,30 (WG335372-1) | | | | | | | |
| Polychlorinated Biphenyls by EPA 8082 | | | | 1 8082 | 0906 12:00 | 0909 19:22 | SH |
| Aroclor 1016 | ND | ug/kg | 33.3 | | | | |
| Aroclor 1221 | ND | ug/kg | 33.3 | | | | |
| Aroclor 1232 | ND | ug/kg | 33.3 | | | | |
| Aroclor 1242 | ND | ug/kg | 33.3 | | | | |
| Aroclor 1248 | ND | ug/kg | 33.3 | | | | |
| Aroclor 1254 | ND | ug/kg | 33.3 | | | | |
| Aroclor 1260 | ND | ug/kg | 33.3 | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 58.0 | % | 30-150 | | | | |
| Decachlorobiphenyl | 56.0 | % | 30-150 | | | | |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0813196

Continued

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP | DATE ANAL | ID |
|--|----------|-------|--------|-------------|--------------|--------------|----|
| Blank Analysis for sample(s) 05,20 (WG336109-1) | | | | | | | |
| Polychlorinated Biphenyls by EPA 8082 | | | | 1 8082 | 0909 23:00 | 0911 12:30 | SH |
| Aroclor 1016 | ND | ug/kg | 33.3 | | | | |
| Aroclor 1221 | ND | ug/kg | 33.3 | | | | |
| Aroclor 1232 | ND | ug/kg | 33.3 | | | | |
| Aroclor 1242 | ND | ug/kg | 33.3 | | | | |
| Aroclor 1248 | ND | ug/kg | 33.3 | | | | |
| Aroclor 1254 | ND | ug/kg | 33.3 | | | | |
| Aroclor 1260 | ND | ug/kg | 33.3 | | | | |
| Surrogate(s) | Recovery | | | QC Criteria | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 63.0 | % | 30-150 | | | | |
| Decachlorobiphenyl | 83.0 | % | 30-150 | | | | |
| Blank Analysis for sample(s) 05,20-21,27,30 (WG335356-1) | | | | | | | |
| Organochlorine Pesticides by EPA 8081A | | | | 1 8081A | 0906 10:30 | 0910 15:27 | SS |
| Delta-BHC | ND | ug/kg | 3.33 | | | | |
| Lindane | ND | ug/kg | 3.33 | | | | |
| Alpha-BHC | ND | ug/kg | 3.33 | | | | |
| Beta-BHC | ND | ug/kg | 3.33 | | | | |
| Heptachlor | ND | ug/kg | 3.33 | | | | |
| Aldrin | ND | ug/kg | 3.33 | | | | |
| Heptachlor epoxide | ND | ug/kg | 3.33 | | | | |
| Endrin | ND | ug/kg | 3.33 | | | | |
| Endrin ketone | ND | ug/kg | 3.33 | | | | |
| Dieldrin | ND | ug/kg | 3.33 | | | | |
| 4,4'-DDE | ND | ug/kg | 3.33 | | | | |
| 4,4'-DDD | ND | ug/kg | 3.33 | | | | |
| 4,4'-DDT | ND | ug/kg | 3.33 | | | | |
| Endosulfan I | ND | ug/kg | 3.33 | | | | |
| Endosulfan II | ND | ug/kg | 3.33 | | | | |
| Endosulfan sulfate | ND | ug/kg | 3.33 | | | | |
| Methoxychlor | ND | ug/kg | 13.3 | | | | |
| trans-Chlordane | ND | ug/kg | 3.33 | | | | |
| Chlordane | ND | ug/kg | 33.3 | | | | |
| Surrogate(s) | Recovery | | | QC Criteria | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 63.0 | % | 30-150 | | | | |
| Decachlorobiphenyl | 95.0 | % | 30-150 | | | | |

**ALPHA ANALYTICAL
ADDENDUM I**

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.
30. Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

GLOSSARY OF TERMS AND SYMBOLS

| | |
|---------|--|
| REF | Reference number in which test method may be found. |
| METHOD | Method number by which analysis was performed. |
| ID | Initials of the analyst. |
| ND | Not detected in comparison to the reported detection limit. |
| NI | Not Ignitable. |
| ug/cart | Micrograms per Cartridge. |
| H | The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection. |

LIMITATION OF LIABILITIES

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

CHAIN OF CUSTODY

PAGE 1 OF 4



Westborough, MA
TEL: 508-898-9220
FAX: 508-898-9193

Project Name: former Doherty Drwy
Project Location: RVC

Client Information

Client: P.W. Grosser
Address: 630 Johnson Avenue, Suite 7
Bohemia, NY 11716
Phone: 631-589-6353

Project #: AWB0801
Project Manager: K. Almsbury
ALPHA Quote #:
Turn-Around Time

Fax: 331-589-8705

☒ Standard ☐ Rush (ONLY IF PRE-APPROVED)

Email:

Due Date: 9/12 Time:

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:
Asp cat. 3 deliverables

ALPHA Lab ID
(Lab Use Only)

Sample ID

Collection Date Time

Sample Matrix

Sampler's Initials

| | | | | | | | |
|------|----|-----------------------|--------|------|---|----|--|
| 7196 | 1 | PW6.SB.2008.05@5-10' | 9/3/08 | 0950 | S | TM | |
| | 2 | PW6.GW.2008.05 | 9/3/08 | 1005 | W | TM | |
| | 3 | PW6.SB.2008.03@10-15' | 9/3/08 | 1040 | S | TM | |
| | 4 | PW6.GW.2008.03 | 9/3/08 | 1055 | W | TM | |
| | 5 | PW6.SB.2008.08@5-10' | 9/3/08 | 1140 | S | TM | |
| | 6 | PW6.GW.2008.08 | 9/3/08 | 1150 | W | TM | |
| | 7 | FB090308 (seil) | 9/3/08 | 1300 | W | TM | |
| | 8 | PW6.SB.2008.02@5-10' | 9/3/08 | 1330 | S | TM | |
| | 9 | PW6.GW.2008.02 | 9/3/08 | 1340 | W | TM | |
| | 10 | PW6.SB.2008.04@5-10' | 9/3/08 | 1430 | S | TM | |

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MA MCP or CT RCP?

Date Rec'd in Lab: 9/5

ALPHA Job #: LO813196

Report Information Data Deliverables

Billing Information

☐ FAX

☐ EMAIL

☐ Same as Client info

PO #:

☒ RDEX ☒ Add'l Deliverables

Regulatory Requirements/Report Limits

State/Fed Program

Criteria

MCP PRESUMPTIVE CERTAINTY-CT REASONABLE CONFIDENCE PROTOCOL

☐ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

ANALYSIS

TCL VOCs
TCL SVOCs
Pest / PCBs
TAL Metals

SAMPLE HANDLING
Filtration
☐ Done
☐ Not Needed
Preservation
☐ Lab to do
(Please specify below)

Sample Specific Comments

Container Type
Preservative

Relinquished By:

Date/Time

Received By:

Date/Time

FORM NC 01-0110
(rev. 30-JUL-07)

Please print clearly, legibly and completely. Samples not be logged in and turnaround time clock will start until any ambiguities resolved. All samples submitted are subject to Alpha's Payment Terms.

John 9/5/08 13:05 5 Voetk 9/5/08 15:05
5 Voetk 9/5/08 16:25 Don't know 9/5/08 16:25
Don't know 9.5.8 1830 Don't know 9/5 1830



CHAIN OF CUSTODY

PAGE 3 OF 3

Project Information

Westborough, MA

TEL: 508-898-9220

FAX: 508-898-9193

Manassett, MA

TEL: 508-822-9900

FAX: 508-822-3288

Project Name:

Focus Delivery

Client Information

Client: P.W. Grosser

Address: 630 Johnson Avenue, Suite 7

Bohemia, NY 11716

Phone: 631-589-6353

Fax: 631-589-8705

Email:

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

APR Cat. B Deliverables

Project Location:

Project #:

Project Manager:

ALPHA Quote #:

Turn-Around Time

☒ Standard

☐ Rush (ONLY IF PRE-APPROVED)

Due Date:

9/12

Date Rec'd in Lab:

9/5

ALPHA Job #:

LO813126

Report Information Data Deliverables

☒ FAX

☐ EMAIL

☒ ADEX

☒ Add'l Deliverables

Regulatory Requirements/Report Limits

State/Fed Program

Criteria

MCP PRESUMPTIVE CERTAINTY-CT REASONABLE CONFIDENCE PROTOCOL

☐ Yes

☐ No

Are MCP Analytical Methods Required?

☐ Yes

☐ No

Are CT RCP (Reasonable Confidence Protocols) Required?

ANALYSIS

SAMPLE HANDLING

Filtration

☐ Done

☐ Not Needed

Lab to do

Preservation

☐ Lab to do

(Please specify below)

ALPHA Lab ID
(Lab Use Only)

Sample ID

Collection
Date Time

Sample
Matrix

Sampler's
Initials

TCL VOCs
TCL SVOCs
Pest/PCBs
TAL Metals

Sample Specific
Comments

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MA MCP or CT RCP?

FORMING 01-0100
(Rev. 03-01-97)

Relinquished By:

Date/Time

Received By:

Date/Time

Container Type
Preservative

Please print clearly, legibly and completely. Samples not be logged in and turnaround time clock will start until any ambiguities resolved. All samples submitted are subject to Alpha's Payment Terms.

Relinquished By: John Doe Date/Time: 9-5-08 13:05
Received By: John Doe Date/Time: 9/5/08 13:05
Relinquished By: John Doe Date/Time: 9/5/08 13:05
Received By: John Doe Date/Time: 9/5/08 13:05

ALPHA ANALYTICAL

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220 www.alphalab.com

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: P.W. Grosser

Laboratory Job Number: L0814755

Address: 630 Johnson Avenue
Suite 7
Bohemia, NY 11716

Date Received: 06-OCT-2008

Date Reported: 14-OCT-2008

Attn: Mr. Kris Almskog

Delivery Method: Alpha

Project Number: AVB0801

Site: AVB0801

| ALPHA SAMPLE NUMBER | CLIENT IDENTIFICATION | SAMPLE LOCATION |
|---------------------|------------------------|------------------------------|
| L0814755-01 | PWG-LP-2008-01 (9-11') | 80-100 BANKS AVE., ROCKVILLE |
| L0814755-02 | MW-1 | 80-100 BANKS AVE., ROCKVILLE |
| L0814755-03 | MW-2 | 80-100 BANKS AVE., ROCKVILLE |
| L0814755-04 | MW-4 | 80-100 BANKS AVE., ROCKVILLE |
| L0814755-05 | MW-5 | 80-100 BANKS AVE., ROCKVILLE |
| L0814755-06 | MW-6 | 80-100 BANKS AVE., ROCKVILLE |
| L0814755-07 | DIFFW-01 | 80-100 BANKS AVE., ROCKVILLE |
| L0814755-08 | DIFFW-02 | 80-100 BANKS AVE., ROCKVILLE |
| L0814755-09 | DIFFW-03 | 80-100 BANKS AVE., ROCKVILLE |
| L0814755-10 | DIFFW-100 | 80-100 BANKS AVE., ROCKVILLE |
| L0814755-11 | FB100308-01 | 80-100 BANKS AVE., ROCKVILLE |
| L0814755-12 | TB100308-01 | 80-100 BANKS AVE., ROCKVILLE |
| L0814755-13 | TB100308-02 | 80-100 BANKS AVE., ROCKVILLE |
| L0814755-14 | TB100608-03 | 80-100 BANKS AVE., ROCKVILLE |
| L0814755-15 | TB100608-04 | 80-100 BANKS AVE., ROCKVILLE |
| L0814755-16 | TB100608-05 | 80-100 BANKS AVE., ROCKVILLE |
| L0814755-17 | MW-4 (EXTRA VOLUME) | 80-100 BANKS AVE., ROCKVILLE |

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: Elizabeth H. Simmons

Technical Representative

**ALPHA ANALYTICAL
NARRATIVE REPORT**

Laboratory Job Number: L0814755

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

Metals

L0814755-02, -06, and -10 have elevated detection limits for Iron due to the 5x dilutions required to quantitate the results within the calibration range.

L0814755-07 has an elevated detection limit for Iron due to the 5x dilution required by non-target analyte spectral interferences encountered during analysis.

The following samples have elevated detection limits for Arsenic due to the dilutions required by non-target analyte spectral interferences encountered during analysis:

L0814755-04: 10x

L0814755-07, -10: 20x

The WG339213-1 Laboratory Duplicate RPDs associated with L0814755-01 are outside the acceptance criteria for Calcium (44%), Copper (62%), Iron (40%), Lead (86%), and Zinc (39%). The elevated RPDs have been attributed to the non-homogenous nature of the sample utilized for the laboratory duplicate.

The WG338986-2 MS recovery for Iron (0%) associated with L0814755-04 is invalid because the sample concentration is greater than four times the spike amount added.

The WG339213-2 MS recoveries associated with L0814755-01 are below the acceptance criteria for Antimony (68%), Calcium (64%), Copper (0%), Lead (49%), Magnesium (73%), Manganese (47%), and Zinc (0%). Post digestion spikes were performed with acceptable recoveries of 94%, 103%, 119%, 101%, 92%, 103%, and 125%, respectively.

The WG339213-2 MS recovery for Iron (0%) associated with L0814755-01 is invalid because the sample concentration is greater than four times the spike amount added.

Volatile Organics

L0814755-06, -08, -09, -10, -14, -15, and -16: The pH of the samples were greater than two; however, the samples were analyzed within the method required holding time. The samples were received in unpreserved vials.

L0814755-06 has elevated detection limits due to the 20x dilution required by the elevated concentrations of target compounds in the sample.

Semivolatile Organics

The WG339098-2/-3 LCS/LCSD recoveries associated with L0814755-02 through -07, -10, and -11 were above the acceptance criteria for 2,4-Dinitrotoluene (119%/115%), p-Chloro-m-cresol (LCS at 98%), and Pentachlorophenol (LCS at 104%); however, the associated samples were non-detect for these target compounds. The results of the original analysis are

ALPHA ANALYTICAL
NARRATIVE REPORT

Laboratory Job Number: L0814755

Continued

reported.

The WG339098-4 MS recovery associated with L0814755-02 through -07, -10, and -11 was above the acceptance criteria for 2,4-Dinitrotoluene (100%); however, the associated samples were non-detect for this target compound. The results of the original analysis are reported.

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0814755-01 | Date Collected: 03-OCT-2008 12:30 |
| PWG-LP-2008-01 (9-11') | Date Received : 06-OCT-2008 |
| Sample Matrix: SOIL | Date Reported : 14-OCT-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 1-Amber,1-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-----------------------|----|
| Solids, Total | 76 | % | 0.10 | 30 2540G | 1009 16:41 | SD |
| Total Metals | | | | | | |
| Aluminum, Total | 1500 | mg/kg | 6.4 | 1 6010B | 1008 16:30 1010 15:09 | AI |
| Antimony, Total | ND | mg/kg | 3.2 | 1 6010B | 1008 16:30 1010 15:09 | AI |
| Arsenic, Total | ND | mg/kg | 0.64 | 1 6010B | 1008 16:30 1010 15:09 | AI |
| Barium, Total | 9.6 | mg/kg | 0.64 | 1 6010B | 1008 16:30 1010 15:09 | AI |
| Beryllium, Total | ND | mg/kg | 0.32 | 1 6010B | 1008 16:30 1010 15:09 | AI |
| Cadmium, Total | ND | mg/kg | 0.64 | 1 6010B | 1008 16:30 1010 15:09 | AI |
| Calcium, Total | 440 | mg/kg | 6.4 | 1 6010B | 1008 16:30 1010 15:09 | AI |
| Chromium, Total | 6.9 | mg/kg | 0.64 | 1 6010B | 1008 16:30 1010 15:09 | AI |
| Cobalt, Total | ND | mg/kg | 1.3 | 1 6010B | 1008 16:30 1010 15:09 | AI |
| Copper, Total | 36 | mg/kg | 0.64 | 1 6010B | 1008 16:30 1010 15:09 | AI |
| Iron, Total | 6600 | mg/kg | 3.2 | 1 6010B | 1008 16:30 1010 15:09 | AI |
| Lead, Total | 23 | mg/kg | 3.2 | 1 6010B | 1008 16:30 1010 15:09 | AI |
| Magnesium, Total | 410 | mg/kg | 6.4 | 1 6010B | 1008 16:30 1010 15:09 | AI |
| Manganese, Total | 33 | mg/kg | 0.64 | 1 6010B | 1008 16:30 1010 15:09 | AI |
| Mercury, Total | ND | mg/kg | 0.10 | 1 7471A | 1007 20:00 1008 12:17 | HG |
| Nickel, Total | 3.0 | mg/kg | 1.6 | 1 6010B | 1008 16:30 1010 15:09 | AI |
| Potassium, Total | ND | mg/kg | 160 | 1 6010B | 1008 16:30 1010 15:09 | AI |
| Selenium, Total | ND | mg/kg | 1.3 | 1 6010B | 1008 16:30 1010 15:09 | AI |
| Silver, Total | ND | mg/kg | 0.64 | 1 6010B | 1008 16:30 1010 15:09 | AI |
| Sodium, Total | ND | mg/kg | 130 | 1 6010B | 1008 16:30 1010 15:09 | AI |
| Thallium, Total | ND | mg/kg | 1.3 | 1 6010B | 1008 16:30 1010 15:09 | AI |
| Vanadium, Total | 6.0 | mg/kg | 0.64 | 1 6010B | 1008 16:30 1010 15:09 | AI |
| Zinc, Total | 120 | mg/kg | 3.2 | 1 6010B | 1008 16:30 1010 15:09 | AI |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 1010 13:59 | PD |
| Methylene chloride | ND | ug/kg | 33. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 4.9 | | | |
| Chloroform | ND | ug/kg | 4.9 | | | |
| Carbon tetrachloride | ND | ug/kg | 3.3 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 12. | | | |
| Dibromochloromethane | ND | ug/kg | 3.3 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 4.9 | | | |
| Tetrachloroethene | 4.9 | ug/kg | 3.3 | | | |
| Chlorobenzene | ND | ug/kg | 3.3 | | | |
| Trichlorofluoromethane | ND | ug/kg | 16. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0814755-01
PWG-LP-2008-01 (9-11')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---------------------------------------|--------|-------|-----|------------|-------|---------------|----|
| | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 1010 13:59 PD | |
| 1,2-Dichloroethane | ND | ug/kg | 3.3 | | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 3.3 | | | | |
| Bromodichloromethane | ND | ug/kg | 3.3 | | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 3.3 | | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 3.3 | | | | |
| 1,1-Dichloropropene | ND | ug/kg | 16. | | | | |
| Bromoform | ND | ug/kg | 13. | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 3.3 | | | | |
| Benzene | ND | ug/kg | 3.3 | | | | |
| Toluene | ND | ug/kg | 4.9 | | | | |
| Ethylbenzene | ND | ug/kg | 3.3 | | | | |
| Chloromethane | ND | ug/kg | 16. | | | | |
| Bromomethane | ND | ug/kg | 6.6 | | | | |
| Vinyl chloride | ND | ug/kg | 6.6 | | | | |
| Chloroethane | ND | ug/kg | 6.6 | | | | |
| 1,1-Dichloroethene | ND | ug/kg | 3.3 | | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 4.9 | | | | |
| Trichloroethene | ND | ug/kg | 3.3 | | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 16. | | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 16. | | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 16. | | | | |
| Methyl tert butyl ether | ND | ug/kg | 6.6 | | | | |
| p/m-Xylene | ND | ug/kg | 6.6 | | | | |
| o-Xylene | ND | ug/kg | 6.6 | | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 3.3 | | | | |
| Dibromomethane | ND | ug/kg | 33. | | | | |
| Styrene | ND | ug/kg | 6.6 | | | | |
| Dichlorodifluoromethane | ND | ug/kg | 33. | | | | |
| Acetone | ND | ug/kg | 33. | | | | |
| Carbon disulfide | ND | ug/kg | 33. | | | | |
| 2-Butanone | ND | ug/kg | 33. | | | | |
| Vinyl acetate | ND | ug/kg | 33. | | | | |
| 4-Methyl-2-pentanone | ND | ug/kg | 33. | | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 33. | | | | |
| 2-Hexanone | ND | ug/kg | 33. | | | | |
| Bromochloromethane | ND | ug/kg | 16. | | | | |
| 2,2-Dichloropropane | ND | ug/kg | 16. | | | | |
| 1,2-Dibromoethane | ND | ug/kg | 13. | | | | |
| 1,3-Dichloropropane | ND | ug/kg | 16. | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 3.3 | | | | |
| Bromobenzene | ND | ug/kg | 16. | | | | |
| n-Butylbenzene | ND | ug/kg | 3.3 | | | | |
| sec-Butylbenzene | ND | ug/kg | 3.3 | | | | |
| tert-Butylbenzene | ND | ug/kg | 16. | | | | |
| o-Chlorotoluene | ND | ug/kg | 16. | | | | |
| p-Chlorotoluene | ND | ug/kg | 16. | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 16. | | | | |
| Hexachlorobutadiene | ND | ug/kg | 16. | | | | |
| Isopropylbenzene | ND | ug/kg | 3.3 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0814755-01
PWG-LP-2008-01 (9-11')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|--------------------------|----|
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 1010 13:59 PD | |
| p-Isopropyltoluene | ND | ug/kg | 3.3 | | | |
| Naphthalene | ND | ug/kg | 16. | | | |
| Acrylonitrile | ND | ug/kg | 33. | | | |
| n-Propylbenzene | ND | ug/kg | 3.3 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 16. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 16. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 16. | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 16. | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 13. | | | |
| 4-Ethyltoluene | ND | ug/kg | 13. | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 13. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 104 | % | 70-130 | | | |
| Toluene-d8 | 102 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 112 | % | 70-130 | | | |
| Dibromofluoromethane | 99.0 | % | 70-130 | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 1008 00:30 1009 12:40 PS | |
| Acenaphthene | ND | ug/kg | 440 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 440 | | | |
| Hexachlorobenzene | ND | ug/kg | 440 | | | |
| Bis(2-chloroethyl)ether | ND | ug/kg | 440 | | | |
| 2-Chloronaphthalene | ND | ug/kg | 530 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 440 | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 440 | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 440 | | | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 880 | | | |
| 2,4-Dinitrotoluene | ND | ug/kg | 440 | | | |
| 2,6-Dinitrotoluene | ND | ug/kg | 440 | | | |
| Fluoranthene | ND | ug/kg | 440 | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/kg | 440 | | | |
| 4-Bromophenyl phenyl ether | ND | ug/kg | 440 | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/kg | 440 | | | |
| Bis(2-chloroethoxy)methane | ND | ug/kg | 440 | | | |
| Hexachlorobutadiene | ND | ug/kg | 880 | | | |
| Hexachlorocyclopentadiene | ND | ug/kg | 880 | | | |
| Hexachloroethane | ND | ug/kg | 440 | | | |
| Isophorone | ND | ug/kg | 440 | | | |
| Naphthalene | ND | ug/kg | 440 | | | |
| Nitrobenzene | ND | ug/kg | 440 | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/kg | 1300 | | | |
| n-Nitrosodi-n-propylamine | ND | ug/kg | 440 | | | |
| Bis(2-Ethylhexyl)phthalate | ND | ug/kg | 880 | | | |
| Butyl benzyl phthalate | ND | ug/kg | 440 | | | |
| Di-n-butylphthalate | ND | ug/kg | 440 | | | |
| Di-n-octylphthalate | ND | ug/kg | 440 | | | |
| Diethyl phthalate | ND | ug/kg | 440 | | | |
| Dimethyl phthalate | ND | ug/kg | 440 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0814755-01
PWG-LP-2008-01 (9-11')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 8270C | 1008 00:30 1009 12:40 PS | |
| Benzo(a)anthracene | ND | ug/kg | 440 | | | |
| Benzo(a)pyrene | ND | ug/kg | 440 | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 440 | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 440 | | | |
| Chrysene | ND | ug/kg | 440 | | | |
| Acenaphthylene | ND | ug/kg | 440 | | | |
| Anthracene | ND | ug/kg | 440 | | | |
| Benzo(ghi)perylene | ND | ug/kg | 440 | | | |
| Fluorene | ND | ug/kg | 440 | | | |
| Phenanthrene | ND | ug/kg | 440 | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 440 | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 440 | | | |
| Pyrene | ND | ug/kg | 440 | | | |
| Biphenyl | ND | ug/kg | 440 | | | |
| 4-Chloroaniline | ND | ug/kg | 440 | | | |
| 2-Nitroaniline | ND | ug/kg | 440 | | | |
| 3-Nitroaniline | ND | ug/kg | 440 | | | |
| 4-Nitroaniline | ND | ug/kg | 610 | | | |
| Dibenzofuran | ND | ug/kg | 440 | | | |
| 2-Methylnaphthalene | ND | ug/kg | 440 | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/kg | 1800 | | | |
| Acetophenone | ND | ug/kg | 1800 | | | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 440 | | | |
| p-Chloro-M-Cresol | ND | ug/kg | 440 | | | |
| 2-Chlorophenol | ND | ug/kg | 530 | | | |
| 2,4-Dichlorophenol | ND | ug/kg | 880 | | | |
| 2,4-Dimethylphenol | ND | ug/kg | 440 | | | |
| 2-Nitrophenol | ND | ug/kg | 1800 | | | |
| 4-Nitrophenol | ND | ug/kg | 880 | | | |
| 2,4-Dinitrophenol | ND | ug/kg | 1800 | | | |
| 4,6-Dinitro-o-cresol | ND | ug/kg | 1800 | | | |
| Pentachlorophenol | ND | ug/kg | 1800 | | | |
| Phenol | ND | ug/kg | 610 | | | |
| 2-Methylphenol | ND | ug/kg | 530 | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/kg | 530 | | | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 440 | | | |
| Benzoic Acid | ND | ug/kg | 4400 | | | |
| Benzyl Alcohol | ND | ug/kg | 880 | | | |
| Carbazole | ND | ug/kg | 440 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 65.0 | % | 25-120 | | | |
| Phenol-d6 | 63.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 56.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 58.0 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 76.0 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 62.0 | % | 18-120 | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 8270C | 1008 01:00 1013 20:51 AK | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0814755-01
PWG-LP-2008-01 (9-11')

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---|----------|-------|-------------|------------|-------|-----------------------|----|
| | | | | | PREP | ANAL | |
| Semivolatile Organics by EPA 8270C-SIM cont'd | | | | 1 | 8270C | 1008 01:00 1013 20:51 | AK |
| Acenaphthene | ND | ug/kg | 18. | | | | |
| 2-Chloronaphthalene | ND | ug/kg | 18. | | | | |
| Fluoranthene | ND | ug/kg | 18. | | | | |
| Hexachlorobutadiene | ND | ug/kg | 44. | | | | |
| Naphthalene | ND | ug/kg | 18. | | | | |
| Benzo(a)anthracene | ND | ug/kg | 18. | | | | |
| Benzo(a)pyrene | ND | ug/kg | 18. | | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 18. | | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 18. | | | | |
| Chrysene | ND | ug/kg | 18. | | | | |
| Acenaphthylene | ND | ug/kg | 18. | | | | |
| Anthracene | ND | ug/kg | 18. | | | | |
| Benzo(ghi)perylene | ND | ug/kg | 18. | | | | |
| Fluorene | ND | ug/kg | 18. | | | | |
| Phenanthrene | ND | ug/kg | 18. | | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 18. | | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 18. | | | | |
| Pyrene | ND | ug/kg | 18. | | | | |
| 2-Methylnaphthalene | ND | ug/kg | 18. | | | | |
| Pentachlorophenol | ND | ug/kg | 70. | | | | |
| Hexachlorobenzene | ND | ug/kg | 70. | | | | |
| Hexachloroethane | ND | ug/kg | 70. | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | |
| 2-Fluorophenol | 74.0 | % | 25-120 | | | | |
| Phenol-d6 | 78.0 | % | 10-120 | | | | |
| Nitrobenzene-d5 | 72.0 | % | 23-120 | | | | |
| 2-Fluorobiphenyl | 67.0 | % | 30-120 | | | | |
| 2,4,6-Tribromophenol | 75.0 | % | 19-120 | | | | |
| 4-Terphenyl-d14 | 71.0 | % | 18-120 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0814755-02 | Date Collected: 03-OCT-2008 12:20 |
| MW-1 | Date Received : 06-OCT-2008 |
| Sample Matrix: WATER | Date Reported : 14-OCT-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 6-Amber,1-Plastic,2-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|--------|------------|--------------------------|----|
| Total Metals | | | | | | |
| Aluminum, Total | 190 | mg/l | 0.10 | 1 6010B | 1007 11:00 1010 14:27 AI | |
| Antimony, Total | ND | mg/l | 0.050 | 1 6010B | 1007 11:00 1010 14:27 AI | |
| Arsenic, Total | 0.291 | mg/l | 0.005 | 1 6010B | 1007 11:00 1010 14:27 AI | |
| Barium, Total | 0.576 | mg/l | 0.010 | 1 6010B | 1007 11:00 1010 14:27 AI | |
| Beryllium, Total | 0.008 | mg/l | 0.005 | 1 6010B | 1007 11:00 1010 14:27 AI | |
| Cadmium, Total | 0.011 | mg/l | 0.005 | 1 6010B | 1007 11:00 1010 14:27 AI | |
| Calcium, Total | 57 | mg/l | 0.10 | 1 6010B | 1007 11:00 1010 14:27 AI | |
| Chromium, Total | 0.40 | mg/l | 0.01 | 1 6010B | 1007 11:00 1010 14:27 AI | |
| Cobalt, Total | 0.198 | mg/l | 0.020 | 1 6010B | 1007 11:00 1010 14:27 AI | |
| Copper, Total | 0.312 | mg/l | 0.010 | 1 6010B | 1007 11:00 1010 14:27 AI | |
| Iron, Total | 360 | mg/l | 0.25 | 1 6010B | 1007 11:00 1010 15:26 AI | |
| Lead, Total | 0.394 | mg/l | 0.010 | 1 6010B | 1007 11:00 1010 14:27 AI | |
| Magnesium, Total | 54 | mg/l | 0.10 | 1 6010B | 1007 11:00 1010 14:27 AI | |
| Manganese, Total | 5.13 | mg/l | 0.010 | 1 6010B | 1007 11:00 1010 14:27 AI | |
| Mercury, Total | 0.0027 | mg/l | 0.0002 | 1 7470A | 1007 22:00 1008 11:35 HG | |
| Nickel, Total | 0.341 | mg/l | 0.025 | 1 6010B | 1007 11:00 1010 14:27 AI | |
| Potassium, Total | 16 | mg/l | 2.5 | 1 6010B | 1007 11:00 1010 14:27 AI | |
| Selenium, Total | ND | mg/l | 0.010 | 1 6010B | 1007 11:00 1010 14:27 AI | |
| Silver, Total | ND | mg/l | 0.007 | 1 6010B | 1007 11:00 1010 14:27 AI | |
| Sodium, Total | 15 | mg/l | 2.0 | 1 6010B | 1007 11:00 1010 14:27 AI | |
| Thallium, Total | ND | mg/l | 0.020 | 1 6010B | 1007 11:00 1010 14:27 AI | |
| Vanadium, Total | 0.602 | mg/l | 0.010 | 1 6010B | 1007 11:00 1010 14:27 AI | |
| Zinc, Total | 1.32 | mg/l | 0.050 | 1 6010B | 1007 11:00 1010 14:27 AI | |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 1009 17:52 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | |
| Chloroform | ND | ug/l | 0.75 | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | |
| Tetrachloroethene | ND | ug/l | 0.50 | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0814755-02
MW-1

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|--------|-------|------|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 1009 17:52 PD | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | | | |
| Bromoform | ND | ug/l | 2.0 | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | | |
| Benzene | ND | ug/l | 0.50 | | | | | |
| Toluene | ND | ug/l | 0.75 | | | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | | | |
| Chloromethane | ND | ug/l | 2.5 | | | | | |
| Bromomethane | ND | ug/l | 1.0 | | | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | | | |
| Chloroethane | ND | ug/l | 1.0 | | | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | | | |
| Trichloroethene | ND | ug/l | 0.50 | | | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | | | |
| Methyl tert butyl ether | ND | ug/l | 1.0 | | | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | | | |
| o-Xylene | ND | ug/l | 1.0 | | | | | |
| cis-1,2-Dichloroethene | ND | ug/l | 0.50 | | | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | | | |
| Styrene | ND | ug/l | 1.0 | | | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | | | |
| Acetone | ND | ug/l | 5.0 | | | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | | | |
| 2-Butanone | ND | ug/l | 5.0 | | | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | | | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0814755-02
MW-1

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|--------------------------|----|
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 1009 17:52 PD | |
| Naphthalene | ND | ug/l | 2.5 | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 104 | % | 70-130 | | | |
| Toluene-d8 | 99.0 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 107 | % | 70-130 | | | |
| Dibromofluoromethane | 97.0 | % | 70-130 | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 1008 00:45 1010 15:11 PS | |
| Acenaphthene | ND | ug/l | 4.9 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 4.9 | | | |
| Hexachlorobenzene | ND | ug/l | 4.9 | | | |
| Bis(2-chloroethyl)ether | ND | ug/l | 4.9 | | | |
| 2-Chloronaphthalene | ND | ug/l | 5.9 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 4.9 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 4.9 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 4.9 | | | |
| 3,3'-Dichlorobenzidine | ND | ug/l | 49. | | | |
| 2,4-Dinitrotoluene | ND | ug/l | 5.9 | | | |
| 2,6-Dinitrotoluene | ND | ug/l | 4.9 | | | |
| Fluoranthene | ND | ug/l | 4.9 | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/l | 4.9 | | | |
| 4-Bromophenyl phenyl ether | ND | ug/l | 4.9 | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/l | 4.9 | | | |
| Bis(2-chloroethoxy)methane | ND | ug/l | 4.9 | | | |
| Hexachlorobutadiene | ND | ug/l | 9.8 | | | |
| Hexachlorocyclopentadiene | ND | ug/l | 29. | | | |
| Hexachloroethane | ND | ug/l | 4.9 | | | |
| Isophorone | ND | ug/l | 4.9 | | | |
| Naphthalene | ND | ug/l | 4.9 | | | |
| Nitrobenzene | ND | ug/l | 4.9 | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/l | 15. | | | |
| n-Nitrosodi-n-propylamine | ND | ug/l | 4.9 | | | |
| Bis(2-Ethylhexyl)phthalate | ND | ug/l | 4.9 | | | |
| Butyl benzyl phthalate | ND | ug/l | 4.9 | | | |
| Di-n-butylphthalate | ND | ug/l | 4.9 | | | |
| Di-n-octylphthalate | ND | ug/l | 4.9 | | | |
| Diethyl phthalate | ND | ug/l | 4.9 | | | |
| Dimethyl phthalate | ND | ug/l | 4.9 | | | |
| Benzo(a)anthracene | ND | ug/l | 4.9 | | | |
| Benzo(a)pyrene | ND | ug/l | 4.9 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0814755-02
MW-1

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---|----------|-------|-------------|-----|--------|------------|------------|----|
| | | | | | | PREP | ANAL | |
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 | 8270C | 1008 00:45 | 1010 15:11 | PS |
| Benzo(b)fluoranthene | ND | ug/l | 4.9 | | | | | |
| Benzo(k)fluoranthene | ND | ug/l | 4.9 | | | | | |
| Chrysene | ND | ug/l | 4.9 | | | | | |
| Acenaphthylene | ND | ug/l | 4.9 | | | | | |
| Anthracene | ND | ug/l | 4.9 | | | | | |
| Benzo(ghi)perylene | ND | ug/l | 4.9 | | | | | |
| Fluorene | ND | ug/l | 4.9 | | | | | |
| Phenanthrene | ND | ug/l | 4.9 | | | | | |
| Dibenzo(a,h)anthracene | ND | ug/l | 4.9 | | | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/l | 6.8 | | | | | |
| Pyrene | ND | ug/l | 4.9 | | | | | |
| Biphenyl | ND | ug/l | 4.9 | | | | | |
| 4-Chloroaniline | ND | ug/l | 4.9 | | | | | |
| 2-Nitroaniline | ND | ug/l | 4.9 | | | | | |
| 3-Nitroaniline | ND | ug/l | 4.9 | | | | | |
| 4-Nitroaniline | ND | ug/l | 6.8 | | | | | |
| Dibenzofuran | ND | ug/l | 4.9 | | | | | |
| 2-Methylnaphthalene | ND | ug/l | 4.9 | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/l | 20. | | | | | |
| Acetophenone | ND | ug/l | 20. | | | | | |
| 2,4,6-Trichlorophenol | ND | ug/l | 4.9 | | | | | |
| P-Chloro-M-Cresol | ND | ug/l | 4.9 | | | | | |
| 2-Chlorophenol | ND | ug/l | 5.9 | | | | | |
| 2,4-Dichlorophenol | ND | ug/l | 9.8 | | | | | |
| 2,4-Dimethylphenol | ND | ug/l | 9.8 | | | | | |
| 2-Nitrophenol | ND | ug/l | 20. | | | | | |
| 4-Nitrophenol | ND | ug/l | 9.8 | | | | | |
| 2,4-Dinitrophenol | ND | ug/l | 29. | | | | | |
| 4,6-Dinitro-o-cresol | ND | ug/l | 20. | | | | | |
| Pentachlorophenol | ND | ug/l | 9.8 | | | | | |
| Phenol | ND | ug/l | 6.8 | | | | | |
| 2-Methylphenol | ND | ug/l | 5.9 | | | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/l | 5.9 | | | | | |
| 2,4,5-Trichlorophenol | ND | ug/l | 4.9 | | | | | |
| Benzoic Acid | ND | ug/l | 49. | | | | | |
| Benzyl Alcohol | ND | ug/l | 9.8 | | | | | |
| Carbazole | ND | ug/l | 4.9 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 2-Fluorophenol | 53.0 | % | 21-120 | | | | | |
| Phenol-d6 | 35.0 | % | 10-120 | | | | | |
| Nitrobenzene-d5 | 70.0 | % | 23-120 | | | | | |
| 2-Fluorobiphenyl | 70.0 | % | 43-120 | | | | | |
| 2,4,6-Tribromophenol | 110 | % | 10-120 | | | | | |
| 4-Terphenyl-d14 | 91.0 | % | 33-120 | | | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 | 8270C | 1008 00:45 | 1011 01:09 | AK |
| Acenaphthene | ND | ug/l | 0.20 | | | | | |
| 2-Chloronaphthalene | ND | ug/l | 0.20 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0814755-02
MW-1

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C-SIM cont'd | | | | 1 8270C | 1008 00:45 1011 01:09 AK | |
| Fluoranthene | ND | ug/l | 0.20 | | | |
| Hexachlorobutadiene | ND | ug/l | 0.49 | | | |
| Naphthalene | ND | ug/l | 0.20 | | | |
| Benzo(a)anthracene | ND | ug/l | 0.20 | | | |
| Benzo(a)pyrene | ND | ug/l | 0.20 | | | |
| Benzo(b)fluoranthene | ND | ug/l | 0.20 | | | |
| Benzo(k)fluoranthene | ND | ug/l | 0.20 | | | |
| Chrysene | ND | ug/l | 0.20 | | | |
| Acenaphthylene | ND | ug/l | 0.20 | | | |
| Anthracene | ND | ug/l | 0.20 | | | |
| Benzo(ghi)perylene | ND | ug/l | 0.20 | | | |
| Fluorene | ND | ug/l | 0.20 | | | |
| Phenanthrene | ND | ug/l | 0.20 | | | |
| Dibenzo(a,h)anthracene | ND | ug/l | 0.20 | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/l | 0.20 | | | |
| Pyrene | ND | ug/l | 0.20 | | | |
| 2-Methylnaphthalene | ND | ug/l | 0.20 | | | |
| Pentachlorophenol | ND | ug/l | 0.78 | | | |
| Hexachlorobenzene | ND | ug/l | 0.78 | | | |
| Hexachloroethane | ND | ug/l | 0.78 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 51.0 | % | 21-120 | | | |
| Phenol-d6 | 37.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 78.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 73.0 | % | 43-120 | | | |
| 2,4,6-Tribromophenol | 94.0 | % | 10-120 | | | |
| 4-Terphenyl-d14 | 88.0 | % | 33-120 | | | |
| Polychlorinated Biphenyls by EPA 8082 | | | | 1 8082 | 1008 02:30 1009 15:29 SS | |
| Aroclor 1016 | ND | ug/l | 0.100 | | | |
| Aroclor 1221 | ND | ug/l | 0.100 | | | |
| Aroclor 1232 | ND | ug/l | 0.100 | | | |
| Aroclor 1242 | ND | ug/l | 0.100 | | | |
| Aroclor 1248 | ND | ug/l | 0.100 | | | |
| Aroclor 1254 | ND | ug/l | 0.100 | | | |
| Aroclor 1260 | ND | ug/l | 0.100 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 58.0 | % | 30-150 | | | |
| Decachlorobiphenyl | 94.0 | % | 30-150 | | | |
| Organochlorine Pesticides by EPA 8081A | | | | 1 8081A | 1008 05:00 1009 12:46 JB | |
| Delta-BHC | ND | ug/l | 0.021 | | | |
| Lindane | ND | ug/l | 0.021 | | | |
| Alpha-BHC | ND | ug/l | 0.021 | | | |
| Beta-BHC | ND | ug/l | 0.021 | | | |
| Heptachlor | ND | ug/l | 0.021 | | | |
| Aldrin | ND | ug/l | 0.021 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0814755-02
MW-1

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---|----------|-------|-------------|-----|--------|------------|------------|----|
| | | | | | | PREP | ANAL | |
| | | | | | | | | |
| Organochlorine Pesticides by EPA 8081A cont'd | | | | 1 | 8081A | 1008 05:00 | 1009 12:46 | JB |
| Heptachlor epoxide | ND | ug/l | 0.021 | | | | | |
| Endrin | ND | ug/l | 0.041 | | | | | |
| Endrin ketone | ND | ug/l | 0.041 | | | | | |
| Dieldrin | ND | ug/l | 0.041 | | | | | |
| 4,4'-DDE | ND | ug/l | 0.041 | | | | | |
| 4,4'-DDD | ND | ug/l | 0.041 | | | | | |
| 4,4'-DDT | ND | ug/l | 0.041 | | | | | |
| Endosulfan I | ND | ug/l | 0.021 | | | | | |
| Endosulfan II | ND | ug/l | 0.041 | | | | | |
| Endosulfan sulfate | ND | ug/l | 0.041 | | | | | |
| Methoxychlor | ND | ug/l | 0.206 | | | | | |
| trans-Chlordane | ND | ug/l | 0.021 | | | | | |
| Chlordane | ND | ug/l | 0.206 | | | | | |
| | | | | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 89.0 | % | 30-150 | | | | | |
| Decachlorobiphenyl | 74.0 | % | 30-150 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0814755-03 | Date Collected: 03-OCT-2008 10:25 |
| MW-2 | Date Received : 06-OCT-2008 |
| Sample Matrix: WATER | Date Reported : 14-OCT-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 6-Amber,1-Plastic,2-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|--------|------------|--------------------------|----|
| Total Metals | | | | | | |
| Aluminum, Total | 0.63 | mg/l | 0.10 | 1 6010B | 1007 11:00 1010 14:14 AI | |
| Antimony, Total | ND | mg/l | 0.050 | 1 6010B | 1007 11:00 1010 14:14 AI | |
| Arsenic, Total | 0.007 | mg/l | 0.005 | 1 6010B | 1007 11:00 1010 14:14 AI | |
| Barium, Total | ND | mg/l | 0.010 | 1 6010B | 1007 11:00 1010 14:14 AI | |
| Beryllium, Total | ND | mg/l | 0.005 | 1 6010B | 1007 11:00 1010 14:14 AI | |
| Cadmium, Total | ND | mg/l | 0.005 | 1 6010B | 1007 11:00 1010 14:14 AI | |
| Calcium, Total | 13 | mg/l | 0.10 | 1 6010B | 1007 11:00 1010 14:14 AI | |
| Chromium, Total | ND | mg/l | 0.01 | 1 6010B | 1007 11:00 1010 14:14 AI | |
| Cobalt, Total | ND | mg/l | 0.020 | 1 6010B | 1007 11:00 1010 14:14 AI | |
| Copper, Total | ND | mg/l | 0.010 | 1 6010B | 1007 11:00 1010 14:14 AI | |
| Iron, Total | 11 | mg/l | 0.05 | 1 6010B | 1007 11:00 1010 14:14 AI | |
| Lead, Total | ND | mg/l | 0.010 | 1 6010B | 1007 11:00 1010 14:14 AI | |
| Magnesium, Total | 2.6 | mg/l | 0.10 | 1 6010B | 1007 11:00 1010 14:14 AI | |
| Manganese, Total | 0.280 | mg/l | 0.010 | 1 6010B | 1007 11:00 1010 14:14 AI | |
| Mercury, Total | ND | mg/l | 0.0002 | 1 7470A | 1007 22:00 1008 11:37 HG | |
| Nickel, Total | ND | mg/l | 0.025 | 1 6010B | 1007 11:00 1010 14:14 AI | |
| Potassium, Total | ND | mg/l | 2.5 | 1 6010B | 1007 11:00 1010 14:14 AI | |
| Selenium, Total | ND | mg/l | 0.010 | 1 6010B | 1007 11:00 1010 14:14 AI | |
| Silver, Total | ND | mg/l | 0.007 | 1 6010B | 1007 11:00 1010 14:14 AI | |
| Sodium, Total | ND | mg/l | 2.0 | 1 6010B | 1007 11:00 1010 14:14 AI | |
| Thallium, Total | ND | mg/l | 0.020 | 1 6010B | 1007 11:00 1010 14:14 AI | |
| Vanadium, Total | ND | mg/l | 0.010 | 1 6010B | 1007 11:00 1010 14:14 AI | |
| Zinc, Total | ND | mg/l | 0.050 | 1 6010B | 1007 11:00 1010 14:14 AI | |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 1009 18:29 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | |
| Chloroform | ND | ug/l | 0.75 | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | |
| Tetrachloroethene | ND | ug/l | 0.50 | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0814755-03
MW-2

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|--------|-------|------|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 1009 18:29 PD | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | | | |
| Bromoform | ND | ug/l | 2.0 | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | | |
| Benzene | ND | ug/l | 0.50 | | | | | |
| Toluene | ND | ug/l | 0.75 | | | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | | | |
| Chloromethane | ND | ug/l | 2.5 | | | | | |
| Bromomethane | ND | ug/l | 1.0 | | | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | | | |
| Chloroethane | ND | ug/l | 1.0 | | | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | | | |
| Trichloroethene | ND | ug/l | 0.50 | | | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | | | |
| Methyl tert butyl ether | ND | ug/l | 1.0 | | | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | | | |
| o-Xylene | ND | ug/l | 1.0 | | | | | |
| cis-1,2-Dichloroethene | ND | ug/l | 0.50 | | | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | | | |
| Styrene | ND | ug/l | 1.0 | | | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | | | |
| Acetone | ND | ug/l | 5.0 | | | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | | | |
| 2-Butanone | ND | ug/l | 5.0 | | | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | | | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0814755-03
MW-2

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|--------------------------|----|
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 1009 18:29 PD | |
| Naphthalene | ND | ug/l | 2.5 | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 107 | % | 70-130 | | | |
| Toluene-d8 | 101 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 108 | % | 70-130 | | | |
| Dibromofluoromethane | 95.0 | % | 70-130 | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 1008 00:45 1010 15:35 PS | |
| Acenaphthene | ND | ug/l | 4.9 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 4.9 | | | |
| Hexachlorobenzene | ND | ug/l | 4.9 | | | |
| Bis(2-chloroethyl)ether | ND | ug/l | 4.9 | | | |
| 2-Chloronaphthalene | ND | ug/l | 5.9 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 4.9 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 4.9 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 4.9 | | | |
| 3,3'-Dichlorobenzidine | ND | ug/l | 49. | | | |
| 2,4-Dinitrotoluene | ND | ug/l | 5.9 | | | |
| 2,6-Dinitrotoluene | ND | ug/l | 4.9 | | | |
| Fluoranthene | ND | ug/l | 4.9 | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/l | 4.9 | | | |
| 4-Bromophenyl phenyl ether | ND | ug/l | 4.9 | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/l | 4.9 | | | |
| Bis(2-chloroethoxy)methane | ND | ug/l | 4.9 | | | |
| Hexachlorobutadiene | ND | ug/l | 9.8 | | | |
| Hexachlorocyclopentadiene | ND | ug/l | 29. | | | |
| Hexachloroethane | ND | ug/l | 4.9 | | | |
| Isophorone | ND | ug/l | 4.9 | | | |
| Naphthalene | ND | ug/l | 4.9 | | | |
| Nitrobenzene | ND | ug/l | 4.9 | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/l | 15. | | | |
| n-Nitrosodi-n-propylamine | ND | ug/l | 4.9 | | | |
| Bis(2-Ethylhexyl)phthalate | ND | ug/l | 4.9 | | | |
| Butyl benzyl phthalate | ND | ug/l | 4.9 | | | |
| Di-n-butylphthalate | ND | ug/l | 4.9 | | | |
| Di-n-octylphthalate | ND | ug/l | 4.9 | | | |
| Diethyl phthalate | ND | ug/l | 4.9 | | | |
| Dimethyl phthalate | ND | ug/l | 4.9 | | | |
| Benzo(a)anthracene | ND | ug/l | 4.9 | | | |
| Benzo(a)pyrene | ND | ug/l | 4.9 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0814755-03
MW-2

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---|----------|-------|-------------|-----|--------|------------|------------|----|
| | | | | | | PREP | ANAL | |
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 | 8270C | 1008 00:45 | 1010 15:35 | PS |
| Benzo(b)fluoranthene | ND | ug/l | 4.9 | | | | | |
| Benzo(k)fluoranthene | ND | ug/l | 4.9 | | | | | |
| Chrysene | ND | ug/l | 4.9 | | | | | |
| Acenaphthylene | ND | ug/l | 4.9 | | | | | |
| Anthracene | ND | ug/l | 4.9 | | | | | |
| Benzo(ghi)perylene | ND | ug/l | 4.9 | | | | | |
| Fluorene | ND | ug/l | 4.9 | | | | | |
| Phenanthrene | ND | ug/l | 4.9 | | | | | |
| Dibenzo(a,h)anthracene | ND | ug/l | 4.9 | | | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/l | 6.8 | | | | | |
| Pyrene | ND | ug/l | 4.9 | | | | | |
| Biphenyl | ND | ug/l | 4.9 | | | | | |
| 4-Chloroaniline | ND | ug/l | 4.9 | | | | | |
| 2-Nitroaniline | ND | ug/l | 4.9 | | | | | |
| 3-Nitroaniline | ND | ug/l | 4.9 | | | | | |
| 4-Nitroaniline | ND | ug/l | 6.8 | | | | | |
| Dibenzofuran | ND | ug/l | 4.9 | | | | | |
| 2-Methylnaphthalene | ND | ug/l | 4.9 | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/l | 20. | | | | | |
| Acetophenone | ND | ug/l | 20. | | | | | |
| 2,4,6-Trichlorophenol | ND | ug/l | 4.9 | | | | | |
| P-Chloro-M-Cresol | ND | ug/l | 4.9 | | | | | |
| 2-Chlorophenol | ND | ug/l | 5.9 | | | | | |
| 2,4-Dichlorophenol | ND | ug/l | 9.8 | | | | | |
| 2,4-Dimethylphenol | ND | ug/l | 9.8 | | | | | |
| 2-Nitrophenol | ND | ug/l | 20. | | | | | |
| 4-Nitrophenol | ND | ug/l | 9.8 | | | | | |
| 2,4-Dinitrophenol | ND | ug/l | 29. | | | | | |
| 4,6-Dinitro-o-cresol | ND | ug/l | 20. | | | | | |
| Pentachlorophenol | ND | ug/l | 9.8 | | | | | |
| Phenol | ND | ug/l | 6.8 | | | | | |
| 2-Methylphenol | ND | ug/l | 5.9 | | | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/l | 5.9 | | | | | |
| 2,4,5-Trichlorophenol | ND | ug/l | 4.9 | | | | | |
| Benzoic Acid | ND | ug/l | 49. | | | | | |
| Benzyl Alcohol | ND | ug/l | 9.8 | | | | | |
| Carbazole | ND | ug/l | 4.9 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 2-Fluorophenol | 44.0 | % | 21-120 | | | | | |
| Phenol-d6 | 30.0 | % | 10-120 | | | | | |
| Nitrobenzene-d5 | 61.0 | % | 23-120 | | | | | |
| 2-Fluorobiphenyl | 66.0 | % | 43-120 | | | | | |
| 2,4,6-Tribromophenol | 105 | % | 10-120 | | | | | |
| 4-Terphenyl-d14 | 88.0 | % | 33-120 | | | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 | 8270C | 1008 00:45 | 1011 01:55 | AK |
| Acenaphthene | ND | ug/l | 0.20 | | | | | |
| 2-Chloronaphthalene | ND | ug/l | 0.20 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0814755-03
MW-2

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C-SIM cont'd | | | | 1 8270C | 1008 00:45 1011 01:55 AK | |
| Fluoranthene | ND | ug/l | 0.20 | | | |
| Hexachlorobutadiene | ND | ug/l | 0.49 | | | |
| Naphthalene | ND | ug/l | 0.20 | | | |
| Benzo(a)anthracene | ND | ug/l | 0.20 | | | |
| Benzo(a)pyrene | ND | ug/l | 0.20 | | | |
| Benzo(b)fluoranthene | ND | ug/l | 0.20 | | | |
| Benzo(k)fluoranthene | ND | ug/l | 0.20 | | | |
| Chrysene | ND | ug/l | 0.20 | | | |
| Acenaphthylene | ND | ug/l | 0.20 | | | |
| Anthracene | ND | ug/l | 0.20 | | | |
| Benzo(ghi)perylene | ND | ug/l | 0.20 | | | |
| Fluorene | ND | ug/l | 0.20 | | | |
| Phenanthrene | ND | ug/l | 0.20 | | | |
| Dibenzo(a,h)anthracene | ND | ug/l | 0.20 | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/l | 0.20 | | | |
| Pyrene | ND | ug/l | 0.20 | | | |
| 2-Methylnaphthalene | ND | ug/l | 0.20 | | | |
| Pentachlorophenol | ND | ug/l | 0.78 | | | |
| Hexachlorobenzene | ND | ug/l | 0.78 | | | |
| Hexachloroethane | ND | ug/l | 0.78 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 44.0 | % | 21-120 | | | |
| Phenol-d6 | 34.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 71.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 72.0 | % | 43-120 | | | |
| 2,4,6-Tribromophenol | 91.0 | % | 10-120 | | | |
| 4-Terphenyl-d14 | 90.0 | % | 33-120 | | | |
| Polychlorinated Biphenyls by EPA 8082 | | | | 1 8082 | 1008 02:30 1009 15:42 SS | |
| Aroclor 1016 | ND | ug/l | 0.100 | | | |
| Aroclor 1221 | ND | ug/l | 0.100 | | | |
| Aroclor 1232 | ND | ug/l | 0.100 | | | |
| Aroclor 1242 | ND | ug/l | 0.100 | | | |
| Aroclor 1248 | ND | ug/l | 0.100 | | | |
| Aroclor 1254 | ND | ug/l | 0.100 | | | |
| Aroclor 1260 | ND | ug/l | 0.100 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 70.0 | % | 30-150 | | | |
| Decachlorobiphenyl | 92.0 | % | 30-150 | | | |
| Organochlorine Pesticides by EPA 8081A | | | | 1 8081A | 1008 05:00 1009 12:33 JB | |
| Delta-BHC | ND | ug/l | 0.020 | | | |
| Lindane | ND | ug/l | 0.020 | | | |
| Alpha-BHC | ND | ug/l | 0.020 | | | |
| Beta-BHC | ND | ug/l | 0.020 | | | |
| Heptachlor | ND | ug/l | 0.020 | | | |
| Aldrin | ND | ug/l | 0.020 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0814755-03
MW-2

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---|----------|-------|-------------|-----|--------|------------|------------|----|
| | | | | | | PREP | ANAL | |
| | | | | | | | | |
| Organochlorine Pesticides by EPA 8081A cont'd | | | | 1 | 8081A | 1008 05:00 | 1009 12:33 | JB |
| Heptachlor epoxide | ND | ug/l | 0.020 | | | | | |
| Endrin | ND | ug/l | 0.040 | | | | | |
| Endrin ketone | ND | ug/l | 0.040 | | | | | |
| Dieldrin | ND | ug/l | 0.040 | | | | | |
| 4,4'-DDE | ND | ug/l | 0.040 | | | | | |
| 4,4'-DDD | ND | ug/l | 0.040 | | | | | |
| 4,4'-DDT | ND | ug/l | 0.040 | | | | | |
| Endosulfan I | ND | ug/l | 0.020 | | | | | |
| Endosulfan II | ND | ug/l | 0.040 | | | | | |
| Endosulfan sulfate | ND | ug/l | 0.040 | | | | | |
| Methoxychlor | ND | ug/l | 0.200 | | | | | |
| trans-Chlordane | ND | ug/l | 0.020 | | | | | |
| Chlordane | ND | ug/l | 0.200 | | | | | |
| | | | | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 85.0 | % | 30-150 | | | | | |
| Decachlorobiphenyl | 79.0 | % | 30-150 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|---|--|
| Laboratory Sample Number: L0814755-04 | Date Collected: 03-OCT-2008 14:40 |
| MW-4 | Date Received : 06-OCT-2008 |
| Sample Matrix: WATER | Date Reported : 14-OCT-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 18-Amber,2-Plastic,6-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|--------|------------|--------------------------|----|
| Total Metals | | | | | | |
| Aluminum, Total | 10 | mg/l | 0.10 | 1 6010B | 1007 11:00 1010 13:36 AI | |
| Antimony, Total | ND | mg/l | 0.050 | 1 6010B | 1007 11:00 1010 13:36 AI | |
| Arsenic, Total | ND | mg/l | 0.050 | 1 6010B | 1007 11:00 1010 16:44 AI | |
| Barium, Total | 0.039 | mg/l | 0.010 | 1 6010B | 1007 11:00 1010 13:36 AI | |
| Beryllium, Total | ND | mg/l | 0.005 | 1 6010B | 1007 11:00 1010 13:36 AI | |
| Cadmium, Total | ND | mg/l | 0.005 | 1 6010B | 1007 11:00 1010 13:36 AI | |
| Calcium, Total | 17 | mg/l | 0.10 | 1 6010B | 1007 11:00 1010 13:36 AI | |
| Chromium, Total | 0.02 | mg/l | 0.01 | 1 6010B | 1007 11:00 1010 13:36 AI | |
| Cobalt, Total | ND | mg/l | 0.020 | 1 6010B | 1007 11:00 1010 13:36 AI | |
| Copper, Total | 0.011 | mg/l | 0.010 | 1 6010B | 1007 11:00 1010 13:36 AI | |
| Iron, Total | 150 | mg/l | 0.05 | 1 6010B | 1007 11:00 1010 13:36 AI | |
| Lead, Total | 0.015 | mg/l | 0.010 | 1 6010B | 1007 11:00 1010 13:36 AI | |
| Magnesium, Total | 16 | mg/l | 0.10 | 1 6010B | 1007 11:00 1010 13:36 AI | |
| Manganese, Total | 0.795 | mg/l | 0.010 | 1 6010B | 1007 11:00 1010 13:36 AI | |
| Mercury, Total | ND | mg/l | 0.0002 | 1 7470A | 1007 22:00 1008 11:38 HG | |
| Nickel, Total | ND | mg/l | 0.025 | 1 6010B | 1007 11:00 1010 13:36 AI | |
| Potassium, Total | 3.8 | mg/l | 2.5 | 1 6010B | 1007 11:00 1010 13:36 AI | |
| Selenium, Total | ND | mg/l | 0.010 | 1 6010B | 1007 11:00 1010 13:36 AI | |
| Silver, Total | ND | mg/l | 0.007 | 1 6010B | 1007 11:00 1010 13:36 AI | |
| Sodium, Total | 30 | mg/l | 2.0 | 1 6010B | 1007 11:00 1010 13:36 AI | |
| Thallium, Total | ND | mg/l | 0.020 | 1 6010B | 1007 11:00 1010 13:36 AI | |
| Vanadium, Total | 0.030 | mg/l | 0.010 | 1 6010B | 1007 11:00 1010 13:36 AI | |
| Zinc, Total | 0.217 | mg/l | 0.050 | 1 6010B | 1007 11:00 1010 13:36 AI | |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 1009 19:05 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | |
| Chloroform | ND | ug/l | 0.75 | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | |
| Tetrachloroethene | ND | ug/l | 0.50 | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0814755-04
MW-4

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---------------------------------------|--------|-------|------|------------|---------------|------|----|
| | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 1009 19:05 PD | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | | |
| Bromoform | ND | ug/l | 2.0 | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | |
| Benzene | ND | ug/l | 0.50 | | | | |
| Toluene | ND | ug/l | 0.75 | | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | | |
| Chloromethane | ND | ug/l | 2.5 | | | | |
| Bromomethane | ND | ug/l | 1.0 | | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | | |
| Chloroethane | ND | ug/l | 1.0 | | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | | |
| Trichloroethene | ND | ug/l | 0.50 | | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | | |
| Methyl tert butyl ether | ND | ug/l | 1.0 | | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | | |
| o-Xylene | ND | ug/l | 1.0 | | | | |
| cis-1,2-Dichloroethene | ND | ug/l | 0.50 | | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | | |
| Styrene | ND | ug/l | 1.0 | | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | | |
| Acetone | ND | ug/l | 5.0 | | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | | |
| 2-Butanone | ND | ug/l | 5.0 | | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0814755-04
MW-4

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|--------------------------|----|
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 1009 19:05 PD | |
| Naphthalene | ND | ug/l | 2.5 | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 107 | % | 70-130 | | | |
| Toluene-d8 | 102 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 106 | % | 70-130 | | | |
| Dibromofluoromethane | 96.0 | % | 70-130 | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 1008 00:45 1010 15:58 PS | |
| Acenaphthene | ND | ug/l | 4.9 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 4.9 | | | |
| Hexachlorobenzene | ND | ug/l | 4.9 | | | |
| Bis(2-chloroethyl)ether | ND | ug/l | 4.9 | | | |
| 2-Chloronaphthalene | ND | ug/l | 5.9 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 4.9 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 4.9 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 4.9 | | | |
| 3,3'-Dichlorobenzidine | ND | ug/l | 49. | | | |
| 2,4-Dinitrotoluene | ND | ug/l | 5.9 | | | |
| 2,6-Dinitrotoluene | ND | ug/l | 4.9 | | | |
| Fluoranthene | ND | ug/l | 4.9 | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/l | 4.9 | | | |
| 4-Bromophenyl phenyl ether | ND | ug/l | 4.9 | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/l | 4.9 | | | |
| Bis(2-chloroethoxy)methane | ND | ug/l | 4.9 | | | |
| Hexachlorobutadiene | ND | ug/l | 9.9 | | | |
| Hexachlorocyclopentadiene | ND | ug/l | 30. | | | |
| Hexachloroethane | ND | ug/l | 4.9 | | | |
| Isophorone | ND | ug/l | 4.9 | | | |
| Naphthalene | ND | ug/l | 4.9 | | | |
| Nitrobenzene | ND | ug/l | 4.9 | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/l | 15. | | | |
| n-Nitrosodi-n-propylamine | ND | ug/l | 4.9 | | | |
| Bis(2-Ethylhexyl)phthalate | ND | ug/l | 4.9 | | | |
| Butyl benzyl phthalate | ND | ug/l | 4.9 | | | |
| Di-n-butylphthalate | ND | ug/l | 4.9 | | | |
| Di-n-octylphthalate | ND | ug/l | 4.9 | | | |
| Diethyl phthalate | ND | ug/l | 4.9 | | | |
| Dimethyl phthalate | ND | ug/l | 4.9 | | | |
| Benzo(a)anthracene | ND | ug/l | 4.9 | | | |
| Benzo(a)pyrene | ND | ug/l | 4.9 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0814755-04
MW-4

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---|----------|-------|-------------|-----|--------|------------|------------|----|
| | | | | | | PREP | ANAL | |
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 | 8270C | 1008 00:45 | 1010 15:58 | PS |
| Benzo(b)fluoranthene | ND | ug/l | 4.9 | | | | | |
| Benzo(k)fluoranthene | ND | ug/l | 4.9 | | | | | |
| Chrysene | ND | ug/l | 4.9 | | | | | |
| Acenaphthylene | ND | ug/l | 4.9 | | | | | |
| Anthracene | ND | ug/l | 4.9 | | | | | |
| Benzo(ghi)perylene | ND | ug/l | 4.9 | | | | | |
| Fluorene | ND | ug/l | 4.9 | | | | | |
| Phenanthrene | ND | ug/l | 4.9 | | | | | |
| Dibenzo(a,h)anthracene | ND | ug/l | 4.9 | | | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/l | 6.9 | | | | | |
| Pyrene | ND | ug/l | 4.9 | | | | | |
| Biphenyl | ND | ug/l | 4.9 | | | | | |
| 4-Chloroaniline | ND | ug/l | 4.9 | | | | | |
| 2-Nitroaniline | ND | ug/l | 4.9 | | | | | |
| 3-Nitroaniline | ND | ug/l | 4.9 | | | | | |
| 4-Nitroaniline | ND | ug/l | 6.9 | | | | | |
| Dibenzofuran | ND | ug/l | 4.9 | | | | | |
| 2-Methylnaphthalene | ND | ug/l | 4.9 | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/l | 20. | | | | | |
| Acetophenone | ND | ug/l | 20. | | | | | |
| 2,4,6-Trichlorophenol | ND | ug/l | 4.9 | | | | | |
| P-Chloro-M-Cresol | ND | ug/l | 4.9 | | | | | |
| 2-Chlorophenol | ND | ug/l | 5.9 | | | | | |
| 2,4-Dichlorophenol | ND | ug/l | 9.9 | | | | | |
| 2,4-Dimethylphenol | ND | ug/l | 9.9 | | | | | |
| 2-Nitrophenol | ND | ug/l | 20. | | | | | |
| 4-Nitrophenol | ND | ug/l | 9.9 | | | | | |
| 2,4-Dinitrophenol | ND | ug/l | 30. | | | | | |
| 4,6-Dinitro-o-cresol | ND | ug/l | 20. | | | | | |
| Pentachlorophenol | ND | ug/l | 9.9 | | | | | |
| Phenol | ND | ug/l | 6.9 | | | | | |
| 2-Methylphenol | ND | ug/l | 5.9 | | | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/l | 5.9 | | | | | |
| 2,4,5-Trichlorophenol | ND | ug/l | 4.9 | | | | | |
| Benzoic Acid | ND | ug/l | 49. | | | | | |
| Benzyl Alcohol | ND | ug/l | 9.9 | | | | | |
| Carbazole | ND | ug/l | 4.9 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 2-Fluorophenol | 51.0 | % | 21-120 | | | | | |
| Phenol-d6 | 35.0 | % | 10-120 | | | | | |
| Nitrobenzene-d5 | 80.0 | % | 23-120 | | | | | |
| 2-Fluorobiphenyl | 83.0 | % | 43-120 | | | | | |
| 2,4,6-Tribromophenol | 100 | % | 10-120 | | | | | |
| 4-Terphenyl-d14 | 94.0 | % | 33-120 | | | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 | 8270C | 1008 00:45 | 1011 02:41 | AK |
| Acenaphthene | ND | ug/l | 0.20 | | | | | |
| 2-Chloronaphthalene | ND | ug/l | 0.20 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0814755-04
MW-4

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C-SIM cont'd | | | | 1 8270C | 1008 00:45 1011 02:41 AK | |
| Fluoranthene | ND | ug/l | 0.20 | | | |
| Hexachlorobutadiene | ND | ug/l | 0.49 | | | |
| Naphthalene | ND | ug/l | 0.20 | | | |
| Benzo(a)anthracene | ND | ug/l | 0.20 | | | |
| Benzo(a)pyrene | ND | ug/l | 0.20 | | | |
| Benzo(b)fluoranthene | ND | ug/l | 0.20 | | | |
| Benzo(k)fluoranthene | ND | ug/l | 0.20 | | | |
| Chrysene | ND | ug/l | 0.20 | | | |
| Acenaphthylene | ND | ug/l | 0.20 | | | |
| Anthracene | ND | ug/l | 0.20 | | | |
| Benzo(ghi)perylene | ND | ug/l | 0.20 | | | |
| Fluorene | ND | ug/l | 0.20 | | | |
| Phenanthrene | ND | ug/l | 0.20 | | | |
| Dibenzo(a,h)anthracene | ND | ug/l | 0.20 | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/l | 0.20 | | | |
| Pyrene | ND | ug/l | 0.20 | | | |
| 2-Methylnaphthalene | ND | ug/l | 0.20 | | | |
| Pentachlorophenol | ND | ug/l | 0.79 | | | |
| Hexachlorobenzene | ND | ug/l | 0.79 | | | |
| Hexachloroethane | ND | ug/l | 0.79 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 49.0 | % | 21-120 | | | |
| Phenol-d6 | 37.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 84.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 81.0 | % | 43-120 | | | |
| 2,4,6-Tribromophenol | 89.0 | % | 10-120 | | | |
| 4-Terphenyl-d14 | 91.0 | % | 33-120 | | | |
| Polychlorinated Biphenyls by EPA 8082 | | | | 1 8082 | 1008 02:30 1009 15:56 SS | |
| Aroclor 1016 | ND | ug/l | 0.100 | | | |
| Aroclor 1221 | ND | ug/l | 0.100 | | | |
| Aroclor 1232 | ND | ug/l | 0.100 | | | |
| Aroclor 1242 | ND | ug/l | 0.100 | | | |
| Aroclor 1248 | ND | ug/l | 0.100 | | | |
| Aroclor 1254 | ND | ug/l | 0.100 | | | |
| Aroclor 1260 | ND | ug/l | 0.100 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 49.0 | % | 30-150 | | | |
| Decachlorobiphenyl | 70.0 | % | 30-150 | | | |
| Organochlorine Pesticides by EPA 8081A | | | | 1 8081A | 1008 05:00 1009 13:12 JB | |
| Delta-BHC | ND | ug/l | 0.023 | | | |
| Lindane | ND | ug/l | 0.023 | | | |
| Alpha-BHC | ND | ug/l | 0.023 | | | |
| Beta-BHC | ND | ug/l | 0.023 | | | |
| Heptachlor | ND | ug/l | 0.023 | | | |
| Aldrin | ND | ug/l | 0.023 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0814755-04
MW-4

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---|----------|-------|-------------|-----|--------|------------|------------|----|
| | | | | | | PREP | ANAL | |
| | | | | | | | | |
| Organochlorine Pesticides by EPA 8081A cont'd | | | | 1 | 8081A | 1008 05:00 | 1009 13:12 | JB |
| Heptachlor epoxide | ND | ug/l | 0.023 | | | | | |
| Endrin | ND | ug/l | 0.046 | | | | | |
| Endrin ketone | ND | ug/l | 0.046 | | | | | |
| Dieldrin | ND | ug/l | 0.046 | | | | | |
| 4,4'-DDE | ND | ug/l | 0.046 | | | | | |
| 4,4'-DDD | ND | ug/l | 0.046 | | | | | |
| 4,4'-DDT | ND | ug/l | 0.046 | | | | | |
| Endosulfan I | ND | ug/l | 0.023 | | | | | |
| Endosulfan II | ND | ug/l | 0.046 | | | | | |
| Endosulfan sulfate | ND | ug/l | 0.046 | | | | | |
| Methoxychlor | ND | ug/l | 0.228 | | | | | |
| trans-Chlordane | ND | ug/l | 0.023 | | | | | |
| Chlordane | ND | ug/l | 0.228 | | | | | |
| | | | | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 87.0 | % | 30-150 | | | | | |
| Decachlorobiphenyl | 96.0 | % | 30-150 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0814755-05 | Date Collected: 06-OCT-2008 09:30 |
| | Date Received : 06-OCT-2008 |
| Sample Matrix: MW-5 WATER | Date Reported : 14-OCT-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 6-Amber,1-Plastic,2-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|--------|------------|--------------------------|----|
| Total Metals | | | | | | |
| Aluminum, Total | 58 | mg/l | 0.10 | 1 6010B | 1007 11:00 1010 14:17 AI | |
| Antimony, Total | ND | mg/l | 0.050 | 1 6010B | 1007 11:00 1010 14:17 AI | |
| Arsenic, Total | 0.040 | mg/l | 0.005 | 1 6010B | 1007 11:00 1010 14:17 AI | |
| Barium, Total | 0.158 | mg/l | 0.010 | 1 6010B | 1007 11:00 1010 14:17 AI | |
| Beryllium, Total | ND | mg/l | 0.005 | 1 6010B | 1007 11:00 1010 14:17 AI | |
| Cadmium, Total | ND | mg/l | 0.005 | 1 6010B | 1007 11:00 1010 14:17 AI | |
| Calcium, Total | 18 | mg/l | 0.10 | 1 6010B | 1007 11:00 1010 14:17 AI | |
| Chromium, Total | 0.12 | mg/l | 0.01 | 1 6010B | 1007 11:00 1010 14:17 AI | |
| Cobalt, Total | 0.044 | mg/l | 0.020 | 1 6010B | 1007 11:00 1010 14:17 AI | |
| Copper, Total | 0.113 | mg/l | 0.010 | 1 6010B | 1007 11:00 1010 14:17 AI | |
| Iron, Total | 160 | mg/l | 0.05 | 1 6010B | 1007 11:00 1010 14:17 AI | |
| Lead, Total | 0.349 | mg/l | 0.010 | 1 6010B | 1007 11:00 1010 14:17 AI | |
| Magnesium, Total | 24 | mg/l | 0.10 | 1 6010B | 1007 11:00 1010 14:17 AI | |
| Manganese, Total | 1.33 | mg/l | 0.010 | 1 6010B | 1007 11:00 1010 14:17 AI | |
| Mercury, Total | 0.0008 | mg/l | 0.0002 | 1 7470A | 1007 22:00 1008 11:44 HG | |
| Nickel, Total | 0.110 | mg/l | 0.025 | 1 6010B | 1007 11:00 1010 14:17 AI | |
| Potassium, Total | 7.3 | mg/l | 2.5 | 1 6010B | 1007 11:00 1010 14:17 AI | |
| Selenium, Total | ND | mg/l | 0.010 | 1 6010B | 1007 11:00 1010 14:17 AI | |
| Silver, Total | ND | mg/l | 0.007 | 1 6010B | 1007 11:00 1010 14:17 AI | |
| Sodium, Total | 7.0 | mg/l | 2.0 | 1 6010B | 1007 11:00 1010 14:17 AI | |
| Thallium, Total | ND | mg/l | 0.020 | 1 6010B | 1007 11:00 1010 14:17 AI | |
| Vanadium, Total | 0.194 | mg/l | 0.010 | 1 6010B | 1007 11:00 1010 14:17 AI | |
| Zinc, Total | 0.740 | mg/l | 0.050 | 1 6010B | 1007 11:00 1010 14:17 AI | |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 1009 20:53 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | |
| Chloroform | ND | ug/l | 0.75 | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | |
| Tetrachloroethene | ND | ug/l | 0.50 | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0814755-05
MW-5

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|--------|-------|------|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 1009 20:53 PD | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | | | |
| Bromoform | ND | ug/l | 2.0 | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | | |
| Benzene | ND | ug/l | 0.50 | | | | | |
| Toluene | ND | ug/l | 0.75 | | | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | | | |
| Chloromethane | ND | ug/l | 2.5 | | | | | |
| Bromomethane | ND | ug/l | 1.0 | | | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | | | |
| Chloroethane | ND | ug/l | 1.0 | | | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | | | |
| Trichloroethene | ND | ug/l | 0.50 | | | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | | | |
| Methyl tert butyl ether | ND | ug/l | 1.0 | | | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | | | |
| o-Xylene | ND | ug/l | 1.0 | | | | | |
| cis-1,2-Dichloroethene | ND | ug/l | 0.50 | | | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | | | |
| Styrene | ND | ug/l | 1.0 | | | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | | | |
| Acetone | ND | ug/l | 5.0 | | | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | | | |
| 2-Butanone | ND | ug/l | 5.0 | | | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | | | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0814755-05
MW-5

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|--------------------------|----|
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 1009 20:53 PD | |
| Naphthalene | ND | ug/l | 2.5 | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 105 | % | 70-130 | | | |
| Toluene-d8 | 100 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 107 | % | 70-130 | | | |
| Dibromofluoromethane | 96.0 | % | 70-130 | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 1008 00:45 1010 16:21 PS | |
| Acenaphthene | ND | ug/l | 4.8 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 4.8 | | | |
| Hexachlorobenzene | ND | ug/l | 4.8 | | | |
| Bis(2-chloroethyl)ether | ND | ug/l | 4.8 | | | |
| 2-Chloronaphthalene | ND | ug/l | 5.8 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 4.8 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 4.8 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 4.8 | | | |
| 3,3'-Dichlorobenzidine | ND | ug/l | 48. | | | |
| 2,4-Dinitrotoluene | ND | ug/l | 5.8 | | | |
| 2,6-Dinitrotoluene | ND | ug/l | 4.8 | | | |
| Fluoranthene | ND | ug/l | 4.8 | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/l | 4.8 | | | |
| 4-Bromophenyl phenyl ether | ND | ug/l | 4.8 | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/l | 4.8 | | | |
| Bis(2-chloroethoxy)methane | ND | ug/l | 4.8 | | | |
| Hexachlorobutadiene | ND | ug/l | 9.7 | | | |
| Hexachlorocyclopentadiene | ND | ug/l | 29. | | | |
| Hexachloroethane | ND | ug/l | 4.8 | | | |
| Isophorone | ND | ug/l | 4.8 | | | |
| Naphthalene | ND | ug/l | 4.8 | | | |
| Nitrobenzene | ND | ug/l | 4.8 | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/l | 14. | | | |
| n-Nitrosodi-n-propylamine | ND | ug/l | 4.8 | | | |
| Bis(2-Ethylhexyl)phthalate | ND | ug/l | 4.8 | | | |
| Butyl benzyl phthalate | ND | ug/l | 4.8 | | | |
| Di-n-butylphthalate | ND | ug/l | 4.8 | | | |
| Di-n-octylphthalate | ND | ug/l | 4.8 | | | |
| Diethyl phthalate | ND | ug/l | 4.8 | | | |
| Dimethyl phthalate | ND | ug/l | 4.8 | | | |
| Benzo(a)anthracene | ND | ug/l | 4.8 | | | |
| Benzo(a)pyrene | ND | ug/l | 4.8 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0814755-05
MW-5

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---|----------|-------|-------------|-----|--------|------------|------------|----|
| | | | | | | PREP | ANAL | |
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 | 8270C | 1008 00:45 | 1010 16:21 | PS |
| Benzo(b)fluoranthene | ND | ug/l | 4.8 | | | | | |
| Benzo(k)fluoranthene | ND | ug/l | 4.8 | | | | | |
| Chrysene | ND | ug/l | 4.8 | | | | | |
| Acenaphthylene | ND | ug/l | 4.8 | | | | | |
| Anthracene | ND | ug/l | 4.8 | | | | | |
| Benzo(ghi)perylene | ND | ug/l | 4.8 | | | | | |
| Fluorene | ND | ug/l | 4.8 | | | | | |
| Phenanthrene | ND | ug/l | 4.8 | | | | | |
| Dibenzo(a,h)anthracene | ND | ug/l | 4.8 | | | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/l | 6.8 | | | | | |
| Pyrene | ND | ug/l | 4.8 | | | | | |
| Biphenyl | ND | ug/l | 4.8 | | | | | |
| 4-Chloroaniline | ND | ug/l | 4.8 | | | | | |
| 2-Nitroaniline | ND | ug/l | 4.8 | | | | | |
| 3-Nitroaniline | ND | ug/l | 4.8 | | | | | |
| 4-Nitroaniline | ND | ug/l | 6.8 | | | | | |
| Dibenzofuran | ND | ug/l | 4.8 | | | | | |
| 2-Methylnaphthalene | ND | ug/l | 4.8 | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/l | 19. | | | | | |
| Acetophenone | ND | ug/l | 19. | | | | | |
| 2,4,6-Trichlorophenol | ND | ug/l | 4.8 | | | | | |
| P-Chloro-M-Cresol | ND | ug/l | 4.8 | | | | | |
| 2-Chlorophenol | ND | ug/l | 5.8 | | | | | |
| 2,4-Dichlorophenol | ND | ug/l | 9.7 | | | | | |
| 2,4-Dimethylphenol | ND | ug/l | 9.7 | | | | | |
| 2-Nitrophenol | ND | ug/l | 19. | | | | | |
| 4-Nitrophenol | ND | ug/l | 9.7 | | | | | |
| 2,4-Dinitrophenol | ND | ug/l | 29. | | | | | |
| 4,6-Dinitro-o-cresol | ND | ug/l | 19. | | | | | |
| Pentachlorophenol | ND | ug/l | 9.7 | | | | | |
| Phenol | ND | ug/l | 6.8 | | | | | |
| 2-Methylphenol | ND | ug/l | 5.8 | | | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/l | 5.8 | | | | | |
| 2,4,5-Trichlorophenol | ND | ug/l | 4.8 | | | | | |
| Benzoic Acid | ND | ug/l | 48. | | | | | |
| Benzyl Alcohol | ND | ug/l | 9.7 | | | | | |
| Carbazole | ND | ug/l | 4.8 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 2-Fluorophenol | 43.0 | % | 21-120 | | | | | |
| Phenol-d6 | 28.0 | % | 10-120 | | | | | |
| Nitrobenzene-d5 | 62.0 | % | 23-120 | | | | | |
| 2-Fluorobiphenyl | 66.0 | % | 43-120 | | | | | |
| 2,4,6-Tribromophenol | 109 | % | 10-120 | | | | | |
| 4-Terphenyl-d14 | 86.0 | % | 33-120 | | | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 | 8270C | 1008 00:45 | 1011 03:27 | AK |
| Acenaphthene | ND | ug/l | 0.19 | | | | | |
| 2-Chloronaphthalene | ND | ug/l | 0.19 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0814755-05
MW-5

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C-SIM cont'd | | | | 1 8270C | 1008 00:45 1011 03:27 AK | |
| Fluoranthene | ND | ug/l | 0.19 | | | |
| Hexachlorobutadiene | ND | ug/l | 0.48 | | | |
| Naphthalene | ND | ug/l | 0.19 | | | |
| Benzo(a)anthracene | ND | ug/l | 0.19 | | | |
| Benzo(a)pyrene | ND | ug/l | 0.19 | | | |
| Benzo(b)fluoranthene | ND | ug/l | 0.19 | | | |
| Benzo(k)fluoranthene | ND | ug/l | 0.19 | | | |
| Chrysene | ND | ug/l | 0.19 | | | |
| Acenaphthylene | ND | ug/l | 0.19 | | | |
| Anthracene | ND | ug/l | 0.19 | | | |
| Benzo(ghi)perylene | ND | ug/l | 0.19 | | | |
| Fluorene | ND | ug/l | 0.19 | | | |
| Phenanthrene | ND | ug/l | 0.19 | | | |
| Dibenzo(a,h)anthracene | ND | ug/l | 0.19 | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/l | 0.19 | | | |
| Pyrene | ND | ug/l | 0.19 | | | |
| 2-Methylnaphthalene | ND | ug/l | 0.19 | | | |
| Pentachlorophenol | ND | ug/l | 0.78 | | | |
| Hexachlorobenzene | ND | ug/l | 0.78 | | | |
| Hexachloroethane | ND | ug/l | 0.78 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 43.0 | % | 21-120 | | | |
| Phenol-d6 | 32.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 73.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 68.0 | % | 43-120 | | | |
| 2,4,6-Tribromophenol | 87.0 | % | 10-120 | | | |
| 4-Terphenyl-d14 | 79.0 | % | 33-120 | | | |
| Polychlorinated Biphenyls by EPA 8082 | | | | 1 8082 | 1008 02:30 1009 16:10 SS | |
| Aroclor 1016 | ND | ug/l | 0.100 | | | |
| Aroclor 1221 | ND | ug/l | 0.100 | | | |
| Aroclor 1232 | ND | ug/l | 0.100 | | | |
| Aroclor 1242 | ND | ug/l | 0.100 | | | |
| Aroclor 1248 | ND | ug/l | 0.100 | | | |
| Aroclor 1254 | ND | ug/l | 0.100 | | | |
| Aroclor 1260 | ND | ug/l | 0.100 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 56.0 | % | 30-150 | | | |
| Decachlorobiphenyl | 54.0 | % | 30-150 | | | |
| Organochlorine Pesticides by EPA 8081A | | | | 1 8081A | 1008 05:00 1009 13:26 JB | |
| Delta-BHC | ND | ug/l | 0.021 | | | |
| Lindane | ND | ug/l | 0.021 | | | |
| Alpha-BHC | ND | ug/l | 0.021 | | | |
| Beta-BHC | ND | ug/l | 0.021 | | | |
| Heptachlor | ND | ug/l | 0.021 | | | |
| Aldrin | ND | ug/l | 0.021 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0814755-05
MW-5

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---|----------|-------|-------------|-----|--------|------------|------------|----|
| | | | | | | PREP | ANAL | |
| | | | | | | | | |
| Organochlorine Pesticides by EPA 8081A cont'd | | | | 1 | 8081A | 1008 05:00 | 1009 13:26 | JB |
| Heptachlor epoxide | ND | ug/l | 0.021 | | | | | |
| Endrin | ND | ug/l | 0.043 | | | | | |
| Endrin ketone | ND | ug/l | 0.043 | | | | | |
| Dieldrin | ND | ug/l | 0.043 | | | | | |
| 4,4'-DDE | ND | ug/l | 0.043 | | | | | |
| 4,4'-DDD | ND | ug/l | 0.043 | | | | | |
| 4,4'-DDT | ND | ug/l | 0.043 | | | | | |
| Endosulfan I | ND | ug/l | 0.021 | | | | | |
| Endosulfan II | ND | ug/l | 0.043 | | | | | |
| Endosulfan sulfate | ND | ug/l | 0.043 | | | | | |
| Methoxychlor | ND | ug/l | 0.213 | | | | | |
| trans-Chlordane | ND | ug/l | 0.021 | | | | | |
| Chlordane | ND | ug/l | 0.213 | | | | | |
| | | | | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 91.0 | % | 30-150 | | | | | |
| Decachlorobiphenyl | 80.0 | % | 30-150 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0814755-06 | Date Collected: 06-OCT-2008 10:50 |
| | Date Received : 06-OCT-2008 |
| Sample Matrix: MW-6 WATER | Date Reported : 14-OCT-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 6-Amber,1-Plastic,2-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|--------|------------|--------------------------|----|
| Total Metals | | | | | | |
| Aluminum, Total | 190 | mg/l | 0.10 | 1 6010B | 1007 11:00 1010 14:30 AI | |
| Antimony, Total | ND | mg/l | 0.050 | 1 6010B | 1007 11:00 1010 14:30 AI | |
| Arsenic, Total | 0.177 | mg/l | 0.005 | 1 6010B | 1007 11:00 1010 14:30 AI | |
| Barium, Total | 0.428 | mg/l | 0.010 | 1 6010B | 1007 11:00 1010 14:30 AI | |
| Beryllium, Total | 0.013 | mg/l | 0.005 | 1 6010B | 1007 11:00 1010 14:30 AI | |
| Cadmium, Total | 0.013 | mg/l | 0.005 | 1 6010B | 1007 11:00 1010 14:30 AI | |
| Calcium, Total | 49 | mg/l | 0.10 | 1 6010B | 1007 11:00 1010 14:30 AI | |
| Chromium, Total | 0.38 | mg/l | 0.01 | 1 6010B | 1007 11:00 1010 14:30 AI | |
| Cobalt, Total | 0.184 | mg/l | 0.020 | 1 6010B | 1007 11:00 1010 14:30 AI | |
| Copper, Total | 0.333 | mg/l | 0.010 | 1 6010B | 1007 11:00 1010 14:30 AI | |
| Iron, Total | 520 | mg/l | 0.25 | 1 6010B | 1007 11:00 1010 15:43 AI | |
| Lead, Total | 0.254 | mg/l | 0.010 | 1 6010B | 1007 11:00 1010 14:30 AI | |
| Magnesium, Total | 78 | mg/l | 0.10 | 1 6010B | 1007 11:00 1010 14:30 AI | |
| Manganese, Total | 6.81 | mg/l | 0.010 | 1 6010B | 1007 11:00 1010 14:30 AI | |
| Mercury, Total | 0.0011 | mg/l | 0.0002 | 1 7470A | 1007 22:00 1008 11:46 HG | |
| Nickel, Total | 0.420 | mg/l | 0.025 | 1 6010B | 1007 11:00 1010 14:30 AI | |
| Potassium, Total | 21 | mg/l | 2.5 | 1 6010B | 1007 11:00 1010 14:30 AI | |
| Selenium, Total | ND | mg/l | 0.010 | 1 6010B | 1007 11:00 1010 14:30 AI | |
| Silver, Total | ND | mg/l | 0.007 | 1 6010B | 1007 11:00 1010 14:30 AI | |
| Sodium, Total | 7.5 | mg/l | 2.0 | 1 6010B | 1007 11:00 1010 14:30 AI | |
| Thallium, Total | ND | mg/l | 0.020 | 1 6010B | 1007 11:00 1010 14:30 AI | |
| Vanadium, Total | 0.679 | mg/l | 0.010 | 1 6010B | 1007 11:00 1010 14:30 AI | |
| Zinc, Total | 1.70 | mg/l | 0.050 | 1 6010B | 1007 11:00 1010 14:30 AI | |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 1009 21:29 PD | |
| Methylene chloride | ND | ug/l | 100 | | | |
| 1,1-Dichloroethane | ND | ug/l | 15. | | | |
| Chloroform | ND | ug/l | 15. | | | |
| Carbon tetrachloride | ND | ug/l | 10. | | | |
| 1,2-Dichloropropane | ND | ug/l | 35. | | | |
| Dibromochloromethane | ND | ug/l | 10. | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 15. | | | |
| Tetrachloroethene | 200 | ug/l | 10 | | | |
| Chlorobenzene | ND | ug/l | 10. | | | |
| Trichlorofluoromethane | ND | ug/l | 50. | | | |
| 1,2-Dichloroethane | ND | ug/l | 10. | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 10. | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0814755-06
MW-6

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---------------------------------------|--------|-------|-----|------------|-------|---------------|----|
| | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 1009 21:29 PD | |
| Bromodichloromethane | ND | ug/l | 10. | | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 10. | | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 10. | | | | |
| 1,1-Dichloropropene | ND | ug/l | 50. | | | | |
| Bromoform | ND | ug/l | 40. | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 10. | | | | |
| Benzene | ND | ug/l | 10. | | | | |
| Toluene | ND | ug/l | 15. | | | | |
| Ethylbenzene | ND | ug/l | 10. | | | | |
| Chloromethane | ND | ug/l | 50. | | | | |
| Bromomethane | ND | ug/l | 20. | | | | |
| Vinyl chloride | ND | ug/l | 20. | | | | |
| Chloroethane | ND | ug/l | 20. | | | | |
| 1,1-Dichloroethene | ND | ug/l | 10. | | | | |
| trans-1,2-Dichloroethene | 22 | ug/l | 15 | | | | |
| Trichloroethene | 54 | ug/l | 10 | | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 50. | | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 50. | | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 50. | | | | |
| Methyl tert butyl ether | ND | ug/l | 20. | | | | |
| p/m-Xylene | ND | ug/l | 20. | | | | |
| o-Xylene | ND | ug/l | 20. | | | | |
| cis-1,2-Dichloroethene | 920 | ug/l | 10 | | | | |
| Dibromomethane | ND | ug/l | 100 | | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 100 | | | | |
| Acrylonitrile | ND | ug/l | 100 | | | | |
| Styrene | ND | ug/l | 20. | | | | |
| Dichlorodifluoromethane | ND | ug/l | 100 | | | | |
| Acetone | ND | ug/l | 100 | | | | |
| Carbon disulfide | ND | ug/l | 100 | | | | |
| 2-Butanone | ND | ug/l | 100 | | | | |
| Vinyl acetate | ND | ug/l | 100 | | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 100 | | | | |
| 2-Hexanone | ND | ug/l | 100 | | | | |
| Bromochloromethane | ND | ug/l | 50. | | | | |
| 2,2-Dichloropropane | ND | ug/l | 50. | | | | |
| 1,2-Dibromoethane | ND | ug/l | 40. | | | | |
| 1,3-Dichloropropane | ND | ug/l | 50. | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 10. | | | | |
| Bromobenzene | ND | ug/l | 50. | | | | |
| n-Butylbenzene | ND | ug/l | 10. | | | | |
| sec-Butylbenzene | ND | ug/l | 10. | | | | |
| tert-Butylbenzene | ND | ug/l | 50. | | | | |
| o-Chlorotoluene | ND | ug/l | 50. | | | | |
| p-Chlorotoluene | ND | ug/l | 50. | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 50. | | | | |
| Hexachlorobutadiene | ND | ug/l | 12. | | | | |
| Isopropylbenzene | ND | ug/l | 10. | | | | |
| p-Isopropyltoluene | ND | ug/l | 10. | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0814755-06
MW-6

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|--------------------------|----|
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 1009 21:29 PD | |
| Naphthalene | ND | ug/l | 50. | | | |
| n-Propylbenzene | ND | ug/l | 10. | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 50. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 50. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 50. | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 50. | | | |
| 1,4-Diethylbenzene | ND | ug/l | 40. | | | |
| 4-Ethyltoluene | ND | ug/l | 40. | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 40. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 105 | % | 70-130 | | | |
| Toluene-d8 | 101 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 109 | % | 70-130 | | | |
| Dibromofluoromethane | 97.0 | % | 70-130 | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 1008 00:45 1010 16:44 PS | |
| Acenaphthene | ND | ug/l | 4.8 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 4.8 | | | |
| Hexachlorobenzene | ND | ug/l | 4.8 | | | |
| Bis(2-chloroethyl)ether | ND | ug/l | 4.8 | | | |
| 2-Chloronaphthalene | ND | ug/l | 5.8 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 4.8 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 4.8 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 4.8 | | | |
| 3,3'-Dichlorobenzidine | ND | ug/l | 48. | | | |
| 2,4-Dinitrotoluene | ND | ug/l | 5.8 | | | |
| 2,6-Dinitrotoluene | ND | ug/l | 4.8 | | | |
| Fluoranthene | ND | ug/l | 4.8 | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/l | 4.8 | | | |
| 4-Bromophenyl phenyl ether | ND | ug/l | 4.8 | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/l | 4.8 | | | |
| Bis(2-chloroethoxy)methane | ND | ug/l | 4.8 | | | |
| Hexachlorobutadiene | ND | ug/l | 9.7 | | | |
| Hexachlorocyclopentadiene | ND | ug/l | 29. | | | |
| Hexachloroethane | ND | ug/l | 4.8 | | | |
| Isophorone | ND | ug/l | 4.8 | | | |
| Naphthalene | ND | ug/l | 4.8 | | | |
| Nitrobenzene | ND | ug/l | 4.8 | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/l | 14. | | | |
| n-Nitrosodi-n-propylamine | ND | ug/l | 4.8 | | | |
| Bis(2-Ethylhexyl)phthalate | ND | ug/l | 4.8 | | | |
| Butyl benzyl phthalate | ND | ug/l | 4.8 | | | |
| Di-n-butylphthalate | ND | ug/l | 4.8 | | | |
| Di-n-octylphthalate | ND | ug/l | 4.8 | | | |
| Diethyl phthalate | ND | ug/l | 4.8 | | | |
| Dimethyl phthalate | ND | ug/l | 4.8 | | | |
| Benzo(a)anthracene | ND | ug/l | 4.8 | | | |
| Benzo(a)pyrene | ND | ug/l | 4.8 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0814755-06
MW-6

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---|----------|-------|-------------|------------|-------|-----------------------|----|
| | | | | | PREP | ANAL | |
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 | 8270C | 1008 00:45 1010 16:44 | PS |
| Benzo(b)fluoranthene | ND | ug/l | 4.8 | | | | |
| Benzo(k)fluoranthene | ND | ug/l | 4.8 | | | | |
| Chrysene | ND | ug/l | 4.8 | | | | |
| Acenaphthylene | ND | ug/l | 4.8 | | | | |
| Anthracene | ND | ug/l | 4.8 | | | | |
| Benzo(ghi)perylene | ND | ug/l | 4.8 | | | | |
| Fluorene | ND | ug/l | 4.8 | | | | |
| Phenanthrene | ND | ug/l | 4.8 | | | | |
| Dibenzo(a,h)anthracene | ND | ug/l | 4.8 | | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/l | 6.8 | | | | |
| Pyrene | ND | ug/l | 4.8 | | | | |
| Biphenyl | ND | ug/l | 4.8 | | | | |
| 4-Chloroaniline | ND | ug/l | 4.8 | | | | |
| 2-Nitroaniline | ND | ug/l | 4.8 | | | | |
| 3-Nitroaniline | ND | ug/l | 4.8 | | | | |
| 4-Nitroaniline | ND | ug/l | 6.8 | | | | |
| Dibenzofuran | ND | ug/l | 4.8 | | | | |
| 2-Methylnaphthalene | ND | ug/l | 4.8 | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/l | 19. | | | | |
| Acetophenone | ND | ug/l | 19. | | | | |
| 2,4,6-Trichlorophenol | ND | ug/l | 4.8 | | | | |
| P-Chloro-M-Cresol | ND | ug/l | 4.8 | | | | |
| 2-Chlorophenol | ND | ug/l | 5.8 | | | | |
| 2,4-Dichlorophenol | ND | ug/l | 9.7 | | | | |
| 2,4-Dimethylphenol | ND | ug/l | 9.7 | | | | |
| 2-Nitrophenol | ND | ug/l | 19. | | | | |
| 4-Nitrophenol | ND | ug/l | 9.7 | | | | |
| 2,4-Dinitrophenol | ND | ug/l | 29. | | | | |
| 4,6-Dinitro-o-cresol | ND | ug/l | 19. | | | | |
| Pentachlorophenol | ND | ug/l | 9.7 | | | | |
| Phenol | ND | ug/l | 6.8 | | | | |
| 2-Methylphenol | ND | ug/l | 5.8 | | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/l | 5.8 | | | | |
| 2,4,5-Trichlorophenol | ND | ug/l | 4.8 | | | | |
| Benzoic Acid | ND | ug/l | 48. | | | | |
| Benzyl Alcohol | ND | ug/l | 9.7 | | | | |
| Carbazole | ND | ug/l | 4.8 | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | |
| 2-Fluorophenol | 55.0 | % | 21-120 | | | | |
| Phenol-d6 | 35.0 | % | 10-120 | | | | |
| Nitrobenzene-d5 | 71.0 | % | 23-120 | | | | |
| 2-Fluorobiphenyl | 67.0 | % | 43-120 | | | | |
| 2,4,6-Tribromophenol | 101 | % | 10-120 | | | | |
| 4-Terphenyl-d14 | 79.0 | % | 33-120 | | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 | 8270C | 1008 00:45 1011 04:13 | AK |
| Acenaphthene | ND | ug/l | 0.19 | | | | |
| 2-Chloronaphthalene | ND | ug/l | 0.19 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0814755-06
MW-6

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C-SIM cont'd | | | | 1 8270C | 1008 00:45 1011 04:13 AK | |
| Fluoranthene | ND | ug/l | 0.19 | | | |
| Hexachlorobutadiene | ND | ug/l | 0.48 | | | |
| Naphthalene | ND | ug/l | 0.19 | | | |
| Benzo(a)anthracene | ND | ug/l | 0.19 | | | |
| Benzo(a)pyrene | ND | ug/l | 0.19 | | | |
| Benzo(b)fluoranthene | ND | ug/l | 0.19 | | | |
| Benzo(k)fluoranthene | ND | ug/l | 0.19 | | | |
| Chrysene | ND | ug/l | 0.19 | | | |
| Acenaphthylene | ND | ug/l | 0.19 | | | |
| Anthracene | ND | ug/l | 0.19 | | | |
| Benzo(ghi)perylene | ND | ug/l | 0.19 | | | |
| Fluorene | ND | ug/l | 0.19 | | | |
| Phenanthrene | ND | ug/l | 0.19 | | | |
| Dibenzo(a,h)anthracene | ND | ug/l | 0.19 | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/l | 0.19 | | | |
| Pyrene | ND | ug/l | 0.19 | | | |
| 2-Methylnaphthalene | ND | ug/l | 0.19 | | | |
| Pentachlorophenol | ND | ug/l | 0.78 | | | |
| Hexachlorobenzene | ND | ug/l | 0.78 | | | |
| Hexachloroethane | ND | ug/l | 0.78 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 53.0 | % | 21-120 | | | |
| Phenol-d6 | 39.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 80.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 70.0 | % | 43-120 | | | |
| 2,4,6-Tribromophenol | 82.0 | % | 10-120 | | | |
| 4-Terphenyl-d14 | 71.0 | % | 33-120 | | | |
| Polychlorinated Biphenyls by EPA 8082 | | | | 1 8082 | 1008 02:30 1009 16:24 SS | |
| Aroclor 1016 | ND | ug/l | 0.100 | | | |
| Aroclor 1221 | ND | ug/l | 0.100 | | | |
| Aroclor 1232 | ND | ug/l | 0.100 | | | |
| Aroclor 1242 | ND | ug/l | 0.100 | | | |
| Aroclor 1248 | ND | ug/l | 0.100 | | | |
| Aroclor 1254 | ND | ug/l | 0.100 | | | |
| Aroclor 1260 | ND | ug/l | 0.100 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 47.0 | % | 30-150 | | | |
| Decachlorobiphenyl | 38.0 | % | 30-150 | | | |
| Organochlorine Pesticides by EPA 8081A | | | | 1 8081A | 1008 05:00 1009 13:39 JB | |
| Delta-BHC | ND | ug/l | 0.021 | | | |
| Lindane | ND | ug/l | 0.021 | | | |
| Alpha-BHC | ND | ug/l | 0.021 | | | |
| Beta-BHC | ND | ug/l | 0.021 | | | |
| Heptachlor | ND | ug/l | 0.021 | | | |
| Aldrin | ND | ug/l | 0.021 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0814755-06
MW-6

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---|----------|-------|-------------|------------|------------|------------|----|
| | | | | | PREP | ANAL | |
| Organochlorine Pesticides by EPA 8081A cont'd | | | | 1 8081A | 1008 05:00 | 1009 13:39 | JB |
| Heptachlor epoxide | ND | ug/l | 0.021 | | | | |
| Endrin | ND | ug/l | 0.041 | | | | |
| Endrin ketone | ND | ug/l | 0.041 | | | | |
| Dieldrin | ND | ug/l | 0.041 | | | | |
| 4,4'-DDE | ND | ug/l | 0.041 | | | | |
| 4,4'-DDD | ND | ug/l | 0.041 | | | | |
| 4,4'-DDT | ND | ug/l | 0.041 | | | | |
| Endosulfan I | ND | ug/l | 0.021 | | | | |
| Endosulfan II | ND | ug/l | 0.041 | | | | |
| Endosulfan sulfate | ND | ug/l | 0.041 | | | | |
| Methoxychlor | ND | ug/l | 0.206 | | | | |
| trans-Chlordane | ND | ug/l | 0.021 | | | | |
| Chlordane | ND | ug/l | 0.206 | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 80.0 | % | 30-150 | | | | |
| Decachlorobiphenyl | 48.0 | % | 30-150 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0814755-07 | Date Collected: 06-OCT-2008 11:45 |
| | Date Received : 06-OCT-2008 |
| Sample Matrix: WATER | Date Reported : 14-OCT-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 6-Amber,1-Plastic,2-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|--------|------------|--------------------------|----|
| Total Metals | | | | | | |
| Aluminum, Total | 2.1 | mg/l | 0.10 | 1 6010B | 1007 11:00 1010 14:24 AI | |
| Antimony, Total | ND | mg/l | 0.050 | 1 6010B | 1007 11:00 1010 14:24 AI | |
| Arsenic, Total | ND | mg/l | 0.100 | 1 6010B | 1007 11:00 1010 16:28 AI | |
| Barium, Total | 0.062 | mg/l | 0.010 | 1 6010B | 1007 11:00 1010 14:24 AI | |
| Beryllium, Total | ND | mg/l | 0.005 | 1 6010B | 1007 11:00 1010 14:24 AI | |
| Cadmium, Total | 0.009 | mg/l | 0.005 | 1 6010B | 1007 11:00 1010 14:24 AI | |
| Calcium, Total | 20 | mg/l | 0.10 | 1 6010B | 1007 11:00 1010 14:24 AI | |
| Chromium, Total | 0.04 | mg/l | 0.01 | 1 6010B | 1007 11:00 1010 14:24 AI | |
| Cobalt, Total | 0.034 | mg/l | 0.020 | 1 6010B | 1007 11:00 1010 14:24 AI | |
| Copper, Total | 0.726 | mg/l | 0.010 | 1 6010B | 1007 11:00 1010 14:24 AI | |
| Iron, Total | 340 | mg/l | 0.25 | 1 6010B | 1007 11:00 1010 15:46 AI | |
| Lead, Total | 0.012 | mg/l | 0.010 | 1 6010B | 1007 11:00 1010 14:24 AI | |
| Magnesium, Total | 15 | mg/l | 0.10 | 1 6010B | 1007 11:00 1010 14:24 AI | |
| Manganese, Total | 4.74 | mg/l | 0.010 | 1 6010B | 1007 11:00 1010 14:24 AI | |
| Mercury, Total | 0.0002 | mg/l | 0.0002 | 1 7470A | 1007 22:00 1008 11:47 HG | |
| Nickel, Total | ND | mg/l | 0.025 | 1 6010B | 1007 11:00 1010 14:24 AI | |
| Potassium, Total | 4.2 | mg/l | 2.5 | 1 6010B | 1007 11:00 1010 14:24 AI | |
| Selenium, Total | ND | mg/l | 0.010 | 1 6010B | 1007 11:00 1010 14:24 AI | |
| Silver, Total | ND | mg/l | 0.007 | 1 6010B | 1007 11:00 1010 14:24 AI | |
| Sodium, Total | 25 | mg/l | 2.0 | 1 6010B | 1007 11:00 1010 14:24 AI | |
| Thallium, Total | ND | mg/l | 0.020 | 1 6010B | 1007 11:00 1010 14:24 AI | |
| Vanadium, Total | ND | mg/l | 0.010 | 1 6010B | 1007 11:00 1010 14:24 AI | |
| Zinc, Total | 0.670 | mg/l | 0.050 | 1 6010B | 1007 11:00 1010 14:24 AI | |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 1009 22:05 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | |
| Chloroform | ND | ug/l | 0.75 | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | |
| Tetrachloroethene | 1.3 | ug/l | 0.50 | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0814755-07
DIFFW-01

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---------------------------------------|--------|-------|------|------------|---------------|------|----|
| | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 1009 22:05 PD | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | | |
| Bromoform | ND | ug/l | 2.0 | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | |
| Benzene | ND | ug/l | 0.50 | | | | |
| Toluene | ND | ug/l | 0.75 | | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | | |
| Chloromethane | ND | ug/l | 2.5 | | | | |
| Bromomethane | ND | ug/l | 1.0 | | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | | |
| Chloroethane | ND | ug/l | 1.0 | | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | | |
| Trichloroethene | 2.3 | ug/l | 0.50 | | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | | |
| Methyl tert butyl ether | 7.8 | ug/l | 1.0 | | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | | |
| o-Xylene | ND | ug/l | 1.0 | | | | |
| cis-1,2-Dichloroethene | 32 | ug/l | 0.50 | | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | | |
| Styrene | ND | ug/l | 1.0 | | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | | |
| Acetone | ND | ug/l | 5.0 | | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | | |
| 2-Butanone | ND | ug/l | 5.0 | | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0814755-07
DIFFW-01

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|--------------------------|----|
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 1009 22:05 PD | |
| Naphthalene | ND | ug/l | 2.5 | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 105 | % | 70-130 | | | |
| Toluene-d8 | 101 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 105 | % | 70-130 | | | |
| Dibromofluoromethane | 97.0 | % | 70-130 | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 1008 00:45 1010 17:07 PS | |
| Acenaphthene | ND | ug/l | 4.8 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 4.8 | | | |
| Hexachlorobenzene | ND | ug/l | 4.8 | | | |
| Bis(2-chloroethyl)ether | ND | ug/l | 4.8 | | | |
| 2-Chloronaphthalene | ND | ug/l | 5.7 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 4.8 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 4.8 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 4.8 | | | |
| 3,3'-Dichlorobenzidine | ND | ug/l | 48. | | | |
| 2,4-Dinitrotoluene | ND | ug/l | 5.7 | | | |
| 2,6-Dinitrotoluene | ND | ug/l | 4.8 | | | |
| Fluoranthene | ND | ug/l | 4.8 | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/l | 4.8 | | | |
| 4-Bromophenyl phenyl ether | ND | ug/l | 4.8 | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/l | 4.8 | | | |
| Bis(2-chloroethoxy)methane | ND | ug/l | 4.8 | | | |
| Hexachlorobutadiene | ND | ug/l | 9.5 | | | |
| Hexachlorocyclopentadiene | ND | ug/l | 28. | | | |
| Hexachloroethane | ND | ug/l | 4.8 | | | |
| Isophorone | ND | ug/l | 4.8 | | | |
| Naphthalene | ND | ug/l | 4.8 | | | |
| Nitrobenzene | ND | ug/l | 4.8 | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/l | 14. | | | |
| n-Nitrosodi-n-propylamine | ND | ug/l | 4.8 | | | |
| Bis(2-Ethylhexyl)phthalate | ND | ug/l | 4.8 | | | |
| Butyl benzyl phthalate | ND | ug/l | 4.8 | | | |
| Di-n-butylphthalate | ND | ug/l | 4.8 | | | |
| Di-n-octylphthalate | ND | ug/l | 4.8 | | | |
| Diethyl phthalate | ND | ug/l | 4.8 | | | |
| Dimethyl phthalate | ND | ug/l | 4.8 | | | |
| Benzo(a)anthracene | ND | ug/l | 4.8 | | | |
| Benzo(a)pyrene | ND | ug/l | 4.8 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0814755-07
DIFFW-01

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 8270C | 1008 00:45 1010 17:07 PS | |
| Benzo(b)fluoranthene | ND | ug/l | 4.8 | | | |
| Benzo(k)fluoranthene | ND | ug/l | 4.8 | | | |
| Chrysene | ND | ug/l | 4.8 | | | |
| Acenaphthylene | ND | ug/l | 4.8 | | | |
| Anthracene | ND | ug/l | 4.8 | | | |
| Benzo(ghi)perylene | ND | ug/l | 4.8 | | | |
| Fluorene | ND | ug/l | 4.8 | | | |
| Phenanthrene | ND | ug/l | 4.8 | | | |
| Dibenzo(a,h)anthracene | ND | ug/l | 4.8 | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/l | 6.7 | | | |
| Pyrene | ND | ug/l | 4.8 | | | |
| Biphenyl | ND | ug/l | 4.8 | | | |
| 4-Chloroaniline | ND | ug/l | 4.8 | | | |
| 2-Nitroaniline | ND | ug/l | 4.8 | | | |
| 3-Nitroaniline | ND | ug/l | 4.8 | | | |
| 4-Nitroaniline | ND | ug/l | 6.7 | | | |
| Dibenzofuran | ND | ug/l | 4.8 | | | |
| 2-Methylnaphthalene | ND | ug/l | 4.8 | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/l | 19. | | | |
| Acetophenone | ND | ug/l | 19. | | | |
| 2,4,6-Trichlorophenol | ND | ug/l | 4.8 | | | |
| P-Chloro-M-Cresol | ND | ug/l | 4.8 | | | |
| 2-Chlorophenol | ND | ug/l | 5.7 | | | |
| 2,4-Dichlorophenol | ND | ug/l | 9.5 | | | |
| 2,4-Dimethylphenol | ND | ug/l | 9.5 | | | |
| 2-Nitrophenol | ND | ug/l | 19. | | | |
| 4-Nitrophenol | ND | ug/l | 9.5 | | | |
| 2,4-Dinitrophenol | ND | ug/l | 28. | | | |
| 4,6-Dinitro-o-cresol | ND | ug/l | 19. | | | |
| Pentachlorophenol | ND | ug/l | 9.5 | | | |
| Phenol | ND | ug/l | 6.7 | | | |
| 2-Methylphenol | ND | ug/l | 5.7 | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/l | 5.7 | | | |
| 2,4,5-Trichlorophenol | ND | ug/l | 4.8 | | | |
| Benzoic Acid | ND | ug/l | 48. | | | |
| Benzyl Alcohol | ND | ug/l | 9.5 | | | |
| Carbazole | ND | ug/l | 4.8 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 51.0 | % | 21-120 | | | |
| Phenol-d6 | 32.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 68.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 74.0 | % | 43-120 | | | |
| 2,4,6-Tribromophenol | 103 | % | 10-120 | | | |
| 4-Terphenyl-d14 | 91.0 | % | 33-120 | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 8270C | 1008 00:45 1011 04:59 AK | |
| Acenaphthene | ND | ug/l | 0.19 | | | |
| 2-Chloronaphthalene | ND | ug/l | 0.19 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0814755-07
DIFFW-01

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---|----------|-------|-------------|-----|--------|------------|------------|----|
| | | | | | | PREP | ANAL | |
| Semivolatile Organics by EPA 8270C-SIM cont'd | | | | 1 | 8270C | 1008 00:45 | 1011 04:59 | AK |
| Fluoranthene | ND | ug/l | 0.19 | | | | | |
| Hexachlorobutadiene | ND | ug/l | 0.48 | | | | | |
| Naphthalene | ND | ug/l | 0.19 | | | | | |
| Benzo(a)anthracene | ND | ug/l | 0.19 | | | | | |
| Benzo(a)pyrene | ND | ug/l | 0.19 | | | | | |
| Benzo(b)fluoranthene | ND | ug/l | 0.19 | | | | | |
| Benzo(k)fluoranthene | ND | ug/l | 0.19 | | | | | |
| Chrysene | ND | ug/l | 0.19 | | | | | |
| Acenaphthylene | ND | ug/l | 0.19 | | | | | |
| Anthracene | ND | ug/l | 0.19 | | | | | |
| Benzo(ghi)perylene | ND | ug/l | 0.19 | | | | | |
| Fluorene | ND | ug/l | 0.19 | | | | | |
| Phenanthrene | ND | ug/l | 0.19 | | | | | |
| Dibenzo(a,h)anthracene | ND | ug/l | 0.19 | | | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/l | 0.19 | | | | | |
| Pyrene | ND | ug/l | 0.19 | | | | | |
| 2-Methylnaphthalene | ND | ug/l | 0.19 | | | | | |
| Pentachlorophenol | ND | ug/l | 0.76 | | | | | |
| Hexachlorobenzene | ND | ug/l | 0.76 | | | | | |
| Hexachloroethane | ND | ug/l | 0.76 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 2-Fluorophenol | 55.0 | % | 21-120 | | | | | |
| Phenol-d6 | 40.0 | % | 10-120 | | | | | |
| Nitrobenzene-d5 | 86.0 | % | 23-120 | | | | | |
| 2-Fluorobiphenyl | 80.0 | % | 43-120 | | | | | |
| 2,4,6-Tribromophenol | 96.0 | % | 10-120 | | | | | |
| 4-Terphenyl-d14 | 94.0 | % | 33-120 | | | | | |
| Polychlorinated Biphenyls by EPA 8082 | | | | 1 | 8082 | 1008 02:30 | 1009 16:52 | SS |
| Aroclor 1016 | ND | ug/l | 0.100 | | | | | |
| Aroclor 1221 | ND | ug/l | 0.100 | | | | | |
| Aroclor 1232 | ND | ug/l | 0.100 | | | | | |
| Aroclor 1242 | ND | ug/l | 0.100 | | | | | |
| Aroclor 1248 | ND | ug/l | 0.100 | | | | | |
| Aroclor 1254 | ND | ug/l | 0.100 | | | | | |
| Aroclor 1260 | ND | ug/l | 0.100 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 62.0 | % | 30-150 | | | | | |
| Decachlorobiphenyl | 98.0 | % | 30-150 | | | | | |
| Organochlorine Pesticides by EPA 8081A | | | | 1 | 8081A | 1008 05:00 | 1009 13:52 | JB |
| Delta-BHC | ND | ug/l | 0.021 | | | | | |
| Lindane | ND | ug/l | 0.021 | | | | | |
| Alpha-BHC | ND | ug/l | 0.021 | | | | | |
| Beta-BHC | ND | ug/l | 0.021 | | | | | |
| Heptachlor | ND | ug/l | 0.021 | | | | | |
| Aldrin | ND | ug/l | 0.021 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0814755-07
DIFFW-01

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---|----------|-------|-------------|-----|--------|------------|------------|----|
| | | | | | | PREP | ANAL | |
| | | | | | | | | |
| Organochlorine Pesticides by EPA 8081A cont'd | | | | 1 | 8081A | 1008 05:00 | 1009 13:52 | JB |
| Heptachlor epoxide | ND | ug/l | 0.021 | | | | | |
| Endrin | ND | ug/l | 0.043 | | | | | |
| Endrin ketone | ND | ug/l | 0.043 | | | | | |
| Dieldrin | ND | ug/l | 0.043 | | | | | |
| 4,4'-DDE | ND | ug/l | 0.043 | | | | | |
| 4,4'-DDD | ND | ug/l | 0.043 | | | | | |
| 4,4'-DDT | ND | ug/l | 0.043 | | | | | |
| Endosulfan I | ND | ug/l | 0.021 | | | | | |
| Endosulfan II | ND | ug/l | 0.043 | | | | | |
| Endosulfan sulfate | ND | ug/l | 0.043 | | | | | |
| Methoxychlor | ND | ug/l | 0.213 | | | | | |
| trans-Chlordane | ND | ug/l | 0.021 | | | | | |
| Chlordane | ND | ug/l | 0.213 | | | | | |
| | | | | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 71.0 | % | 30-150 | | | | | |
| Decachlorobiphenyl | 96.0 | % | 30-150 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|---------------------------------------|-----------------------------------|
| Laboratory Sample Number: L0814755-08 | Date Collected: 06-OCT-2008 13:05 |
| DIFFW-02 | Date Received : 06-OCT-2008 |
| Sample Matrix: WATER | Date Reported : 14-OCT-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 2-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|--------------------------------|--------|-------|------|------------|-------|---------------|----|
| | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B | | | | 1 | 8260B | 1009 22:41 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | | |
| Chloroform | ND | ug/l | 0.75 | | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | | |
| Tetrachloroethene | ND | ug/l | 0.50 | | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | | |
| Bromoform | ND | ug/l | 2.0 | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | |
| Benzene | ND | ug/l | 0.50 | | | | |
| Toluene | ND | ug/l | 0.75 | | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | | |
| Chloromethane | ND | ug/l | 2.5 | | | | |
| Bromomethane | ND | ug/l | 1.0 | | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | | |
| Chloroethane | ND | ug/l | 1.0 | | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | | |
| Trichloroethene | ND | ug/l | 0.50 | | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | | |
| Methyl tert butyl ether | ND | ug/l | 1.0 | | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | | |
| o-Xylene | ND | ug/l | 1.0 | | | | |
| cis-1,2-Dichloroethene | 7.7 | ug/l | 0.50 | | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0814755-08
DIFFW-02

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 1009 22:41 PD | | |
| Styrene | ND | ug/l | 1.0 | | | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | | | |
| Acetone | ND | ug/l | 5.0 | | | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | | | |
| 2-Butanone | ND | ug/l | 5.0 | | | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | | | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | | | |
| Naphthalene | ND | ug/l | 2.5 | | | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 1,2-Dichloroethane-d4 | 105 | % | 70-130 | | | | | |
| Toluene-d8 | 100 | % | 70-130 | | | | | |
| 4-Bromofluorobenzene | 105 | % | 70-130 | | | | | |
| Dibromofluoromethane | 95.0 | % | 70-130 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0814755-09 | Date Collected: 06-OCT-2008 13:20 |
| DIFFW-03 | Date Received : 06-OCT-2008 |
| Sample Matrix: WATER | Date Reported : 14-OCT-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 2-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-------------------|----|
| Volatile Organics by EPA 8260B | | | | 1 8260B | 1009 23:18 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | |
| Chloroform | ND | ug/l | 0.75 | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | |
| Tetrachloroethene | ND | ug/l | 0.50 | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | |
| Bromoform | ND | ug/l | 2.0 | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Benzene | ND | ug/l | 0.50 | | | |
| Toluene | 1.1 | ug/l | 0.75 | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | |
| Chloromethane | ND | ug/l | 2.5 | | | |
| Bromomethane | ND | ug/l | 1.0 | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | |
| Chloroethane | ND | ug/l | 1.0 | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | |
| Trichloroethene | 0.53 | ug/l | 0.50 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| Methyl tert butyl ether | ND | ug/l | 1.0 | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | |
| o-Xylene | ND | ug/l | 1.0 | | | |
| cis-1,2-Dichloroethene | 21 | ug/l | 0.50 | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0814755-09
DIFFW-03

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 1009 23:18 PD | | |
| Styrene | ND | ug/l | 1.0 | | | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | | | |
| Acetone | ND | ug/l | 5.0 | | | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | | | |
| 2-Butanone | ND | ug/l | 5.0 | | | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | | | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | | | |
| Naphthalene | ND | ug/l | 2.5 | | | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 1,2-Dichloroethane-d4 | 108 | % | 70-130 | | | | | |
| Toluene-d8 | 98.0 | % | 70-130 | | | | | |
| 4-Bromofluorobenzene | 109 | % | 70-130 | | | | | |
| Dibromofluoromethane | 98.0 | % | 70-130 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0814755-10 | Date Collected: 06-OCT-2008 11:50 |
| DIFFW-100 | Date Received : 06-OCT-2008 |
| Sample Matrix: WATER | Date Reported : 14-OCT-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 6-Amber,1-Plastic,2-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|--------|------------|--------------------------|----|
| Total Metals | | | | | | |
| Aluminum, Total | 1.8 | mg/l | 0.10 | 1 6010B | 1007 11:00 1010 14:20 AI | |
| Antimony, Total | ND | mg/l | 0.050 | 1 6010B | 1007 11:00 1010 14:20 AI | |
| Arsenic, Total | ND | mg/l | 0.100 | 1 6010B | 1007 11:00 1010 16:31 AI | |
| Barium, Total | 0.060 | mg/l | 0.010 | 1 6010B | 1007 11:00 1010 14:20 AI | |
| Beryllium, Total | ND | mg/l | 0.005 | 1 6010B | 1007 11:00 1010 14:20 AI | |
| Cadmium, Total | 0.007 | mg/l | 0.005 | 1 6010B | 1007 11:00 1010 14:20 AI | |
| Calcium, Total | 20 | mg/l | 0.10 | 1 6010B | 1007 11:00 1010 14:20 AI | |
| Chromium, Total | 0.03 | mg/l | 0.01 | 1 6010B | 1007 11:00 1010 14:20 AI | |
| Cobalt, Total | 0.030 | mg/l | 0.020 | 1 6010B | 1007 11:00 1010 14:20 AI | |
| Copper, Total | 0.622 | mg/l | 0.010 | 1 6010B | 1007 11:00 1010 14:20 AI | |
| Iron, Total | 300 | mg/l | 0.25 | 1 6010B | 1007 11:00 1010 15:49 AI | |
| Lead, Total | 0.011 | mg/l | 0.010 | 1 6010B | 1007 11:00 1010 14:20 AI | |
| Magnesium, Total | 15 | mg/l | 0.10 | 1 6010B | 1007 11:00 1010 14:20 AI | |
| Manganese, Total | 4.37 | mg/l | 0.010 | 1 6010B | 1007 11:00 1010 14:20 AI | |
| Mercury, Total | ND | mg/l | 0.0002 | 1 7470A | 1007 22:00 1008 11:55 HG | |
| Nickel, Total | ND | mg/l | 0.025 | 1 6010B | 1007 11:00 1010 14:20 AI | |
| Potassium, Total | 4.1 | mg/l | 2.5 | 1 6010B | 1007 11:00 1010 14:20 AI | |
| Selenium, Total | ND | mg/l | 0.010 | 1 6010B | 1007 11:00 1010 14:20 AI | |
| Silver, Total | ND | mg/l | 0.007 | 1 6010B | 1007 11:00 1010 14:20 AI | |
| Sodium, Total | 25 | mg/l | 2.0 | 1 6010B | 1007 11:00 1010 14:20 AI | |
| Thallium, Total | ND | mg/l | 0.020 | 1 6010B | 1007 11:00 1010 14:20 AI | |
| Vanadium, Total | ND | mg/l | 0.010 | 1 6010B | 1007 11:00 1010 14:20 AI | |
| Zinc, Total | 0.589 | mg/l | 0.050 | 1 6010B | 1007 11:00 1010 14:20 AI | |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 1009 23:54 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | |
| Chloroform | ND | ug/l | 0.75 | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | |
| Tetrachloroethene | 1.3 | ug/l | 0.50 | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0814755-10
DIFFW-100

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|--------|-------|------|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 1009 23:54 PD | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | | | |
| Bromoform | ND | ug/l | 2.0 | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | | |
| Benzene | ND | ug/l | 0.50 | | | | | |
| Toluene | ND | ug/l | 0.75 | | | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | | | |
| Chloromethane | ND | ug/l | 2.5 | | | | | |
| Bromomethane | ND | ug/l | 1.0 | | | | | |
| Vinyl chloride | 1.6 | ug/l | 1.0 | | | | | |
| Chloroethane | ND | ug/l | 1.0 | | | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | | | |
| Trichloroethene | 2.3 | ug/l | 0.50 | | | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | | | |
| Methyl tert butyl ether | 8.0 | ug/l | 1.0 | | | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | | | |
| o-Xylene | ND | ug/l | 1.0 | | | | | |
| cis-1,2-Dichloroethene | 32 | ug/l | 0.50 | | | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | | | |
| Styrene | ND | ug/l | 1.0 | | | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | | | |
| Acetone | ND | ug/l | 5.0 | | | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | | | |
| 2-Butanone | ND | ug/l | 5.0 | | | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | | | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0814755-10
DIFFW-100

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|--------------------------|----|
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 1009 23:54 PD | |
| Naphthalene | ND | ug/l | 2.5 | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 106 | % | 70-130 | | | |
| Toluene-d8 | 101 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 106 | % | 70-130 | | | |
| Dibromofluoromethane | 98.0 | % | 70-130 | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 1008 00:45 1010 17:31 PS | |
| Acenaphthene | ND | ug/l | 5.0 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 5.0 | | | |
| Hexachlorobenzene | ND | ug/l | 5.0 | | | |
| Bis(2-chloroethyl)ether | ND | ug/l | 5.0 | | | |
| 2-Chloronaphthalene | ND | ug/l | 6.0 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 5.0 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 5.0 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 5.0 | | | |
| 3,3'-Dichlorobenzidine | ND | ug/l | 50. | | | |
| 2,4-Dinitrotoluene | ND | ug/l | 6.0 | | | |
| 2,6-Dinitrotoluene | ND | ug/l | 5.0 | | | |
| Fluoranthene | ND | ug/l | 5.0 | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/l | 5.0 | | | |
| 4-Bromophenyl phenyl ether | ND | ug/l | 5.0 | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/l | 5.0 | | | |
| Bis(2-chloroethoxy)methane | ND | ug/l | 5.0 | | | |
| Hexachlorobutadiene | ND | ug/l | 10. | | | |
| Hexachlorocyclopentadiene | ND | ug/l | 30. | | | |
| Hexachloroethane | ND | ug/l | 5.0 | | | |
| Isophorone | ND | ug/l | 5.0 | | | |
| Naphthalene | ND | ug/l | 5.0 | | | |
| Nitrobenzene | ND | ug/l | 5.0 | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/l | 15. | | | |
| n-Nitrosodi-n-propylamine | ND | ug/l | 5.0 | | | |
| Bis(2-Ethylhexyl)phthalate | ND | ug/l | 5.0 | | | |
| Butyl benzyl phthalate | ND | ug/l | 5.0 | | | |
| Di-n-butylphthalate | ND | ug/l | 5.0 | | | |
| Di-n-octylphthalate | ND | ug/l | 5.0 | | | |
| Diethyl phthalate | ND | ug/l | 5.0 | | | |
| Dimethyl phthalate | ND | ug/l | 5.0 | | | |
| Benzo(a)anthracene | ND | ug/l | 5.0 | | | |
| Benzo(a)pyrene | ND | ug/l | 5.0 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0814755-10
DIFFW-100

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---|----------|-------|-------------|-----|--------|------------|------------|----|
| | | | | | | PREP | ANAL | |
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 | 8270C | 1008 00:45 | 1010 17:31 | PS |
| Benzo(b)fluoranthene | ND | ug/l | 5.0 | | | | | |
| Benzo(k)fluoranthene | ND | ug/l | 5.0 | | | | | |
| Chrysene | ND | ug/l | 5.0 | | | | | |
| Acenaphthylene | ND | ug/l | 5.0 | | | | | |
| Anthracene | ND | ug/l | 5.0 | | | | | |
| Benzo(ghi)perylene | ND | ug/l | 5.0 | | | | | |
| Fluorene | ND | ug/l | 5.0 | | | | | |
| Phenanthrene | ND | ug/l | 5.0 | | | | | |
| Dibenzo(a,h)anthracene | ND | ug/l | 5.0 | | | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/l | 7.0 | | | | | |
| Pyrene | ND | ug/l | 5.0 | | | | | |
| Biphenyl | ND | ug/l | 5.0 | | | | | |
| 4-Chloroaniline | ND | ug/l | 5.0 | | | | | |
| 2-Nitroaniline | ND | ug/l | 5.0 | | | | | |
| 3-Nitroaniline | ND | ug/l | 5.0 | | | | | |
| 4-Nitroaniline | ND | ug/l | 7.0 | | | | | |
| Dibenzofuran | ND | ug/l | 5.0 | | | | | |
| 2-Methylnaphthalene | ND | ug/l | 5.0 | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/l | 20. | | | | | |
| Acetophenone | ND | ug/l | 20. | | | | | |
| 2,4,6-Trichlorophenol | ND | ug/l | 5.0 | | | | | |
| P-Chloro-M-Cresol | ND | ug/l | 5.0 | | | | | |
| 2-Chlorophenol | ND | ug/l | 6.0 | | | | | |
| 2,4-Dichlorophenol | ND | ug/l | 10. | | | | | |
| 2,4-Dimethylphenol | ND | ug/l | 10. | | | | | |
| 2-Nitrophenol | ND | ug/l | 20. | | | | | |
| 4-Nitrophenol | ND | ug/l | 10. | | | | | |
| 2,4-Dinitrophenol | ND | ug/l | 30. | | | | | |
| 4,6-Dinitro-o-cresol | ND | ug/l | 20. | | | | | |
| Pentachlorophenol | ND | ug/l | 10. | | | | | |
| Phenol | ND | ug/l | 7.0 | | | | | |
| 2-Methylphenol | ND | ug/l | 6.0 | | | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/l | 6.0 | | | | | |
| 2,4,5-Trichlorophenol | ND | ug/l | 5.0 | | | | | |
| Benzoic Acid | ND | ug/l | 50. | | | | | |
| Benzyl Alcohol | ND | ug/l | 10. | | | | | |
| Carbazole | ND | ug/l | 5.0 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 2-Fluorophenol | 51.0 | % | 21-120 | | | | | |
| Phenol-d6 | 33.0 | % | 10-120 | | | | | |
| Nitrobenzene-d5 | 73.0 | % | 23-120 | | | | | |
| 2-Fluorobiphenyl | 76.0 | % | 43-120 | | | | | |
| 2,4,6-Tribromophenol | 115 | % | 10-120 | | | | | |
| 4-Terphenyl-d14 | 98.0 | % | 33-120 | | | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 | 8270C | 1008 00:45 | 1011 05:44 | AK |
| Acenaphthene | ND | ug/l | 0.20 | | | | | |
| 2-Chloronaphthalene | ND | ug/l | 0.20 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0814755-10
DIFFW-100

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C-SIM cont'd | | | | 1 8270C | 1008 00:45 1011 05:44 AK | |
| Fluoranthene | ND | ug/l | 0.20 | | | |
| Hexachlorobutadiene | ND | ug/l | 0.50 | | | |
| Naphthalene | ND | ug/l | 0.20 | | | |
| Benzo(a)anthracene | ND | ug/l | 0.20 | | | |
| Benzo(a)pyrene | ND | ug/l | 0.20 | | | |
| Benzo(b)fluoranthene | ND | ug/l | 0.20 | | | |
| Benzo(k)fluoranthene | ND | ug/l | 0.20 | | | |
| Chrysene | ND | ug/l | 0.20 | | | |
| Acenaphthylene | ND | ug/l | 0.20 | | | |
| Anthracene | ND | ug/l | 0.20 | | | |
| Benzo(ghi)perylene | ND | ug/l | 0.20 | | | |
| Fluorene | ND | ug/l | 0.20 | | | |
| Phenanthrene | ND | ug/l | 0.20 | | | |
| Dibenzo(a,h)anthracene | ND | ug/l | 0.20 | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/l | 0.20 | | | |
| Pyrene | ND | ug/l | 0.20 | | | |
| 2-Methylnaphthalene | ND | ug/l | 0.20 | | | |
| Pentachlorophenol | ND | ug/l | 0.80 | | | |
| Hexachlorobenzene | ND | ug/l | 0.80 | | | |
| Hexachloroethane | ND | ug/l | 0.80 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 48.0 | % | 21-120 | | | |
| Phenol-d6 | 35.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 76.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 74.0 | % | 43-120 | | | |
| 2,4,6-Tribromophenol | 95.0 | % | 10-120 | | | |
| 4-Terphenyl-d14 | 89.0 | % | 33-120 | | | |
| Polychlorinated Biphenyls by EPA 8082 | | | | 1 8082 | 1008 02:30 1009 17:06 SS | |
| Aroclor 1016 | ND | ug/l | 0.100 | | | |
| Aroclor 1221 | ND | ug/l | 0.100 | | | |
| Aroclor 1232 | ND | ug/l | 0.100 | | | |
| Aroclor 1242 | ND | ug/l | 0.100 | | | |
| Aroclor 1248 | ND | ug/l | 0.100 | | | |
| Aroclor 1254 | ND | ug/l | 0.100 | | | |
| Aroclor 1260 | ND | ug/l | 0.100 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 53.0 | % | 30-150 | | | |
| Decachlorobiphenyl | 79.0 | % | 30-150 | | | |
| Organochlorine Pesticides by EPA 8081A | | | | 1 8081A | 1008 05:00 1009 14:05 JB | |
| Delta-BHC | ND | ug/l | 0.023 | | | |
| Lindane | ND | ug/l | 0.023 | | | |
| Alpha-BHC | ND | ug/l | 0.023 | | | |
| Beta-BHC | ND | ug/l | 0.023 | | | |
| Heptachlor | ND | ug/l | 0.023 | | | |
| Aldrin | ND | ug/l | 0.023 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0814755-10
DIFFW-100

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---|----------|-------|-------------|-----|--------|------------|------------|----|
| | | | | | | PREP | ANAL | |
| | | | | | | | | |
| Organochlorine Pesticides by EPA 8081A cont'd | | | | 1 | 8081A | 1008 05:00 | 1009 14:05 | JB |
| Heptachlor epoxide | ND | ug/l | 0.023 | | | | | |
| Endrin | ND | ug/l | 0.045 | | | | | |
| Endrin ketone | ND | ug/l | 0.045 | | | | | |
| Dieldrin | ND | ug/l | 0.045 | | | | | |
| 4,4'-DDE | ND | ug/l | 0.045 | | | | | |
| 4,4'-DDD | ND | ug/l | 0.045 | | | | | |
| 4,4'-DDT | ND | ug/l | 0.045 | | | | | |
| Endosulfan I | ND | ug/l | 0.023 | | | | | |
| Endosulfan II | ND | ug/l | 0.045 | | | | | |
| Endosulfan sulfate | ND | ug/l | 0.045 | | | | | |
| Methoxychlor | ND | ug/l | 0.227 | | | | | |
| trans-Chlordane | ND | ug/l | 0.023 | | | | | |
| Chlordane | ND | ug/l | 0.227 | | | | | |
| | | | | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 73.0 | % | 30-150 | | | | | |
| Decachlorobiphenyl | 96.0 | % | 30-150 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|--|--|
| Laboratory Sample Number: L0814755-11 | Date Collected: 03-OCT-2008 14:15 |
| FB100308-01 | Date Received : 06-OCT-2008 |
| Sample Matrix: WATER | Date Reported : 14-OCT-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 6-Amber,1-Plastic,2-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|--------|------------|--------------------------|----|
| Total Metals | | | | | | |
| Aluminum, Total | ND | mg/l | 0.10 | 1 6010B | 1007 11:00 1010 13:29 AI | |
| Antimony, Total | ND | mg/l | 0.050 | 1 6010B | 1007 11:00 1010 13:29 AI | |
| Arsenic, Total | ND | mg/l | 0.005 | 1 6010B | 1007 11:00 1010 13:29 AI | |
| Barium, Total | ND | mg/l | 0.010 | 1 6010B | 1007 11:00 1010 13:29 AI | |
| Beryllium, Total | ND | mg/l | 0.005 | 1 6010B | 1007 11:00 1010 13:29 AI | |
| Cadmium, Total | ND | mg/l | 0.005 | 1 6010B | 1007 11:00 1010 13:29 AI | |
| Calcium, Total | ND | mg/l | 0.10 | 1 6010B | 1007 11:00 1010 13:29 AI | |
| Chromium, Total | ND | mg/l | 0.01 | 1 6010B | 1007 11:00 1010 13:29 AI | |
| Cobalt, Total | ND | mg/l | 0.020 | 1 6010B | 1007 11:00 1010 13:29 AI | |
| Copper, Total | ND | mg/l | 0.010 | 1 6010B | 1007 11:00 1010 13:29 AI | |
| Iron, Total | ND | mg/l | 0.05 | 1 6010B | 1007 11:00 1010 13:29 AI | |
| Lead, Total | ND | mg/l | 0.010 | 1 6010B | 1007 11:00 1010 13:29 AI | |
| Magnesium, Total | ND | mg/l | 0.10 | 1 6010B | 1007 11:00 1010 13:29 AI | |
| Manganese, Total | ND | mg/l | 0.010 | 1 6010B | 1007 11:00 1010 13:29 AI | |
| Mercury, Total | ND | mg/l | 0.0002 | 1 7470A | 1007 22:00 1008 11:57 HG | |
| Nickel, Total | ND | mg/l | 0.025 | 1 6010B | 1007 11:00 1010 13:29 AI | |
| Potassium, Total | ND | mg/l | 2.5 | 1 6010B | 1007 11:00 1010 13:29 AI | |
| Selenium, Total | ND | mg/l | 0.010 | 1 6010B | 1007 11:00 1010 13:29 AI | |
| Silver, Total | ND | mg/l | 0.007 | 1 6010B | 1007 11:00 1010 13:29 AI | |
| Sodium, Total | ND | mg/l | 2.0 | 1 6010B | 1007 11:00 1010 13:29 AI | |
| Thallium, Total | ND | mg/l | 0.020 | 1 6010B | 1007 11:00 1010 13:29 AI | |
| Vanadium, Total | ND | mg/l | 0.010 | 1 6010B | 1007 11:00 1010 13:29 AI | |
| Zinc, Total | ND | mg/l | 0.050 | 1 6010B | 1007 11:00 1010 13:29 AI | |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 1010 00:30 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | |
| Chloroform | ND | ug/l | 0.75 | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | |
| Tetrachloroethene | ND | ug/l | 0.50 | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0814755-11
FB100308-01

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|---------------------------------------|--------|-------|------|------------|---------------|------|----|
| | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 1010 00:30 PD | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | | |
| Bromoform | ND | ug/l | 2.0 | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | |
| Benzene | ND | ug/l | 0.50 | | | | |
| Toluene | ND | ug/l | 0.75 | | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | | |
| Chloromethane | ND | ug/l | 2.5 | | | | |
| Bromomethane | ND | ug/l | 1.0 | | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | | |
| Chloroethane | ND | ug/l | 1.0 | | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | | |
| Trichloroethene | ND | ug/l | 0.50 | | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | | |
| Methyl tert butyl ether | ND | ug/l | 1.0 | | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | | |
| o-Xylene | ND | ug/l | 1.0 | | | | |
| cis-1,2-Dichloroethene | ND | ug/l | 0.50 | | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | | |
| Styrene | ND | ug/l | 1.0 | | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | | |
| Acetone | ND | ug/l | 5.0 | | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | | |
| 2-Butanone | ND | ug/l | 5.0 | | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0814755-11
FB100308-01

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---------------------------------------|----------|-------|-------------|------------|--------------------------|----|
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 1010 00:30 PD | |
| Naphthalene | ND | ug/l | 2.5 | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 107 | % | 70-130 | | | |
| Toluene-d8 | 101 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 106 | % | 70-130 | | | |
| Dibromofluoromethane | 97.0 | % | 70-130 | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 1008 00:45 1010 17:54 PS | |
| Acenaphthene | ND | ug/l | 5.0 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 5.0 | | | |
| Hexachlorobenzene | ND | ug/l | 5.0 | | | |
| Bis(2-chloroethyl)ether | ND | ug/l | 5.0 | | | |
| 2-Chloronaphthalene | ND | ug/l | 6.0 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 5.0 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 5.0 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 5.0 | | | |
| 3,3'-Dichlorobenzidine | ND | ug/l | 50. | | | |
| 2,4-Dinitrotoluene | ND | ug/l | 6.0 | | | |
| 2,6-Dinitrotoluene | ND | ug/l | 5.0 | | | |
| Fluoranthene | ND | ug/l | 5.0 | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/l | 5.0 | | | |
| 4-Bromophenyl phenyl ether | ND | ug/l | 5.0 | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/l | 5.0 | | | |
| Bis(2-chloroethoxy)methane | ND | ug/l | 5.0 | | | |
| Hexachlorobutadiene | ND | ug/l | 10. | | | |
| Hexachlorocyclopentadiene | ND | ug/l | 30. | | | |
| Hexachloroethane | ND | ug/l | 5.0 | | | |
| Isophorone | ND | ug/l | 5.0 | | | |
| Naphthalene | ND | ug/l | 5.0 | | | |
| Nitrobenzene | ND | ug/l | 5.0 | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/l | 15. | | | |
| n-Nitrosodi-n-propylamine | ND | ug/l | 5.0 | | | |
| Bis(2-Ethylhexyl)phthalate | ND | ug/l | 5.0 | | | |
| Butyl benzyl phthalate | ND | ug/l | 5.0 | | | |
| Di-n-butylphthalate | ND | ug/l | 5.0 | | | |
| Di-n-octylphthalate | ND | ug/l | 5.0 | | | |
| Diethyl phthalate | ND | ug/l | 5.0 | | | |
| Dimethyl phthalate | ND | ug/l | 5.0 | | | |
| Benzo(a)anthracene | ND | ug/l | 5.0 | | | |
| Benzo(a)pyrene | ND | ug/l | 5.0 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0814755-11
FB100308-01

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 8270C | 1008 00:45 1010 17:54 PS | |
| Benzo(b)fluoranthene | ND | ug/l | 5.0 | | | |
| Benzo(k)fluoranthene | ND | ug/l | 5.0 | | | |
| Chrysene | ND | ug/l | 5.0 | | | |
| Acenaphthylene | ND | ug/l | 5.0 | | | |
| Anthracene | ND | ug/l | 5.0 | | | |
| Benzo(ghi)perylene | ND | ug/l | 5.0 | | | |
| Fluorene | ND | ug/l | 5.0 | | | |
| Phenanthrene | ND | ug/l | 5.0 | | | |
| Dibenzo(a,h)anthracene | ND | ug/l | 5.0 | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/l | 7.0 | | | |
| Pyrene | ND | ug/l | 5.0 | | | |
| Biphenyl | ND | ug/l | 5.0 | | | |
| 4-Chloroaniline | ND | ug/l | 5.0 | | | |
| 2-Nitroaniline | ND | ug/l | 5.0 | | | |
| 3-Nitroaniline | ND | ug/l | 5.0 | | | |
| 4-Nitroaniline | ND | ug/l | 7.0 | | | |
| Dibenzofuran | ND | ug/l | 5.0 | | | |
| 2-Methylnaphthalene | ND | ug/l | 5.0 | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/l | 20. | | | |
| Acetophenone | ND | ug/l | 20. | | | |
| 2,4,6-Trichlorophenol | ND | ug/l | 5.0 | | | |
| P-Chloro-M-Cresol | ND | ug/l | 5.0 | | | |
| 2-Chlorophenol | ND | ug/l | 6.0 | | | |
| 2,4-Dichlorophenol | ND | ug/l | 10. | | | |
| 2,4-Dimethylphenol | ND | ug/l | 10. | | | |
| 2-Nitrophenol | ND | ug/l | 20. | | | |
| 4-Nitrophenol | ND | ug/l | 10. | | | |
| 2,4-Dinitrophenol | ND | ug/l | 30. | | | |
| 4,6-Dinitro-o-cresol | ND | ug/l | 20. | | | |
| Pentachlorophenol | ND | ug/l | 10. | | | |
| Phenol | ND | ug/l | 7.0 | | | |
| 2-Methylphenol | ND | ug/l | 6.0 | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/l | 6.0 | | | |
| 2,4,5-Trichlorophenol | ND | ug/l | 5.0 | | | |
| Benzoic Acid | ND | ug/l | 50. | | | |
| Benzyl Alcohol | ND | ug/l | 10. | | | |
| Carbazole | ND | ug/l | 5.0 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 49.0 | % | 21-120 | | | |
| Phenol-d6 | 33.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 63.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 62.0 | % | 43-120 | | | |
| 2,4,6-Tribromophenol | 95.0 | % | 10-120 | | | |
| 4-Terphenyl-d14 | 86.0 | % | 33-120 | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 8270C | 1008 00:45 1011 06:30 AK | |
| Acenaphthene | ND | ug/l | 0.20 | | | |
| 2-Chloronaphthalene | ND | ug/l | 0.20 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0814755-11
FB100308-01

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Semivolatile Organics by EPA 8270C-SIM cont'd | | | | 1 8270C | 1008 00:45 1011 06:30 AK | |
| Fluoranthene | ND | ug/l | 0.20 | | | |
| Hexachlorobutadiene | ND | ug/l | 0.50 | | | |
| Naphthalene | ND | ug/l | 0.20 | | | |
| Benzo(a)anthracene | ND | ug/l | 0.20 | | | |
| Benzo(a)pyrene | ND | ug/l | 0.20 | | | |
| Benzo(b)fluoranthene | ND | ug/l | 0.20 | | | |
| Benzo(k)fluoranthene | ND | ug/l | 0.20 | | | |
| Chrysene | ND | ug/l | 0.20 | | | |
| Acenaphthylene | ND | ug/l | 0.20 | | | |
| Anthracene | ND | ug/l | 0.20 | | | |
| Benzo(ghi)perylene | ND | ug/l | 0.20 | | | |
| Fluorene | ND | ug/l | 0.20 | | | |
| Phenanthrene | ND | ug/l | 0.20 | | | |
| Dibenzo(a,h)anthracene | ND | ug/l | 0.20 | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/l | 0.20 | | | |
| Pyrene | ND | ug/l | 0.20 | | | |
| 2-Methylnaphthalene | ND | ug/l | 0.20 | | | |
| Pentachlorophenol | ND | ug/l | 0.80 | | | |
| Hexachlorobenzene | ND | ug/l | 0.80 | | | |
| Hexachloroethane | ND | ug/l | 0.80 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 49.0 | % | 21-120 | | | |
| Phenol-d6 | 37.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 70.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 67.0 | % | 43-120 | | | |
| 2,4,6-Tribromophenol | 83.0 | % | 10-120 | | | |
| 4-Terphenyl-d14 | 83.0 | % | 33-120 | | | |
| Polychlorinated Biphenyls by EPA 8082 | | | | 1 8082 | 1008 02:30 1009 17:19 SS | |
| Aroclor 1016 | ND | ug/l | 0.100 | | | |
| Aroclor 1221 | ND | ug/l | 0.100 | | | |
| Aroclor 1232 | ND | ug/l | 0.100 | | | |
| Aroclor 1242 | ND | ug/l | 0.100 | | | |
| Aroclor 1248 | ND | ug/l | 0.100 | | | |
| Aroclor 1254 | ND | ug/l | 0.100 | | | |
| Aroclor 1260 | ND | ug/l | 0.100 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 61.0 | % | 30-150 | | | |
| Decachlorobiphenyl | 99.0 | % | 30-150 | | | |
| Organochlorine Pesticides by EPA 8081A | | | | 1 8081A | 1008 05:00 1009 14:18 JB | |
| Delta-BHC | ND | ug/l | 0.026 | | | |
| Lindane | ND | ug/l | 0.026 | | | |
| Alpha-BHC | ND | ug/l | 0.026 | | | |
| Beta-BHC | ND | ug/l | 0.026 | | | |
| Heptachlor | ND | ug/l | 0.026 | | | |
| Aldrin | ND | ug/l | 0.026 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0814755-11
FB100308-01

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---|----------|-------|-------------|-----|--------|------------|------------|----|
| | | | | | | PREP | ANAL | |
| | | | | | | | | |
| Organochlorine Pesticides by EPA 8081A cont'd | | | | 1 | 8081A | 1008 05:00 | 1009 14:18 | JB |
| Heptachlor epoxide | ND | ug/l | 0.026 | | | | | |
| Endrin | ND | ug/l | 0.053 | | | | | |
| Endrin ketone | ND | ug/l | 0.053 | | | | | |
| Dieldrin | ND | ug/l | 0.053 | | | | | |
| 4,4'-DDE | ND | ug/l | 0.053 | | | | | |
| 4,4'-DDD | ND | ug/l | 0.053 | | | | | |
| 4,4'-DDT | ND | ug/l | 0.053 | | | | | |
| Endosulfan I | ND | ug/l | 0.026 | | | | | |
| Endosulfan II | ND | ug/l | 0.053 | | | | | |
| Endosulfan sulfate | ND | ug/l | 0.053 | | | | | |
| Methoxychlor | ND | ug/l | 0.263 | | | | | |
| trans-Chlordane | ND | ug/l | 0.026 | | | | | |
| Chlordane | ND | ug/l | 0.263 | | | | | |
| | | | | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 71.0 | % | 30-150 | | | | | |
| Decachlorobiphenyl | 75.0 | % | 30-150 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|---------------------------------------|-----------------------------------|
| Laboratory Sample Number: L0814755-12 | Date Collected: 03-OCT-2008 13:40 |
| TB100308-01 | Date Received : 06-OCT-2008 |
| Sample Matrix: WATER | Date Reported : 14-OCT-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 2-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-------------------|----|
| Volatile Organics by EPA 8260B | | | | 1 8260B | 1010 01:06 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | |
| Chloroform | ND | ug/l | 0.75 | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | |
| Tetrachloroethene | ND | ug/l | 0.50 | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | |
| Bromoform | ND | ug/l | 2.0 | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Benzene | ND | ug/l | 0.50 | | | |
| Toluene | ND | ug/l | 0.75 | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | |
| Chloromethane | ND | ug/l | 2.5 | | | |
| Bromomethane | ND | ug/l | 1.0 | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | |
| Chloroethane | ND | ug/l | 1.0 | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | |
| Trichloroethene | ND | ug/l | 0.50 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| Methyl tert butyl ether | ND | ug/l | 1.0 | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | |
| o-Xylene | ND | ug/l | 1.0 | | | |
| cis-1,2-Dichloroethene | ND | ug/l | 0.50 | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0814755-12
TB100308-01

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 1010 01:06 PD | | |
| Styrene | ND | ug/l | 1.0 | | | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | | | |
| Acetone | ND | ug/l | 5.0 | | | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | | | |
| 2-Butanone | ND | ug/l | 5.0 | | | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | | | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | | | |
| Naphthalene | ND | ug/l | 2.5 | | | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 1,2-Dichloroethane-d4 | 108 | % | 70-130 | | | | | |
| Toluene-d8 | 101 | % | 70-130 | | | | | |
| 4-Bromofluorobenzene | 108 | % | 70-130 | | | | | |
| Dibromofluoromethane | 97.0 | % | 70-130 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|---------------------------------------|-----------------------------------|
| Laboratory Sample Number: L0814755-13 | Date Collected: 03-OCT-2008 13:45 |
| TB100308-02 | Date Received : 06-OCT-2008 |
| Sample Matrix: WATER | Date Reported : 14-OCT-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 2-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE | | ID |
|--------------------------------|--------|-------|------|------------|-------|---------------|----|
| | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B | | | | 1 | 8260B | 1010 01:42 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | | |
| Chloroform | ND | ug/l | 0.75 | | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | | |
| Tetrachloroethene | ND | ug/l | 0.50 | | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | | |
| Bromoform | ND | ug/l | 2.0 | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | |
| Benzene | ND | ug/l | 0.50 | | | | |
| Toluene | ND | ug/l | 0.75 | | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | | |
| Chloromethane | ND | ug/l | 2.5 | | | | |
| Bromomethane | ND | ug/l | 1.0 | | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | | |
| Chloroethane | ND | ug/l | 1.0 | | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | | |
| Trichloroethene | ND | ug/l | 0.50 | | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | | |
| Methyl tert butyl ether | ND | ug/l | 1.0 | | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | | |
| o-Xylene | ND | ug/l | 1.0 | | | | |
| cis-1,2-Dichloroethene | ND | ug/l | 0.50 | | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0814755-13
TB100308-02

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 1010 01:42 PD | | |
| Styrene | ND | ug/l | 1.0 | | | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | | | |
| Acetone | ND | ug/l | 5.0 | | | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | | | |
| 2-Butanone | ND | ug/l | 5.0 | | | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | | | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | | | |
| Naphthalene | ND | ug/l | 2.5 | | | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 1,2-Dichloroethane-d4 | 108 | % | 70-130 | | | | | |
| Toluene-d8 | 99.0 | % | 70-130 | | | | | |
| 4-Bromofluorobenzene | 107 | % | 70-130 | | | | | |
| Dibromofluoromethane | 97.0 | % | 70-130 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|---------------------------------------|-----------------------------------|
| Laboratory Sample Number: L0814755-14 | Date Collected: 06-OCT-2008 13:55 |
| TB100608-03 | Date Received : 06-OCT-2008 |
| Sample Matrix: WATER | Date Reported : 14-OCT-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 2-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-------------------|----|
| Volatile Organics by EPA 8260B | | | | 1 8260B | 1010 02:19 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | |
| Chloroform | ND | ug/l | 0.75 | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | |
| Tetrachloroethene | ND | ug/l | 0.50 | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | |
| Bromoform | ND | ug/l | 2.0 | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Benzene | ND | ug/l | 0.50 | | | |
| Toluene | ND | ug/l | 0.75 | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | |
| Chloromethane | ND | ug/l | 2.5 | | | |
| Bromomethane | ND | ug/l | 1.0 | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | |
| Chloroethane | ND | ug/l | 1.0 | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | |
| Trichloroethene | ND | ug/l | 0.50 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| Methyl tert butyl ether | ND | ug/l | 1.0 | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | |
| o-Xylene | ND | ug/l | 1.0 | | | |
| cis-1,2-Dichloroethene | ND | ug/l | 0.50 | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0814755-14
TB100608-03

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 1010 02:19 PD | | |
| Styrene | ND | ug/l | 1.0 | | | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | | | |
| Acetone | ND | ug/l | 5.0 | | | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | | | |
| 2-Butanone | ND | ug/l | 5.0 | | | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | | | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | | | |
| Naphthalene | ND | ug/l | 2.5 | | | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 1,2-Dichloroethane-d4 | 108 | % | 70-130 | | | | | |
| Toluene-d8 | 100 | % | 70-130 | | | | | |
| 4-Bromofluorobenzene | 108 | % | 70-130 | | | | | |
| Dibromofluoromethane | 96.0 | % | 70-130 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|---------------------------------------|-----------------------------------|
| Laboratory Sample Number: L0814755-15 | Date Collected: 06-OCT-2008 13:55 |
| TB100608-04 | Date Received : 06-OCT-2008 |
| Sample Matrix: WATER | Date Reported : 14-OCT-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 2-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-------------------|----|
| Volatile Organics by EPA 8260B | | | | 1 8260B | 1010 02:55 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | |
| Chloroform | ND | ug/l | 0.75 | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | |
| Tetrachloroethene | ND | ug/l | 0.50 | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | |
| Bromoform | ND | ug/l | 2.0 | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Benzene | ND | ug/l | 0.50 | | | |
| Toluene | ND | ug/l | 0.75 | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | |
| Chloromethane | ND | ug/l | 2.5 | | | |
| Bromomethane | ND | ug/l | 1.0 | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | |
| Chloroethane | ND | ug/l | 1.0 | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | |
| Trichloroethene | ND | ug/l | 0.50 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| Methyl tert butyl ether | ND | ug/l | 1.0 | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | |
| o-Xylene | ND | ug/l | 1.0 | | | |
| cis-1,2-Dichloroethene | ND | ug/l | 0.50 | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0814755-15
TB100608-04

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 1010 02:55 PD | | |
| Styrene | ND | ug/l | 1.0 | | | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | | | |
| Acetone | ND | ug/l | 5.0 | | | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | | | |
| 2-Butanone | ND | ug/l | 5.0 | | | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | | | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | | | |
| Naphthalene | ND | ug/l | 2.5 | | | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 1,2-Dichloroethane-d4 | 108 | % | 70-130 | | | | | |
| Toluene-d8 | 101 | % | 70-130 | | | | | |
| 4-Bromofluorobenzene | 106 | % | 70-130 | | | | | |
| Dibromofluoromethane | 95.0 | % | 70-130 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

| | |
|---------------------------------------|-----------------------------------|
| Laboratory Sample Number: L0814755-16 | Date Collected: 06-OCT-2008 13:55 |
| TB100608-05 | Date Received : 06-OCT-2008 |
| Sample Matrix: WATER | Date Reported : 14-OCT-2008 |
| Condition of Sample: Satisfactory | Field Prep: None |
| Number & Type of Containers: 2-Vial | |

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--------------------------------|--------|-------|------|------------|-------------------|----|
| Volatile Organics by EPA 8260B | | | | 1 8260B | 1010 03:31 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | |
| Chloroform | ND | ug/l | 0.75 | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | |
| Tetrachloroethene | ND | ug/l | 0.50 | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | |
| Bromoform | ND | ug/l | 2.0 | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Benzene | ND | ug/l | 0.50 | | | |
| Toluene | ND | ug/l | 0.75 | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | |
| Chloromethane | ND | ug/l | 2.5 | | | |
| Bromomethane | ND | ug/l | 1.0 | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | |
| Chloroethane | ND | ug/l | 1.0 | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | |
| Trichloroethene | ND | ug/l | 0.50 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| Methyl tert butyl ether | ND | ug/l | 1.0 | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | |
| o-Xylene | ND | ug/l | 1.0 | | | |
| cis-1,2-Dichloroethene | ND | ug/l | 0.50 | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0814755-16
TB100608-05

| PARAMETER | RESULT | UNITS | RDL | REF | METHOD | DATE | | ID |
|---------------------------------------|----------|-------|-------------|-----|--------|---------------|------|----|
| | | | | | | PREP | ANAL | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 | 8260B | 1010 03:31 PD | | |
| Styrene | ND | ug/l | 1.0 | | | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | | | |
| Acetone | ND | ug/l | 5.0 | | | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | | | |
| 2-Butanone | ND | ug/l | 5.0 | | | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | | | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | | | |
| Naphthalene | ND | ug/l | 2.5 | | | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | | |
| 1,2-Dichloroethane-d4 | 109 | % | 70-130 | | | | | |
| Toluene-d8 | 101 | % | 70-130 | | | | | |
| 4-Bromofluorobenzene | 106 | % | 70-130 | | | | | |
| Dibromofluoromethane | 97.0 | % | 70-130 | | | | | |

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0814755-17 Date Collected: 03-OCT-2008 14:40
MW-4 (EXTRA VOLUME) Date Received : 06-OCT-2008
Sample Matrix: WATER Date Reported : 14-OCT-2008
Condition of Sample: Satisfactory Field Prep: None
Number & Type of Containers: 1-Plastic

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|-----------|--------|-------|-----|------------|-------------------|----|
|-----------|--------|-------|-----|------------|-------------------|----|

***** THIS SAMPLE IS ON HOLD *****

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0814755

| Parameter | Value 1 | Value 2 | Units | RPD | RPD Limits |
|--|---------|---------|-------|-----|------------|
| Solids, Total for sample(s) 01 (L0810934-07, WG339401-1) | | | | | |
| Solids, Total | 70 | 71 | % | 1 | 20 |
| Total Metals for sample(s) 01 (L0814755-01, WG339213-1) | | | | | |
| Aluminum, Total | 1500 | 1400 | mg/kg | 7 | 35 |
| Antimony, Total | ND | ND | mg/kg | NC | 35 |
| Arsenic, Total | ND | ND | mg/kg | NC | 35 |
| Barium, Total | 9.6 | 7.9 | mg/kg | 19 | 35 |
| Beryllium, Total | ND | ND | mg/kg | NC | 35 |
| Cadmium, Total | ND | ND | mg/kg | NC | 35 |
| Calcium, Total | 440 | 280 | mg/kg | 44 | 35 |
| Chromium, Total | 6.9 | 6.1 | mg/kg | 12 | 35 |
| Cobalt, Total | ND | ND | mg/kg | NC | 35 |
| Copper, Total | 36 | 19 | mg/kg | 62 | 35 |
| Iron, Total | 6600 | 4400 | mg/kg | 40 | 35 |
| Lead, Total | 23 | 9.2 | mg/kg | 86 | 35 |
| Magnesium, Total | 410 | 290 | mg/kg | 34 | 35 |
| Manganese, Total | 33 | 34 | mg/kg | 3 | 35 |
| Nickel, Total | 3.0 | 2.2 | mg/kg | 31 | 35 |
| Potassium, Total | ND | ND | mg/kg | NC | 35 |
| Selenium, Total | ND | ND | mg/kg | NC | 35 |
| Silver, Total | ND | ND | mg/kg | NC | 35 |
| Sodium, Total | ND | ND | mg/kg | NC | 35 |
| Thallium, Total | ND | ND | mg/kg | NC | 35 |
| Vanadium, Total | 6.0 | 5.1 | mg/kg | 16 | 35 |
| Zinc, Total | 120 | 81 | mg/kg | 39 | 35 |
| Total Metals for sample(s) 02-07,10-11 (L0814755-04, WG338986-1) | | | | | |
| Aluminum, Total | 10 | 9.4 | mg/l | 6 | 20 |
| Antimony, Total | ND | ND | mg/l | NC | 20 |
| Arsenic, Total | ND | ND | mg/l | NC | 20 |
| Barium, Total | 0.039 | 0.038 | mg/l | 3 | 20 |
| Beryllium, Total | ND | ND | mg/l | NC | 20 |
| Cadmium, Total | ND | ND | mg/l | NC | 20 |
| Calcium, Total | 17 | 16 | mg/l | 6 | 20 |
| Chromium, Total | 0.02 | 0.02 | mg/l | 6 | 20 |
| Cobalt, Total | ND | ND | mg/l | NC | 20 |
| Copper, Total | 0.011 | 0.011 | mg/l | 4 | 20 |
| Iron, Total | 150 | 150 | mg/l | 0 | 20 |
| Lead, Total | 0.015 | 0.012 | mg/l | 20 | 20 |
| Magnesium, Total | 16 | 16 | mg/l | 0 | 20 |
| Manganese, Total | 0.795 | 0.766 | mg/l | 4 | 20 |
| Nickel, Total | ND | ND | mg/l | NC | 20 |
| Potassium, Total | 3.8 | 3.6 | mg/l | 5 | 20 |
| Selenium, Total | ND | ND | mg/l | NC | 20 |
| Silver, Total | ND | ND | mg/l | NC | 20 |
| Sodium, Total | 30 | 30 | mg/l | 0 | 20 |
| Thallium, Total | ND | ND | mg/l | NC | 20 |
| Vanadium, Total | 0.030 | 0.028 | mg/l | 7 | 20 |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0814755

Continued

| Parameter | Value 1 | Value 2 | Units | RPD | RPD Limits |
|--|---------|---------|-------|-----|------------|
| Total Metals for sample(s) 02-07,10-11 (L0814755-04, WG338986-1) | | | | | |
| Zinc, Total | 0.217 | 0.209 | mg/l | 4 | 20 |
| Total Metals for sample(s) 01 (L0814755-01, WG339060-3) | | | | | |
| Mercury, Total | ND | ND | mg/kg | NC | 35 |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0814755

| Parameter | % Recovery | QC Criteria |
|-----------|------------|-------------|
|-----------|------------|-------------|

Total Metals LCS for sample(s) 02-07,10-11 (WG338986-5)

| | | |
|------------------|-----|--------|
| Aluminum, Total | 105 | 80-120 |
| Antimony, Total | 107 | 80-120 |
| Arsenic, Total | 113 | 80-120 |
| Barium, Total | 106 | 80-120 |
| Beryllium, Total | 106 | 80-120 |
| Cadmium, Total | 111 | 80-120 |
| Calcium, Total | 100 | 80-120 |
| Chromium, Total | 105 | 80-120 |
| Cobalt, Total | 104 | 80-120 |
| Copper, Total | 103 | 80-120 |
| Iron, Total | 100 | 80-120 |
| Lead, Total | 106 | 80-120 |
| Magnesium, Total | 100 | 80-120 |
| Manganese, Total | 104 | 80-120 |
| Nickel, Total | 104 | 80-120 |
| Potassium, Total | 100 | 80-120 |
| Selenium, Total | 116 | 80-120 |
| Silver, Total | 102 | 80-120 |
| Sodium, Total | 100 | 80-120 |
| Thallium, Total | 109 | 80-120 |
| Vanadium, Total | 105 | 80-120 |
| Zinc, Total | 106 | 80-120 |

Total Metals LCS for sample(s) 01 (WG339213-4)

| | | |
|------------------|----|--------|
| Aluminum, Total | 92 | 75-125 |
| Antimony, Total | 88 | 75-125 |
| Arsenic, Total | 95 | 75-125 |
| Barium, Total | 93 | 75-125 |
| Beryllium, Total | 92 | 75-125 |
| Cadmium, Total | 94 | 75-125 |
| Calcium, Total | 90 | 75-125 |
| Chromium, Total | 93 | 75-125 |
| Cobalt, Total | 92 | 75-125 |
| Copper, Total | 88 | 75-125 |
| Iron, Total | 92 | 75-125 |
| Lead, Total | 90 | 75-125 |
| Magnesium, Total | 88 | 75-125 |
| Manganese, Total | 88 | 75-125 |
| Nickel, Total | 92 | 75-125 |
| Potassium, Total | 90 | 75-125 |
| Selenium, Total | 91 | 75-125 |
| Silver, Total | 95 | 75-125 |
| Sodium, Total | 90 | 75-125 |
| Thallium, Total | 91 | 75-125 |
| Vanadium, Total | 92 | 75-125 |
| Zinc, Total | 88 | 75-125 |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0814755

Continued

| Parameter | % Recovery | QC Criteria |
|--|------------|-------------|
| Total Metals LCS for sample(s) 01 (WG339060-2) | | |
| Mercury, Total | 101 | 80-120 |
| Total Metals LCS for sample(s) 02-07,10-11 (WG339073-2) | | |
| Mercury, Total | 101 | 80-120 |
| Total Metals SPIKE for sample(s) 02-07,10-11 (L0814755-04, WG338986-2) | | |
| Aluminum, Total | 100 | 75-125 |
| Antimony, Total | 95 | 75-125 |
| Arsenic, Total | 91 | 75-125 |
| Barium, Total | 102 | 75-125 |
| Beryllium, Total | 103 | 75-125 |
| Cadmium, Total | 111 | 75-125 |
| Calcium, Total | 90 | 75-125 |
| Chromium, Total | 97 | 75-125 |
| Cobalt, Total | 101 | 75-125 |
| Copper, Total | 101 | 75-125 |
| Iron, Total | 0 | 75-125 |
| Lead, Total | 98 | 75-125 |
| Magnesium, Total | 90 | 75-125 |
| Manganese, Total | 91 | 75-125 |
| Nickel, Total | 102 | 75-125 |
| Potassium, Total | 92 | 75-125 |
| Selenium, Total | 109 | 75-125 |
| Silver, Total | 97 | 75-125 |
| Sodium, Total | 90 | 75-125 |
| Thallium, Total | 100 | 75-125 |
| Vanadium, Total | 100 | 75-125 |
| Zinc, Total | 97 | 75-125 |
| Total Metals SPIKE for sample(s) 01 (L0814755-01, WG339213-2) | | |
| Aluminum, Total | 78 | 75-125 |
| Antimony, Total | 68 | 75-125 |
| Arsenic, Total | 92 | 75-125 |
| Barium, Total | 86 | 75-125 |
| Beryllium, Total | 90 | 75-125 |
| Cadmium, Total | 100 | 75-125 |
| Calcium, Total | 64 | 75-125 |
| Chromium, Total | 78 | 75-125 |
| Cobalt, Total | 90 | 75-125 |
| Copper, Total | 0 | 75-125 |
| Iron, Total | 0 | 75-125 |
| Lead, Total | 49 | 75-125 |
| Magnesium, Total | 73 | 75-125 |
| Manganese, Total | 47 | 75-125 |
| Nickel, Total | 84 | 75-125 |
| Potassium, Total | 109 | 75-125 |
| Selenium, Total | 80 | 75-125 |
| Silver, Total | 93 | 75-125 |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0814755

Continued

| Parameter | % Recovery | QC Criteria |
|---|------------|-------------|
| Total Metals SPIKE for sample(s) 01 (L0814755-01, WG339213-2) | | |
| Sodium, Total | 88 | 75-125 |
| Thallium, Total | 85 | 75-125 |
| Vanadium, Total | 87 | 75-125 |
| Zinc, Total | 0 | 75-125 |
| Total Metals SPIKE for sample(s) 01 (L0814755-01, WG339060-4) | | |
| Mercury, Total | 109 | 70-130 |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0814755

| Parameter | LCS % | LCSD % | RPD | RPD Limit | QC Limits |
|--|-------|--------|-----|-----------|-----------|
| Volatile Organics by EPA 8260B for sample(s) 01 (WG339552-1, WG339552-2) | | | | | |
| Chlorobenzene | 107 | 101 | 6 | 30 | 60-133 |
| Benzene | 108 | 103 | 5 | 30 | 66-142 |
| Toluene | 110 | 104 | 6 | 30 | 59-139 |
| 1,1-Dichloroethene | 80 | 79 | 1 | 30 | 59-172 |
| Trichloroethene | 105 | 102 | 3 | 30 | 62-137 |
| Surrogate(s) | | | | | |
| 1,2-Dichloroethane-d4 | 99 | 96 | 3 | | 70-130 |
| Toluene-d8 | 99 | 98 | 1 | | 70-130 |
| 4-Bromofluorobenzene | 98 | 97 | 1 | | 70-130 |
| Dibromofluoromethane | 99 | 97 | 2 | | 70-130 |
| Volatile Organics by EPA 8260B for sample(s) 02-16 (WG339486-1, WG339486-2) | | | | | |
| Chlorobenzene | 98 | 105 | 7 | 20 | 75-130 |
| Benzene | 96 | 102 | 6 | 20 | 76-127 |
| Toluene | 99 | 106 | 7 | 20 | 76-125 |
| 1,1-Dichloroethene | 91 | 97 | 6 | 20 | 61-145 |
| Trichloroethene | 91 | 98 | 7 | 20 | 71-120 |
| Surrogate(s) | | | | | |
| 1,2-Dichloroethane-d4 | 104 | 105 | 1 | | 70-130 |
| Toluene-d8 | 102 | 101 | 1 | | 70-130 |
| 4-Bromofluorobenzene | 104 | 101 | 3 | | 70-130 |
| Dibromofluoromethane | 97 | 97 | 0 | | 70-130 |
| Semivolatile Organics by EPA 8270C for sample(s) 01 (WG339103-2, WG339103-3) | | | | | |
| Acenaphthene | 64 | 64 | 0 | 50 | 31-137 |
| 1,2,4-Trichlorobenzene | 61 | 61 | 0 | 50 | 38-107 |
| 2-Chloronaphthalene | 63 | 61 | 3 | 50 | 40-140 |
| 1,2-Dichlorobenzene | 64 | 61 | 5 | 50 | 40-140 |
| 1,4-Dichlorobenzene | 60 | 57 | 5 | 50 | 28-104 |
| 2,4-Dinitrotoluene | 80 | 73 | 9 | 50 | 28-89 |
| 2,6-Dinitrotoluene | 71 | 64 | 10 | 50 | 40-140 |
| Fluoranthene | 82 | 71 | 14 | 50 | 40-140 |
| 4-Chlorophenyl phenyl ether | 71 | 70 | 1 | 50 | 40-140 |
| n-Nitrosodi-n-propylamine | 65 | 58 | 11 | 50 | 41-126 |
| Butyl benzyl phthalate | 88 | 72 | 20 | 50 | 40-140 |
| Anthracene | 80 | 70 | 13 | 50 | 40-140 |
| Pyrene | 79 | 69 | 14 | 50 | 35-142 |
| P-Chloro-M-Cresol | 70 | 67 | 4 | 50 | 26-103 |
| 2-Chlorophenol | 65 | 61 | 6 | 50 | 25-102 |
| 2-Nitrophenol | 63 | 57 | 10 | 50 | 30-130 |
| 4-Nitrophenol | 69 | 58 | 17 | 50 | 11-114 |
| 2,4-Dinitrophenol | 66 | 62 | 6 | 50 | 30-130 |
| Pentachlorophenol | 72 | 65 | 10 | 50 | 17-109 |
| Phenol | 61 | 58 | 5 | 50 | 26-90 |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0814755

Continued

| Parameter | LCS % | LCSD % | RPD | RPD Limit | QC Limits |
|---|-------|--------|-----|-----------|-----------|
| Semivolatile Organics by EPA 8270C for sample(s) 01 (WG339103-2, WG339103-3) | | | | | |
| Surrogate(s) | | | | | |
| 2-Fluorophenol | 70 | 64 | 9 | | 25-120 |
| Phenol-d6 | 66 | 62 | 6 | | 10-120 |
| Nitrobenzene-d5 | 59 | 54 | 9 | | 23-120 |
| 2-Fluorobiphenyl | 59 | 57 | 3 | | 30-120 |
| 2,4,6-Tribromophenol | 89 | 74 | 18 | | 19-120 |
| 4-Terphenyl-d14 | 69 | 56 | 21 | | 18-120 |
| Semivolatile Organics by EPA 8270C for sample(s) 02-07,10-11 (WG339098-2, WG339098-3) | | | | | |
| Acenaphthene | 99 | 99 | 0 | 30 | 46-118 |
| 1,2,4-Trichlorobenzene | 82 | 78 | 5 | 30 | 39-98 |
| 2-Chloronaphthalene | 90 | 86 | 5 | 30 | 40-140 |
| 1,2-Dichlorobenzene | 81 | 75 | 8 | 30 | 40-140 |
| 1,4-Dichlorobenzene | 74 | 68 | 8 | 30 | 36-97 |
| 2,4-Dinitrotoluene | 119 | 115 | 3 | 30 | 24-96 |
| 2,6-Dinitrotoluene | 104 | 96 | 8 | 30 | 40-140 |
| Fluoranthene | 120 | 116 | 3 | 30 | 40-140 |
| 4-Chlorophenyl phenyl ether | 100 | 100 | 0 | 30 | 40-140 |
| n-Nitrosodi-n-propylamine | 87 | 81 | 7 | 30 | 41-116 |
| Butyl benzyl phthalate | 121 | 119 | 2 | 30 | 40-140 |
| Anthracene | 107 | 102 | 5 | 30 | 40-140 |
| Pyrene | 115 | 113 | 2 | 30 | 26-127 |
| p-Chloro-M-Cresol | 98 | 96 | 2 | 30 | 23-97 |
| 2-Chlorophenol | 85 | 83 | 2 | 30 | 27-123 |
| 2-Nitrophenol | 95 | 90 | 5 | 30 | 30-130 |
| 4-Nitrophenol | 47 | 48 | 2 | 30 | 10-80 |
| 2,4-Dinitrophenol | 97 | 99 | 2 | 30 | 30-130 |
| Pentachlorophenol | 104 | 102 | 2 | 30 | 9-103 |
| Phenol | 38 | 39 | 3 | 30 | 12-110 |
| Surrogate(s) | | | | | |
| 2-Fluorophenol | 58 | 60 | 3 | | 21-120 |
| Phenol-d6 | 40 | 41 | 2 | | 10-120 |
| Nitrobenzene-d5 | 84 | 81 | 4 | | 23-120 |
| 2-Fluorobiphenyl | 87 | 88 | 1 | | 43-120 |
| 2,4,6-Tribromophenol | 118 | 118 | 0 | | 10-120 |
| 4-Terphenyl-d14 | 98 | 96 | 2 | | 33-120 |
| Semivolatile Organics by EPA 8270C-SIM for sample(s) 01 (WG339105-2, WG339105-3) | | | | | |
| Acenaphthene | 78 | 62 | 23 | | 31-137 |
| 2-Chloronaphthalene | 80 | 64 | 22 | | 40-140 |
| Fluoranthene | 95 | 95 | 0 | | 40-140 |
| Anthracene | 100 | 95 | 5 | | 40-140 |
| Pyrene | 93 | 93 | 0 | | 35-142 |
| Pentachlorophenol | 50 | 50 | 0 | | 17-109 |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0814755

Continued

| Parameter | LCS % | LCSD % | RPD | RPD Limit | QC Limits |
|---|-------|--------|-----|-----------|-----------|
| Semivolatile Organics by EPA 8270C-SIM for sample(s) 01 (WG339105-2, WG339105-3) | | | | | |
| Surrogate(s) | | | | | |
| 2-Fluorophenol | 74 | 59 | 23 | | 25-120 |
| Phenol-d6 | 80 | 66 | 19 | | 10-120 |
| Nitrobenzene-d5 | 72 | 57 | 23 | | 23-120 |
| 2-Fluorobiphenyl | 69 | 55 | 23 | | 30-120 |
| 2,4,6-Tribromophenol | 80 | 75 | 6 | | 19-120 |
| 4-Terphenyl-d14 | 70 | 71 | 1 | | 18-120 |
| Semivolatile Organics by EPA 8270C-SIM for sample(s) 02-07,10-11 (WG339099-2, WG339099-3) | | | | | |
| Acenaphthene | 73 | 90 | 21 | | 40-140 |
| 2-Chloronaphthalene | 70 | 85 | 19 | | 40-140 |
| Fluoranthene | 114 | 117 | 3 | | 40-140 |
| Anthracene | 98 | 103 | 5 | | 40-140 |
| Pyrene | 115 | 118 | 3 | | 40-140 |
| Pentachlorophenol | 82 | 88 | 7 | | 30-130 |
| Surrogate(s) | | | | | |
| 2-Fluorophenol | 51 | 64 | 23 | | 21-120 |
| Phenol-d6 | 36 | 45 | 22 | | 10-120 |
| Nitrobenzene-d5 | 76 | 97 | 24 | | 23-120 |
| 2-Fluorobiphenyl | 66 | 89 | 30 | | 43-120 |
| 2,4,6-Tribromophenol | 97 | 115 | 17 | | 10-120 |
| 4-Terphenyl-d14 | 94 | 102 | 8 | | 33-120 |
| Polychlorinated Biphenyls by EPA 8082 for sample(s) 02-07,10-11 (WG339104-2, WG339104-3) | | | | | |
| Aroclor 1016 | 74 | 78 | 6 | 30 | 40-140 |
| Aroclor 1260 | 88 | 86 | 2 | 30 | 40-140 |
| Surrogate(s) | | | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 56 | 68 | 19 | | 30-150 |
| Decachlorobiphenyl | 93 | 91 | 2 | | 30-150 |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0814755

| Parameter | MS % | MSD % | RPD | RPD Limit | MS/MSD Limits |
|--|------|-------|-----|-----------|---------------|
| Total Metals for sample(s) 02-07,10-11 (L0814755-04, WG339073-4) | | | | | |
| Mercury, Total | 118 | 116 | 2 | 20 | 70-130 |
| Volatile Organics by EPA 8260B for sample(s) 02-16 (L0814755-04, WG339486-5) | | | | | |
| Chlorobenzene | 98 | 92 | 6 | 20 | 75-130 |
| Benzene | 97 | 91 | 6 | 20 | 76-127 |
| Toluene | 100 | 94 | 6 | 20 | 76-125 |
| 1,1-Dichloroethene | 96 | 88 | 9 | 20 | 61-145 |
| Trichloroethene | 92 | 85 | 8 | 20 | 71-120 |
| Surrogate(s) | | | | | |
| 1,2-Dichloroethane-d4 | 103 | 103 | 0 | | 70-130 |
| Toluene-d8 | 101 | 101 | 0 | | 70-130 |
| 4-Bromofluorobenzene | 104 | 106 | 2 | | 70-130 |
| Dibromofluoromethane | 98 | 96 | 2 | | 70-130 |
| Semivolatile Organics by EPA 8270C for sample(s) 02-07,10-11 (L0814755-04, WG339098-5) | | | | | |
| Acenaphthene | 81 | 77 | 5 | 30 | 46-118 |
| 1,2,4-Trichlorobenzene | 72 | 63 | 13 | 30 | 39-98 |
| 2-Chloronaphthalene | 77 | 72 | 7 | 30 | 40-140 |
| 1,2-Dichlorobenzene | 68 | 63 | 8 | 30 | 40-140 |
| 1,4-Dichlorobenzene | 63 | 59 | 7 | 30 | 36-97 |
| 2,4-Dinitrotoluene | 100 | 95 | 5 | 30 | 24-96 |
| 2,6-Dinitrotoluene | 90 | 81 | 11 | 30 | 40-140 |
| Fluoranthene | 110 | 99 | 11 | 30 | 40-140 |
| 4-Chlorophenyl phenyl ether | 90 | 81 | 11 | 30 | 40-140 |
| n-Nitrosodi-n-propylamine | 72 | 68 | 6 | 30 | 41-116 |
| Butyl benzyl phthalate | 110 | 99 | 11 | 30 | 40-140 |
| Anthracene | 99 | 90 | 10 | 30 | 40-140 |
| Pyrene | 110 | 99 | 11 | 30 | 26-127 |
| P-Chloro-M-Cresol | 83 | 79 | 5 | 30 | 23-97 |
| 2-Chlorophenol | 74 | 70 | 6 | 30 | 27-123 |
| 2-Nitrophenol | 79 | 72 | 9 | 30 | 30-130 |
| 4-Nitrophenol | 65 | 61 | 6 | 30 | 10-80 |
| 2,4-Dinitrophenol | 90 | 83 | 8 | 30 | 30-130 |
| Pentachlorophenol | 99 | 90 | 10 | 30 | 9-103 |
| Phenol | 50 | 47 | 6 | 30 | 12-110 |
| Surrogate(s) | | | | | |
| 2-Fluorophenol | 66 | 62 | 6 | | 21-120 |
| Phenol-d6 | 52 | 50 | 4 | | 10-120 |
| Nitrobenzene-d5 | 69 | 67 | 3 | | 23-120 |
| 2-Fluorobiphenyl | 72 | 65 | 10 | | 43-120 |
| 2,4,6-Tribromophenol | 106 | 97 | 9 | | 10-120 |
| 4-Terphenyl-d14 | 85 | 79 | 7 | | 33-120 |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0814755

Continued

| Parameter | MS % | MSD % | RPD | RPD Limit | MS/MSD Limits |
|--|------|-------|-----|-----------|---------------|
| Semivolatile Organics by EPA 8270C-SIM for sample(s) 02-07,10-11 (L0814755-04, WG339099-5) | | | | | |
| Acenaphthene | 95 | 90 | 5 | 40 | 40-140 |
| 2-Chloronaphthalene | 90 | 81 | 11 | 40 | 40-140 |
| Fluoranthene | 130 | 130 | 0 | 40 | 40-140 |
| Anthracene | 110 | 110 | 0 | 40 | 40-140 |
| Pyrene | 130 | 120 | 8 | 40 | 40-140 |
| Pentachlorophenol | 97 | 92 | 5 | 40 | 30-130 |
| Surrogate(s) | | | | | |
| 2-Fluorophenol | 65 | 62 | 5 | | 21-120 |
| Phenol-d6 | 59 | 57 | 3 | | 10-120 |
| Nitrobenzene-d5 | 82 | 77 | 6 | | 23-120 |
| 2-Fluorobiphenyl | 82 | 79 | 4 | | 43-120 |
| 2,4,6-Tribromophenol | 102 | 98 | 4 | | 10-120 |
| 4-Terphenyl-d14 | 109 | 108 | 1 | | 33-120 |
| Polychlorinated Biphenyls by EPA 8082 for sample(s) 02-07,10-11 (L0814755-04, WG339104-5) | | | | | |
| Aroclor 1016 | 69 | 73 | 6 | 30 | 40-140 |
| Aroclor 1260 | 83 | 86 | 4 | 30 | 40-140 |
| Surrogate(s) | | | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 63 | 69 | 9 | | 30-150 |
| Decachlorobiphenyl | 69 | 69 | 0 | | 30-150 |
| Organochlorine Pesticides by EPA 8081A for sample(s) 02-07,10-11 (L0814755-04, WG339110-5) | | | | | |
| Delta-BHC | 89 | 101 | 13 | 30 | 30-150 |
| Lindane | 100 | 115 | 14 | 30 | 30-150 |
| Alpha-BHC | 100 | 117 | 16 | 30 | 30-150 |
| Beta-BHC | 110 | 124 | 12 | 30 | 30-150 |
| Heptachlor | 97 | 114 | 16 | 30 | 30-150 |
| Aldrin | 94 | 111 | 17 | 30 | 30-150 |
| Heptachlor epoxide | 107 | 120 | 11 | 30 | 30-150 |
| Endrin | 114 | 129 | 12 | 30 | 30-150 |
| Endrin ketone | 105 | 117 | 11 | 30 | 30-150 |
| Dieldrin | 110 | 126 | 14 | 30 | 30-150 |
| 4,4'-DDE | 110 | 125 | 13 | 30 | 30-150 |
| 4,4'-DDD | 106 | 120 | 12 | 30 | 30-150 |
| 4,4'-DDT | 100 | 113 | 12 | 30 | 30-150 |
| Endosulfan I | 109 | 124 | 13 | 30 | 30-150 |
| Endosulfan II | 114 | 129 | 12 | 30 | 30-150 |
| Endosulfan sulfate | 109 | 124 | 13 | 30 | 30-150 |
| Methoxychlor | 121 | 135 | 11 | 30 | 30-150 |
| trans-Chlordane | 101 | 114 | 12 | 30 | 30-150 |
| Surrogate(s) | | | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 82 | 98 | 18 | | 30-150 |
| Decachlorobiphenyl | 73 | 79 | 8 | | 30-150 |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0814755

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|--------|-------|-------|------------|--------------------------|----|
| Blank Analysis for sample(s) 02-07,10-11 (WG338986-4) | | | | | | |
| Total Metals | | | | | | |
| Aluminum, Total | ND | mg/l | 0.10 | 1 6010B | 1007 11:00 1010 13:22 AI | |
| Antimony, Total | ND | mg/l | 0.050 | 1 6010B | 1007 11:00 1010 13:22 AI | |
| Arsenic, Total | ND | mg/l | 0.005 | 1 6010B | 1007 11:00 1010 13:22 AI | |
| Barium, Total | ND | mg/l | 0.010 | 1 6010B | 1007 11:00 1010 13:22 AI | |
| Beryllium, Total | ND | mg/l | 0.005 | 1 6010B | 1007 11:00 1010 13:22 AI | |
| Cadmium, Total | ND | mg/l | 0.005 | 1 6010B | 1007 11:00 1010 13:22 AI | |
| Calcium, Total | ND | mg/l | 0.10 | 1 6010B | 1007 11:00 1010 13:22 AI | |
| Chromium, Total | ND | mg/l | 0.01 | 1 6010B | 1007 11:00 1010 13:22 AI | |
| Cobalt, Total | ND | mg/l | 0.020 | 1 6010B | 1007 11:00 1010 13:22 AI | |
| Copper, Total | ND | mg/l | 0.010 | 1 6010B | 1007 11:00 1010 13:22 AI | |
| Iron, Total | ND | mg/l | 0.05 | 1 6010B | 1007 11:00 1010 13:22 AI | |
| Lead, Total | ND | mg/l | 0.010 | 1 6010B | 1007 11:00 1010 13:22 AI | |
| Magnesium, Total | ND | mg/l | 0.10 | 1 6010B | 1007 11:00 1010 13:22 AI | |
| Manganese, Total | ND | mg/l | 0.010 | 1 6010B | 1007 11:00 1010 13:22 AI | |
| Nickel, Total | ND | mg/l | 0.025 | 1 6010B | 1007 11:00 1010 13:22 AI | |
| Potassium, Total | ND | mg/l | 2.5 | 1 6010B | 1007 11:00 1010 13:22 AI | |
| Selenium, Total | ND | mg/l | 0.010 | 1 6010B | 1007 11:00 1010 13:22 AI | |
| Silver, Total | ND | mg/l | 0.007 | 1 6010B | 1007 11:00 1010 13:22 AI | |
| Sodium, Total | ND | mg/l | 2.0 | 1 6010B | 1007 11:00 1010 13:22 AI | |
| Thallium, Total | ND | mg/l | 0.020 | 1 6010B | 1007 11:00 1010 13:22 AI | |
| Vanadium, Total | ND | mg/l | 0.010 | 1 6010B | 1007 11:00 1010 13:22 AI | |
| Zinc, Total | ND | mg/l | 0.050 | 1 6010B | 1007 11:00 1010 13:22 AI | |
| Blank Analysis for sample(s) 01 (WG339213-3) | | | | | | |
| Total Metals | | | | | | |
| Aluminum, Total | ND | mg/kg | 5.0 | 1 6010B | 1008 16:30 1010 14:59 AI | |
| Antimony, Total | ND | mg/kg | 2.5 | 1 6010B | 1008 16:30 1010 14:59 AI | |
| Arsenic, Total | ND | mg/kg | 0.50 | 1 6010B | 1008 16:30 1010 14:59 AI | |
| Barium, Total | ND | mg/kg | 0.50 | 1 6010B | 1008 16:30 1010 14:59 AI | |
| Beryllium, Total | ND | mg/kg | 0.25 | 1 6010B | 1008 16:30 1010 14:59 AI | |
| Cadmium, Total | ND | mg/kg | 0.50 | 1 6010B | 1008 16:30 1010 14:59 AI | |
| Calcium, Total | ND | mg/kg | 5.0 | 1 6010B | 1008 16:30 1010 14:59 AI | |
| Chromium, Total | ND | mg/kg | 0.50 | 1 6010B | 1008 16:30 1010 14:59 AI | |
| Cobalt, Total | ND | mg/kg | 1.0 | 1 6010B | 1008 16:30 1010 14:59 AI | |
| Copper, Total | ND | mg/kg | 0.50 | 1 6010B | 1008 16:30 1010 14:59 AI | |
| Iron, Total | ND | mg/kg | 2.5 | 1 6010B | 1008 16:30 1010 14:59 AI | |
| Lead, Total | ND | mg/kg | 2.5 | 1 6010B | 1008 16:30 1010 14:59 AI | |
| Magnesium, Total | ND | mg/kg | 5.0 | 1 6010B | 1008 16:30 1010 14:59 AI | |
| Manganese, Total | ND | mg/kg | 0.50 | 1 6010B | 1008 16:30 1010 14:59 AI | |
| Nickel, Total | ND | mg/kg | 1.2 | 1 6010B | 1008 16:30 1010 14:59 AI | |
| Potassium, Total | ND | mg/kg | 120 | 1 6010B | 1008 16:30 1010 14:59 AI | |
| Selenium, Total | ND | mg/kg | 1.0 | 1 6010B | 1008 16:30 1010 14:59 AI | |
| Silver, Total | ND | mg/kg | 0.50 | 1 6010B | 1008 16:30 1010 14:59 AI | |
| Sodium, Total | ND | mg/kg | 100 | 1 6010B | 1008 16:30 1010 14:59 AI | |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0814755

Continued

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|--------|-------|--------|------------|--------------------------|----|
| Blank Analysis for sample(s) 01 (WG339213-3) | | | | | | |
| Total Metals | | | | | | |
| Thallium, Total | ND | mg/kg | 1.0 | 1 6010B | 1008 16:30 1010 14:59 AI | |
| Vanadium, Total | ND | mg/kg | 0.50 | 1 6010B | 1008 16:30 1010 14:59 AI | |
| Zinc, Total | ND | mg/kg | 2.5 | 1 6010B | 1008 16:30 1010 14:59 AI | |
| Blank Analysis for sample(s) 01 (WG339060-1) | | | | | | |
| Total Metals | | | | | | |
| Mercury, Total | ND | mg/kg | 0.08 | 1 7471A | 1007 20:00 1008 12:13 HG | |
| Blank Analysis for sample(s) 02-07,10-11 (WG339073-1) | | | | | | |
| Total Metals | | | | | | |
| Mercury, Total | ND | mg/l | 0.0002 | 1 7470A | 1007 22:00 1008 11:31 HG | |
| Blank Analysis for sample(s) 02-16 (WG339486-3) | | | | | | |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 1009 17:16 PD | |
| Methylene chloride | ND | ug/l | 5.0 | | | |
| 1,1-Dichloroethane | ND | ug/l | 0.75 | | | |
| Chloroform | ND | ug/l | 0.75 | | | |
| Carbon tetrachloride | ND | ug/l | 0.50 | | | |
| 1,2-Dichloropropane | ND | ug/l | 1.8 | | | |
| Dibromochloromethane | ND | ug/l | 0.50 | | | |
| 1,1,2-Trichloroethane | ND | ug/l | 0.75 | | | |
| Tetrachloroethene | ND | ug/l | 0.50 | | | |
| Chlorobenzene | ND | ug/l | 0.50 | | | |
| Trichlorofluoromethane | ND | ug/l | 2.5 | | | |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | | | |
| 1,1,1-Trichloroethane | ND | ug/l | 0.50 | | | |
| Bromodichloromethane | ND | ug/l | 0.50 | | | |
| trans-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| cis-1,3-Dichloropropene | ND | ug/l | 0.50 | | | |
| 1,1-Dichloropropene | ND | ug/l | 2.5 | | | |
| Bromoform | ND | ug/l | 2.0 | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Benzene | ND | ug/l | 0.50 | | | |
| Toluene | ND | ug/l | 0.75 | | | |
| Ethylbenzene | ND | ug/l | 0.50 | | | |
| Chloromethane | ND | ug/l | 2.5 | | | |
| Bromomethane | ND | ug/l | 1.0 | | | |
| Vinyl chloride | ND | ug/l | 1.0 | | | |
| Chloroethane | ND | ug/l | 1.0 | | | |
| 1,1-Dichloroethene | ND | ug/l | 0.50 | | | |
| trans-1,2-Dichloroethene | ND | ug/l | 0.75 | | | |
| Trichloroethene | ND | ug/l | 0.50 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 2.5 | | | |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0814755

Continued

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|------------------------|----|
| Blank Analysis for sample(s) 02-16 (WG339486-3) | | | | | | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 1009 17:16 PD | |
| 1,3-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | | | |
| Methyl tert butyl ether | ND | ug/l | 1.0 | | | |
| p/m-Xylene | ND | ug/l | 1.0 | | | |
| o-Xylene | ND | ug/l | 1.0 | | | |
| cis-1,2-Dichloroethene | ND | ug/l | 0.50 | | | |
| Dibromomethane | ND | ug/l | 5.0 | | | |
| 1,2,3-Trichloropropane | ND | ug/l | 5.0 | | | |
| Acrylonitrile | ND | ug/l | 5.0 | | | |
| Styrene | ND | ug/l | 1.0 | | | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | | | |
| Acetone | ND | ug/l | 5.0 | | | |
| Carbon disulfide | ND | ug/l | 5.0 | | | |
| 2-Butanone | ND | ug/l | 5.0 | | | |
| Vinyl acetate | ND | ug/l | 5.0 | | | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | | | |
| 2-Hexanone | ND | ug/l | 5.0 | | | |
| Bromochloromethane | ND | ug/l | 2.5 | | | |
| 2,2-Dichloropropane | ND | ug/l | 2.5 | | | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | | | |
| 1,3-Dichloropropane | ND | ug/l | 2.5 | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/l | 0.50 | | | |
| Bromobenzene | ND | ug/l | 2.5 | | | |
| n-Butylbenzene | ND | ug/l | 0.50 | | | |
| sec-Butylbenzene | ND | ug/l | 0.50 | | | |
| tert-Butylbenzene | ND | ug/l | 2.5 | | | |
| o-Chlorotoluene | ND | ug/l | 2.5 | | | |
| p-Chlorotoluene | ND | ug/l | 2.5 | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | | | |
| Hexachlorobutadiene | ND | ug/l | 0.60 | | | |
| Isopropylbenzene | ND | ug/l | 0.50 | | | |
| p-Isopropyltoluene | ND | ug/l | 0.50 | | | |
| Naphthalene | ND | ug/l | 2.5 | | | |
| n-Propylbenzene | ND | ug/l | 0.50 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | | | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | | | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | | | |
| 1,4-Diethylbenzene | ND | ug/l | 2.0 | | | |
| 4-Ethyltoluene | ND | ug/l | 2.0 | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/l | 2.0 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 104 | % | 70-130 | | | |
| Toluene-d8 | 101 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 108 | % | 70-130 | | | |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0814755

Continued

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|--------|-------|--------|------------|------------------------|----|
| Blank Analysis for sample(s) 02-16 (WG339486-3) | | | | | | |
| Volatile Organics by EPA 8260B cont'd | | | | 1 8260B | 1009 17:16 PD | |
| Dibromofluoromethane | 96.0 | % | 70-130 | | | |
| Blank Analysis for sample(s) 01 (WG339552-3) | | | | | | |
| Volatile Organics by EPA 8260B | | | | 1 8260B | 1010 13:21 PD | |
| Methylene chloride | ND | ug/kg | 25. | | | |
| 1,1-Dichloroethane | ND | ug/kg | 3.8 | | | |
| Chloroform | ND | ug/kg | 3.8 | | | |
| Carbon tetrachloride | ND | ug/kg | 2.5 | | | |
| 1,2-Dichloropropane | ND | ug/kg | 8.8 | | | |
| Dibromochloromethane | ND | ug/kg | 2.5 | | | |
| 1,1,2-Trichloroethane | ND | ug/kg | 3.8 | | | |
| Tetrachloroethene | ND | ug/kg | 2.5 | | | |
| Chlorobenzene | ND | ug/kg | 2.5 | | | |
| Trichlorofluoromethane | ND | ug/kg | 12. | | | |
| 1,2-Dichloroethane | ND | ug/kg | 2.5 | | | |
| 1,1,1-Trichloroethane | ND | ug/kg | 2.5 | | | |
| Bromodichloromethane | ND | ug/kg | 2.5 | | | |
| trans-1,3-Dichloropropene | ND | ug/kg | 2.5 | | | |
| cis-1,3-Dichloropropene | ND | ug/kg | 2.5 | | | |
| 1,1-Dichloropropene | ND | ug/kg | 12. | | | |
| Bromoform | ND | ug/kg | 10. | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 2.5 | | | |
| Benzene | ND | ug/kg | 2.5 | | | |
| Toluene | ND | ug/kg | 3.8 | | | |
| Ethylbenzene | ND | ug/kg | 2.5 | | | |
| Chloromethane | ND | ug/kg | 12. | | | |
| Bromomethane | ND | ug/kg | 5.0 | | | |
| Vinyl chloride | ND | ug/kg | 5.0 | | | |
| Chloroethane | ND | ug/kg | 5.0 | | | |
| 1,1-Dichloroethene | ND | ug/kg | 2.5 | | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 3.8 | | | |
| Trichloroethene | ND | ug/kg | 2.5 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 12. | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 12. | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 12. | | | |
| Methyl tert butyl ether | ND | ug/kg | 5.0 | | | |
| p/m-Xylene | ND | ug/kg | 5.0 | | | |
| o-Xylene | ND | ug/kg | 5.0 | | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 2.5 | | | |
| Dibromomethane | ND | ug/kg | 25. | | | |
| Styrene | ND | ug/kg | 5.0 | | | |
| Dichlorodifluoromethane | ND | ug/kg | 25. | | | |
| Acetone | ND | ug/kg | 25. | | | |
| Carbon disulfide | ND | ug/kg | 25. | | | |
| 2-Butanone | ND | ug/kg | 25. | | | |
| Vinyl acetate | ND | ug/kg | 25. | | | |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0814755

Continued

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Blank Analysis for sample(s) 01 (WG339552-3) | | | | | | |
| Volatile Organics by EPA 8260B cont'd | | | | | | |
| | | | | 1 8260B | 1010 13:21 PD | |
| 4-Methyl-2-pentanone | ND | ug/kg | 25. | | | |
| 1,2,3-Trichloropropane | ND | ug/kg | 25. | | | |
| 2-Hexanone | ND | ug/kg | 25. | | | |
| Bromochloromethane | ND | ug/kg | 12. | | | |
| 2,2-Dichloropropane | ND | ug/kg | 12. | | | |
| 1,2-Dibromoethane | ND | ug/kg | 10. | | | |
| 1,3-Dichloropropane | ND | ug/kg | 12. | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 2.5 | | | |
| Bromobenzene | ND | ug/kg | 12. | | | |
| n-Butylbenzene | ND | ug/kg | 2.5 | | | |
| sec-Butylbenzene | ND | ug/kg | 2.5 | | | |
| tert-Butylbenzene | ND | ug/kg | 12. | | | |
| o-Chlorotoluene | ND | ug/kg | 12. | | | |
| p-Chlorotoluene | ND | ug/kg | 12. | | | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 12. | | | |
| Hexachlorobutadiene | ND | ug/kg | 12. | | | |
| Isopropylbenzene | ND | ug/kg | 2.5 | | | |
| p-Isopropyltoluene | ND | ug/kg | 2.5 | | | |
| Naphthalene | ND | ug/kg | 12. | | | |
| Acrylonitrile | ND | ug/kg | 25. | | | |
| n-Propylbenzene | ND | ug/kg | 2.5 | | | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 12. | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 12. | | | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 12. | | | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 12. | | | |
| 1,4-Diethylbenzene | ND | ug/kg | 10. | | | |
| 4-Ethyltoluene | ND | ug/kg | 10. | | | |
| 1,2,4,5-Tetramethylbenzene | ND | ug/kg | 10. | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 1,2-Dichloroethane-d4 | 102 | % | 70-130 | | | |
| Toluene-d8 | 99.0 | % | 70-130 | | | |
| 4-Bromofluorobenzene | 106 | % | 70-130 | | | |
| Dibromofluoromethane | 99.0 | % | 70-130 | | | |
| Blank Analysis for sample(s) 02-07,10-11 (WG339098-1) | | | | | | |
| Semivolatile Organics by EPA 8270C | | | | | | |
| | | | | 1 8270C | 1008 00:45 1010 12:05 PS | |
| Acenaphthene | ND | ug/l | 5.0 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 5.0 | | | |
| Hexachlorobenzene | ND | ug/l | 5.0 | | | |
| Bis(2-chloroethyl)ether | ND | ug/l | 5.0 | | | |
| 2-Chloronaphthalene | ND | ug/l | 6.0 | | | |
| 1,2-Dichlorobenzene | ND | ug/l | 5.0 | | | |
| 1,3-Dichlorobenzene | ND | ug/l | 5.0 | | | |
| 1,4-Dichlorobenzene | ND | ug/l | 5.0 | | | |
| 3,3'-Dichlorobenzidine | ND | ug/l | 50. | | | |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0814755

Continued

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|--------|-------|-----|------------|--------------------------|----|
| Blank Analysis for sample(s) 02-07,10-11 (WG339098-1) | | | | | | |
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 8270C | 1008 00:45 1010 12:05 PS | |
| 2,4-Dinitrotoluene | ND | ug/l | 6.0 | | | |
| 2,6-Dinitrotoluene | ND | ug/l | 5.0 | | | |
| Fluoranthene | ND | ug/l | 5.0 | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/l | 5.0 | | | |
| 4-Bromophenyl phenyl ether | ND | ug/l | 5.0 | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/l | 5.0 | | | |
| Bis(2-chloroethoxy)methane | ND | ug/l | 5.0 | | | |
| Hexachlorobutadiene | ND | ug/l | 10. | | | |
| Hexachlorocyclopentadiene | ND | ug/l | 30. | | | |
| Hexachloroethane | ND | ug/l | 5.0 | | | |
| Isophorone | ND | ug/l | 5.0 | | | |
| Naphthalene | ND | ug/l | 5.0 | | | |
| Nitrobenzene | ND | ug/l | 5.0 | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/l | 15. | | | |
| n-Nitrosodi-n-propylamine | ND | ug/l | 5.0 | | | |
| Bis(2-Ethylhexyl)phthalate | ND | ug/l | 5.0 | | | |
| Butyl benzyl phthalate | ND | ug/l | 5.0 | | | |
| Di-n-butylphthalate | ND | ug/l | 5.0 | | | |
| Di-n-octylphthalate | ND | ug/l | 5.0 | | | |
| Diethyl phthalate | ND | ug/l | 5.0 | | | |
| Dimethyl phthalate | ND | ug/l | 5.0 | | | |
| Benzo(a)anthracene | ND | ug/l | 5.0 | | | |
| Benzo(a)pyrene | ND | ug/l | 5.0 | | | |
| Benzo(b)fluoranthene | ND | ug/l | 5.0 | | | |
| Benzo(k)fluoranthene | ND | ug/l | 5.0 | | | |
| Chrysene | ND | ug/l | 5.0 | | | |
| Acenaphthylene | ND | ug/l | 5.0 | | | |
| Anthracene | ND | ug/l | 5.0 | | | |
| Benzo(ghi)perylene | ND | ug/l | 5.0 | | | |
| Fluorene | ND | ug/l | 5.0 | | | |
| Phenanthrene | ND | ug/l | 5.0 | | | |
| Dibenzo(a,h)anthracene | ND | ug/l | 5.0 | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/l | 7.0 | | | |
| Pyrene | ND | ug/l | 5.0 | | | |
| Biphenyl | ND | ug/l | 5.0 | | | |
| 4-Chloroaniline | ND | ug/l | 5.0 | | | |
| 2-Nitroaniline | ND | ug/l | 5.0 | | | |
| 3-Nitroaniline | ND | ug/l | 5.0 | | | |
| 4-Nitroaniline | ND | ug/l | 7.0 | | | |
| Dibenzofuran | ND | ug/l | 5.0 | | | |
| 2-Methylnaphthalene | ND | ug/l | 5.0 | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/l | 20. | | | |
| Acetophenone | ND | ug/l | 20. | | | |
| 2,4,6-Trichlorophenol | ND | ug/l | 5.0 | | | |
| P-Chloro-M-Cresol | ND | ug/l | 5.0 | | | |
| 2-Chlorophenol | ND | ug/l | 6.0 | | | |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0814755

Continued

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Blank Analysis for sample(s) 02-07,10-11 (WG339098-1) | | | | | | |
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 8270C | 1008 00:45 1010 12:05 PS | |
| 2,4-Dichlorophenol | ND | ug/l | 10. | | | |
| 2,4-Dimethylphenol | ND | ug/l | 10. | | | |
| 2-Nitrophenol | ND | ug/l | 20. | | | |
| 4-Nitrophenol | ND | ug/l | 10. | | | |
| 2,4-Dinitrophenol | ND | ug/l | 30. | | | |
| 4,6-Dinitro-o-cresol | ND | ug/l | 20. | | | |
| Pentachlorophenol | ND | ug/l | 10. | | | |
| Phenol | ND | ug/l | 7.0 | | | |
| 2-Methylphenol | ND | ug/l | 6.0 | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/l | 6.0 | | | |
| 2,4,5-Trichlorophenol | ND | ug/l | 5.0 | | | |
| Benzoic Acid | ND | ug/l | 50. | | | |
| Benzyl Alcohol | ND | ug/l | 10. | | | |
| Carbazole | ND | ug/l | 5.0 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 55.0 | % | 21-120 | | | |
| Phenol-d6 | 33.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 73.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 73.0 | % | 43-120 | | | |
| 2,4,6-Tribromophenol | 105 | % | 10-120 | | | |
| 4-Terphenyl-d14 | 97.0 | % | 33-120 | | | |
| Blank Analysis for sample(s) 01 (WG339103-1) | | | | | | |
| Semivolatile Organics by EPA 8270C | | | | 1 8270C | 1008 00:30 1009 11:07 PS | |
| Acenaphthene | ND | ug/kg | 330 | | | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 330 | | | |
| Hexachlorobenzene | ND | ug/kg | 330 | | | |
| Bis(2-chloroethyl)ether | ND | ug/kg | 330 | | | |
| 2-Chloronaphthalene | ND | ug/kg | 400 | | | |
| 1,2-Dichlorobenzene | ND | ug/kg | 330 | | | |
| 1,3-Dichlorobenzene | ND | ug/kg | 330 | | | |
| 1,4-Dichlorobenzene | ND | ug/kg | 330 | | | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 670 | | | |
| 2,4-Dinitrotoluene | ND | ug/kg | 330 | | | |
| 2,6-Dinitrotoluene | ND | ug/kg | 330 | | | |
| Fluoranthene | ND | ug/kg | 330 | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/kg | 330 | | | |
| 4-Bromophenyl phenyl ether | ND | ug/kg | 330 | | | |
| Bis(2-chloroisopropyl)ether | ND | ug/kg | 330 | | | |
| Bis(2-chloroethoxy)methane | ND | ug/kg | 330 | | | |
| Hexachlorobutadiene | ND | ug/kg | 670 | | | |
| Hexachlorocyclopentadiene | ND | ug/kg | 670 | | | |
| Hexachloroethane | ND | ug/kg | 330 | | | |
| Isophorone | ND | ug/kg | 330 | | | |
| Naphthalene | ND | ug/kg | 330 | | | |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0814755

Continued

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|--|--------|-------|------|------------|--------------------------|----|
| Blank Analysis for sample(s) 01 (WG339103-1) | | | | | | |
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 8270C | 1008 00:30 1009 11:07 PS | |
| Nitrobenzene | ND | ug/kg | 330 | | | |
| NitrosoDiPhenylAmine(NDPA)/DPA | ND | ug/kg | 1000 | | | |
| n-Nitrosodi-n-propylamine | ND | ug/kg | 330 | | | |
| Bis(2-Ethylhexyl)phthalate | ND | ug/kg | 670 | | | |
| Butyl benzyl phthalate | ND | ug/kg | 330 | | | |
| Di-n-butylphthalate | ND | ug/kg | 330 | | | |
| Di-n-octylphthalate | ND | ug/kg | 330 | | | |
| Diethyl phthalate | ND | ug/kg | 330 | | | |
| Dimethyl phthalate | ND | ug/kg | 330 | | | |
| Benzo(a)anthracene | ND | ug/kg | 330 | | | |
| Benzo(a)pyrene | ND | ug/kg | 330 | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 330 | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 330 | | | |
| Chrysene | ND | ug/kg | 330 | | | |
| Acenaphthylene | ND | ug/kg | 330 | | | |
| Anthracene | ND | ug/kg | 330 | | | |
| Benzo(ghi)perylene | ND | ug/kg | 330 | | | |
| Fluorene | ND | ug/kg | 330 | | | |
| Phenanthrene | ND | ug/kg | 330 | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 330 | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 330 | | | |
| Pyrene | ND | ug/kg | 330 | | | |
| Biphenyl | ND | ug/kg | 330 | | | |
| 4-Chloroaniline | ND | ug/kg | 330 | | | |
| 2-Nitroaniline | ND | ug/kg | 330 | | | |
| 3-Nitroaniline | ND | ug/kg | 330 | | | |
| 4-Nitroaniline | ND | ug/kg | 470 | | | |
| Dibenzofuran | ND | ug/kg | 330 | | | |
| 2-Methylnaphthalene | ND | ug/kg | 330 | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/kg | 1300 | | | |
| Acetophenone | ND | ug/kg | 1300 | | | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 330 | | | |
| P-Chloro-M-Cresol | ND | ug/kg | 330 | | | |
| 2-Chlorophenol | ND | ug/kg | 400 | | | |
| 2,4-Dichlorophenol | ND | ug/kg | 670 | | | |
| 2,4-Dimethylphenol | ND | ug/kg | 330 | | | |
| 2-Nitrophenol | ND | ug/kg | 1300 | | | |
| 4-Nitrophenol | ND | ug/kg | 670 | | | |
| 2,4-Dinitrophenol | ND | ug/kg | 1300 | | | |
| 4,6-Dinitro-o-cresol | ND | ug/kg | 1300 | | | |
| Pentachlorophenol | ND | ug/kg | 1300 | | | |
| Phenol | ND | ug/kg | 470 | | | |
| 2-Methylphenol | ND | ug/kg | 400 | | | |
| 3-Methylphenol/4-Methylphenol | ND | ug/kg | 400 | | | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 330 | | | |
| Benzoic Acid | ND | ug/kg | 3300 | | | |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0814755

Continued

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|--------------------------|----|
| Blank Analysis for sample(s) 01 (WG339103-1) | | | | | | |
| Semivolatile Organics by EPA 8270C cont'd | | | | 1 8270C | 1008 00:30 1009 11:07 PS | |
| Benzyl Alcohol | ND | ug/kg | 670 | | | |
| Carbazole | ND | ug/kg | 330 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 68.0 | % | 25-120 | | | |
| Phenol-d6 | 66.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 57.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 60.0 | % | 30-120 | | | |
| 2,4,6-Tribromophenol | 75.0 | % | 19-120 | | | |
| 4-Terphenyl-d14 | 61.0 | % | 18-120 | | | |
| Blank Analysis for sample(s) 02-07,10-11 (WG339099-1) | | | | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 8270C | 1008 00:45 1010 21:18 AK | |
| Acenaphthene | ND | ug/l | 0.20 | | | |
| 2-Chloronaphthalene | ND | ug/l | 0.20 | | | |
| Fluoranthene | ND | ug/l | 0.20 | | | |
| Hexachlorobutadiene | ND | ug/l | 0.50 | | | |
| Naphthalene | ND | ug/l | 0.20 | | | |
| Benzo(a)anthracene | ND | ug/l | 0.20 | | | |
| Benzo(a)pyrene | ND | ug/l | 0.20 | | | |
| Benzo(b)fluoranthene | ND | ug/l | 0.20 | | | |
| Benzo(k)fluoranthene | ND | ug/l | 0.20 | | | |
| Chrysene | ND | ug/l | 0.20 | | | |
| Acenaphthylene | ND | ug/l | 0.20 | | | |
| Anthracene | ND | ug/l | 0.20 | | | |
| Benzo(ghi)perylene | ND | ug/l | 0.20 | | | |
| Fluorene | ND | ug/l | 0.20 | | | |
| Phenanthrene | ND | ug/l | 0.20 | | | |
| Dibenzo(a,h)anthracene | ND | ug/l | 0.20 | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/l | 0.20 | | | |
| Pyrene | ND | ug/l | 0.20 | | | |
| 2-Methylnaphthalene | ND | ug/l | 0.20 | | | |
| Pentachlorophenol | ND | ug/l | 0.80 | | | |
| Hexachlorobenzene | ND | ug/l | 0.80 | | | |
| Hexachloroethane | ND | ug/l | 0.80 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2-Fluorophenol | 53.0 | % | 21-120 | | | |
| Phenol-d6 | 36.0 | % | 10-120 | | | |
| Nitrobenzene-d5 | 80.0 | % | 23-120 | | | |
| 2-Fluorobiphenyl | 74.0 | % | 43-120 | | | |
| 2,4,6-Tribromophenol | 91.0 | % | 10-120 | | | |
| 4-Terphenyl-d14 | 94.0 | % | 33-120 | | | |
| Blank Analysis for sample(s) 01 (WG339105-1) | | | | | | |
| Semivolatile Organics by EPA 8270C-SIM | | | | 1 8270C | 1008 01:00 1008 13:21 AK | |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0814755

Continued

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP | DATE ANAL | ID |
|---|----------|-------|-------------|------------|--------------|--------------|----|
| Blank Analysis for sample(s) 01 (WG339105-1) | | | | | | | |
| Semivolatile Organics by EPA 8270C-SIM cont'd | | | | 1 8270C | 1008 01:00 | 1008 13:21 | AK |
| Acenaphthene | ND | ug/kg | 13. | | | | |
| 2-Chloronaphthalene | ND | ug/kg | 13. | | | | |
| Fluoranthene | ND | ug/kg | 13. | | | | |
| Hexachlorobutadiene | ND | ug/kg | 33. | | | | |
| Naphthalene | ND | ug/kg | 13. | | | | |
| Benzo(a)anthracene | ND | ug/kg | 13. | | | | |
| Benzo(a)pyrene | ND | ug/kg | 13. | | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 13. | | | | |
| Benzo(k)fluoranthene | ND | ug/kg | 13. | | | | |
| Chrysene | ND | ug/kg | 13. | | | | |
| Acenaphthylene | ND | ug/kg | 13. | | | | |
| Anthracene | ND | ug/kg | 13. | | | | |
| Benzo(ghi)perylene | ND | ug/kg | 13. | | | | |
| Fluorene | ND | ug/kg | 13. | | | | |
| Phenanthrene | ND | ug/kg | 13. | | | | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 13. | | | | |
| Indeno(1,2,3-cd)Pyrene | ND | ug/kg | 13. | | | | |
| Pyrene | ND | ug/kg | 13. | | | | |
| 2-Methylnaphthalene | ND | ug/kg | 13. | | | | |
| Pentachlorophenol | ND | ug/kg | 53. | | | | |
| Hexachlorobenzene | ND | ug/kg | 53. | | | | |
| Hexachloroethane | ND | ug/kg | 53. | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | |
| 2-Fluorophenol | 82.0 | % | 25-120 | | | | |
| Phenol-d6 | 87.0 | % | 10-120 | | | | |
| Nitrobenzene-d5 | 79.0 | % | 23-120 | | | | |
| 2-Fluorobiphenyl | 75.0 | % | 30-120 | | | | |
| 2,4,6-Tribromophenol | 87.0 | % | 19-120 | | | | |
| 4-Terphenyl-d14 | 82.0 | % | 18-120 | | | | |
| Blank Analysis for sample(s) 02-07,10-11 (WG339104-1) | | | | | | | |
| Polychlorinated Biphenyls by EPA 8082 | | | | 1 8082 | 1008 02:30 | 1009 14:19 | SS |
| Aroclor 1016 | ND | ug/l | 0.100 | | | | |
| Aroclor 1221 | ND | ug/l | 0.100 | | | | |
| Aroclor 1232 | ND | ug/l | 0.100 | | | | |
| Aroclor 1242 | ND | ug/l | 0.100 | | | | |
| Aroclor 1248 | ND | ug/l | 0.100 | | | | |
| Aroclor 1254 | ND | ug/l | 0.100 | | | | |
| Aroclor 1260 | ND | ug/l | 0.100 | | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 77.0 | % | 30-150 | | | | |
| Decachlorobiphenyl | 97.0 | % | 30-150 | | | | |

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0814755

Continued

| PARAMETER | RESULT | UNITS | RDL | REF METHOD | DATE PREP ANAL | ID |
|---|----------|-------|-------------|------------|------------------------|----|
| Blank Analysis for sample(s) 02-07,10-11 (WG339110-1) | | | | | | |
| Organochlorine Pesticides by EPA 8081A | | | | 1 8081A | 1008 05:00 1009 11:40 | JB |
| Delta-BHC | ND | ug/l | 0.020 | | | |
| Lindane | ND | ug/l | 0.020 | | | |
| Alpha-BHC | ND | ug/l | 0.020 | | | |
| Beta-BHC | ND | ug/l | 0.020 | | | |
| Heptachlor | ND | ug/l | 0.020 | | | |
| Aldrin | ND | ug/l | 0.020 | | | |
| Heptachlor epoxide | ND | ug/l | 0.020 | | | |
| Endrin | ND | ug/l | 0.040 | | | |
| Endrin ketone | ND | ug/l | 0.040 | | | |
| Dieldrin | ND | ug/l | 0.040 | | | |
| 4,4'-DDE | ND | ug/l | 0.040 | | | |
| 4,4'-DDD | ND | ug/l | 0.040 | | | |
| 4,4'-DDT | ND | ug/l | 0.040 | | | |
| Endosulfan I | ND | ug/l | 0.020 | | | |
| Endosulfan II | ND | ug/l | 0.040 | | | |
| Endosulfan sulfate | ND | ug/l | 0.040 | | | |
| Methoxychlor | ND | ug/l | 0.200 | | | |
| trans-Chlordane | ND | ug/l | 0.020 | | | |
| Chlordane | ND | ug/l | 0.200 | | | |
| Surrogate(s) | Recovery | | QC Criteria | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 81.0 | % | 30-150 | | | |
| Decachlorobiphenyl | 84.0 | % | 30-150 | | | |

**ALPHA ANALYTICAL
ADDENDUM I**

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.
30. Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

GLOSSARY OF TERMS AND SYMBOLS

| | |
|---------|--|
| REF | Reference number in which test method may be found. |
| METHOD | Method number by which analysis was performed. |
| ID | Initials of the analyst. |
| ND | Not detected in comparison to the reported detection limit. |
| NI | Not Ignitable. |
| ug/cart | Micrograms per Cartridge. |
| H | The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection. |

LIMITATION OF LIABILITIES

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.



CHAIN OF CUSTODY

PAGE 1 OF 2

Project Information

Westborough, MA Mansfield, MA
TEL: 508-898-9220 TEL: 508-822-9300
FAX: 508-898-9193 FAX: 508-822-3288

Client Information

Client: P.W. Grosser

Address: 630 Johnson Avenue, Suite 7

Bohemia, NY 11716

Phone: 631-589-6353

Fax: 631-589-8705

Email: krisa@gpwgrosser.com

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Project Name:

Project #:

Project Location:

Project Manager:

ALPHA Queue #:

Turn-Around Time

☒ Standard

☐ Rush (ONLY IF PRE-APPROVED)

Due Date:

Time:

Date Rec'd in Lab:

10/16/08

ALPHA Job #: 6814755

Report Information Data Deliverables

☐ FAX

☐ EMAIL

☐ ADEX

☐ Add'l Deliverables

PO #:

Regulatory Requirements/Report Limits

State/Fed Program

MCP PRESUMPTIVE CERTAINTY/CT REASONABLE CONFIDENCE PROTOCOL

☐ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

ANALYSIS

SAMPLE HANDLING

Filtration

☐ Done

☐ Not Needed

Preservation

☐ Lab to do

(Please specify below)

Sample Specific Comments

IS YOUR PROJECT
MA MCP or CT RCP?

PLEASE ANSWER QUESTIONS ABOVE!

Relinquished By:

[Signature]

Container Type

Preservative

[Signature]

Date/Time

[Signature]

Received By:

[Signature]

Date/Time

[Signature]

Please print clearly, legibly and completely. Samples cannot be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.



CHAIN OF CUSTODY

PAGE 2 OF 2

Project Information

Westborough, MA Mansfield, MA
TEL: 508-898-9220 TEL: 508-822-9300
FAX: 508-898-9193 FAX: 508-822-3288

Project Name:

AVR0801

Project Location: 80-100 Eads Ave, Eastville, VA

Client: P.W. Grosser

Project #:

AVR0801

Project Manager: Kris Alabab

Bohemia, NY 11716

Alpha Quote #:

Turn-Around Time

Phone: 631-589-6353

Standard

Rush (ONLY IF PRE-APPROVED)

Fax: 631-589-8705

Due Date: 10/13/08

Email: kris@pwws.com

Time:

Other Project Specific Requirements/Comments/Detection Limits:

Date Rec'd in Lab:

10/16/08

Alpha Job #:

L0814755

Report Information Data Deliverables

FAX

EMAIL

ADEX

ADIT Deliverables

Same as Client Info

PO #:

ADEX

ADIT Deliverables

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Regulatory Requirements/Report Limits

State/Fed Program

MSTD Analytical Services (ASD)

Criteria

MCP PRESUMPTIVE CERTAINTY-CT REASONABLE CONFIDENCE PROTOCOL

Yes No Are MCP Analytical Methods Required?

Yes No Are CT RCP (Reasonable Confidence Protocols) Required?

ANALYSIS

SAMPLE HANDLING

Filtration

Done

Not Needed

Lab to do

Preservation

Lab to do

(Please specify below)

Sample Specific Comments

Sample Specific Comments

Sample Specific Comments

Sample Specific Comments

Sample Specific Comments

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Sample Specific Comments

IS YOUR PROJECT
MA MCP or CT RCP?

PLEASE ANSWER QUESTIONS ABOVE!

Relinquished By:

Container Type
Preservative

Date/Time

Received By:

Date/Time

Please print clearly, legibly, and completely. Samples not be logged in and start until any ambiguities resolved. All samples submitted are subject to Alpha's Payment Terms.

APPENDIX G

DATA VALIDATION REPORT



STONE ENVIRONMENTAL INC

DATA USABILITY SUMMARY REPORT (DUSR)

Site Name: 80-100 Banks Ave, Rockville Centre, NY

Performing Laboratory: Alpha Analytical Laboratories, Massachusetts

P.W. Grosser Project No. AVB0801

Project Manager Kris E. Almskog, Senior Project Manager

Stone Project Number: 082074-F, Phase II

Analyses/Methods: TCL VOA by Method 8260, TCL SVOCs by Method 8270, TAL Metals by Method 6010/7000, TCL Pesticides/PCBs by Methods 8081/8082, TPH-DRO by Method 8015

Data Validation Level Limited. Full on 5% or one sample from each SDG.

Prepared by: Kim Watson, Stone Environmental, Inc. Completed on: 12/12/08

Reviewed by: Lesley Allen, Stone Environmental, Inc. SDG Nos.: L0812845, L0812904, L0813196, L0813344, L0813447, L0813541, L0814755, and L0814991

Stone Environmental, Inc. (Stone) has performed a quality assurance (QA) evaluation on the data reports from Alpha Analytical Laboratories in Massachusetts. The samples were collected and analyzed for the parameters as listed on the chain of custody records provided in Attachment A. The DUSR was based on a review of each laboratory sample delivery group (SDG) case narrative and the full "Tier III" third-party data validation report, which are provided in Attachment B and Attachment C, respectively. Full data validation in accordance with Region II SOPs for validating organic and inorganic analyses was performed on 5% of the data or one to two samples from each SDG as outlined in the approved project plan for volatile and semivolatile organics, polychlorinated biphenyls (PCBs) as Aroclors, pesticides, TPH-DRO, and metals data in soil and water samples, and volatiles in air samples. The remaining data received a summary validation as outlined in this report. The laboratory met all commitments and the final data packages were received at P.W. Grosser by October 26, 2008 and received at Stone for evaluation on October 31, 2008 with amendments received on December 10 and 11, 2008. The laboratory reported the data under SDG Nos. L0812845, L0812904, L0813196, L0813344, L0813447, L0813541, L0814755, and L0814991. The DUSR data evaluation included a review of the following as based on the case narratives and the full data validation: data package completeness, holding times, initial and continuing calibrations, reporting Limits, laboratory and field blanks, laboratory control samples, field duplicates, sample result verification, and method-specific QC samples (e.g., GC/MS Tunes).

The data selected for full validation were qualified following the guidelines in EPA Region II's Standard Operating Procedures (SOPs) from the EPA Hazardous Waste Support Branch:

SOP#HW-24 "SOP for the Validation of Organic Data Acquired Using SW-846 Method 8260" (Rev2, Dec 1996), SOP#HW-22 "Validating Semivolatile Organic Compounds By Gas Chromatography/Mass Spectrometry SW-846 Method 8270D", SOP#HW-44 "Validating Pesticide Compounds Organochlorine Pesticides by Gas Chromatography SW-846 Method 8081B", SOP#HW-45 "Validating PCB Compounds PCBs By Gas Chromatography SW-846 8082A", SOP#HW-2 "Validation of Metals for the Contract Laboratory Program (CLP) based on SOW ILMO5.3" (SOP Revision 13), and SOP#HW-31 "Validation Air Samples Volatile Organic Analysis of Ambient Air In Canister By Method TO-15". In addition, the EPA's "National Functional Guidelines for Organic Data Review" (EPA 540/R-99/008, 10/99), EPA's "National Functional Guidelines for Inorganic Data Review" (EPA 540-R-04-004, October 2004) and professional judgment were considered during the data validation effort.

All laboratory deliverables were received in accordance with the work plan and general reporting requirements from the NYSDEC's Analytical Services Protocol (ASP) (2005). Any deviations from acceptable QC specifications are discussed in detail in each case narrative and laboratory qualifiers (as defined in the data deliverables) were added to the data, when appropriate, to indicate potential concerns with data usability, and these qualifiers were reported on the Form I's by the laboratory.

Due to the need for dilutions or reanalyses due to QC outliers, multiple data sets were provided for some of the samples. Therefore, in the case of dilution analyses, the result from the more concentrated analysis shall be replaced with the appropriate concentration from the dilution analysis; in the case of re-analyses, and as indicated in the case narrative that the outliers replicated, the original results will be considered for use with qualification as estimated (J/UJ).

Summary of Data Usability

Based on review of the results reported by the laboratory, the overall Quality Control data provided in the laboratory reports, and the case narratives, the data are representative of adequate method accuracy and precision with regard to project objectives. As noted in the full data validation report, some of the data points were qualified as estimated (J/UJ) due to laboratory accuracy and precision outliers or potential interferences. However, the completeness level attained for the analysis of the field samples was greater than 95%. For all data, the overall quality of the data is acceptable and all results as qualified are considered usable.

ATTACHMENT A

CHAIN OF CUSTODY RECORDS

**SDG Nos. L0812845, L0812904, L0813196, L0813344, L0813447,
L0813541, L0814755, and L0814991**

**Volatiles, Semivolatiles, Total Petroleum Hydrocarbons (TPH), Diesel Range
Organics (DRO), Pesticides/Polychlorinated biphenyls, and Metals in Water and Soil
Samples, and Volatiles in Air Samples**

ALPHA
ANALYTICAL

Client Information

NYSDEC ASPB Deliverables

| ALPHA Lab ID (Lab Use Only) | Sample ID | Collection | | Sample Matrix | Sampler's Initials |
|--------------------------------|-------------------------|------------|------|---------------|--------------------|
| | | Date | Time | | |
| 172845.1 | PWG-VP-Zc28-04 (16-20') | 8/26/88 | 1045 | L | JLL |
| 2 | (36-40') | | 1130 | | |
| 2 | (36-40') MS | | 1130 | | |
| 2 | (36-40') MS | | 1130 | | |
| 3 | (56-60') | | 1500 | | |
| 4 | (76-80') | | 1615 | | |
| 5 | (96-100') | 8/27/88 | 1120 | | |
| 6 | PWG-VP-Zc08-03 (16-20') | | 1320 | | |
| 7 | (36-40') | | 1350 | | MTB |
| 8 | (56-60') | | 1500 | | MOR |

IS YOUR PROJECT
MA MCP or CT RCP?

FORM NO. Q-01(1)
REV. TO 11-85

SAMPLE HANDLING

Filtration

☐ Done

☒ Not Needed

☐ Lab to do

Preservation

☐ Lab to do

(Please specify below)

| | Sample Specific Comments |
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| 99. | |
| 100. | |

Please print clearly, legibly and completely. Samples cannot be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.

| Relinquished By: | Date/Time | Received By: | Date/Time |
|------------------------------------|--------------|-----------------------------------|--------------|
| <i>[Signature]</i> Jennifer Lamy | 8/26/08 0805 | <i>[Signature]</i> Kirm [unclear] | 8/26/08 0805 |
| <i>[Signature]</i> Kevin [unclear] | 8/26/08 | <i>[Signature]</i> [unclear] | 8/26/08 1222 |
| <i>[Signature]</i> [unclear] | 8/26/08 1145 | <i>[Signature]</i> [unclear] | 8/26/08 1141 |

8/29/08 1710

CHAIN OF CUSTODY

PAGE 2 OF 2



Westborough, MA
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA
TEL: 508-822-9300
FAX: 508-822-3288

Client Information

Client: P.W. Grosser

Address: 630 Johnson Avenue, Suite 7

Bohemia, NY 11716

Phone: 631-589-6353

Fax: 631-589-8705

Email:

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Project Information

Project Name:

Project Location: 80-100 Bankshire, Rockville Centre
Project #: AVB0801

Project Manager: Kris Almskog

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ Rush (ONLY IF PRE-APPROVED)

9/8/08

Due Date: Time:

Date Rec'd in Lab:

8/29/08

Report Information

☐ FAX

☐ EMAIL

☐ Same as Client info

PO #:

☐ ADEx

☐ Add'l Deliverables

Regulatory Requirements/Report Limits

State/Fed Program

Criteria

NYSDDEC ASP Cat B Deliverables

MCP PRESUMPTIVE CERTAINTY-CT REASONABLE CONFIDENCE PROTOCOL

☐ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

ANALYSIS

SAMPLE HANDLING
Filtration
☐ Done
☒ Not Needed
☐ Lab to do
☐ Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)

12845-9 TB-01
10 FB-01
11 PWG-UP-2008-03(76-80)

Collection Date Time

8/21/08 1200
8/26/08 1030
8/27/08 1705

Sample Matrix

L
↓
↓

Sampler's Initials

RG
TM
MTB

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MA MCP or CT RCP?

FORM NO. 3-01 (1)
(REV. 30-JUN-07)

Container Type
Preservative

40ml
HCL

Relinquished By:

8/29/08 0805
8/29/08 1145

Date/Time

8/29/08 0805
8/29/08 1145

Received By:

8/29/08 0805
8/29/08 1145

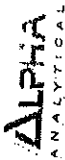
Date/Time

8/29/08 0805
8/29/08 1145

Please print clearly, legibly and completely. Samples must not be logged in and the turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.

CHAIN OF CUSTODY

PAGE 1 OF 2



Westborough, MA
Mansfield, MA
TEL: 508-898-6220 TEL: 508-822-9300
FAX: 508-898-9193 FAX: 508-822-3288

Client Information

Client: P.W. Grosser
Address: 630 Johnson Avenue, Suite 7
Bohemia, NY 11716
Phone: 631-589-6353
Fax: 631-589-8735

Project Name: 80-600 Banks Ave
Project #: AVO801
Project Manager: Kristi Almskog
ALPHA Quote #:

Turn-Around Time
☒ Standard ☐ Rush (ONLY IF PRE-APPROVED)
Due Date: 9/8/08 Time:

Other Project Specific Requirements/Comments/Detection Limits:

Date Rec'd in Lab: 8/29/08 ALPHA Job #: 10812964

Report Information Data Deliverables Billing Information
☐ FAX ☐ EMAIL ☐ Same as Client info PO #:
☐ ADEx ☐ Add'l Deliverables

Regulatory Requirements/Report Limits
State/Ref Program Criteria
MSR-PC-A3-BTA Protocol

MCP PRESUMPTIVE CERTAINTY-CT REASONABLE CONFIDENCE PROTOCOLS
☐ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

ANALYSIS

| Sample ID | Sample Matrix | Collection Date | Time | Sample's Initials | Sample Handling | Sample Specific Comments |
|--------------------------|---------------|-----------------|------|-------------------|---|--------------------------|
| TP-02 | L | 8/21/08 | 1200 | RG | Filtration <input type="checkbox"/> Done <input checked="" type="checkbox"/> Not Needed <input type="checkbox"/> Lab to do <input type="checkbox"/> Preservation <input type="checkbox"/> Lab to do <input type="checkbox"/> Please specify below | |
| PWG-VP-2008-03 (96-100') | L | 8/28/08 | 1020 | JLL | | |
| PWG-VP-2008-02 (16-20') | L | 8/28/08 | 1020 | | | |
| PWG-VP-2008-02 (36-40') | L | 8/28/08 | 1230 | | | |
| PWG-VP-2008-02 (56-60') | L | 8/28/08 | 1305 | | | |
| PWG-VP-2008-02 (76-80') | L | 8/28/08 | 1400 | | | |
| PWG-VP-2008-02 (96-100') | L | 8/28/08 | 1620 | | | |
| PWG-VP-2008-01 (16-20') | L | 8/29/08 | 0755 | | | |
| PWG-VP-2008-01 (36-40') | L | 8/29/08 | 0840 | | | |
| PWG-VP-2008-01 (56-60') | L | 8/29/08 | 0900 | | | |

TOTAL # BOTTLES

Sample Handling
Filtration
☐ Done
☒ Not Needed
☐ Lab to do
☐ Preservation
☐ Lab to do
☐ Please specify below

Sample Specific Comments

PLEASE ANSWER QUESTIONS ABOVE:

IS YOUR PROJECT
MA MCP or CT RCP?

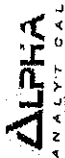
Relinquished By: [Signature]
Date/Time: 8/29/08 1225
Received By: [Signature]
Date/Time: 8/29/08 1330

Container Type: 40ml
Preservative: HCl

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.

CHAIN OF CUSTODY

PAGE 2 OF 2



Westborough, MA
TEL 508-898-9220
FAX 508-898-9193

Project Name:

Client Information

Client P.W. Grosser

Address: 630 Johnson Avenue, Suite 7

Bohemia, NY 11716

Phone: 631-589-5353

Fax: 631-589-8705

Email:

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Turn-Around Time

☒ Standard

☐ Rush (Only if Pre-Approved)

Due Date:

Time:

Project Information

Project Location: 80-100 Banks Ave. Katonah, NY

Project #: A100001

Project Manager: Kay Amberg

ALPHA Quote #:

Date Rec'd in Lab:

8/28/08

ALPHA Job #:

10812904

Report Information

Data Deliverables

☐ FAX

☐ EMAIL

☐ Add'l Deliverables

PO #:

Regulatory Requirements/Report Limits

State/Fed Program

NYSDDEC Aged Pesticides

Criteria

MCP PRESUMPTIVE CERTAINTY-CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

ANALYSIS

SAMPLE HANDLING

Filtration

☐ Done

☒ Not Needed

☐ Lab to do

Preservation

☐ Lab to do

(Please specify below)

ALPHA Lab ID (Lab Use Only)

Sample ID

Collection Date

Time

Sample Matrix

Sampler's Initials

2904, 11

PMG-WP-2004-01 (8-100)

8/28/08

1100

L

TC

12

PMG-WP-2004-01 (8-100)

8/28/08

1310

L

TC

PLEASE ANSWER QUESTIONS ABOVE

IS YOUR PROJECT
MA MCP or CT RCP?

FORM NO. 01-010
REV. 06-01-07

Container Type

Preservative

40 mL

HCl

Relinquished By

Date/Time

Received By

Date/Time

8/28/08 1330

8/28/08 1330

8/28/08 1330

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.

CHAIN OF CUSTODY

PAGE 1 OF 4



Westborough, MA
TEL: 508-898-9220
FAX: 508-898-9153

Mansfield, MA
TEL: 508-822-5300
FAX: 508-822-3288

Client Information

Client: P.W. Grosser

Address: 630 Johnson Avenue, Suite 7

Bohemia, NY 11716

Phone: 631-589-6353

Fax: 531-589-8705

Email:

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

ASP Cat. 3 Johnsonables

Turn-Around Time

☒ Standard ☐ Rush (ONLY IF PRE-APPROVED)

Due Date: 9/12 Time:

Project Information

Project Name: former Dabby Doug

Project Location: RUC

Project #: AUB0801

Project Manager: K. Hunsby

ALPHA Quote #:

Date Rec'd in Lab:

9/5

ALPHA Job #: 10813196

Report Information Data Deliverables

☐ FAX ☐ EMAIL ☒ Add'l Deliverables

PO #:

Regulatory Requirements/Report Limits

State/Fed Program

Criteria

MCP PRESUMPTIVE CERTAINTY-CT REASONABLE CONFIDENCE PROTOCOL

☐ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

ANALYSIS

| ANALYSIS | TCI VOCs | TCI SVOCs | PCB/PCBs | TAL Metals | SAMPLE HANDLING | Sample Specific Comments |
|----------|----------|-----------|----------|------------|---|--------------------------|
| | | | | | Filtration | |
| | | | | | <input type="checkbox"/> Done | |
| | | | | | <input type="checkbox"/> Not Needed | |
| | | | | | <input type="checkbox"/> Lab to do | |
| | | | | | <input type="checkbox"/> Preservation | |
| | | | | | <input type="checkbox"/> Lab to do | |
| | | | | | <input type="checkbox"/> (Please specify below) | |

| Sample ID | Collection Date | Time | Sample Matrix | Sampler's Initials |
|-----------|-----------------|------|---------------|--------------------|
| 196-1 | 9/3/08 | 0950 | S | TM |
| 2 | 9/3/08 | 1005 | W | TM |
| 3 | 9/3/08 | 1040 | S | TM |
| 4 | 9/3/08 | 1055 | W | TM |
| 5 | 9/3/08 | 1140 | S | TM |
| 6 | 9/3/08 | 1150 | W | TM |
| 7 | 9/3/08 | 1300 | W | TM |
| 8 | 9/3/08 | 1330 | S | TM |
| 9 | 9/3/08 | 1340 | W | TM |
| 10 | 9/3/08 | 1430 | S | TM |

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MA MCP or CT RCP?

FORM NC 01-010
(REV. 30-JUL-07)

Relinquished By:

Received By:

Date/Time

Date/Time

Please print clearly, legibly and completely. Samples must be logged in and returned to the lab within 14 days of receipt. All samples submitted are subject to Alpha's Payment Terms.

CHAIN OF CUSTODY

PAGE 2 OF 2



Westborough, MA
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA
TEL: 508-822-8300
FAX: 508-822-3288

Client Information

Client: P.W. Grosser

Address: 630 Johnson Avenue, Suite 7

Bohemia, NY 11716

Phone: 631-589-6353

Fax: 631-589-8705

Email:

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

ASR Cat. B Delivables

☐ Standard ☐ Rush (ONLY IF PRE-APPROVED)

Due Date: 9/12 Time:

Turn-Around Time

Project Information

Project Name:

former Darby Drug

Project Location:

RVC

Project #: AUB0801

Project Manager: K. Alushay

ALPHA Quote #:

Date Rec'd in Lab:

9/5

ALPHA Job #: L0813196

Report Information Data Deliverables

☐ FAX ☐ EMAIL

☒ ADEx ☒ Add'l Deliverables

☐ Same as Client info

PO #:

Regulatory Requirements/Report Limits

State/Fed Program

Criteria

MCP PRESUMPTIVE CERTAINTY-CT REASONABLE CONFIDENCE PROTOCOL

☐ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

ANALYSIS

| ANALYSIS | Criteria |
|------------|----------|
| 7CL VOCs | |
| 7CL SVOCs | |
| Post/PCB | |
| TAL Metals | |

SAMPLE HANDLING

- ☐ Done
- ☐ Not Needed
- ☐ Lab to do
- ☐ Preservation
- ☐ Lab to do
- ☐ Lab to do
- (Please specify below)

Sample Specific Comments

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MA MCP or CT RCP?

FORM NO 01-0111
(REV 05-01-07)

Relinquished By:

12/1/08
Don Brady

Date/Time

9-5-08 15:08
9/5/08 16:25
9/5/08 18:30

Date/Time

9/5/08 18:30
9/5/08 18:30

Date/Time

9/5/08 18:30
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Date/Time

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Date/Time

9/5/08 18:30
9/5/08 18:30

Please print clearly, legibly and completely. Samples must be logged in and returned to the lab within 14 days of collection. All samples submitted are subject to Alpha's Payment Terms.

CHAIN OF CUSTODY

PAGE 3 OF 3



Westborough, MA
TEL: 508-898-9220
FAX: 508-898-9193

Project Name: Foran Doherty

Client Information

Client P.W. Grosser

Address: 630 Johnson Avenue, Suite 7

Bohemia, NY 11716

Phone: 631-589-5353

Fax: 631-589-8705

Email:

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

App Cat. B Deliverables

Turn-Around Time

☒ Standard ☐ Rush (ONLY IF PRE-APPROVED)

Due Date: 9/14

Project Information

Project Location: RVC

Project #: AUB0801

Project Manager: K. Alushay

ALPHA Quote #:

Date Rec'd in Lab:

9/5

ALPHA Job #: 60813196

Report Information Data Deliverables

☒ FAX ☐ EMAIL ☐ Same as Client info

☒ ADEX ☐ Add'l Deliverables

Regulatory Requirements/Report Limits

State/Fed Program

Criteria

MCP PRESUMPTIVE CERTAINTY-CT REASONABLE CONFIDENCE PROTOCOL

☐ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☐ No Are CT RC² (Reasonable Confidence Protocols) Required?

ANALYSIS

| ANALYSIS | Yes | No | Are MCP Analytical Methods Required? | Yes | No | Are CT RC ² (Reasonable Confidence Protocols) Required? |
|------------|-------------------------------------|--------------------------|--------------------------------------|-------------------------------------|--------------------------|--|
| TCL VOCs | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| TCL SVOCs | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Post/PCBs | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| TAL Metals | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

SAMPLE HANDLING

- ☐ Filtration
- ☐ Done
- ☐ Not Needed
- ☐ Lab to db
- ☐ Preservation
- ☐ Lab to db
- ☐ Lab to db
- ☐ (Please specify below)

Sample Specific Comments

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MA MCP or CT RCP?

FORM NO 01-010
(REV. 30-JUL-07)

Container Type

Preservative

Relinquished By:

Date/Time

Received By:

Date/Time

Please print clearly, legibly and completely. Samples not be located in and turn-around time clock will in such until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.

CHAIN OF CUSTODY

DATE REC'D IN Lab: 9/1 ALPHA Job #: 10819196

Report Information Data Deliverables Billing Information
☐ FAX ☐ EMAIL ☐ Same as Client info PO #:
☒ ADEx ☒ Add'l Deliverables

Regulatory Requirements/Report Limits
 State/Fed Program Criteria

MCP PRESUMPTIVE CERTAINTY-CT REASONABLE CONFIDENCE PROTOCOL
☐ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

ANALYSIS

SAMPLE HANDLING
 Filtration
☐ Done
☐ Not Needed
☐ Lab to do
 Preservation
☐ Lab to do
 (Please specify below)

Sample Specific Comments

Turn-Around Time
☒ Standard ☐ RUSH (ONLY IF PRE-APPROVED)
 Date: 9/12 Time:

Other Project Specific Requirements/Comments/Detection Limits:

ASR Cat. B Deliverables

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
 MA MCP or CT RCP?

Relinquished By: *Don Thacke* Date/Time: 9/5/08 12:30
 Received By: *Don Thacke* Date/Time: 9/5/08 12:30

Container Type: Preservative

DATE REC'D IN Lab: 9/1 ALPHA Job #: 10819196

Report Information Data Deliverables Billing Information
☐ FAX ☐ EMAIL ☐ Same as Client info PO #:
☒ ADEx ☒ Add'l Deliverables

Regulatory Requirements/Report Limits
 State/Fed Program Criteria

MCP PRESUMPTIVE CERTAINTY-CT REASONABLE CONFIDENCE PROTOCOL
☐ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

ANALYSIS

SAMPLE HANDLING
 Filtration
☐ Done
☐ Not Needed
☐ Lab to do
 Preservation
☐ Lab to do
 (Please specify below)

Sample Specific Comments

Turn-Around Time
☒ Standard ☐ RUSH (ONLY IF PRE-APPROVED)
 Date: 9/12 Time:

Other Project Specific Requirements/Comments/Detection Limits:

ASR Cat. B Deliverables

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
 MA MCP or CT RCP?

Relinquished By: *Don Thacke* Date/Time: 9/5/08 12:30
 Received By: *Don Thacke* Date/Time: 9/5/08 12:30

Container Type: Preservative

DATE REC'D IN Lab: 9/1 ALPHA Job #: 10819196

Report Information Data Deliverables Billing Information
☐ FAX ☐ EMAIL ☐ Same as Client info PO #:
☒ ADEx ☒ Add'l Deliverables



Westborough, MA Mansfield, MA
 TEL: 508-898-9220 TEL: 508-822-8300
 FAX: 508-898-9193 FAX: 508-822-3288

Client Information

Client: P.W. Grosser

Address: 630 Johnson Avenue, Suite 7

Bohemia, NY 11716

Phone: 631-589-6353

Fax: 631-589-8705

Email:

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

ASR Cat. B Deliverables

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
 MA MCP or CT RCP?

Relinquished By:

Don Thacke

Don Thacke

Date/Time

9/5/08 12:30

Date/Time

9/5/08 12:30

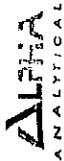
Container Type

Preservative

Please print clearly, legibly and completely. Samples not be logged in and turn-around time clock will start until any ambiguities resolved. All samples submitted are subject to Alpha's Payment Terms.

CHAIN OF CUSTODY

PAGE 2 OF 4



Westborough, MA
TEL 508-898-9220
FAX 508-898-9193

Mansfield, MA
TEL 508-822-9300
FAX 508-822-3288

Client Information

Client: P.W. Gosser

Address: 630 Johnson Avenue, Suite 7

Bohemia, NY 11716

Phone: 631-569-6353

Fax: 631-589-4705

Email:

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Project Information

Project Name: Arden Bay

Project Location: 80 Bay Ave. Rockville Centre

Project #: AW00001

Project Manager: Kris Almskog

ALPHA Quote #:

Turn-Around Time

☒ Standard

☐ Rush (ONLY IF PRE-APPROVED)

9/16

Due Date: Time:

ALPHA Job #: 60813344

Date Rec'd in Lab: 9/9

Report Information

☐ FAX ☐ EMAIL ☒ Same as Client info

☐ ADEx ☐ Add'l Deliverables

Regulatory Requirements/Report Limits

State/Fed Program: MSDEC Analytical Services (ASAP)

MCP PRESUMPTIVE CERTAINTY-CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes ☐ No ☐ No ☐ No

Are MCP Analytical Methods Required?

Are CT RCF (Reasonable Confidence Protocols) Required?

ANALYSIS

860 TOL

52708 TOL

TRH 8/15

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PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MA MCP or CT RCP?

FORM 01-0111
REV 30-JUL-07

Relinquished By: [Signature] Date/Time: 9/16/08 11:00

Received By: [Signature] Date/Time: 9/16/08 11:00

Container Type: Preservative

Container ID: 402

Container Volume: 802

Container Weight: 802

Container Date: 9/16/08

Container Time: 17:50

Container Location: 9/19/08

Container Status: 9/19/08

Container Comments: 9/19/08

Container Signature: 9/19/08

Container Date: 9/19/08

Container Time: 17:50

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.

05/06/2018

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CHAIN OF CUSTODY

PAGE 4 OF 4

PHIA

PO, MA
988-9220
988-9183
TEL 508-822-3300
FAX 508-822-3288

Information

Project Name: Avon Bay

Project Location: 8 Banks Ave. Bakers Co. MA

Project # AVB0801

Project Manager: Kris Alonzo

ALPHA Quote #: _____

Turn-Around Time _____

Standard ☒ RUSH (only confirmed if pre-approved)
Date Due: 9/16 Time: _____

* samples have been previously analyzed by Alpha

Project Specific Requirements/Comments/Detection Limits:

Data Rec'd In Lab: 9/9 ALPHA Job #: L08/3944

Report Information - Data Deliverables

☐ FAX ☐ EMAIL ☒ Same as Client info ☐ PO #:

Regulatory Requirements/Report Limits

State/Fed Program _____ Criteria _____

MADE Analytical Services Contract (ASP)

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO-

☐ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

| SAMPLE HANDLING | |
|---------------------------------------|-------|
| Filtration | _____ |
| <input type="checkbox"/> Done | _____ |
| <input type="checkbox"/> Not needed | _____ |
| <input type="checkbox"/> Lab to do | _____ |
| <input type="checkbox"/> Preservation | _____ |
| <input type="checkbox"/> Lab to do | _____ |
| (Please specify below) | |
| Sample Specific Comments | |

| Lab ID (see Only) | Sample ID | Collection Date | Time | Sample Matrix | Sampler's Initials |
|-------------------|-----------|-----------------|------|---------------|--------------------|
|-------------------|-----------|-----------------|------|---------------|--------------------|

29: PL6-DL-20-25 (15.75-6.25') 9/8/08 1605 S JLL

30: PL6-DL-20-26 (4.25-4.75') 9/8/08 1615 d JLL

SE ANSWER QUESTIONS ABOVE!

OUR PROJECT

MCP or CT RCP?

2-01 Rev. 14-OCT-07

| Container Type | Date/Time | Relinquished By: | Received By: | Date/Time |
|----------------|-------------|--------------------|--------------------|-----------|
| Preservative | 9/9/08 1110 | <u>[Signature]</u> | <u>[Signature]</u> | 9/9/08 |

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

| CHAIN OF CUSTODY | | PAGE OF | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--------------------------|---|------|--------------------------------|--------------------|-----------------|--------------|---------------|--------------------|----------------|--------------|-----------|--------------|-----------|-------|----------|---------|------|---|-----|--|--|--|--|--|---|--------------------------|---------|------|---|-----|--|--|--|--|--|---|-------------------------|--|------|--|--|--|--|--|--|--|---|-------------------------|--|------|--|--|--|--|--|--|--|---|------------------------|--|------|--|--|--|--|--|--|--|---|-----------------------|--|------|--|--|--|--|--|--|--|---|-----------------------|--|------|--|--|--|--|--|--|--|---|------------------------|--|------|--|--|--|--|--|--|--|---|-------------------------|--|------|--|--|--|--|--|--|--|----|-------------------------|--|------|--|--|--|--|--|--|--|
| Project Information | | Billing Information | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Name: <u>Avalon Bay</u> Project Location: <u>30 Borth Ave, Rockville C. Md.</u> Project #: <u>AB0001</u> Project Manager: <u>Kris Albers</u> ALPHA Quote #: <u> </u> Turn-Around Time <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (ONLY IF PRE-APPROVED) | | Date Recd in Lab: <u>9/11/08</u> ALPHA Job #: <u>LDX1347</u> <input type="checkbox"/> FAX <input type="checkbox"/> EMAIL <input checked="" type="checkbox"/> Same as Client info PO #: <u> </u> <input type="checkbox"/> ADEX <input type="checkbox"/> Add'l Deliverables | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Client Information | | Regulatory Requirements/Report Limits | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Westborough, MA Mansfield, MA TEL 508-898-9220 TEL 508-822-6300 FAX 508-898-9193 FAX 508-822-3288 | | State/Fed Program: <u>MA DEP Ambient Surface Water (AP)</u> Criteria: <u> </u> MCP PRESUMPTIVE CERTAINITY-CT REASONABLE CONFIDENCE PROTOCOLS <input type="checkbox"/> Yes <input type="checkbox"/> No Are MCP Analytical Methods Required? <input type="checkbox"/> Yes <input type="checkbox"/> No Are CT RCP (Reasonable Confidence Protocols) Required? | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Client: P.W. Grosser Address: 630 Johnson Avenue, Suite 7 Bohemia, NY 11713 Phone: 631-589-6353 Fax: 631-589-8705 Email: <u> </u> <input type="checkbox"/> These samples have been previously analyzed by Alpha Due Date: <u>9/18/08</u> Time: <u> </u> Other Project Specific Requirements/Comments/Detection Limits: <u> </u> | | ANALYSIS <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>ALPHA Lab ID (Lab Use Only)</th> <th>Sample ID</th> <th>Collection Date</th> <th>Time</th> <th>Sample Matrix</th> <th>Sampler's Initials</th> <th>Container Type</th> <th>Preservative</th> <th>Date/Time</th> <th>Received By:</th> <th>Date/Time</th> </tr> </thead> <tbody> <tr> <td>12447</td> <td>7B091008</td> <td>9/10/08</td> <td>0815</td> <td>L</td> <td>JLC</td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td>2</td> <td>PW6-DU-ZW-27 (12.5'-13')</td> <td>9/10/08</td> <td>0815</td> <td>S</td> <td>JLC</td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td>3</td> <td>PW6-DU-ZW-28 (12-12.5')</td> <td> </td> <td>0830</td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td>4</td> <td>PW6-DU-ZW-29 (10-10.5')</td> <td> </td> <td>0915</td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td>5</td> <td>PW6-DU-ZW-30 (8.5'-9')</td> <td> </td> <td>0930</td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td>6</td> <td>PW6-DU-ZW-31 (8-8.5')</td> <td> </td> <td>0945</td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td>7</td> <td>PW6-DU-ZW-33 (7-7.5')</td> <td> </td> <td>1000</td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td>8</td> <td>PW6-DU-ZW-34 (5.5'-6')</td> <td> </td> <td>1015</td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td>9</td> <td>PW6-DU-ZW-37 (11-11.5')</td> <td> </td> <td>1030</td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td>10</td> <td>PW6-DU-ZW-101 (5.5'-6')</td> <td> </td> <td>1030</td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> | | ALPHA Lab ID (Lab Use Only) | Sample ID | Collection Date | Time | Sample Matrix | Sampler's Initials | Container Type | Preservative | Date/Time | Received By: | Date/Time | 12447 | 7B091008 | 9/10/08 | 0815 | L | JLC | | | | | | 2 | PW6-DU-ZW-27 (12.5'-13') | 9/10/08 | 0815 | S | JLC | | | | | | 3 | PW6-DU-ZW-28 (12-12.5') | | 0830 | | | | | | | | 4 | PW6-DU-ZW-29 (10-10.5') | | 0915 | | | | | | | | 5 | PW6-DU-ZW-30 (8.5'-9') | | 0930 | | | | | | | | 6 | PW6-DU-ZW-31 (8-8.5') | | 0945 | | | | | | | | 7 | PW6-DU-ZW-33 (7-7.5') | | 1000 | | | | | | | | 8 | PW6-DU-ZW-34 (5.5'-6') | | 1015 | | | | | | | | 9 | PW6-DU-ZW-37 (11-11.5') | | 1030 | | | | | | | | 10 | PW6-DU-ZW-101 (5.5'-6') | | 1030 | | | | | | | |
| ALPHA Lab ID (Lab Use Only) | Sample ID | Collection Date | Time | Sample Matrix | Sampler's Initials | Container Type | Preservative | Date/Time | Received By: | Date/Time | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12447 | 7B091008 | 9/10/08 | 0815 | L | JLC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | PW6-DU-ZW-27 (12.5'-13') | 9/10/08 | 0815 | S | JLC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | PW6-DU-ZW-28 (12-12.5') | | 0830 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | PW6-DU-ZW-29 (10-10.5') | | 0915 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | PW6-DU-ZW-30 (8.5'-9') | | 0930 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | PW6-DU-ZW-31 (8-8.5') | | 0945 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | PW6-DU-ZW-33 (7-7.5') | | 1000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | PW6-DU-ZW-34 (5.5'-6') | | 1015 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | PW6-DU-ZW-37 (11-11.5') | | 1030 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | PW6-DU-ZW-101 (5.5'-6') | | 1030 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. | | TOTAL # BOTTLES: <u>2</u> SAMPLE HANDLING: Filtration <input type="checkbox"/> Done <input type="checkbox"/> Not Needed <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please specify below) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| CHAIN OF CUSTODY | | | | PAGE OF | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-----|---|-----|---|-----------|-----|------|-----|------|-----------|-----|------|-----|------|----|---|---|---|---|---|---|---|---|---|----|---|---|---|---|---|---|---|---|---|----|---|---|---|---|---|---|---|---|---|----|---|---|---|---|---|---|---|---|---|----|---|---|---|---|---|---|---|---|---|
| ALPHA ANALYTICAL Westborough, MA Mansfield, MA TEL 508-898-9220 TEL 508-822-8300 FAX 508-898-9193 FAX 508-822-3288 | | Date Rec'd in Lab: <u>9/11/08</u> ALPHA Job #: <u>L081347</u> | | Report Information Data Deliverables Billing Information <input type="checkbox"/> FAX <input type="checkbox"/> EMAIL <input checked="" type="checkbox"/> Same as Client Info PO #: <input type="checkbox"/> ADEX <input type="checkbox"/> Add'l Deliverables | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Client Information Client: P.W. Grosser Address: 630 Johnson Avenue, Suite 7 Bohemia, NY 11716 Phone: 631-589-5353 Fax: 631-589-8765 Email: | | Regulatory Requirements/Report Limits State/Fed Program: <u>MSDC Analytical Services Federal (ASD)</u> MCP PRESUMPTIVE CERTAINTY-CT REASONABLE CONFIDENCE PROTOCOLS <input type="checkbox"/> Yes <input type="checkbox"/> No Are MCP Analytical Methods Required? <input type="checkbox"/> Yes <input type="checkbox"/> No Are CT RCP (Reasonable Confidence Protocols) Required? | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Information Project Name: <u>Arden Burg</u> Project Location: <u>81 Banks Ave. Baitentille Lake, MA</u> Project #: <u>A18991</u> Project Manager: <u>Kris Alonzo</u> ALPHA Quote #: | | ANALYSIS <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>ANALYSIS</th> <th>TPH</th> <th>SWIS</th> <th>TAL</th> <th>Meth</th> <th>6010/7000</th> <th>TCL</th> <th>8260</th> <th>TCL</th> <th>8260</th> </tr> </thead> <tbody> <tr> <td>11</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>17</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>13</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>14</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>15</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table> | | | ANALYSIS | TPH | SWIS | TAL | Meth | 6010/7000 | TCL | 8260 | TCL | 8260 | 11 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 17 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 13 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 14 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 15 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| ANALYSIS | TPH | SWIS | TAL | Meth | 6010/7000 | TCL | 8260 | TCL | 8260 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Turn-Around Time <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (ONLY IF PRE-APPROVED) Due Date: <u>9/16/08</u> Time: | | PLEASE ANSWER QUESTIONS ABOVE! IS YOUR PROJECT MA MCP or CT RCP? YES NO () () () () () () | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Other Project Specific Requirements/Comments/Detection Limits: | | RECEIVED Requisitioned By: <u>[Signature]</u> Date/Time: <u>9/10/08 14:00</u> Received By: <u>[Signature]</u> Date/Time: <u>9/11/08 11:30</u> Container Type: <u>4oz</u> Preservative: <u>None</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SAMPLE HANDLING Filtration: <input type="checkbox"/> Done <input type="checkbox"/> Not Needed Lab to do: <input type="checkbox"/> Lab to do <input type="checkbox"/> Lab to do Preservation: <input type="checkbox"/> Lab to do <input type="checkbox"/> Lab to do (Please specify below) | | Sample Specific Comments: <u>Hold Sample</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.

AIR ANALYSIS

PAGE 1 OF 2

ALPHA Job #: 10813541

CHAIN OF CUSTODY

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: PUGL

Address: 630 Johnson Ave, Ste 7

Behan, NY 11716

Phone: 631 589 6353

Fax: 631 589 8705

Email: thomas.m.pugliese.com

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments:

Vacuum gauge on regulator 0021 (56-01) was loose. Please test regulator to determine whether it is leaking. If so, do not analyze sample.

Project Information

Project Name: Travis Doby Dux

Project Location: Radiologic Centre

Project #: AUB0801

Project Manager: K. Aluskos

ALPHA Quote #:

Turn-Around Time

☒ Standard 10 DAYS

☐ RUSH (only confirmed if pre-approved)

Date Due:

Time:

Report Information - Data Deliverables

☐ FAX

☒ INDEX

Criteria Checker:

(Default based on Regulatory Criteria Indicated)

Other Formats:

☐ EMAIL (standard pdf report)

☒ Additional Deliverables:

ASP Cat B Deliverables

Report to: (if different than Project Manager)

Billing Information

☐ Same as Client info

PO #:

Regulatory Requirements/Report Limits

State/Fed Program Criteria

ANALYSIS

| ALPHA Lab ID (Lab Use Only) | Sample ID | Date | Start Time | End Time | Initial Vacuum | Final Vacuum | Sample Matrix* | Sampler's Initials | Can Size | ID Can | ID - Flow Controller | TO-14A by TO-15 | TO-15 SIM | APH | FIXED GASES | TO-13A | TO-4 / TO-10 | Sample Comments (i.e. PID) |
|--------------------------------|-----------------|---------|------------|----------|----------------|--------------|----------------|--------------------|----------|--------|----------------------|-----------------|-----------|-----|-------------|--------|--------------|----------------------------|
| 1 | PUGL-SG-2008-01 | 9-10-08 | 11:16 | 13:10 | -30 | -10 | SV | TM | 2.7 | 452 | 0821 | X | | | | | | |
| 2 | PUGL-SG-2008-02 | 9-10-08 | 11:35 | 13:30 | -30 | -5 | SV | TM | 2.7 | 490 | 0100 | X | | | | | | |
| 3 | PUGL-SG-2008-03 | 9-10-08 | 11:44 | 13:34 | -29 | -5 | SV | TM | 2.7 | 484 | 0906 | X | | | | | | |
| 4 | PUGL-SG-2008-04 | 9-10-08 | 10:29 | 12:29 | -30 | -6 | SV | TM | 2.7 | 401 | 0322 | X | | | | | | |
| 5 | PUGL-SG-2008-05 | 9-10-08 | 10:34 | 12:34 | -28 | -5 | SV | TM | 2.7 | 534 | 0324 | X | | | | | | |
| 6 | PUGL-SG-2008-06 | 9-10-08 | 10:40 | 12:34 | -30 | -6 | SV | TM | 2.7 | 447 | 0414 | X | | | | | | |
| 7 | PUGL-SG-2008-07 | 9-10-08 | 10:44 | 12:40 | -30 | -8 | SV | TM | 2.7 | 324 | 0299 | X | | | | | | |
| 8 | PUGL-SG-2008-08 | 9-10-08 | 10:47 | 12:42 | -30 | -10 | SV | TM | 2.7 | 409 | 0094 | X | | | | | | |
| 9 | PUGL-SG-2008-09 | 9-10-08 | 11:00 | 12:53 | -30 | -5 | SV | TM | 2.7 | 475 | 0333 | X | | | | | | |
| 10 | PUGL-SG-2008-10 | 9-10-08 | 10:55 | 12:44 | -30 | -6 | SV | TM | 2.7 | 376 | 0347 | X | | | | | | |

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Date/Time

Received By:

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time submitted are subject to Alpha's Terms and Conditions. See reverse side.

[illegible]

CHAIN OF CUSTODY

PAGE 1 OF 2



Westborough, MA
TEL: 508-858-9220
FAX: 508-858-9193

Project Name:
AVB 0801

Client Information

Client: P.W. Grosser

Address: 630 Johnson Avenue, Suite 7

Bohemia, NY 11716

Phone: 631-589-6353

Fax: 631-589-8705

Email: krisa@pwgrosser.com

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Due Date: 10/17/08 Time:

☒ Standard ☐ RUSH (ONLY IF PRE-APPROVED)

Turn-Around Time

Project Information

Project Location: 20-190 Banks Ave. Bath, ME 04501

Project # AVB0801

Project Manager: Kris Almstrong

ALPHA Quote #:

Report Information Data Deliverables

☐ FAX ☐ EMAIL ☐ Same as Client info ☐ PO #

☐ ADEX ☐ Add'l Deliverables

Regulatory Requirements/Report Limits

State/Fed Program: **MSDEC Analytical Services, Inc. (ASIP)**

Criteria:

MCP PRESUMPTIVE CERTAINTY-CT REASONABLE CONFIDENCE PROTOCOL

☐ Yes ☐ No ☐ No ☐ No ☐ No ☐ No

Are MCP Analytical Methods Required? Are CT RCP (Reasonable Confidence Protocols) Required?

ANALYSIS

Sample ID

Collection Date

Time

Sample Matrix

Sampler's Initials

Container Type

Preservative

Relinquished By:

Date/Time

Received By:

Date/Time

Signature

Signature

Signature

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SAMPLE HANDLING

Filtration

☐ Done

☐ Not Needed

☐ Lab to do

☐ Preservation

☐ Lab to do

(Please specify below)

Sample Specific Comments

Please print clearly, legibly and completely. Samples must not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.

IS YOUR PROJECT
MA MCP or CT RCP?

FORM NO. 31-0101
REV. 03-01-07

CHAIN OF CUSTODY

PAGE 2 OF 3



Westborough, MA
TEL 508-898-9220
FAX 508-898-9193

Mansfield, MA
TEL 508-822-9300
FAX 508-822-3288

Client Information

Client: P.W. Grosser

Address: 630 Johnson Avenue, Suite 7

Bohemia, NY 11716

Phone: 631-589-6353

Fax 631-589-8705

Email: *Kris@p.w.grosser.com*

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Turn-Around Time

☒ Standard ☐ Rush (ONLY IF PRE-APPROVED)

Due Date: 10/13/08 Time:

Project Information

Project Name:

AVB0801

Project Location: *80-100 E. Ave. Federal Center*

Project #: *AVB0801*

Project Manager: *Kris Alonzi*

ALPHA Quote #:

Date Rec'd in Lab:

10/16/08

ALPHA Job #:

LO814753

Report Information Data Deliverables

☐ FAX ☐ EMAIL ☐ Same as Client info

☐ ADEx ☐ Add'l Deliverables

Billing Information

PO #:

Regulatory Requirements/Report Limits

State/Fed Program

Criteria

MSPDC Analytical Services Protocol (ASP)

MCP PRESUMPTIVE CERTAINCY-CT REASONABLE CONFIDENCE PROTOCOL

☐ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

ANALYSIS

SAMPLE HANDLING
Filtration
☐ Done
☐ Not Needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)

Sample ID

Collection Date

Time

Sample Matrix

Sampler's Initials

Container Type

Preservative

Relinquished By:

Date/Time

Received By:

Date/Time

Signature

Signature

Signature

Signature

Signature

Signature

Signature

Signature

Signature

Signature

Signature

Signature

PLEASE ANSWER QUESTIONS ABOVE!

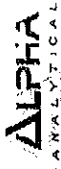
IS YOUR PROJECT
MA MCP or CT RCP?

FORM NO. 0-010
REV. 05/01/07

Please print clearly, legibly and completely. Samples not be logged in and turnaround time clock will start until any antiquities are received. All samples submitted are subject to Alpha's Payment Terms.

CHAIN OF CUSTODY

PAGE 1 OF 1



Westborough, MA
TEL: 508-898-9220
FAX: 508-898-9193

Project Name:
A-10-11 By

Client Information

Client: P.W. Grosser

Address: 630 Johnson Avenue, Suite 7

Bohemia, NY 11716

Phone: 631-589-6353

Fax: 631-589-8765

Email: *Krista.p@alpha-analytical.com*

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Turn-Around Time

☒ Standard ☐ Rush (ONLY IF PRE-APPROVED)

Due Date: *10/16/08* Time:

Project Information

Project Location: *80-100 Rock Ave, Rockville Centre, NY*

Project #: *11/1001*

Project Manager: *Kai Alonizy*

Alpha Quote #:

Date Rec'd in Lab:

10/9/08

ALPHA Job #: *20814991*

Report Information

☐ FAX ☐ EMAIL ☐ Same as Client Info

☐ ADEx ☐ Add'l Deliverables

Regulatory Requirements/Report Limits

State/Fed Program *MSDE Analytical Services Federal (ASFP)*

Criteria

MCP PRESUMPTIVE CERTAINTY-CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

ANALYSIS

SAMPLE HANDLING
Filtration
☐ Done
☐ Not Needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

TCL VOC 820
TCL SVOC 8270
TAL Metals 6010/7020
Pesticide/RB 8011/1082

| ALPHA Lab ID (Lab Use Only) | Sample ID | Collection Date | Time | Sample Matrix | Sampler's Initials |
|--------------------------------|-----------|--------------------|------|------------------|-----------------------|
|--------------------------------|-----------|--------------------|------|------------------|-----------------------|

| | | | | | |
|---------|------------|----------|------|---|-----|
| 19991-1 | TB00708-01 | 10/17/08 | 0945 | L | JLL |
| 2 | SW-01 | ↓ | 1510 | | |
| 3 | SW-02 | 10/18/08 | 1305 | | |
| 4 | SW-03 | ↓ | 1410 | | |
| 5 | DIFFN-04 | ↓ | 1245 | | |

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MA MCP or CT RCP?

FORM NO. 0-0110
(REV. 3/01/05)

| Relinquished By: | Date/Time | Received By: | Date/Time |
|------------------|-----------|--------------|-----------|
|------------------|-----------|--------------|-----------|

| | | | |
|---------------------|----------------|-----------------------|----------------|
| <i>Paul Dillman</i> | 10/18/08 12:05 | <i>Karen Hargrett</i> | 10/18/08 12:25 |
| <i>Paul Dillman</i> | 10/18/08 13:20 | <i>Paul Dillman</i> | 10/18/08 13:20 |
| <i>Paul Dillman</i> | 10/18/08 14:00 | <i>Paul Dillman</i> | 10/18/08 14:00 |

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any analytes are received. All samples submitted are subject to Alpha's Payment Terms.

ATTACHMENT B

CASE NARRATIVES

**SDG Nos. L0812845, L0812904, L0813196, L0813344, L0813447,
L0813541, L0814755, and L0814991**

**Volatiles, Semivolatiles, Total Petroleum Hydrocarbons (TPH), Diesel Range Organics (DRO), Pesticides/Polychlorinated biphenyls, and Metals in Water and Soil Samples, and
Volatiles in Air Samples**



SDG NARRATIVE

L0812845

Volatile Organics

L0812845-08 required re-analysis on a 4x dilution in order to quantitate the sample within the calibration range. The result is reported as a "greater than" value for the compound that exceeded the calibration on the initial analysis. The re-analysis was performed only for the compound which exceeded the calibration range.

L0812845-08, -11: The concentrations of Isopropylbenzene should be considered estimated because the %D for this analyte was outside method acceptance criteria in the associated CCAL (34%).

Instrument Information:

Volatile Organics: Elaine

Instrument: Agilent 5973 MSD

Trap: Supelco K Trap (VOACARB 3000)

Concentrator: Teledyne Velocity

Autosampler: Teledyne Solatek

Purge time: 11 min

Column Type: Restek RTX-502.2

Column Length: 40 Meters

df: 1.00 um

ID: 0.18 mm

Desorb: 2 min

Note: Sample calculations to final concentration for each specific fraction are located in each fraction section of the data package.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this Sample Data Package and in the electronic data deliverables has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Lisa S. Westerlind

Reporting Manager / Technical Representative

9/10/05
Date



SDG NARRATIVE
L0812904

Sample Receipt

Headspace was noted in both of the sample containers submitted for Volatile Organics for samples "PWG-VP-2008-03 (96-100)", "PWG-VP-2008-02 (56-60)", "PWG-VP-2008-02 (96-100)", and "PWG-VP-2008-01 (96-100)"; and in one of the sample containers for samples "PWG-VP-2008-01 (36-40)" and "PWG-VP-2008-01 (76-80)". The analysis was performed at the client's request.

Volatile Organics

The following samples have elevated detection limits due to the dilutions required by the elevated concentrations of target compounds in the samples:

L0812904-03: 5x

L0812904-04: 100x

L0812904-05: 2.5x

L0812904-06, -07, -12: 2x

L0812904-05 and -07 required re-analysis on 10x dilutions in order to quantitate the samples within the calibration range. The result is reported as a "greater than" value for the compound that exceeded the calibration on the initial analysis. The re-analysis was performed only for the compound which exceeded the calibration range.

Instrument Information:

Volatile Organics: Elaine

Instrument: Agilent 5973 MSD

Trap: Supelco K Trap (VOACARB 3000)

Concentrator: Teledyne Velocity

Autosampler: Teledyne Solatek

Purge time: 11 min

Column Type: Restek RTX-502.2

Column Length: 40 Meters

df: 1.00 um

ID: 0.18 mm

Desorb: 2 min

Note: Sample calculations to final concentration for each specific fraction are located in each fraction section of the data package.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this Sample Data Package and in the electronic data deliverables has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Lisa S. Westerlind

Reporting Manager / Technical Representative

9/10/05
Date



SDG NARRATIVE

L0813196

Sample Receipt

A sample identified as "FB 090408 (SOIL)" was received but not listed on the Chain of Custody. At the client's request, this sample was analyzed for TCL VOCs.

Volatile Organics

L0813196-26 has elevated detection limits due to the 20x dilution required by the elevated concentrations of target compounds in the sample.

L0813196-28 has elevated detection limits due to the 2x dilution required by the elevated concentrations of target compounds in the sample.

L0813196-29 required re-analysis on a 10x dilution in order to quantitate the sample within the calibration range. The result is reported as a "greater than" value for the compound that exceeded the calibration on the initial analysis. The re-analysis was performed only for the compound which exceeded the calibration range.

The surrogate recovery for L0813196-33 is above the acceptance criteria for 4-Bromofluorobenzene (140%). Since the sample was non-detect for all target analytes, re-analysis is not required.

The surrogate recovery for L0813196-35 is above the acceptance criteria for 1,2-Dichloroethane-d4 (134%) and 4-Bromofluorobenzene (139%). Since the sample was non-detect for all target analytes, re-analysis is not required.

Metals

The WG335841-3 Laboratory Duplicate RPD for Mercury (117%) associated with L0813196-21 is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogenous nature of the sample utilized for the laboratory duplicate.

The WG335482-2 MS recoveries for Antimony (50%), Calcium (166%), Chromium (74%), Lead (69%), Magnesium (64%), Manganese (133%), and Zinc (62%) associated with L0813196-21 are outside the acceptance criteria. Post digestion spikes were performed with acceptable recoveries of 100% for Antimony, 96% for Calcium, 91% for Chromium, 102% for Lead, 88% for Magnesium, 88% for Manganese, and 88% for Zinc.

The MS recoveries for Aluminum (0%) and Iron (0%) are invalid because the sample concentration is greater than four times the spike amount added.

The WG335841-4 MS recovery for Mercury (6%) associated with L0813196-21 is below the acceptance criteria. A post digestion spike was performed with an acceptable recovery of 98%.

Pesticides

The WG335356-3 LCS/LCSD RPDs associated with L0813196-05, -20, -21, -27, and -30 are above the acceptance criteria for Delta-BHC (37%), Lindane (32%), Alpha-BHC (34%), Beta-BHC (31%), Heptachlor (34%), Aldrin (35%), Heptachlor epoxide (35%), Endrin (39%), Endrin ketone (36%), Dieldrin (38%), 4,4'-DDE (37%), 4,4'-DDD (40%), 4,4'-DDT (40%), Endosulfan I (37%), Endosulfan II (39%), Endosulfan sulfate (41%), Methoxychlor (41%), and trans-Chlordane (34%); however, the individual LCS/LCSD recoveries are within method limits. The results of the associated samples are reported.

Instrument Information:

Volatile Organics: Elaine

Instrument: Agilent 5973 MSD
Trap: Supelco K Trap (VOACARB 3000)
Concentrator: Teledyne Velocity
Autosampler: Teledyne Solatek
Purge time: 11 min

Column Type: Restek RTX-502.2
Column Length: 40 Meters
df: 1.00 μ m
ID: 0.18 mm
Desorb: 2 min

Volatile Organics: Curly

Instrument: Agilent 5972 MSD
Trap: Supelco K Trap (VOACARB 3000)
Concentrator: Tekmar 3000
Autosampler: Archon
Purge time: 11 min

Column Type: Restek RTX-502.2
Column Length: 40 Meters
df: 1.00 μ m
ID: 0.18 mm
Desorb: 2 min

Semivolatile Organics (Acid/Base/Neutral Extractables): Buffy & Juliet

Instrument: Agilent 5973N MSD
Column Type: Restek RXI-5SILMS
Column Length: 30 Meters

Injection volume: 1 μ l
df: 0.25 μ m
ID: 0.25 mm

Polynuclear Aromatic Hydrocarbons by 8270 SIM: Mindy

Instrument: Agilent 5973 MSD
Column Type: Restek RTX-5MS
Column Length: 30 Meters

Injection volume: 1 μ l
df: 0.25 μ m
ID: 0.25 mm

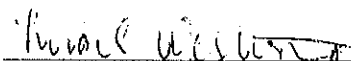
Pesticides/PCBs:

Instrument: Agilent 6890 w/Dual Micro ECDs
Column Type: Restek RTX-CL (primary)
Column: Restek RTX-CLPPesticide II (confirmation)
Column Length: 30 Meters
ID: 0.32 mm

Injection Volume: 1 μ l
df: 0.32
df: 0.25

Note: Sample calculations to final concentration for each specific fraction are located in each fraction section of the data package.

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Lisa S. Westerlind
Reporting Manager / Technical Representative

9/17/08
Date



SDG NARRATIVE

L0813344

Sample Receipt

At the client's request, sample "PWG-DW-2008-10 (6.25-6.75')\" was taken off of hold and analyzed NYTCL-8260, NYTCL-8270/8270SIM, TPH-DRO-D, TAL METALS, and TS.

Metals

The following samples have elevated detection limits for Calcium due to the dilutions required to quantitate the results within the calibration range:

L0813344-05, -13: 5x

L0813344-21, -23: 10x

L0813344-26 and -29 have elevated detection limits for Thallium due to the 2x dilutions required by matrix interferences encountered during analysis.

L0813344-29 has an elevated detection limit for Aluminum due to the 2x dilution required to quantitate the result within the calibration range.

The WG335803-1 Laboratory Duplicate RPDs associated with L0813344-26 are outside the acceptance criteria for Aluminum (67%), Arsenic (157%), Chromium (156%), Copper (87%), Iron (153%), Manganese (39%), Nickel (87%), Vanadium (120%), and Zinc (53%). The elevated RPDs have been attributed to the non-homogenous nature of the sample utilized for the laboratory duplicate.

The WG335802-1 Laboratory Duplicate RPDs associated with L0813344-10 are outside the acceptance criteria for Aluminum (60%), Arsenic (38%), Barium (57%), Calcium (102%), Copper (83%), Iron (75%), Lead (74%), Magnesium (101%), Nickel (65%), Vanadium (73%), and Zinc (67%). The elevated RPDs have been attributed to the non-homogenous nature of the sample utilized for the laboratory duplicate.

The WG335803-2 MS recoveries associated with L0813344-26 are outside the acceptance criteria for Antimony (72%), Arsenic (0%), Beryllium (74%), Chromium (0%), Copper (57%), Manganese (40%), Nickel (72%), Vanadium (47%), and Zinc (43%). Post digestion spikes were performed with acceptable recoveries of 104%, 117%, 103%, 99%, 100%, 97%, 94%, 100%, and 97%, respectively. The MS recoveries for Aluminum (0%), Calcium (0%), Iron (0%), and Magnesium (0%) are invalid because the sample concentration is greater than four times the spike amount added.

The WG336225-4 MS recovery for Mercury (0%) associated with L0813344-25 is invalid because the sample concentration is greater than four times the spike amount added.

The WG336007-1/-2 MS/MSD recoveries associated with L0813344-13 are outside the acceptance criteria for Antimony (64%/65%), Lead (MS at 137%), and Manganese (32%/40%). Post digestion spikes were performed with

acceptable recoveries of 107%, 84%, and 101%, respectively. The MS/MSD recoveries for Aluminum (437%/308%), Calcium (0%/154%), Iron (1160%/0%), and Magnesium (0%/0%) are invalid because the sample concentration is greater than four times the spike amount added. In addition, the associated MS/MSD RPDs are above the acceptance criteria for Calcium (200%) and Iron (200%).

The WG335802-2/-3 MS/MSD recoveries associated with L0813344-10 are outside the acceptance criteria for Antimony (58%/71%), Copper (140%/160%), Lead (149%/181%), Thallium (MS at 73%), and Zinc (182%/246%). Post digestion spikes were performed with acceptable recoveries of 91%, 88%, 89%, 89%, respectively. The post digestion spike for Zinc had an unacceptable recovery of 67%; this has been attributed to the sample matrix. The MS/MSD recoveries for Aluminum (608%/693%), Calcium (0%/462%), Iron (4710% / 2460%) and Magnesium (0%/0%) are invalid because the sample concentration is greater than four times the spike amount added. In addition, the MS/MSD RPDs are above the acceptance criteria for Calcium (200%) and Iron (63%). The WG336055-3/-4 MS/MSD recoveries associated with L0813344-10 are above the acceptance criteria for Mercury (164%/160%). A post digestion spike was performed with an acceptable recovery of 98%.

The WG336007-3 Method Blank associated with L0813344-13 has a concentration above the reporting limit for Aluminum. Since the associated sample concentration is 10x the blank concentration for this analyte, no corrective action is required. The results of the original analysis are reported.

Volatile Organics

The surrogate recovery for L0813344-17 was outside the acceptance criteria for 4-Bromofluorobenzene (135%); however, re-analysis within the holding time holding time achieved similar results. The results of both analyses are reported. The surrogate recovery for L0813344-27 is above the acceptance criteria for 4-Bromofluorobenzene (138%). Since the sample was non-detect for all target analytes, re-analysis is not required.

The WG336351-7/-8 MS/MSD recoveries are below the acceptance criteria for Chlorobenzene (53%/58%); however, the associated LCS recoveries are within criteria. No further action was required.

Semivolatile Organics

The following samples have elevated detection limits due to the dilutions required by the sample matrices:

L0813344-05, -12, -13, -27, -30: 5x

L0813344-17, -22, -23, -24: 2x

L0813344-10 and -25 have elevated detection limits due to the 2x dilutions required by the matrix interferences encountered during the concentration of the samples and the 5x dilutions required by the sample matrices.

The WG335861-3 LCSD recovery associated with L0813344-13, -20, and -26 through 30 was above the acceptance criteria for 2,4-Dinitrotoluene (90%);

however, the associated samples were non-detect for this target compound. The results of the original analysis are reported.

The WG335862-2 LCS recovery associated with L0813344-05 through -10, -12, -14 through -19, and -21 through -25 was above the acceptance criteria for 2,4-Dinitrotoluene (90%); however, the associated samples were non-detect for this target compound. The results of the original analysis are reported.

The WG335862-4/-5 MS/MSD recoveries associated with L0813344-10 were above the acceptance criteria for 2,4-Dinitrophenol (150%/150%) and Pentachlorophenol (150%/150%); however, the associated LCS/LCSD recoveries were within criteria.

The WG335862-5 MSD recovery associated with L0813344-10 was above the acceptance criteria for 2,4-Dinitrotoluene (90%); however, the associated samples were non-detect for this target compound. The results of the original analysis are reported.

Instrument Information:

Volatile Organics: Elaine

Instrument: Agilent 5973 MSD
Trap: Supelco K Trap (VOACARB 3000)
Concentrator: Teledyne Velocity
Autosampler: Teledyne Solatek
Purge time: 11 min

Column Type: Restek RTX-502.2
Column Length: 40 Meters
df: 1.00 um
ID: 0.18 mm
Desorb: 2 min

Volatile Organics: Carly

Instrument: Agilent 5972 MSD
Trap: Supelco K Trap (VOACARB 3000)
Concentrator: Tekmar 3000
Autosampler: Archon
Purge time: 11 min

Column Type: Restek RTX-502.2
Column Length: 40 Meters
df: 1.00 um
ID: 0.18 mm
Desorb: 2 min

Semivolatile Organics (Acid/Base/Neutral Extractables): Buffy

Instrument: Agilent 5973N MSD
Column Type: Restek RXI-5SILMS
Column Length: 30 Meters

Injection volume: 1 ul
df: 0.25 um
ID: 0.25 mm

Polynuclear Aromatic Hydrocarbons by 8270 SIM: Mindy

Instrument: Agilent 5973 MSD
Column Type: Restek RTX-5MS
Column Length: 30 Meters

Injection volume: 1 ul
df: 0.25 um
ID: 0.25 mm

TPH: Petro9A / 9B

Instrument: Agilent 6890 w FID
Column Type: Restek RTX-5
Column Length: 30 Meters
ID: 0.32 mm

Injection Volume: 1uL
df: 0.25

Note: Sample calculations to final concentration for each specific fraction are located in each fraction section of the data package.

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Lisa S. Westerlind
Reporting Manager / Technical Representative

9/24/08

Date



SDG NARRATIVE

L0813447

Metals

L0813447-08 and -10 have elevated detection limits for Mercury due to the 5x dilutions required to quantitate the results within the calibration range. The WG336219-1/-2 MS/MSD recoveries associated with L0813447-13 are outside the acceptance criteria for Antimony, Arsenic (MSD only), Chromium, Copper (MS only), Lead, and Manganese. Post-digestion spikes were performed with acceptable recoveries of 108%, 113%, 77%, 80%, 77%, and 98%, respectively. The MS recoveries for Aluminum, Calcium, Iron, Magnesium, and Zinc are invalid because the sample concentration is greater than four times the spike amount added. In addition, the associated MS/MSD RPDs are outside the acceptance criteria for Aluminum, Manganese, and Zinc. The elevated RPDs have been attributed to the non-homogenous nature of the sample utilized for the MS/MSD.

Volatile Organics

The surrogate recovery for L0813447-05 is above the acceptance criteria for 4-Bromofluorobenzene; however, the sample was not re-analyzed due to coelution with obvious interferences. A copy of the chromatogram is included as an attachment to this report. The results are not considered to be biased. L0813447-10: The internal standard (IS) response for 1,4-Dichlorobenzene-d4 is below and the surrogate recoveries for Toluene-d8 and 4-Bromofluorobenzene are above the acceptance criteria; however, re-analysis achieved similar results. The results of both analyses are reported. L0813447-11: The internal standard (IS) response for 1,4-Dichlorobenzene-d4 is below and the surrogate recovery for 4-Bromofluorobenzene is above the acceptance criteria; however, re-analysis achieved similar results. The results of both analyses are reported. L0813447-11 re-analysis has elevated detection limits due to the 4x dilution required by the elevated concentrations of non-target compounds in the sample.

Semivolatile Organics

The following samples have elevated detection limits due to the dilutions required by matrix interferences encountered during the concentration of the samples: L0813447-05, -07, -08, -10, -11, -12: 15x
L0813447-13: 5x
L0813447-06 has elevated detection limits due to the 10x dilution required by the sample matrix.

L0813447-09 has elevated detection limits due to the 10x dilution required by the matrix interferences encountered during the concentration of the sample and the 5x dilution required by the sample matrix.

The surrogate recoveries for L0813447-09 are below the acceptance criteria for 2-Fluorophenol, Phenol-d6, Nitrobenzene-d5, 2-Fluorobiphenyl, 2,4,6-Tribromophenol and 4-Terphenyl-d14 due to the dilutions required to quantitate the sample. Re-extraction is not required; therefore, the results of the original analysis are reported.

The WG336983-2/-3 LCS/LCSD recoveries associated with L0813447-02 through -14 was above the acceptance criteria for 2,4-Dinitrotoluene; however, the associated samples were non-detect for this target compound. The results of the original analysis are reported.

Instrument Information:

Volatile Organics: Elaine

Instrument: Agilent 5973 MSD
Trap: Supelco K Trap (VOACARB 3000)
Concentrator: Teledyne Velocity
Autosampler: Teledyne Solatek
Purge time: 11 min

Column Type: Restek RTX-502.2
Column Length: 40 Meters
df: 1.00 um
ID: 0.18 mm
Desorb: 2 min

Volatile Organics: Curly

Instrument: Agilent 5972 MSD
Trap: Supelco K Trap (VOACARB 3000)
Concentrator: Tekmar 3000
Autosampler: Archon
Purge time: 11 min

Column Type: Restek RTX-502.2
Column Length: 40 Meters
df: 1.00 um
ID: 0.18 mm
Desorb: 2 min

Semivolatile Organics (Acid/Base/Neutral Extractables): Buffy

Instrument: Agilent 5973N MSD
Column Type: Restek RXI-5SILMS
Column Length: 30 Meters

Injection volume: 1 ul
df: 0.25 um
ID: 0.25 mm

Polynuclear Aromatic Hydrocarbons by 8270 SIM: Mindy

Instrument: Agilent 5973 MSD
Column Type: Restek RTX-5MS
Column Length: 30 Meters

Injection volume: 1 ul
df: 0.25 um
ID: 0.25 mm

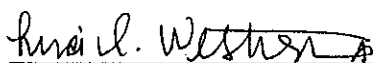
TPH: Petro9A / 9B

Instrument: Agilent 6890 w FID
Column Type: Restek RTX-5
Column Length: 30 Meters
ID: 0.32 mm

Injection Volume: 1uL
df: 0.25

Note: Sample calculations to final concentration for each specific fraction are located in each fraction section of the data package.

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Lisa S. Westerlind
Reporting Manager / Technical Representative

9/24/08
Date



SDG NARRATIVE
L0813541

TO-15

L0813541-01 and -03: results for Propylene should be considered estimated due to co-elution with a non-target peak.

L0813541-05, WG336905-4 Duplicate, L0813541-07, -09 through -11 have elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

L0813541-05, -07 and -11 required re-analysis on a dilution in order to quantitate the sample within the calibration range. The result is reported as a "greater than" value for the compound that exceeded the calibration on the initial analysis. The re-analysis was performed only for the compound which exceeded the calibration range.

Instrument Information
Volatile Organics in Air:

Instrument: Agilent 6890 GC / 5975 MSD

Column Type: Restek RTX-1

Column Length: 60 Meters

Concentrator: Entech 7100A

df: 1.00 um

Autosampler: Entech 7016CA

ID: 0.52 mm

Note: Sample calculations to final concentration for each specific fraction are located in each fraction section of the data package.

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Kathleen O'Brien Technical Representative

10/6/08
Date



SDG NARRATIVE **L0814755**

Metals

L0814755-02, -06, and -10 have elevated detection limits for Iron due to the 5x dilutions required to quantitate the results within the calibration range.

L0814755-07 has an elevated detection limit for Iron due to the 5x dilution required by non-target analyte spectral interferences encountered during analysis.

The following samples have elevated detection limits for Arsenic due to the dilutions required by non-target analyte spectral interferences encountered during analysis:

L0814755-04: 10x

L0814755-07, -10: 20x

The WG339213-1 Laboratory Duplicate RPDs associated with L0814755-01 are outside the acceptance criteria for Calcium (44%), Copper (62%), Iron (40%), Lead (86%), and Zinc (39%). The elevated RPDs have been attributed to the non-homogenous nature of the sample utilized for the laboratory duplicate.

The WG338986-2/-3 MS/MSD recoveries for Iron (0%/0%) associated with L0814755-04 are invalid because the sample concentration is greater than four times the spike amount added.

The WG339213-2 MS recoveries associated with L0814755-01 are below the acceptance criteria for Antimony (68%), Calcium (64%), Copper (0%), Lead (49%), Magnesium (73%), Manganese (47%), and Zinc (0%). Post digestion spikes were performed with acceptable recoveries of 94%, 103%, 119%, 101%, 92%, 103%, and 125%, respectively.

The WG339213-2 MS recovery for Iron (0%) associated with L0814755-01 is invalid because the sample concentration is greater than four times the spike amount added.

Volatile Organics

L0814755-06, -08, -09, -10, -14, -15, and -16: The pH of the samples were greater than two; however, the samples were analyzed within the method required holding time. The samples were received in unpreserved vials.

L0814755-06 has elevated detection limits due to the 20x dilution required by the elevated concentrations of target compounds in the sample.

Semivolatile Organics

The WG339098-2/-3 LCS/LCSD recoveries associated with L0814755-02 through -07, -10, and -11 were above the acceptance criteria for 2,4-

Dinitrotoluene (119%/115%), p-Chloro-m-cresol (LCS at 98%), and

Pentachlorophenol (LCS at 104%); however, the associated samples were non-

detect for these target compounds. The results of the original analysis are reported.

The WG339098-4 MS recovery associated with L0814755-02 through -07, -10, and -11 was above the acceptance criteria for 2,4-Dinitrotoluene (100%); however, the associated samples were non-detect for this target compound. The results of the original analysis are reported.

Instrument Information:

Volatile Organics: Elaine

Instrument: Agilent 5973 MSD
Trap: Supelco K Trap (VOACARB 3000)
Concentrator: Teledyne Velocity
Autosampler: Teledyne Solatek
Purge time: 11 min

Column Type: Restek RTX-502.2
Column Length: 40 Meters
df: 1.00 μ m
ID: 0.18 mm
Desorb: 2 min

Volatile Organics: Curly

Instrument: Agilent 5972 MSD
Trap: Supelco K Trap (VOACARB 3000)
Concentrator: Tekmar 3000
Autosampler: Archon
Purge time: 11 min

Column Type: Restek RTX-502.2
Column Length: 40 Meters
df: 1.00 μ m
ID: 0.18 mm
Desorb: 2 min

Semivolatile Organics (Acid/Base/Neutral Extractables): Buffy

Instrument: Agilent 5973N MSD
Column Type: Restek RXI-5SILMS
Column Length: 30 Meters

Injection volume: 1 μ l
df: 0.25 μ m
ID: 0.25 mm

Polynuclear Aromatic Hydrocarbons by 8270 SIM: Mindy

Instrument: Agilent 5973 MSD
Column Type: Restek RTX-5MS
Column Length: 30 Meters

Injection volume: 1 μ l
df: 0.25 μ m
ID: 0.25 mm

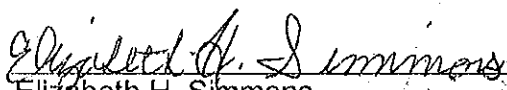
Pesticides/PCB:

Instrument: Agilent 6890 w/Dual Micro ECDs
Column Type: Restek RTX-CL (primary)
Column: Restek RTX-CLPPesticide II (confirmation)
Column Length: 30 Meters
ID: 0.32 mm

Injection Volume: 1 μ L
df: 0.32
df: 0.25

Note: Sample calculations to final concentration for each specific fraction are located in each fraction section of the data package.

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Elizabeth H. Simmons
Technical Representative

10/21/2008
Date



SDG NARRATIVE

L0814991

Volatile Organics

The pH of L0814991-01 through -05 was greater than two; however, the samples were analyzed within the method required holding time.

L0814991-05 has elevated detection limits due to the 50x dilution required by the elevated concentrations of target compounds in the sample.

Metals

L0814991-02 has an elevated detection limit for Arsenic due to the 2x dilution required by matrix interferences encountered during analysis.

The WG339771-2 MS recovery associated with L0814991-02 is below acceptance criteria for Iron (0%); however, the recovery is invalid because the sample concentration is greater than four times the spike amount added.

Semivolatile Organics

The surrogate recovery for L0814991-02 was outside the acceptance criteria for 2-Fluorobiphenyl (38%); however, the criteria was achieved upon re-extraction outside of holding time. The results of both extractions are reported; however, all associated compounds are considered to have a potential bias.

The surrogate recoveries for the WG339803-1 Method blank are below the acceptance criteria for 2-Fluorophenol (20%) and 2-Fluorobiphenyl (39%). The Method blank associated with the re-extract had surrogate recoveries within the acceptance criteria for 2-Fluorophenol (50%) and 2-Fluorobiphenyl (73%).

Semivolatile Organics-SIM

The surrogate recovery for L0814991-02 was below the acceptance criteria for 2-Fluorobiphenyl (40%); however, the criteria was achieved upon re-extraction outside of holding time. The results of both extractions are reported; however, all associated compounds are considered to have a potential bias.

Pesticides

L0814991-02 has elevated detection limits due to the 5x dilution required by the elevated concentrations of non-target compounds in the sample.

no criteria
no criteria

Instrument Information:

Volatile Organics: Elaine

Instrument: Agilent 5973 MSD
Trap: Supelco K Trap (VOACARB 3000)
Concentrator: Teledyne Velocity
Autosampler: Teledyne Solatek
Purge time: 11 min

Column Type: Restek RTX-502.2
Column Length: 40 Meters
df: 1.00 um
ID: 0.18 mm
Desorb: 2 min

Semivolatile Organics (Acid/Base/Neutral Extractables):

Instrument: Agilent 5973N MSD
Column Type: Restek RXI-5SILMS
Column Length: 30 Meters

Injection volume: 1 ul
df: 0.25 um
ID: 0.25 mm

Polynuclear Aromatic Hydrocarbons by 8270 SIM:

Instrument: Agilent 5973 MSD
Column Type: Restek RTX-5MS
Column Length: 30 Meters

Injection volume: 1 ul
df: 0.25 um
ID: 0.25 mm


Pesticides/PCB:

Instrument: Agilent 6890 w/Dual Micro ECDs
Column Type: Restek RTX-CL (primary)
Column: Restek RTX-CLPPesticide II (confirmation)
Column Length: 30 Meters
ID: 0.32 mm

Injection Volume: 1uL
df: 0.32
df: 0.25

Note: Sample calculations to final concentration for each specific fraction are located in each fraction section of the data package.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this Sample Data Package and in the electronic data deliverables has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Lisa S. Westerlind

Reporting Manager / Technical Representative

10/22/08

Date

Exhibit B -- Section 3
Form Instructions
Forms IA-IN and IB-IN (Con't)

analyte, adjusted if necessary and corrected for any dilutions, if the concentration is less than the MDL. The concentration result shall be reported to two significant figures if the result is less than 10 or three significant figures if the value is greater than or equal to 10.

- 3.4.2.2.5 Under the columns labeled "C", "Q", and "M", enter result qualifiers as identified below. If additional qualifiers are used, their explicit definitions shall be included on the Cover Page in the "Comments" section.

Forms IA-IN and IB-IN include fields for three types of result qualifiers. These qualifiers shall be completed as follows:

- 3.4.2.2.5.1 C (Concentration) Qualifier. Enter "J" if the reported value was obtained from a reading that was less than the CRQL but greater than or equal to the MDL. If the reading was less than the MDL, a "U" shall be entered.
- The MDL obtained for a given preparation method, analysis method, and instrument shall be used for qualification of the results for samples associated with that preparation method, analysis method, and instrument. Serial dilution and post-digestion spike results shall be qualified using the MDL and CRQL values utilized for the corresponding field sample.

All three values (i.e., the instrument reading, CRQL, and MDL) shall be converted to the same units prior to determining the appropriate C (Concentration) Qualifier.

NOTE: The water CRQL (in ug/L) and the MDL obtained from direct analysis (Preparation Method "NP1") for a given analysis method and instrument shall be used to qualify the results of samples and instrument QC standards that are not taken through a preparation procedure [e.g., ICP-MS samples with turbidity less than 1 Nephelometric Turbidity Unit (NTU), ICB, CCB, and CRI for ICP-AES].

- 3.4.2.2.5.2 Q Qualifier. Specified entries and their meanings are as follows:

E: The reported value is estimated due to the presence of interference. An explanatory note shall be included under "Comments" on the Cover Page (if the problem applies to all samples), or on the specific Form IA-IN or Form IB-IN (if it is an isolated problem).

N: Spiked sample recovery not within control limits.

*: Duplicate analysis not within control limits.

D: The reported value is from a dilution.

DEFINITION
OF "Q"
QUALIFIER
INORGANIC
REPORTS

KBW 12/12/08 - SOW CLP ILM

ATTACHMENT C

DATA VALIDATION REPORT

**SDG Nos. L0812845, L0812904, L0813196, L0813344, L0813447,
L0813541, L0814755, and L0814991**

**Volatiles, Semivolatiles, Total Petroleum Hydrocarbons (TPH), Diesel Range Organics (DRO), Pesticides/Polychlorinated biphenyls, and Metals in Water and Soil Samples, and
Volatiles in Air Samples**

DATA VALIDATION

FOR

**ROCKVILLE CENTRE, NEW YORK
August, September, and October 2008 Sampling Round**

ANALYSIS DATA

Volatiles, Semivolatiles, Total Petroleum Hydrocarbons (TPH), Diesel Range Organics (DRO), Pesticides/Polychlorinated Biphenyls (PCBs) and Metals in Water and Soil Samples, and Volatiles in Air Samples

**Sample Delivery Group (SDG) Nos.
L0812845, L0812904, L0813196, L0813344, L0813447,
L0813541, L0814755, and L0814991**

Chemical Analyses Performed By:

**Alpha Analytical
Eight Walkup Drive
Westborough, MA 01581-101**

For:

**Kris Almskog
P.W. Grosser Consulting
630 Johnson Avenue, Suite 7
Bohemia, NY 11716**

Data Validation Report By:

**Kim B. Watson
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier, VT 05602**

December 12, 2008

Reference #082074-F Phase II
Validation Report_12845_2904_3196_3344_3447_3541_4755_4991//kbw

EXECUTIVE SUMMARY

Stone Environmental, Inc. (Stone) has completed the third-party data validation on the organics and inorganic analyses for volatile organic (VOA) and semivolatile organic analyses (SVOA), polychlorinated biphenyls (PCBs) as Aroclors, pesticides, TPH-DRO, and metals data in soil and water samples, and volatiles in air samples as prepared by Alpha Analytical from the Rockville Centre site in Rockville Centre, New York. The laboratory reported the data under Sample Delivery Group (SDG) Nos. L0812845, L0812904, L0813196, L0813344, L0813447, L0813541, L0814755, and L0814991 that were submitted as eight data packages received by Stone (electronically) on October 31, 2008. As required by the Project plan, approximately 5% or one sample from each SDG, whichever is greater, was considered for validation. The samples below were selected for validation as follows:

| SDG No. | Sample No. | Laboratory ID | Parameter |
|----------|--------------------------|---------------|---|
| L0812845 | PWG-VP-2008-04 (36-40') | L0812845-02 | SDG VOA only |
| L0812904 | PWG-VP-2008-02 (16-20") | L0812904-03 | SDG VOA only |
| L0813196 | PWG-GW-2008-04 | L0813196-11 | VOA only |
| L0813196 | PWG-GW-2008-24 | L0813196-12 | VOA only (field dup) |
| L0813196 | PWG-SB-2008-01@5-10' | L0813196-20 | VOA, SVOA, Pest/PCB, metals |
| L0813196 | PWG-SB-2008-21@5-10' | L0813196-21 | VOA, SVOA, Pest/PCB, metals (field dup) |
| L0813196 | PWG-SB-2008-12@5-10' | L0813196-36 | VOA only |
| L0813196 | PWG-SB-2008-22@5-10' | L0813196-37 | VOA only (field dup) |
| L0813344 | PWG-DW-2008-15(7-7.5') | L0813344-18 | VOA, SVOA, TPHDRO, metals |
| L0813344 | PWG-DW-2008-100 (7-7.5') | L0813344-19 | VOA, SVOA, TPHDRO, metals (field dup) |
| L0813447 | PWG-DW-2008-34(5.5-6') | L0813347-08 | VOA, SVOA, TPHDRO, metals |
| L0813541 | PWG-DW-2008-08 | L0813541-08 | TO15 Soil Gas |
| L0814755 | DIFFW-01 | L0814755-07 | VOA, SVOA, Pest/PCB, metals |
| L0814991 | DIFFW-04 | L0814991-05 | VOA (only) |

The samples in this data set represent the sample collections from August 26, 27, 28, and 29, September 3, 4, 5, 8, and 10, and October 3, 6, 7, and 8, 2008. The samples were received at the laboratory on August 29 and 30, September 5, 9, 11, and 12, and October 5 and 9, 2008.

Findings of the validation effort resulted in the following qualifications of sample results:

- The following results were qualified as estimated (J, UJ):
 - Results for chloromethane, bromomethane, isopropylbenzene, 1,2,3-trichloropropane and naphthalene in PWG-VP-2008-04 (36-40') and PWG-VP-2008-02 (16-20').
 - Results for dichlorodifluoromethane, chloromethane, carbon disulfide, isopropyl benzene and p-diethylbenzene in PWG.GW.2008.04 and PWG.GW.2008.24.
 - Results for isophorone 1,4-dichlorobenzene, 2,4-dinitrotoluene, 3-nitroaniline and 4-nitroaniline in PWG.SB.2008.01@5-10' and PWG.SB.2008.21@5-10'.
 - Results for dichlorodifluoromethane and 1,2,3-trichloropropane in PWG-DW-2008-15(7-7.5') and in PWG-DW-2008-100(7-7.5').
 - Results for dichlorodifluoromethane, carbon disulfide, vinyl acetate, and 1,2,3-trichloropropane in PWG-DW-2008-34 (5.5-6').
 - Results for dichlorodifluoromethane, chloromethane, bromomethane, and isopropyl benzene in DIFFW-01.
 - Results for dichlorodifluoromethane, chloromethane, 2-butanone, acetone, and isopropylbenzene in DIFFW-04.
- In SDG No. L0813344 for metals and mercury analyses, several compounds as outlined in the narrative exhibited recoveries outside the acceptance windows. The laboratory appropriately applied "N" and "*" qualifiers on the compounds that exceeded the acceptance criteria. As a result of the recovery failures, results flagged by the laboratory with an "N" or "*" were qualified as estimated (J, UJ) in samples PWG-DW-2008-15 (7-7.5') and PWG-DW-2008-100 (7-7.5'). The laboratory appropriately performed a post-digestion spike analysis and the post-digestion spike was acceptable.
- In SDG No. L0813447 for metals and mercury analyses and in SDG No. L0813447 for metals analyses, several compounds as outlined in the narrative exhibited recoveries outside the acceptance windows. The laboratory appropriately applied "N" qualifiers on the compounds that exceeded the criteria. As a result of the recovery failures, results flagged by the laboratory with an "N" were qualified as estimated (J, UJ) in sample PWG-DW-2008-34 (5.5-6').

- The following results were qualified as estimated (J, UJ):
 - Results for 4,4'-DDT in PWG-SB-2008-01@5-10' and PWG-SB-2008-21@5-10'.
 - Results for cis-1,2-dichloroethene, trichloroethene, vinyl chloride, fluoranthene, and pyrene in PWG-DW-2008-15(7-7.5') and PWG-DW-2008-100(7-7.5').
 - Results for acetone, 2-butanone, n-butylbenzene, isopropylbenzene and 2-methylnaphthalene in PWG-DW-2008-34 (5.5-6').
 - The result for vinyl chloride in DIFFW-01.
- In the inorganic field duplicate pairs, the following results were qualified as estimated (J, UJ):
 - Results for aluminum, arsenic, barium, calcium, copper, lead, vanadium, zinc, and mercury in PWG-SB-2008-01@5-10' and in PWG-SB-2008-21@5-10'.
 - The result for silver in PWG-DW-2008-34(5.5-6').

Although, acetone and methylene chloride were not detected above the reporting limit in any of the VOA method blanks (MBs), chromatographic peaks were observed in the raw data for these compounds in associated MBs. Therefore, the validator recommends caution in the use of these compounds in samples since they are common laboratory contaminants and the low concentrations observed in the soil samples may not be site related.

The Overall Evaluation of Data (Section XVI) presents the rationale for the decisions that have been implemented and are summarized above. The validation findings and conclusions for each analytical parameter are detailed in the remaining sections of this report and are based on the following information.

| QC Criteria | Were acceptance criteria met for Contaminates of Concern? | | |
|---|---|----|----|
| | Yes | No | NA |
| Chain of custody (COC)/sample integrity/holding times | √ | | |
| Data completeness | | √ | |
| Holding times and sample preservation | √ | | |
| GC/MS performance checks | √ | | |
| Calibrations | | √ | |
| CRQL Standards (metals only) | √ | | |
| Laboratory method blanks/equipment blanks | √ | | |
| ICP Interference Check Sample (metals only) | √ | | |
| Matrix spike/matrix spike duplicate (MS/MSD) results | | √ | |
| Post Digestion Spike (metals only) | √ | | |
| Laboratory control samples and reference materials | √ | | |
| Field duplicate results | | √ | |
| ICP Serial Dilution | | √ | |
| Surrogate recoveries | √ | | |
| Internal standard results | √ | | |
| Compound identification | √ | | |
| Sample results | √ | | |
| % solids | √ | | |
| Calculations/transcriptions | √ | | |
| <i>Notes: See documentation Section XVII for amendments provided by the laboratory upon request.</i> | | | |
| <i>NA - Not applicable indicates that either the QC is not applicable to this data set or not required by the method.</i> | | | |

Documentation problems observed in the data package and on the chain of custody records are described in Section XVII.

This validation report shall be considered part of the data package for all future distributions of the volatiles, semivolatiles, TPH DRO, Pesticides/PCBs, and metals analysis data.

INTRODUCTION

Analyses of water and soil samples were performed according to US EPA SW846 Methodologies: Method 8260 GC/MS analyses for Volatiles, Method 8270D GC/MS analyses for semivolatiles, (extractions: 3510 water separatory funnel extraction/3541 automated soxhlet soil-extraction), Method 8270D by GC/MS Selective Ion Monitoring for Polynuclear aromatic hydrocarbons, Method 8081 GC analysis for the pesticides, Method 8082 GC analysis for the PCBs, Method 8015 GC analysis for TPH-DRO and 6010B for metals. The target compound lists included all standard target analytes typically specified under the US EPA Contract Laboratory Program (CLP) for these methods.

To the extent possible, Stone's validation was performed in conformance with Tier III guidelines as defined by EPA Region I, "Region I EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses", March 1996. The data were evaluated in accordance with EPA Region II's Standard Operating Procedures (SOPs) from the EPA Hazardous Waste Support Branch: SOP#HW-24 "SOP for the Validation of Organic Data Acquired Using SW-846 Method 8260" (Rev2, Dec 1996), SOP#HW-22 "Validating Semivolatile Organic Compounds By Gas Chromatography/Mass Spectrometry SW-846 Method 8270D", SOP#HW-44 "Validating Pesticide Compounds Organochlorine Pesticides by Gas Chromatography SW-846 Method 8081B", SOP#HW-45 "Validating PCB Compounds PCBs By Gas Chromatography SW-846 8082A", SOP#HW-2 "Validation of Metals for the Contract Laboratory Program (CLP) based on SOW ILMO5.3" (SOP Revision 13), and SOP#HW-31 "Validation Air Samples Volatile Organic Analysis of Ambient Air In Canister By Method TO-15". EPA's "National Functional Guidelines for Organic Data Review" (EPA 540/R-99/008, 10/99) and EPA's "National Functional Guidelines for Inorganic Data Review" (EPA 540-R-04-004, October 2004) were also considered during the evaluation, and professional judgment was applied as necessary and appropriate.

As specified in the workplan, an independent third party data validation was performed on 5% of the sample data or on one sample (sometimes two) from each sample delivery group (SDG). In addition, the validation effect was used to complete the data usability evaluation for the data collected during the remediation investigation. The data usability summary report (DUSR) was prepared based on findings in this validation report and extrapolated to all deliverables.

The data validation process evaluates data on a technical basis for chemical analyses conducted under the CLP or other well-defined methods. Contract compliance is evaluated only in specific situations. Issues pertaining to contractual compliance are noted where applicable. It is assumed that the data package is presented in accordance with the CLP requirements. It is also assumed that the data package represents the best efforts of the laboratory and has already been subjected to adequate and sufficient quality review prior to submission for validation.

Results of sample analyses are reported by the laboratory as either qualified or unqualified; various qualifier codes are used by the laboratory to denote specific information regarding the analytical results. During the validation process, laboratory data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data validator as necessary and appropriate. Raw data is examined in detail to check calculations, compound identification, and/or transcription errors in reference to samples in

the Executive Summary only. Validated results are either qualified or unqualified; if results are unqualified, this means that the reported values may be used without reservation. Final validated results are annotated with the following codes, as defined in EPA Region II Standard Operating Procedures:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit. The associated numerical value is the sample quantitation limit. The sample quantitation limit accounts for sample-specific dilution factors and percent solids corrections or sample sizes that deviate from those required by the method.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified. The R replaces the numerical value or sample quantitation limit. In some instances (e.g., a dilution) a result may be indicated as "rejected" to avoid confusion when a more quantitatively accurate result is available.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

JN - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

These codes are recorded in the Analysis Data Sheets (Form I) in Attachment A of this validation report to indicate qualifications placed on the data as a result of the validation effort.

All data users should note two facts. First, the "R" qualifier means that the laboratory-reported value is completely unusable. The analysis is invalid due to significant quality control problems and provides no information as to whether the compound is present or not. Rejected values should not appear on data tables because they have no useful purpose under any circumstances. Second, no analyte concentration is guaranteed to be accurate even if all associated quality control is acceptable. While strict quality control conformance provides well-defined confidence in the reported results, any analytical result will always contain some uncertainty as demonstrated in the laboratory-derived control limits.

The user is also cautioned that the validation effort is based on the materials provided by the laboratory. Software manipulation, resulting in misleading raw data printouts, cannot be routinely detected during validation; unless otherwise stated in the report, these kinds of issues are outside the scope of this review.

Detailed Findings of Measurement Error Associated with the Analytical Analysis

I. Preservation and Technical Holding Times (Sample Integrity)

The soil and water samples for these analyses were collected on August 26, 27, 28, and 29, September 3, 4, 5, 8, and 10, and October 3 and 6, 2008. The samples were received at the laboratory on August 29, and 30, September 5, 9, 11, and 12, and October 6 and 10, 2008. According to chain of custody records and laboratory records, all samples were appropriately preserved in the field prior to collection. All holding times for analysis were met for all samples. All samples were received at the laboratory at the appropriate temperature ($<10^{\circ}\text{C}$).

According to the case narrative for SDG No. 0812904, both vials for samples PWG-VP-2008-03 (96-100'), PWG-VP-2008-02 (56-60), PWG-VP-2008-02 (96-100'), and PWG-VP-2008-01 (96-100'), and one vial for samples PWG-VP-2008-01 (36-40') and PWG-VP-2008-01 (76-80') were received with a large headspace. Although vials for the samples being validated were acceptable, the validator recommends caution in the use of results for these samples. Results for all compounds in PWG-VP-2008-03 (96-100'), PWG-VP-2008-02 (56-60), PWG-VP-2008-02 (96-100'), and PWG-VP-2008-01 (96-100') shall be considered as estimated (J, UJ).

II. GC/MS Instrument Performance Check (Tuning), GC Check Sample (Breakdown), and Calibration Verification

The tuning of the instruments for VOA analyses was demonstrated with the analysis of 4-bromofluorobenzene (BFB), the tuning of the instruments for SVOA analyses was demonstrated with analysis of decafluorotriphenylphosphine (DFTPP); tunes were analyzed for each shift (12-hour period) during which the samples or associated standards were analyzed. All tunes as recorded on Form V-like summaries in this data set were acceptable.

A performance check sample for endrin and DDT breakdown, as required by EPA methodology, were analyzed at the proper frequency, reported in the data package, and were acceptable in the pesticide analysis.

Initial and continuing calibration verification (ICV/CCV) standards were run at the required frequencies in the ICP/CV analysis series for all target elements. Results for all ICV/CCV standards bracketing samples were correctly reported on the summary forms and recoveries of all target analytes were within the applicable acceptance limits. The reported correlation coefficient of the initial calibration for the mercury analysis was greater than the minimum acceptance limit of 0.995.

Contract required quantitation limit (CRQL) standards as specified in the EPA Inorganic (ILM) Statement of Work were analyzed at the required frequencies for selected metals and concentrations for all applicable analytes on the ICP analyzers. Percent recoveries were accurately reported and were acceptable, with the exception of calcium at (306 and 307%) in the CRDL standard on 9/18/08. Since calcium was not reported from this sequence, no data was qualified on this basis.

Initial and continuing calibration verifications were performed for all organic analyses and were acceptable with the following exceptions:

| Analysis Date | Analysis Time | Compound | %RSD % D | Action |
|-----------------------|---------------|---------------------------|-------------|--------|
| 9/4/08 (WG330394-CC) | 1535 | Chloromethane | 34 | Est. |
| 9/04/08 (WG330394-CC) | 1535 | Bromomethane | 71 | Est. |
| 9/04/08 (WG330394-CC) | 1535 | Isopropylbenzene | -34 | Est. |
| 9/04/08 (WG330394-CC) | 1535 | 1,2,3-trichloropropane | -32 | Est. |
| 9/04/08 (WG330394-CC) | 1535 | Naphthalene | -28 | Est. |
| 9/09/08 (WG335914-CC) | 1809 | Dichlorodifluoromethane | 36 | Est. |
| 9/09/08 (WG335914-CC) | 1809 | Chloromethane | 27 | Est. |
| 9/09/08 (WG335914-CC) | 1809 | Carbon disulfide | 32 | Est. |
| 9/09/08 (WG335914-CC) | 1809 | Isopropylbenzene | -30 | Est. |
| 9/09/08 (WG335914-CC) | 1809 | p-diethylbenzene | 29 | Est. |
| 9/10/09 (8260-CCAL) | 1455 | Carbon disulfide | 41 | Est. |
| 9/10/09 (8260-CCAL) | 1455 | Vinyl acetate | 26 | Est. |
| 9/10/09 (8260-CCAL) | 1455 | Isopropylbenzene | -28 | Est. |
| 9/10/09 (8260-CCAL) | 1455 | p-diethylbenzene | 28 | Est. |
| 9/11/09 (8260-CCAL) | 1525 | Dichlorodifluoromethane | 36 | Est. |
| 9/11/09 (8260-CCAL) | 1525 | 1,2,3-trichloropropane | -31 | Est. |
| 9/15/09 (8260-CCAL) | 1218 | Carbon disulfide | 59 | Est. |
| 9/15/09 (8260-CCAL) | 1218 | Dichlorodifluoromethane | 27 | Est. |
| 9/15/09 (8260-CCAL) | 1218 | Vinyl acetate | 22 | Est. |
| 9/15/09 (8260-CCAL) | 1218 | 1,2,3-trichloropropane | -25 | Est. |
| 10/09/08 (8260-CCAL) | 1640 | Dichlorodifluoromethane | 46 | Est. |
| 10/09/08 (8260-CCAL) | 1640 | Chloromethane | 34 | Est. |
| 10/09/08 (8260-CCAL) | 1640 | Bromomethane | -32 | Est. |
| 10/09/08 (8260-CCAL) | 1640 | Isopropylbenzene | -29 | Est. |
| 10/14/08 (8260-CCAL) | 1252 | Dichlorodifluoromethane | 43 | Est. |
| 10/14/08 (8260-CCAL) | 1252 | Chloromethane | 37 | Est. |
| 10/14/08 (8260-CCAL) | 1252 | Acetone | -21 | Est. |
| 10/14/08 (8260-CCAL) | 1252 | 2-butanone | -23 | Est. |
| 10/14/08 (8260-CCAL) | 1252 | Isopropylbenzene | -34 | Est. |
| 9/10/08 (abn 050 cc) | 1015 | Isophorone | 24 | Est. |
| 9/10/08 (abn 050 cc) | 1015 | 1,4-dichlorobenzene | 24 | Est. |
| 9/10/08 (abn 050 cc) | 1015 | 3-nitroaniline | 27 | Est. |
| 9/10/08 (abn 050 cc) | 1015 | 2,4-dinitrotoluene | 30 | Est. |
| 9/10/08 (abn 050 cc) | 1015 | 4-nitroaniline | 24 | Est. |
| 9/15/08 (abn 050 cc) | 1220 | Isophorone | 41 | Est. |
| 9/15/08 (abn 050 cc) | 1220 | Acetophenone | 33 | Est. |
| 9/18/08 (abn 050 cc) | 0953 | Isophorone | 30 | Est. |
| 9/18/08 (abn 050 cc) | 0953 | Hexachlorocyclopentadiene | -24 | Est. |
| 10/10/08 (abn 050 cc) | 1116 | Benzoic acid | -26 | Est. |
| 10/10/08 (abn 050 cc) | 1116 | Hexachlorocyclopentadiene | -32 | Est. |

Initial Calibration (IC) limits = $\leq 15\%$ RSD or < 0.995 , Continuing Calibration (CC) limits = 25% D
Est. = Estimate (J, UJ) associated samples.

It should be noted that negative % difference values will result in a low bias for positive detects, and a positive % difference will result in a high bias for positive detects.

Based on unacceptable %D values in the associated calibration standards, the following results were qualified as estimated (J, UJ):

- Results for chloromethane, bromomethane, isopropylbenzene, 1,2,3-trichloropropane, and naphthalene in PWG-VP-2008-04 (36-40') and PWG-VP-2008-02 (16-20').
- Results for dichlorodifluoromethane, chloromethane, carbon disulfide, isopropyl benzene and p-diethylbenzene in PWG.GW.2008.04 and PWG.GW.2008.24.
- Results for isophorone 1,4-dichlorobenzene, 2,4-dinitrotoluene, 3-nitroaniline and 4-nitroaniline in PWG.SB.2008.01@5-10' and PWG.SB.2008.21@5-10'.
- Results for dichlorodifluoromethane and 1,2,3-trichloropropane in PWG-DW-2008-15(7-7.5') and in PWG-DW-2008-100(7-7.5').
- Results for dichlorodifluoromethane, carbon disulfide, vinyl acetate, and 1,2,3-trichloropropane in PWG-DW-2008-34 (5.5-6').
-
- Results for dichlorodifluoromethane, chloromethane, bromomethane, and isopropyl benzene in DIFFW-01.
- Results for dichlorodifluoromethane, chloromethane, 2-butanone, acetone, and isopropyl benzene in DIFFW-04.

In the Pesticide/PCB analyses, initial and continuing calibration verifications were performed at the appropriate frequency and on one column or the other, there were outliers that exceeded the calibration criteria by marginal amounts. However, in all cases, all samples were non-detect for these compounds except a trace amount of 4,4'DDT in PWG.SB.2008.01@5-10' (suspected interference); therefore, no data was qualified on this basis.

III. Blanks: Laboratory, Preparation and Method Blanks, and Trip Blanks

Preparation blanks and/or laboratory method blanks (MB) were prepared with each preparation batch and were acceptable with the following exceptions noted below.

No target analytes were detected in any of the VOA method blanks. Although acetone and methylene chloride were not detected above the reporting limit in any of the VOA method blanks, chromatographic peaks were observed in the raw data for these compounds in associated MBs. Therefore, the validator recommends caution in the use of these compounds in samples since they are common laboratory contaminants and the low concentrations observed in the soil samples may not be site related.

No target analytes were detected in any of the SVOA, pesticide/PCB or TPH-DRO method blanks.

The initial and continuing blanks for the metals analyses detected trace amounts of the target elements (<reporting limit for lead, selenium, aluminum, and beryllium). Since target compounds were greater than the reporting limits (action limit), no data was qualified based on the trace amounts observed in these blanks. A preparation blank was reported with each preparation batch of twenty soil samples. No target compounds were detected above the reporting limit in any metal preparation blanks.

Trip blanks (TBs) were submitted with each set of samples in this data set (per SDG). No target analytes were detected in the TBs.

Field blanks (FBs) were submitted with the samples in the data set. No target analytes were detected in the FBs.

IV. Surrogate Compounds

Percent recoveries of the VOA surrogates (1,2-dichloroethane-d4, 4-bromofluorobenzene, dibromofluoromethane, toluene-d8) were correctly reported on the Form summaries and within acceptance limits for the samples in these data sets.

Percent recoveries of the SVOA surrogates (1,2-dichlorobenzene-d4, 2,4,6-tribromophenol, 2-chlorophenol-d4, 2-fluorobiphenyl, 2-fluorophenol, nitrobenzene-d5, phenol-d6, p-terphenyl-d14) were correctly reported on the Form summaries and within acceptance limits for the samples in these data sets with the exceptions of recoveries in the SIM analyses of PWG-2008-34(5.5-6'). The reported recoveries of the surrogates were at 0% due to the required dilution analyses based on the presence of hydrocarbons. Since recoveries were acceptable in the LCS and blank, no data was qualified on this basis.

Percent recoveries of the surrogates in the Pesticides/PCB and TPH-DRO analyses were correctly reported on the Form II-like summaries and within acceptance limits for the samples in these data sets.

V. Internal Standards (IS)

All IS areas and retention times (RT), as reported on the Form VIII summaries, were within the established QC limits for all reported sample analyses in these data packages.

VI. Matrix Spike/Matrix Spike Duplicate/Laboratory Duplicate (MS/MSD/Dup)

Samples for matrix spikes (MS), matrix spike duplicates (MSD) and duplicate analyses were collected and analyzed from PWG-VP-2008-04 (36-40'), PWG.SB.2008.05@5-10', PWG.SB.2008.09@15-20', and PWG-DW-2008-07 (6.75-7.25') for the VOA analyses, PWG.SB.2008.21@5-10' for metals in SDG No. L0813196, and PWG-DW-2008-07(6.75-7.25') for SVOA, SVOA SIM, and TPH-DRO analysis in SDG No. L0813344. The following table lists the compounds that did not meet acceptance criteria for the MS/MSD Recovery (R) or relative percent differences (RPD) between pair results and explains the action taken for the results from the unspiked sample.

| Sample ID | Compound | MS%R | MSD %R | DUP % RPD | Post Digestion %R | QC Limits | Action |
|----------------------------|---------------------|------|--------|-----------|-------------------|-----------|--------|
| PWG.SB.2008.21@5-10' | Aluminum | 0 | | 7 | NA | 75-125/20 | NAC* |
| PWG.SB.2008.21@5-10' | Iron | 0 | | 5 | NA | 75-125/20 | NAC* |
| PWG.SB.2008.21@5-10' | Antimony | 50 | | NA | 100 | 75-125/20 | Est. |
| PWG.SB.2008.21@5-10' | Calcium | 166 | | 22 | 96 | 75-125/20 | Est. |
| PWG.SB.2008.21@5-10' | Chromium | 74 | | 2 | 91 | 75-125/20 | Est. |
| PWG.SB.2008.21@5-10' | Lead | 69 | | 7 | 102 | 75-125/20 | Est. |
| PWG.SB.2008.21@5-10' | Magnesium | 64 | | 9 | 88 | 75-125/20 | Est. |
| PWG.SB.2008.21@5-10' | Manganese | 133 | | 3 | 88 | 75-125/20 | Est. |
| PWG.SB.2008.21@5-10' | Zinc | 62 | | 0 | 88 | 75-125/20 | Est. |
| PWG.SB.2008.21@5-10' | Mercury | 6 | | 117 | 98 | 75-125/20 | Est. |
| PWG-DW-2008-07(6.75-7.25') | Chlorobenzene | 53 | 58 | 9 | NA | 60-133/30 | NAC |
| PWG-DW-2008-07(6.75-7.25') | 2,4-dinitrophenol | 150 | 58 | 9 | NA | 30-130/50 | NAC |
| PWG-DW-2008-07(6.75-7.25') | Pentachlorophenol | 150 | 58 | 9 | NA | 17-109/50 | NAC |
| PWG-DW-2008-07(6.75-7.25') | 2,4-dinitrotoluene | 77 | 90 | 16 | NA | 28-89/50 | NAC |
| PWG-DW-2008-07(6.75-7.25') | 2-chloronaphthalene | 36 | 42 | 15 | NA | 40-140/ | NAC |
| PWG-DW-2008-07(6.75-7.25') | TPH | 0 | 188 | 200 | NA | 10-140/40 | NAC* |

NA=Not Applicable, NAC=No Action *sample concentration greater than 4X the spike concentration; therefore, no action. Est. = Estimate (J, UJ) associated sample. Note: the laboratory limit for Metals MS/MSD was 80-120, the validation limits used were 75-125%.

Although, the recovery of mercury fell just below the limit for rejection at 6% in sample PWG.SB.2008.21@5-10', the laboratory performed a post-digestion spike (not formally presented but found within the raw data, and noted in the case narrative) which exhibited acceptable recovery of mercury; therefore, results were estimated (J) in PWG.SB.2008.21@5-10' rather than rejected based on professional judgment and the non-homogeneous nature of the field sample and its duplicate. Sample PWG.SB.2008.21@5-10' was the field duplicate of PWG.SB.2008.01(@5-10' and the concentration reported in the MS spike replicated that of the parent sample; therefore, the

elevated results of the field duplicate (PWG.SB.2008.21@5-10') may be an anomaly and should not be considered for use.

In SDG No. L0813344 matrix spike, matrix spike duplicate, and duplicate analyses were performed on samples PWG-DW-2008-07(6.75-7.25'), PWG-DW-2008-22 (5.25-5.75'), and PWG-DW-2008-10(6.25-6.75'), and PWG-DW-2008-20 (3.5-5')[mercury only] for metals and mercury analyses. Several compounds as outlined in the narrative exhibited recoveries outside the acceptance windows similar to the MS sample listed above. The laboratory appropriately applied "N" and "*" qualifiers on the compounds that exceeded the criteria. As a result of the recovery failures, results flagged by the laboratory with an "N" or "*" were qualified as estimated (J, UJ) in samples PWG-DW-2008-15 (7-7.5') and PWG-DW-2008-100 (7-7.5'). The laboratory appropriately performed a post-digestion spike analyses and the post-digestion spike was acceptable.

In SDG No. L0813447 matrix spike, matrix spike duplicate, and duplicate analyses were performed on samples PWG-DW-2008-40 (6-6.5') for metals analyses. Several compounds as outlined in the narrative exhibited recoveries outside the acceptance windows. The laboratory appropriately applied "N" qualifiers on the compounds that exceeded the criteria. As a result of the recovery failures, results flagged by the laboratory with an "N" were qualified as estimated (J, UJ) in sample PWG-DW-2008-34 (5.5-6').

In SDG No. L0814755, matrix spike, matrix spike duplicate, and duplicate analyses were performed on sample MW-4 for the VOA, SVOA SIM PAH, Pesticide/PCB analyses and metals. All recoveries were acceptable, except in the SVOA analyses: 2,4-dinitrotoluene was at 100% just outside the limit (24-96%). Since the recovery was at 100%, just outside the limit and not detected in the parent sample, no data was qualified on this basis.

VII. Field Duplicate Precision

Samples PWG-GW-2008-24 (VOA), PWG-SB-2008-21@5-10' (VOA, SVOA, SVOA SIM PAH, Pest/PCB and metals), PWG-SB-2008-22@5-10'(VOA), PWG-DW-2008-100(7-7.5') (VOA, SVOA, SVOA SIM PAH, TPHDRO, and metals), PWG-DW-2008-101(5.5-6') (VOA, SVOA, SVOA SIM PAH, TPHDRO and metals), and DIFFW-100 (VOA, SVOA, SVOA SIM PAH, Pest/PCB and metals) were field duplicate samples of PWG-GW-2008-04, PWG-SB-2008-01@5-10', PWG-SB-2008-12@5-10', PWG-DW-2008-15 (7-7.5'), PWG-DW-2008-34 (5.5-6') and DIFFW-01 respectively for the analyses indicated in parentheses. If target compounds were non-detect in the field duplicate pair, then no assessment of precision could be made. Unless noted below, paired results were acceptable and no qualification of data was required.

| Sample Name | Compound | Action Limit | Sample Conc. | C | Duplicate Conc. | RPD | Difference | Q | RL (mg/kg) |
|------------------------|------------------------|--------------|--------------|---|-----------------|-----|------------|-------|------------|
| PWG.SB.2008.01@5-10' | 4,4'-DDT | 50 | 4.73 | | ND<3.47 | 200 | 0.99 | J, UJ | 4.12 |
| PWG-DW-2008-15(7-7.5') | Cis-1,2-dichloroethene | 50 | 28 | | ND <3 | 200 | 25 | J, UJ | 3.0 |
| PWG-DW-2008-15(7-7.5') | trichloroethene | 50 | 11 | | ND <3 | 200 | 8 | J, UJ | 3.0 |

| Sample Name | Compound | Action Limit | Sample Conc. | C | Duplicate Conc. | RPD | Difference | Q | RL (mg/kg) |
|-------------------------|---------------------|--------------|--------------|---|-----------------|-----|------------|-------|------------|
| PWG-DW-2008-15(7-7.5') | Vinyl chloride | 50 | 26 | | ND <6.0 | 200 | 20 | J, UJ | 6.0 |
| PWG-DW-2008-15(7-7.5') | Fluoranthene | 50 | ND <79 | | 150 | 200 | 74 | J, UJ | 79 |
| PWG-DW-2008-15(7-7.5') | Pyrene | 50 | ND <79 | | 160 | 200 | 81 | J, UJ | 79 |
| PWG-DW-2008-34 (5.5-6') | Acetone | 50 | 48 | | 180 | 86 | 72 | J, UJ | 38 |
| PWG-DW-2008-34 (5.5-6') | 2-butanone | 50 | ND <38 | | 58 | 42 | 20 | J, UJ | 38 |
| PWG-DW-2008-34 (5.5-6') | n-butylbenzene | 50 | ND <3.8 | | 7.5 | 70 | 4.1 | J, UJ | 38 |
| PWG-DW-2008-34 (5.5-6') | Isopropylbenzene | 50 | ND <3.8 | | 3.9 | 141 | 18.2 | J, UJ | 38 |
| PWG-DW-2008-34 (5.5-6') | 2-methylnaphthalene | 50 | ND <7600 | | 8600 | 200 | 1000 | J, UJ | 2000 |
| PWG-DW-2008-34 (5.5-6') | Phenanthrene | 50 | 2000 | | ND <2100 | 200 | 100 | J, UJ | 2000 |
| DIFFW-01 | Vinyl chloride | 50 | ND <1.0 | | 1.6 | 200 | 0.6 | J, UJ | 1.0 |

Based on poor reproducibility in the organic field duplicate pairs, the following results were qualified as estimated (J, UJ):

- Results for 4,4'-DDT in PWG-SB-2008-01@5-10' and PWG-SB-2008-21@5-10'
- Results for cis-1,2-dichloroethene, trichloroethene, vinyl chloride, fluoranthene, pyrene in PWG-DW-2008-15(7-7.5') and PWG-DW-2008-100(7-7.5').
- Results for acetone, 2-butanone, n-butylbenzene, isopropylbenzene, and 2-methylnaphthalene in PWG-DW-2008-34 (5.5-6').
- The result for vinyl chloride in DIFFW-01.

| Sample ID | Compound | Action Limit | Sample Conc. | C | Duplicate Conc. | RPD | Difference | Q | RL (mg/kg) |
|----------------------|----------|--------------|--------------|---|-----------------|-----|------------|---|------------|
| PWG.SB.2008.01@5-10' | Aluminum | 35 | 4700 | | 2900 | 47 | 1800 | J | 5.0 |
| PWG.SB.2008.01@5-10' | Arsenic | >±2XRL | 2.2 | | 1.2 | 59 | 1.0 | J | 0.5 |
| PWG.SB.2008.01@5-10' | Barium | 35 | 40 | | 20 | 67 | 20 | J | 0.5 |
| PWG.SB.2008.01@5-10' | Calcium | 35 | 1000 | | 500 | 67 | 500 | J | 5.0 |
| PWG.SB.2008.01@5-10' | Copper | 35 | 9.4 | | 5.6 | 51 | 3.8 | J | 0.50 |
| PWG.SB.2008.01@5-10' | Lead | 35 | 87 | | 30 | 97 | 57 | J | 2.5 |

| Sample ID | Compound | Action Limit | Sample Conc. | C | Duplicate Conc. | RPD | Difference | Q | RL (mg/kg) |
|------------------------|----------|--------------|--------------|---|-----------------|-----|------------|-------|------------|
| PWG.SB.2008.01@5-10' | Vanadium | 35 | 9.3 | | 6.3 | 38 | 3.0 | J | 0.5 |
| PWG.SB.2008.01@5-10' | Zinc | 35 | 58 | | 24 | 83 | 34 | J | 2.5 |
| PWG.SB.2008.01@5-10' | Mercury | >±2XRL | 0.10 | | 0.25 | 86 | -0.15 | J | 0.08 |
| PWG-DW-2008-34(5.5-6') | Silver | 35 | 4.4 | | 1.0 | 127 | 3.4 | J, UJ | 0.5 |

Based on poor reproducibility in the inorganic field duplicate pairs, the following results were qualified as estimated (J, UJ):

- Results for aluminum, arsenic, barium, calcium, copper, lead, vanadium, zinc, and mercury in PWG.SB.2008.01@5-10' and PWG.SB.2008.21@5-10'.
- The result for silver in PWG-DW-2008-34(5.5-6').

VIII. Performance Evaluation Samples (PES)/Accuracy Check

Zero blank PE samples commonly known as laboratory control samples or laboratory control sample duplicates (LCS/LCSD) were performed at the required frequency and results were provided on Form III-Like summaries for all analyses. Recoveries were within the laboratory-derived acceptance limits with exceptions as outlined in the table below:

It should be noted that the narrative for SDG No. L0813196 indicated that the RPD values in LCS/LCSD batch WG335356 were outside the QC limits for certain pesticides; however, the Form III summary indicates that the laboratory's limit was at 50% for these pesticides which would indicate that all pesticides RPDs were within the limits. Since all recoveries were within laboratory-derived limits and the sample was non-detect, no data was qualified on this basis.

| Sample ID | Compound | LCS %R | LCSD %R | % RPD | QC Limits | Action |
|---------------|--------------------|--------|---------|-------|-----------|--------|
| WG336983-2LCS | 2,4-dinitrotoluene | 107 | 106 | 1 | 28-89/50 | NAC |
| WG339098-2LCS | 2,4-dinitrotoluene | 119 | 115 | 3 | 24-96/30 | NAC |
| WG339098-2LCS | Pentachlorophenol | 104 | 102 | 2 | 9-103/30 | NAC |

NA=Not Applicable, NAC=No Action

Although, the recoveries for the SVOA compounds are outside the acceptance limits listed above, the limits were just marginally above the QC criteria and these compounds were not detected in the associated samples; therefore, no data was qualified on this basis.

ICP serial dilutions were performed on the same samples as the MS/MSD pairs. Percent difference (%D) values were less than the maximum acceptance limit of 15% for all target analytes in which the original concentration (in the undiluted sample) was greater than 50 times the MDL.

IX. Target Compound Identification

Reported target compounds were correctly identified with supporting spectra present for all field samples in this data set.

X. Compound Quantitation and Reported Quantitation Limits

Target compound concentrations and quantitation limits were appropriately reported on the Form I. Several samples were analyzed at a dilution due to the presence of hydrocarbons. Reporting limits were adjusted accordingly by the laboratory. The laboratory appropriately applied "J" qualifiers to the sample Form I's when the concentration of an analyte was less than the sample-specific reporting limit (RL). The validator did not remove these qualifiers.

Sample-specific results for all analytes may be found on the laboratory-generated Form Is for each sample and the laboratory generated Form Is have been annotated with the data validation qualifiers as defined in this report and provided in Attachment A.

XI. System Performance

The analytical systems appear to have been working well at the time of these analyses based on evaluation of the available raw data.

XII. Overall Evaluation of Data

Findings of the validation effort resulted in the following qualifications of sample results:

- Based on unacceptable %D values in the associated calibration standards, the following results were qualified as estimated (J, UJ):
 - Results for chloromethane, bromomethane, isopropylbenzene, 1,2,3-trichloropropane and naphthalene in PWG-VP-2008-04 (36-40') and PWG-VP-2008-02 (16-20').
 - Results for dichlorodifluoromethane, chloromethane, carbon disulfide, isopropylbenzene and p-diethylbenzene in PWG.GW.2008.04 and PWG.GW.2008.24.
 - Results for isophorone, 1,4-dichlorobenzene, 2,4-dinitrotoluene, 3-nitroaniline and 4-nitroaniline in PWG.SB.2008.01@5-10' and PWG.SB.2008.21@5-10'.
 - Results for dichlorodifluoromethane and 1,2,3-trichloropropane in PWG-DW-2008-15(7-7.5') and in PWG-DW-2008-100(7-7.5').

- Results for dichlorodifluoromethane, carbon disulfide, vinyl acetate, and 1,2,3-trichloropropane in PWG-DW-2008-34 (5.5-6').
- Results for dichlorodifluoromethane, chloromethane, bromomethane, and isopropyl benzene in DIFFW-01.
- Results for dichlorodifluoromethane, chloromethane, 2-butanone, acetone, and isopropylbenzene in DIFFW-04.
- Due to poor MS/MSD/DUP recoveries in SDG No. L0813344 for metals and mercury analyses, several compounds as outlined in the narrative exhibited recoveries outside the acceptance windows. The laboratory appropriately applied "N" and "*" qualifiers on the compounds that exceeded the criteria. As a result of the recovery failures, results flagged by the laboratory with an "N" or "*" were qualified as estimated (J, UJ) in samples PWG-DW-2008-15 (7-7.5') and PWG-DW-2008-100 (7-7.5'). The laboratory appropriately performed a post-digestion spike analyses and the post-digestion spike was acceptable.
- Due to poor MS/MSD/DUP recoveries in SDG No. L0813447 for metals and mercury analyses in SDG No. L0813447 for metals analyses, several compounds as outlined in the narrative exhibited recoveries outside the acceptance windows. The laboratory appropriately applied "N" qualifiers on the compounds that exceeded the criteria. As a result of the recovery failures, results flagged by the laboratory with an "N" were qualified as estimated (J, UJ) in sample PWG-DW-2008-34 (5.5-6').
- Based on poor reproducibility in the organic field duplicate pairs, the following results were qualified as estimated (J, UJ):
 - Results for 4,4'-DDT in PWG-SB-2008-01@5-10' and PWG-SB-2008-21@5-10'.
 - Results for cis-1,2-dichloroethene, trichloroethene, vinyl chloride, fluoranthene, pyrene in PWG-DW-2008-15(7-7.5') and PWG-DW-2008-100(7-7.5').
 - Results for acetone, 2-butanone, n-butylbenzene, isopropylbenzene, and 2-methylnaphthalene in PWG-DW-2008-34 (5.5-6').
 - The result for vinyl chloride in DIFFW-01.
- Based on poor reproducibility in the inorganic field duplicate pairs, the following results were qualified as estimated (J, UJ):
 - Results for aluminum, arsenic, barium, calcium, copper, lead, vanadium, zinc, and mercury in PWG.SB.2008.01@5-10' and in PWG.SB.2008.21@5-10'.
 - The result for silver in PWG-DW-2008-34(5.5-6').

Although acetone and methylene chloride were not detected above the reporting limit in any of the VOA method blanks, chromatographic peaks were observed in the raw data for these compounds in associated MBs. Therefore, the validator recommends caution in the use of these compounds in samples since they are common laboratory contaminants and the low concentrations observed in the soil samples may not be site related.

XIII. Documentation

The chain of custody records were present and accurately completed for all reported samples in this data set and the data package was complete with the following exceptions:

- The VOA instrument identifications on the forms were incorrect for SDG No. L0813196. The Form 5s within the data package reference the wrong instrument identification for the initial calibration sequence on instrument "Curly". Although the raw data was correct the forms are incorrect. Revisions were requested and an amended data package was received on 12/11/08.
- For SDG No. L0813196, the QC Batch reference for the PCBs samples that were extracted on 9/8/08, L0813196-5 and -20 appear as WG336109. However, the extraction batch sheet references the batch as WG335107 (page 2242). As a result, a complete resubmittal was received on 12/11/08 to update the data package accordingly.
- In SDG No. L0813196, the Form 8 is incorrect for the PCB batch and the second column is missing or the other is missing samples and QC samples. The laboratory submitted a correction to the data package for these forms on 12/11/08.
- The Form I was missing for the metals analysis of FB100308 in SDG No. L0814755. The laboratory submitted the data Form I upon request on 12/11/08.
- The Cleaning Canister certification was missing for the data package in SDG No. L0813541. The cleaning canister certification data package was submitted on 12/11/08 and should be amended to the data package L0813541.
- In SDG No. L0813196, no client identification was available on the summary Form on page 2839, and in SDG No. L0813344, no client identification was available on the summary Form. At the discretion of the data user this data form should be resubmitted for future reference.
- Improper edits were made on the COC records: any change in an entry should be made so as not to obscure the original entry, by the person making the change striking a single line through the entry and dating and initialing (signing) the change.

This validation report shall be considered part of the data package for all future distributions of the volatiles, semivolatiles, TPH DRO, Pesticides/PCBs, and metals analysis data.

ATTACHMENT A

ANALYSIS DATA SUMMARY SHEETS (Form I)

**SDG Nos. L0812845, L0812904, L0813196, L0813344, L0813447,
L0813541, L0814755, and L0814991**

**Volatiles, Semivolatiles, Total Petroleum Hydrocarbons (TPH) Diesel Range
Organics (DRO), Pesticides/Polychlorinated Biphenyls (PCBs) and Metals in Water and
Soil Samples, and Volatiles in Air Samples**

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PWG-VP-2008-04
(36-40')

Lab Name: Alpha Analytical Labs

SDG No.: L0812845

Matrix: (soil/water) WATER

Lab Sample ID: L0812845-02

Sample wt/vol: 10 (g/mL) ml

Lab File ID: 0904N05

Level: (low/med) LOW

Date Received: 08/29/08

%Solids: N/A

Date Analyzed: 09/04/08

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L | Q |
|-----------------|---------------------------|--|---|
| 75-09-2 | Methylene chloride | 5.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.75 | U |
| 67-66-3 | Chloroform | 0.75 | U |
| 56-23-5 | Carbon tetrachloride | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.8 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.75 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 2.5 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 563-58-6 | 1,1-Dichloropropene | 2.5 | U |
| 75-25-2 | Bromoform | 2.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 108-88-3 | Toluene | 0.75 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 74-87-3 | Chloromethane | 2.5 | U |
| 74-83-9 | Bromomethane | 1.0 | U |
| 75-01-4 | Vinyl chloride | 1.0 | U |
| 75-00-3 | Chloroethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.75 | U |
| 79-01-6 | Trichloroethene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 2.5 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 2.5 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 2.5 | U |
| 1634-04-4 | Methyl tert butyl ether | 1.0 | U |
| 106-42-3/108-38 | p/m-Xylene | 1.0 | U |
| 95-47-6 | o-Xylene | 1.0 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |

FORM I VOA-1

KBM
12/3/08

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PWG-VP-2008-04
(36-40')

Lab Name: Alpha Analytical Labs

SDG No.: L0812845

Matrix: (soil/water) WATER

Lab Sample ID: L0812845-02

Sample wt/vol: 10 (g/mL) ml

Lab File ID: 0904N05

Level: (low/med) LOW

Date Received: 08/29/08

%Solids: N/A

Date Analyzed: 09/04/08

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L | Q |
|----------|-----------------------------|--|-----|
| 74-95-3 | Dibromomethane | 5.0 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 5.0 | U J |
| 107-13-1 | Acrylonitrile | 5.0 | U |
| 100-42-5 | Styrene | 1.0 | U |
| 75-71-8 | Dichlorodifluoromethane | 5.0 | U |
| 67-64-1 | Acetone | 5.0 | U |
| 75-15-0 | Carbon disulfide | 5.0 | U |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 108-05-4 | Vinyl acetate | 5.0 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 5.0 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 2.5 | U |
| 594-20-7 | 2,2-Dichloropropane | 2.5 | U |
| 106-93-4 | 1,2-Dibromoethane | 2.0 | U |
| 142-28-9 | 1,3-Dichloropropane | 2.5 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.50 | U |
| 108-86-1 | Bromobenzene | 2.5 | U |
| 104-51-8 | n-Butylbenzene | 0.50 | U |
| 135-98-8 | sec-Butylbenzene | 0.50 | U |
| 98-06-6 | tert-Butylbenzene | 2.5 | U |
| 95-49-8 | o-Chlorotoluene | 2.5 | U |
| 106-43-4 | p-Chlorotoluene | 2.5 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 2.5 | U |
| 87-68-3 | Hexachlorobutadiene | 0.60 | U |
| 98-82-8 | Isopropylbenzene | 0.50 | U J |
| 99-87-6 | p-Isopropyltoluene | 0.50 | U |
| 91-20-3 | Naphthalene | 2.5 | U J |
| 103-65-1 | n-Propylbenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 2.5 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 2.5 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 2.5 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 2.5 | U |
| 105-05-5 | 1,4-Diethylbenzene | 2.0 | U |
| 622-96-8 | 4-Ethyltoluene | 2.0 | U |
| 95-93-2 | 1,2,4,5-Tetramethylbenzene | 2.0 | U |

FORM I VOA-1

KRM
12/3/08

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PWG-VP-2008-02
(16-20')

Lab Name: Alpha Analytical Labs

SDG No.: L0812904

Matrix: (soil/water) WATER

Lab Sample ID: L0812904-03

Sample wt/vol: 2 (g/mL) mL

Lab File ID: 0904N19

Level: (low/med) LOW

Date Received: 08/30/08

%Solids: N/A

Date Analyzed: 09/05/08

Dilution Factor: 5

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L | Q |
|-----------------|---------------------------|--|---|
| 75-09-2 | Methylene chloride | 25 | U |
| 75-34-3 | 1,1-Dichloroethane | 3.8 | U |
| 67-66-3 | Chloroform | 3.8 | U |
| 56-23-5 | Carbon tetrachloride | 2.5 | U |
| 78-87-5 | 1,2-Dichloropropane | 8.8 | U |
| 124-48-1 | Dibromochloromethane | 2.5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 3.8 | U |
| 127-18-4 | Tetrachloroethene | 210 | |
| 108-90-7 | Chlorobenzene | 2.5 | U |
| 75-69-4 | Trichlorofluoromethane | 12 | U |
| 107-06-2 | 1,2-Dichloroethane | 2.5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 2.5 | U |
| 75-27-4 | Bromodichloromethane | 2.5 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 2.5 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 2.5 | U |
| 563-58-6 | 1,1-Dichloropropene | 12 | U |
| 75-25-2 | Bromoform | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 2.5 | U |
| 71-43-2 | Benzene | 2.5 | U |
| 108-88-3 | Toluene | 3.8 | U |
| 100-41-4 | Ethylbenzene | 2.5 | U |
| 74-87-3 | Chloromethane | 12 | U |
| 74-83-9 | Bromomethane | 5.0 | U |
| 75-01-4 | Vinyl chloride | 100 | |
| 75-00-3 | Chloroethane | 5.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 2.5 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 7.9 | |
| 79-01-6 | Trichloroethene | 14 | |
| 95-50-1 | 1,2-Dichlorobenzene | 12 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 12 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 12 | U |
| 1634-04-4 | Methyl tert butyl ether | 5.0 | U |
| 106-42-3/108-38 | p/m-Xylene | 5.0 | U |
| 95-47-6 | o-Xylene | 5.0 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 500 | |

FORM I VOA-1

KZ
12/3/08

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PWG-VP-2008-02
(16-20')

Lab Name: Alpha Analytical Labs

SDG No.: L0812904

Matrix: (soil/water) WATER

Lab Sample ID: L0812904-03

Sample wt/vol: 2 (g/mL) ml

Lab File ID: 0904N19

Level: (low/med) LOW

Date Received: 08/30/08

%Solids: N/A

Date Analyzed: 09/05/08

Dilution Factor: 5

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L | Q |
|----------|-----------------------------|--|-----|
| 74-95-3 | Dibromomethane | 25 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 25 | U J |
| 107-13-1 | Acrylonitrile | 25 | U |
| 100-42-5 | Styrene | 5.0 | U |
| 75-71-8 | Dichlorodifluoromethane | 25 | U |
| 67-64-1 | Acetone | 28 | |
| 75-15-0 | Carbon disulfide | 25 | U |
| 78-93-3 | 2-Butanone | 25 | U |
| 108-05-4 | Vinyl acetate | 25 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 25 | U |
| 591-78-6 | 2-Hexanone | 25 | U |
| 74-97-5 | Bromochloromethane | 12 | U |
| 594-20-7 | 2,2-Dichloropropane | 12 | U |
| 106-93-4 | 1,2-Dibromoethane | 10 | U |
| 142-28-9 | 1,3-Dichloropropane | 12 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 2.5 | U |
| 108-86-1 | Bromobenzene | 12 | U |
| 104-51-8 | n-Butylbenzene | 2.5 | U |
| 135-98-8 | sec-Butylbenzene | 2.5 | U |
| 98-06-6 | tert-Butylbenzene | 12 | U |
| 95-49-8 | o-Chlorotoluene | 12 | U |
| 106-43-4 | p-Chlorotoluene | 12 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 12 | U |
| 87-68-3 | Hexachlorobutadiene | 3.0 | U |
| 98-82-8 | Isopropylbenzene | 2.5 | U J |
| 99-87-6 | p-Isopropyltoluene | 2.5 | U |
| 91-20-3 | Naphthalene | 12 | U J |
| 103-65-1 | n-Propylbenzene | 2.5 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 12 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 12 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 12 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 12 | U |
| 105-05-5 | 1,4-Diethylbenzene | 10 | U |
| 622-96-8 | 4-Ethyltoluene | 10 | U |
| 95-93-2 | 1,2,4,5-Tetramethylbenzene | 10 | U |

FORM I VOA-1

KBW
12/3/08

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PWG.GW.2008.04

Lab Name: Alpha Analytical Labs

SDG No.: L0813196

Matrix: (soil/water) WATER

Lab Sample ID: L0813196-11

Sample wt/vol: 10 (g/mL) ml

Lab File ID: 0909N09

Level: (low/med) LOW

Date Received: 09/05/08

%Solids: N/A

Date Analyzed: 09/09/08

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | |
|-----------------|---------------------------|----------------------|-----|
| | | (ug/L or ug/Kg) ug/L | Q |
| 75-09-2 | Methylene chloride | 5.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.75 | U |
| 67-66-3 | Chloroform | 0.75 | U |
| 56-23-5 | Carbon tetrachloride | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.8 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.75 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 2.5 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 563-58-6 | 1,1-Dichloropropene | 2.5 | U |
| 75-25-2 | Bromoform | 2.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 108-88-3 | Toluene | 0.75 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 74-87-3 | Chloromethane | 2.5 | U J |
| 74-83-9 | Bromomethane | 1.0 | U |
| 75-01-4 | Vinyl chloride | 1.0 | U |
| 75-00-3 | Chloroethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.75 | U |
| 79-01-6 | Trichloroethene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 2.5 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 2.5 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 2.5 | U |
| 1634-04-4 | Methyl tert butyl ether | 1.0 | U |
| 106-42-3/108-38 | p/m-Xylene | 1.0 | U |
| 95-47-6 | o-Xylene | 1.0 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |

FORM I VOA-1

KRM
12/4/08

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PWG.GW.2008.04

Lab Name: Alpha Analytical Labs

SDG No.: L0813196

Matrix: (soil/water) WATER

Lab Sample ID: L0813196-11

Sample wt/vol: 10 (g/mL) ml

Lab File ID: 0909N09

Level: (low/med) LOW

Date Received: 09/05/08

%Solids: N/A

Date Analyzed: 09/09/08

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L | Q |
|----------|-----------------------------|--|-----|
| 74-95-3 | Dibromomethane | 5.0 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 5.0 | U |
| 107-13-1 | Acrylonitrile | 5.0 | U |
| 100-42-5 | Styrene | 1.0 | U |
| 75-71-8 | Dichlorodifluoromethane | 5.0 | U J |
| 67-64-1 | Acetone | 5.0 | U J |
| 75-15-0 | Carbon disulfide | 5.0 | U J |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 108-05-4 | Vinyl acetate | 5.0 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 5.0 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 2.5 | U |
| 594-20-7 | 2,2-Dichloropropane | 2.5 | U |
| 106-93-4 | 1,2-Dibromoethane | 2.0 | U |
| 142-28-9 | 1,3-Dichloropropane | 2.5 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.50 | U |
| 108-86-1 | Bromobenzene | 2.5 | U |
| 104-51-8 | n-Butylbenzene | 0.50 | U |
| 135-98-8 | sec-Butylbenzene | 0.50 | U |
| 98-06-6 | tert-Butylbenzene | 2.5 | U |
| 95-49-8 | o-Chlorotoluene | 2.5 | U |
| 106-43-4 | p-Chlorotoluene | 2.5 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 2.5 | U |
| 87-68-3 | Hexachlorobutadiene | 0.60 | U |
| 98-82-8 | Isopropylbenzene | 0.50 | U J |
| 99-87-6 | p-Isopropyltoluene | 0.50 | U |
| 91-20-3 | Naphthalene | 2.5 | U |
| 103-65-1 | n-Propylbenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 2.5 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 2.5 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 2.5 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 2.5 | U |
| 105-05-5 | 1,4-Diethylbenzene | 2.0 | U J |
| 622-96-8 | 4-Ethyltoluene | 2.0 | U |
| 95-93-2 | 1,2,4,5-Tetramethylbenzene | 2.0 | U |

FORM I VOA-1

Kan
12/4/08

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PWG.GW.2008.24

Lab Name: Alpha Analytical Labs

SDG No.: L0813196

Matrix: (soil/water) WATER

Lab Sample ID: L0813196-12

Sample wt/vol: 10 (g/mL) ml

Lab File ID: 0909N10

Level: (low/med) LOW

Date Received: 09/05/08

%Solids: N/A

Date Analyzed: 09/09/08

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L | Q |
|-----------------|---------------------------|--|---|
| 75-09-2 | Methylene chloride | 5.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.75 | U |
| 67-66-3 | Chloroform | 0.75 | U |
| 56-23-5 | Carbon tetrachloride | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.8 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.75 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 2.5 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 563-58-6 | 1,1-Dichloropropene | 2.5 | U |
| 75-25-2 | Bromoform | 2.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 108-88-3 | Toluene | 0.75 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 74-87-3 | Chloromethane | 2.5 | U |
| 74-83-9 | Bromomethane | 1.0 | U |
| 75-01-4 | Vinyl chloride | 1.0 | U |
| 75-00-3 | Chloroethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.75 | U |
| 79-01-6 | Trichloroethene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 2.5 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 2.5 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 2.5 | U |
| 1634-04-4 | Methyl tert butyl ether | 1.0 | U |
| 106-42-3/108-38 | p/m-Xylene | 1.0 | U |
| 95-47-6 | o-Xylene | 1.0 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |

FORM I VOA-1

Handwritten: KRW
12/4/08

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PWG.GW.2008.24

Lab Name: Alpha Analytical Labs

SDG No.: L0813196

Matrix: (soil/water) WATER

Lab Sample ID: L0813196-12

Sample wt/vol: 10 (g/mL) ml

Lab File ID: 0909N10

Level: (low/med) LOW

Date Received: 09/05/08

%Solids: N/A

Date Analyzed: 09/09/08

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L | Q |
|----------|-----------------------------|--|-----|
| 74-95-3 | Dibromomethane | 5.0 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 5.0 | U |
| 107-13-1 | Acrylonitrile | 5.0 | U |
| 100-42-5 | Styrene | 1.0 | U |
| 75-71-8 | Dichlorodifluoromethane | 5.0 | U J |
| 67-64-1 | Acetone | 5.0 | U |
| 75-15-0 | Carbon disulfide | 5.0 | U J |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 108-05-4 | Vinyl acetate | 5.0 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 5.0 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 2.5 | U |
| 594-20-7 | 2,2-Dichloropropane | 2.5 | U |
| 106-93-4 | 1,2-Dibromoethane | 2.0 | U |
| 142-28-9 | 1,3-Dichloropropane | 2.5 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.50 | U |
| 108-86-1 | Bromobenzene | 2.5 | U |
| 104-51-8 | n-Butylbenzene | 0.50 | U |
| 135-98-8 | sec-Butylbenzene | 0.50 | U |
| 98-06-6 | tert-Butylbenzene | 2.5 | U |
| 95-49-8 | o-Chlorotoluene | 2.5 | U |
| 106-43-4 | p-Chlorotoluene | 2.5 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 2.5 | U |
| 87-68-3 | Hexachlorobutadiene | 0.60 | U |
| 98-82-8 | Isopropylbenzene | 0.50 | U J |
| 99-87-6 | p-Isopropyltoluene | 0.50 | U |
| 91-20-3 | Naphthalene | 2.5 | U |
| 103-65-1 | n-Propylbenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 2.5 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 2.5 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 2.5 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 2.5 | U |
| 105-05-5 | 1,4-Diethylbenzene | 2.0 | U J |
| 622-96-8 | 4-Ethyltoluene | 2.0 | U |
| 95-93-2 | 1,2,4,5-Tetramethylbenzene | 2.0 | U |

FORM I VOA-1

KBN
12/4/08

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PWG.SB.2008.01@
5-10'

Lab Name: Alpha Analytical Labs

SDG No.: L0813196

Matrix: (soil/water) SOIL

Lab Sample ID: L0813196-20

Sample wt/vol: 2 (g/mL) g

Lab File ID: 0906A12

Level: (low/med) LOW

Date Received: 09/05/08

%Solids: 81

Date Analyzed: 09/06/08

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | |
|------------------|---------------------------|----------------------|---------|
| | | (ug/L or ug/Kg) | ug/Kg Q |
| 75-09-2----- | Methylene chloride | 31 | U |
| 75-34-3----- | 1,1-Dichloroethane | 4.6 | U |
| 67-66-3----- | Chloroform | 4.6 | U |
| 56-23-5----- | Carbon tetrachloride | 3.1 | U |
| 78-87-5----- | 1,2-Dichloropropane | 11 | U |
| 124-48-1----- | Dibromochloromethane | 3.1 | U |
| 79-00-5----- | 1,1,2-Trichloroethane | 4.6 | U |
| 127-18-4----- | Tetrachloroethene | 3.1 | U |
| 108-90-7----- | Chlorobenzene | 3.1 | U |
| 75-69-4----- | Trichlorofluoromethane | 15 | U |
| 107-06-2----- | 1,2-Dichloroethane | 3.1 | U |
| 71-55-6----- | 1,1,1-Trichloroethane | 3.1 | U |
| 75-27-4----- | Bromodichloromethane | 3.1 | U |
| 10061-02-6----- | trans-1,3-Dichloropropene | 3.1 | U |
| 10061-01-5----- | cis-1,3-Dichloropropene | 3.1 | U |
| 563-58-6----- | 1,1-Dichloropropene | 15 | U |
| 75-25-2----- | Bromoform | 12 | U |
| 79-34-5----- | 1,1,2,2-Tetrachloroethane | 3.1 | U |
| 71-43-2----- | Benzene | 3.1 | U |
| 108-88-3----- | Toluene | 4.6 | U |
| 100-41-4----- | Ethylbenzene | 3.1 | U |
| 74-87-3----- | Chloromethane | 15 | U |
| 74-83-9----- | Bromomethane | 6.2 | U |
| 75-01-4----- | Vinyl chloride | 6.2 | U |
| 75-00-3----- | Chloroethane | 6.2 | U |
| 75-35-4----- | 1,1-Dichloroethene | 3.1 | U |
| 156-60-5----- | trans-1,2-Dichloroethene | 4.6 | U |
| 79-01-6----- | Trichloroethene | 3.1 | U |
| 95-50-1----- | 1,2-Dichlorobenzene | 15 | U |
| 541-73-1----- | 1,3-Dichlorobenzene | 15 | U |
| 106-46-7----- | 1,4-Dichlorobenzene | 15 | U |
| 1634-04-4----- | Methyl tert butyl ether | 6.2 | U |
| 106-42-3/108-38- | p/m-Xylene | 6.2 | U |
| 95-47-6----- | o-Xylene | 6.2 | U |
| 156-59-2----- | cis-1,2-Dichloroethene | 3.1 | U |

FORM I VOA-1

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PWG.SB.2008.01@
5-10'

Lab Name: Alpha Analytical Labs

SDG No.: L0813196

Matrix: (soil/water) SOIL

Lab Sample ID: L0813196-20

Sample wt/vol: 2 (g/mL) g

Lab File ID: 0906A12

Level: (low/med) LOW

Date Received: 09/05/08

%Solids: 81

Date Analyzed: 09/06/08

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | |
|----------|-----------------------------|----------------------|---------|
| | | (ug/L or ug/Kg) | ug/Kg Q |
| 74-95-3 | Dibromomethane | 31 | U |
| 100-42-5 | Styrene | 6.2 | U |
| 75-71-8 | Dichlorodifluoromethane | 31 | U |
| 67-64-1 | Acetone | 31 | U |
| 75-15-0 | Carbon disulfide | 31 | U |
| 78-93-3 | 2-Butanone | 31 | U |
| 108-05-4 | Vinyl acetate | 31 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 31 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 31 | U |
| 591-78-6 | 2-Hexanone | 31 | U |
| 74-97-5 | Bromochloromethane | 15 | U |
| 594-20-7 | 2,2-Dichloropropane | 15 | U |
| 106-93-4 | 1,2-Dibromoethane | 12 | U |
| 142-28-9 | 1,3-Dichloropropane | 15 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 3.1 | U |
| 108-86-1 | Bromobenzene | 15 | U |
| 104-51-8 | n-Butylbenzene | 3.1 | U |
| 135-98-8 | sec-Butylbenzene | 3.1 | U |
| 98-06-6 | tert-Butylbenzene | 15 | U |
| 95-49-8 | o-Chlorotoluene | 15 | U |
| 106-43-4 | p-Chlorotoluene | 15 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 15 | U |
| 87-68-3 | Hexachlorobutadiene | 15 | U |
| 98-82-8 | Isopropylbenzene | 3.1 | U |
| 99-87-6 | p-Isopropyltoluene | 3.1 | U |
| 91-20-3 | Naphthalene | 15 | U |
| 107-13-1 | Acrylonitrile | 31 | U |
| 103-65-1 | n-Propylbenzene | 3.1 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 15 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 15 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 15 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 15 | U |
| 105-05-5 | 1,4-Diethylbenzene | 12 | U |
| 622-96-8 | 4-Ethyltoluene | 12 | U |
| 95-93-2 | 1,2,4,5-Tetramethylbenzene | 12 | U |

FORM I VOA-1

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PWG.SB.2008.21@
5-10'

Lab Name: Alpha Analytical Labs

SDG No.: L0813196

Matrix: (soil/water) SOIL

Lab Sample ID: L0813196-21

Sample wt/vol: 2 (g/mL) g

Lab File ID: 0908A07

Level: (low/med) LOW

Date Received: 09/05/08

%Solids: 96

Date Analyzed: 09/08/08

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | |
|-----------------|---------------------------|----------------------|---------|
| | | (ug/L or ug/Kg) | ug/Kg Q |
| 75-09-2 | Methylene chloride | 26 | U |
| 75-34-3 | 1,1-Dichloroethane | 3.9 | U |
| 67-66-3 | Chloroform | 3.9 | U |
| 56-23-5 | Carbon tetrachloride | 2.6 | U |
| 78-87-5 | 1,2-Dichloropropane | 9.1 | U |
| 124-48-1 | Dibromochloromethane | 2.6 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 3.9 | U |
| 127-18-4 | Tetrachloroethene | 2.6 | U |
| 108-90-7 | Chlorobenzene | 2.6 | U |
| 75-69-4 | Trichlorofluoromethane | 13 | U |
| 107-06-2 | 1,2-Dichloroethane | 2.6 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 2.6 | U |
| 75-27-4 | Bromodichloromethane | 2.6 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 2.6 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 2.6 | U |
| 563-58-6 | 1,1-Dichloropropene | 13 | U |
| 75-25-2 | Bromoform | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 2.6 | U |
| 71-43-2 | Benzene | 2.6 | U |
| 108-88-3 | Toluene | 3.9 | U |
| 100-41-4 | Ethylbenzene | 2.6 | U |
| 74-87-3 | Chloromethane | 13 | U |
| 74-83-9 | Bromomethane | 5.2 | U |
| 75-01-4 | Vinyl chloride | 5.2 | U |
| 75-00-3 | Chloroethane | 5.2 | U |
| 75-35-4 | 1,1-Dichloroethene | 2.6 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 3.9 | U |
| 79-01-6 | Trichloroethene | 2.6 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 13 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 13 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 13 | U |
| 1634-04-4 | Methyl tert butyl ether | 5.2 | U |
| 106-42-3/108-38 | p/m-Xylene | 5.2 | U |
| 95-47-6 | o-Xylene | 5.2 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 2.6 | U |

FORM I VOA-1

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PWG.SB.2008.21@
5-10'

Lab Name: Alpha Analytical Labs

SDG No.: L0813196

Matrix: (soil/water) SOIL

Lab Sample ID: L0813196-21

Sample wt/vol: 2 (g/mL) g

Lab File ID: 0908A07

Level: (low/med) LOW

Date Received: 09/05/08

%Solids: 96

Date Analyzed: 09/08/08

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | |
|----------|-----------------------------|----------------------|---------|
| | | (ug/L or ug/Kg) | ug/Kg Q |
| 74-95-3 | Dibromomethane | 26 | U |
| 100-42-5 | Styrene | 5.2 | U |
| 75-71-8 | Dichlorodifluoromethane | 26 | U |
| 67-64-1 | Acetone | 26 | U |
| 75-15-0 | Carbon disulfide | 26 | U |
| 78-93-3 | 2-Butanone | 26 | U |
| 108-05-4 | Vinyl acetate | 26 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 26 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 26 | U |
| 591-78-6 | 2-Hexanone | 26 | U |
| 74-97-5 | Bromochloromethane | 13 | U |
| 594-20-7 | 2,2-Dichloropropane | 13 | U |
| 106-93-4 | 1,2-Dibromoethane | 10 | U |
| 142-28-9 | 1,3-Dichloropropane | 13 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 2.6 | U |
| 108-86-1 | Bromobenzene | 13 | U |
| 104-51-8 | n-Butylbenzene | 2.6 | U |
| 135-98-8 | sec-Butylbenzene | 2.6 | U |
| 98-06-6 | tert-Butylbenzene | 13 | U |
| 95-49-8 | o-Chlorotoluene | 13 | U |
| 106-43-4 | p-Chlorotoluene | 13 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 13 | U |
| 87-68-3 | Hexachlorobutadiene | 13 | U |
| 98-82-8 | Isopropylbenzene | 2.6 | U |
| 99-87-6 | p-Isopropyltoluene | 2.6 | U |
| 91-20-3 | Naphthalene | 13 | U |
| 107-13-1 | Acrylonitrile | 26 | U |
| 103-65-1 | n-Propylbenzene | 2.6 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 13 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 13 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 13 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 13 | U |
| 105-05-5 | 1,4-Diethylbenzene | 10 | U |
| 622-96-8 | 4-Ethyltoluene | 10 | U |
| 95-93-2 | 1,2,4,5-Tetramethylbenzene | 10 | U |

FORM I VOA-1

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PWG.SB.2008.12@
5-10'

Lab Name: Alpha Analytical Labs

SDG No.: L0813196

Matrix: (soil/water) SOIL

Lab Sample ID: L0813196-36

Sample wt/vol: 2 (g/mL) g

Lab File ID: 0908A14

Level: (low/med) LOW

Date Received: 09/05/08

%Solids: 88

Date Analyzed: 09/08/08

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|-----------------|---------------------------|---|---|
| 75-09-2 | Methylene chloride | 28 | U |
| 75-34-3 | 1,1-Dichloroethane | 4.3 | U |
| 67-66-3 | Chloroform | 4.3 | U |
| 56-23-5 | Carbon tetrachloride | 2.8 | U |
| 78-87-5 | 1,2-Dichloropropane | 9.9 | U |
| 124-48-1 | Dibromochloromethane | 2.8 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 4.3 | U |
| 127-18-4 | Tetrachloroethene | 2.8 | U |
| 108-90-7 | Chlorobenzene | 2.8 | U |
| 75-69-4 | Trichlorofluoromethane | 14 | U |
| 107-06-2 | 1,2-Dichloroethane | 2.8 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 2.8 | U |
| 75-27-4 | Bromodichloromethane | 2.8 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 2.8 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 2.8 | U |
| 563-58-6 | 1,1-Dichloropropene | 14 | U |
| 75-25-2 | Bromoform | 11 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 2.8 | U |
| 71-43-2 | Benzene | 2.8 | U |
| 108-88-3 | Toluene | 4.3 | U |
| 100-41-4 | Ethylbenzene | 2.8 | U |
| 74-87-3 | Chloromethane | 14 | U |
| 74-83-9 | Bromomethane | 5.7 | U |
| 75-01-4 | Vinyl chloride | 5.7 | U |
| 75-00-3 | Chloroethane | 5.7 | U |
| 75-35-4 | 1,1-Dichloroethene | 2.8 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 4.3 | U |
| 79-01-6 | Trichloroethene | 2.8 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 14 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 14 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 14 | U |
| 1634-04-4 | Methyl tert butyl ether | 5.7 | U |
| 106-42-3/108-38 | p/m-Xylene | 5.7 | U |
| 95-47-6 | o-Xylene | 5.7 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 2.8 | U |

FORM I VOA-1

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PWG.SB.2008.12@
5-10'

Lab Name: Alpha Analytical Labs

SDG No.: L0813196

Matrix: (soil/water) SOIL

Lab Sample ID: L0813196-36

Sample wt/vol: 2 (g/mL) g

Lab File ID: 0908A14

Level: (low/med) LOW

Date Received: 09/05/08

%Solids: 88

Date Analyzed: 09/08/08

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | |
|----------|-----------------------------|----------------------|---------|
| | | (ug/L or ug/Kg) | ug/Kg Q |
| 74-95-3 | Dibromomethane | 28 | U |
| 100-42-5 | Styrene | 5.7 | U |
| 75-71-8 | Dichlorodifluoromethane | 28 | U |
| 67-64-1 | Acetone | 28 | U |
| 75-15-0 | Carbon disulfide | 28 | U |
| 78-93-3 | 2-Butanone | 28 | U |
| 108-05-4 | Vinyl acetate | 28 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 28 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 28 | U |
| 591-78-6 | 2-Hexanone | 28 | U |
| 74-97-5 | Bromochloromethane | 14 | U |
| 594-20-7 | 2,2-Dichloropropane | 14 | U |
| 106-93-4 | 1,2-Dibromoethane | 11 | U |
| 142-28-9 | 1,3-Dichloropropane | 14 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 2.8 | U |
| 108-86-1 | Bromobenzene | 14 | U |
| 104-51-8 | n-Butylbenzene | 2.8 | U |
| 135-98-8 | sec-Butylbenzene | 2.8 | U |
| 98-06-6 | tert-Butylbenzene | 14 | U |
| 95-49-8 | o-Chlorotoluene | 14 | U |
| 106-43-4 | p-Chlorotoluene | 14 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 14 | U |
| 87-68-3 | Hexachlorobutadiene | 14 | U |
| 98-82-8 | Isopropylbenzene | 2.8 | U |
| 99-87-6 | p-Isopropyltoluene | 2.8 | U |
| 91-20-3 | Naphthalene | 14 | U |
| 107-13-1 | Acrylonitrile | 28 | U |
| 103-65-1 | n-Propylbenzene | 2.8 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 14 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 14 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 14 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 14 | U |
| 105-05-5 | 1,4-Diethylbenzene | 11 | U |
| 622-96-8 | 4-Ethyltoluene | 11 | U |
| 95-93-2 | 1,2,4,5-Tetramethylbenzene | 11 | U |

FORM I VOA-1

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PWG.SB.2008.22@
5-10'

Lab Name: Alpha Analytical Labs

SDG No.: L0813196

Matrix: (soil/water) SOIL

Lab Sample ID: L0813196-37

Sample wt/vol: 2 (g/mL) g

Lab File ID: 0908A15

Level: (low/med) LOW

Date Received: 09/05/08

%Solids: 93

Date Analyzed: 09/08/08

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | |
|-----------------|---------------------------|----------------------|---------|
| | | (ug/L or ug/Kg) | ug/Kg Q |
| 75-09-2 | Methylene chloride | 27 | U |
| 75-34-3 | 1,1-Dichloroethane | 4.0 | U |
| 67-66-3 | Chloroform | 4.0 | U |
| 56-23-5 | Carbon tetrachloride | 2.7 | U |
| 78-87-5 | 1,2-Dichloropropane | 9.4 | U |
| 124-48-1 | Dibromochloromethane | 2.7 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 4.0 | U |
| 127-18-4 | Tetrachloroethene | 2.7 | U |
| 108-90-7 | Chlorobenzene | 2.7 | U |
| 75-69-4 | Trichlorofluoromethane | 13 | U |
| 107-06-2 | 1,2-Dichloroethane | 2.7 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 2.7 | U |
| 75-27-4 | Bromodichloromethane | 2.7 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 2.7 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 2.7 | U |
| 563-58-6 | 1,1-Dichloropropene | 13 | U |
| 75-25-2 | Bromoform | 11 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 2.7 | U |
| 71-43-2 | Benzene | 2.7 | U |
| 108-88-3 | Toluene | 4.0 | U |
| 100-41-4 | Ethylbenzene | 2.7 | U |
| 74-87-3 | Chloromethane | 13 | U |
| 74-83-9 | Bromomethane | 5.4 | U |
| 75-01-4 | Vinyl chloride | 5.4 | U |
| 75-00-3 | Chloroethane | 5.4 | U |
| 75-35-4 | 1,1-Dichloroethene | 2.7 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 4.0 | U |
| 79-01-6 | Trichloroethene | 2.7 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 13 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 13 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 13 | U |
| 1634-04-4 | Methyl tert butyl ether | 5.4 | U |
| 106-42-3/108-38 | p/m-Xylene | 5.4 | U |
| 95-47-6 | o-Xylene | 5.4 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 2.7 | U |

FORM I VOA-1

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PWG.SB.2008.22@
5-10'

Lab Name: Alpha Analytical Labs

SDG No.: L0813196

Matrix: (soil/water) SOIL

Lab Sample ID: L0813196-37

Sample wt/vol: 2 (g/mL) g

Lab File ID: 0908A15

Level: (low/med) LOW

Date Received: 09/05/08

%Solids: 93

Date Analyzed: 09/08/08

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | |
|----------|-----------------------------|----------------------|---------|
| | | (ug/L or ug/Kg) | ug/Kg Q |
| 74-95-3 | Dibromomethane | 27 | U |
| 100-42-5 | Styrene | 5.4 | U |
| 75-71-8 | Dichlorodifluoromethane | 27 | U |
| 67-64-1 | Acetone | 27 | U |
| 75-15-0 | Carbon disulfide | 27 | U |
| 78-93-3 | 2-Butanone | 27 | U |
| 108-05-4 | Vinyl acetate | 27 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 27 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 27 | U |
| 591-78-6 | 2-Hexanone | 27 | U |
| 74-97-5 | Bromochloromethane | 13 | U |
| 594-20-7 | 2,2-Dichloropropane | 13 | U |
| 106-93-4 | 1,2-Dibromoethane | 11 | U |
| 142-28-9 | 1,3-Dichloropropane | 13 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 2.7 | U |
| 108-86-1 | Bromobenzene | 13 | U |
| 104-51-8 | n-Butylbenzene | 2.7 | U |
| 135-98-8 | sec-Butylbenzene | 2.7 | U |
| 98-06-6 | tert-Butylbenzene | 13 | U |
| 95-49-8 | o-Chlorotoluene | 13 | U |
| 106-43-4 | p-Chlorotoluene | 13 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 13 | U |
| 87-68-3 | Hexachlorobutadiene | 13 | U |
| 98-82-8 | Isopropylbenzene | 2.7 | U |
| 99-87-6 | p-Isopropyltoluene | 2.7 | U |
| 91-20-3 | Naphthalene | 13 | U |
| 107-13-1 | Acrylonitrile | 27 | U |
| 103-65-1 | n-Propylbenzene | 2.7 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 13 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 13 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 13 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 13 | U |
| 105-05-5 | 1,4-Diethylbenzene | 11 | U |
| 622-96-8 | 4-Ethyltoluene | 11 | U |
| 95-93-2 | 1,2,4,5-Tetramethylbenzene | 11 | U |

FORM I VOA-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PWG.SB.2008.01@
5-10'

Lab Name: Alpha Analytical Labs

SDG No.: L0813196

Matrix: (soil/water) SOIL

Lab Sample ID: L0813196-20

Sample wt/vol: 15 (g/mL) g

Lab File ID: 13196-20

Level: (low/med) LOW

Date Received: 09/05/08

% Solids: 81

Date Extracted: 06-SEP-08

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 09/10/08

Injection Volume: 1 (uL)

Dilution Factor: 1

GPC Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | |
|-----------|---------------------------------|---|-----|
| 83-32-9 | Acenaphthene | 410 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 410 | U |
| 118-74-1 | Hexachlorobenzene | 410 | U |
| 111-44-4 | Bis(2-chloroethyl) ether | 410 | U |
| 91-58-7 | 2-Chloronaphthalene | 490 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 410 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 410 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 410 | U J |
| 91-94-1 | 3,3'-Dichlorobenzidine | 820 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 410 | U J |
| 606-20-2 | 2,6-Dinitrotoluene | 410 | U |
| 206-44-0 | Fluoranthene | 410 | U |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 410 | U |
| 101-55-3 | 4-Bromophenyl phenyl ether | 410 | U |
| 108-60-1 | Bis(2-chloroisopropyl) ether | 410 | U |
| 111-91-1 | Bis(2-chloroethoxy) methane | 410 | U |
| 87-68-3 | Hexachlorobutadiene | 820 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 820 | U |
| 67-72-1 | Hexachloroethane | 410 | U |
| 78-59-1 | Isophorone | 410 | U J |
| 91-20-3 | Naphthalene | 410 | U |
| 98-95-3 | Nitrobenzene | 410 | U |
| 86-30-6 | NitrosoDiPhenylAmine (NDPA) /DP | 1200 | U |
| 621-64-7 | n-Nitrosodi-n-propylamine | 410 | U |
| 117-81-7 | Bis(2-Ethylhexyl) phthalate | 820 | U |
| 85-68-7 | Butyl benzyl phthalate | 410 | U |
| 84-74-2 | Di-n-butylphthalate | 410 | U |
| 117-84-0 | Di-n-octylphthalate | 410 | U |
| 84-66-2 | Diethyl phthalate | 410 | U |
| 131-11-3 | Dimethyl phthalate | 410 | U |
| 56-55-3 | Benzo(a)anthracene | 410 | U |
| 50-32-8 | Benzo(a)pyrene | 410 | U |
| 205-99-2 | Benzo(b)fluoranthene | 410 | U |
| 207-08-9 | Benzo(k)fluoranthene | 410 | U |

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PWG.SB.2008.01@
5-10'

Lab Name: Alpha Analytical Labs

SDG No.: L0813196

Matrix: (soil/water) SOIL

Lab Sample ID: L0813196-20

Sample wt/vol: 15 (g/mL) g

Lab File ID: 13196-20

Level: (low/med) LOW

Date Received: 09/05/08

% Solids: 81

Date Extracted: 06-SEP-08

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 09/10/08

Injection Volume: 1 (uL)

Dilution Factor: 1

GPC Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | |
|----------|------------------------------------|---|---|
| 218-01-9 | -----Chrysene | 410 | U |
| 208-96-8 | -----Acenaphthylene | 410 | U |
| 120-12-7 | -----Anthracene | 410 | U |
| 191-24-2 | -----Benzo(ghi)perylene | 410 | U |
| 86-73-7 | -----Fluorene | 410 | U |
| 85-01-8 | -----Phenanthrene | 410 | U |
| 53-70-3 | -----Dibenzo(a,h)anthracene | 410 | U |
| 193-39-5 | -----Indeno(1,2,3-cd)Pyrene | 410 | U |
| 129-00-0 | -----Pyrene | 410 | U |
| 92-52-4 | -----Biphenyl | 410 | U |
| 106-47-8 | -----4-Chloroaniline | 410 | U |
| 88-74-4 | -----2-Nitroaniline | 410 | U |
| 99-09-2 | -----3-Nitroaniline | 410 | U |
| 100-01-6 | -----4-Nitroaniline | 580 | U |
| 132-64-9 | -----Dibenzofuran | 410 | U |
| 91-57-6 | -----2-Methylnaphthalene | 410 | U |
| 95-94-3 | -----1,2,4,5-Tetrachlorobenzene | 1600 | U |
| 98-86-2 | -----Acetophenone | 1600 | U |
| 88-06-2 | -----2,4,6-Trichlorophenol | 410 | U |
| 59-50-7 | -----P-Chloro-M-Cresol | 410 | U |
| 95-57-8 | -----2-Chlorophenol | 490 | U |
| 120-83-2 | -----2,4-Dichlorophenol | 820 | U |
| 105-67-9 | -----2,4-Dimethylphenol | 410 | U |
| 88-75-5 | -----2-Nitrophenol | 1600 | U |
| 100-02-7 | -----4-Nitrophenol | 820 | U |
| 51-28-5 | -----2,4-Dinitrophenol | 1600 | U |
| 534-52-1 | -----4,6-Dinitro-o-cresol | 1600 | U |
| 87-86-5 | -----Pentachlorophenol | 1600 | U |
| 108-95-2 | -----Phenol | 580 | U |
| 95-48-7 | -----2-Methylphenol | 490 | U |
| 108-39-4 | -----3-Methylphenol/4-Methylphenol | 490 | U |
| 95-95-4 | -----2,4,5-Trichlorophenol | 410 | U |
| 65-85-0 | -----Benzoic Acid | 4100 | U |
| 100-51-6 | -----Benzyl Alcohol | 820 | U |

FORM I SV-2

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

| |
|--------------------------|
| PWG.SB.2008.01@ 5-10' |
|--------------------------|

Lab Name: Alpha Analytical Labs

SDG No.: L0813196

Matrix: (soil/water) SOIL

Lab Sample ID: L0813196-20

Sample wt/vol: 15 (g/mL) g

Lab File ID: 13196-20

Level: (low/med) LOW

Date Received: 09/05/08

% Solids: 81

Date Extracted: 06-SEP-08

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 09/10/08

Injection Volume: 1 (uL)

Dilution Factor: 1

GPC Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg |
|---------|----------|---|
|---------|----------|---|

| | | |
|-----------------------|-----|---|
| 86-74-8-----Carbazole | 410 | U |
|-----------------------|-----|---|

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PWG.SB.2008.21@
5-10'

Lab Name: Alpha Analytical Labs

SDG No.: L0813196

Matrix: (soil/water) SOIL

Lab Sample ID: L0813196-21

Sample wt/vol: 15 (g/mL) g

Lab File ID: 13196-21

Level: (low/med) LOW

Date Received: 09/05/08

% Solids: 96

Date Extracted: 06-SEP-08

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 09/10/08

Injection Volume: 1 (uL)

Dilution Factor: 1

GPC Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | |
|-----------|----------------------------------|---|-----|
| 83-32-9 | Acenaphthene | 350 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 350 | U |
| 118-74-1 | Hexachlorobenzene | 350 | U |
| 111-44-4 | Bis(2-chloroethyl) ether | 350 | U |
| 91-58-7 | 2-Chloronaphthalene | 420 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 350 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 350 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 350 | U J |
| 91-94-1 | 3,3'-Dichlorobenzidine | 690 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 350 | U J |
| 606-20-2 | 2,6-Dinitrotoluene | 350 | U |
| 206-44-0 | Fluoranthene | 350 | U |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 350 | U |
| 101-55-3 | 4-Bromophenyl phenyl ether | 350 | U |
| 108-60-1 | Bis(2-chloroisopropyl) ether | 350 | U |
| 111-91-1 | Bis(2-chloroethoxy) methane | 350 | U |
| 87-68-3 | Hexachlorobutadiene | 690 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 690 | U |
| 67-72-1 | Hexachloroethane | 350 | U |
| 78-59-1 | Isophorone | 350 | U J |
| 91-20-3 | Naphthalene | 350 | U |
| 98-95-3 | Nitrobenzene | 350 | U |
| 86-30-6 | NitrosoDiPhenylAmine (NDPA) / DP | 1000 | U |
| 621-64-7 | n-Nitrosodi-n-propylamine | 350 | U |
| 117-81-7 | Bis(2-Ethylhexyl) phthalate | 690 | U |
| 85-68-7 | Butyl benzyl phthalate | 350 | U |
| 84-74-2 | Di-n-butylphthalate | 350 | U |
| 117-84-0 | Di-n-octylphthalate | 350 | U |
| 84-66-2 | Diethyl phthalate | 350 | U |
| 131-11-3 | Dimethyl phthalate | 350 | U |
| 56-55-3 | Benzo(a)anthracene | 350 | U |
| 50-32-8 | Benzo(a)pyrene | 350 | U |
| 205-99-2 | Benzo(b)fluoranthene | 350 | U |
| 207-08-9 | Benzo(k)fluoranthene | 350 | U |

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PWG.SB.2008.21@
5-10'

Lab Name: Alpha Analytical Labs

SDG No.: L0813196

Matrix: (soil/water) SOIL

Lab Sample ID: L0813196-21

Sample wt/vol: 15 (g/mL) g

Lab File ID: 13196-21

Level: (low/med) LOW

Date Received: 09/05/08

% Solids: 96

Date Extracted: 06-SEP-08

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 09/10/08

Injection Volume: 1 (uL)

Dilution Factor: 1

GPC Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | |
|----------|-------------------------------|---|---|
| 218-01-9 | Chrysene | 350 | U |
| 208-96-8 | Acenaphthylene | 350 | U |
| 120-12-7 | Anthracene | 350 | U |
| 191-24-2 | Benzo(ghi)perylene | 350 | U |
| 86-73-7 | Fluorene | 350 | U |
| 85-01-8 | Phenanthrene | 350 | U |
| 53-70-3 | Dibenzo(a,h)anthracene | 350 | U |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 350 | U |
| 129-00-0 | Pyrene | 350 | U |
| 92-52-4 | Biphenyl | 350 | U |
| 106-47-8 | 4-Chloroaniline | 350 | U |
| 88-74-4 | 2-Nitroaniline | 350 | U |
| 99-09-2 | 3-Nitroaniline | 350 | U |
| 100-01-6 | 4-Nitroaniline | 490 | U |
| 132-64-9 | Dibenzofuran | 350 | U |
| 91-57-6 | 2-Methylnaphthalene | 350 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1400 | U |
| 98-86-2 | Acetophenone | 1400 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 350 | U |
| 59-50-7 | P-Chloro-M-Cresol | 350 | U |
| 95-57-8 | 2-Chlorophenol | 420 | U |
| 120-83-2 | 2,4-Dichlorophenol | 690 | U |
| 105-67-9 | 2,4-Dimethylphenol | 350 | U |
| 88-75-5 | 2-Nitrophenol | 1400 | U |
| 100-02-7 | 4-Nitrophenol | 690 | U |
| 51-28-5 | 2,4-Dinitrophenol | 1400 | U |
| 534-52-1 | 4,6-Dinitro-o-cresol | 1400 | U |
| 87-86-5 | Pentachlorophenol | 1400 | U |
| 108-95-2 | Phenol | 490 | U |
| 95-48-7 | 2-Methylphenol | 420 | U |
| 108-39-4 | 3-Methylphenol/4-Methylphenol | 420 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 350 | U |
| 65-85-0 | Benzoic Acid | 3500 | U |
| 100-51-6 | Benzyl Alcohol | 690 | U |

FORM I SV-2

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PWG.SB.2008.21@
5-10'

Lab Name: Alpha Analytical Labs

SDG No.: L0813196

Matrix: (soil/water) SOIL

Lab Sample ID: L0813196-21

Sample wt/vol: 15 (g/mL) g

Lab File ID: 13196-21

Level: (low/med) LOW

Date Received: 09/05/08

% Solids: 96

Date Extracted: 06-SEP-08

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 09/10/08

Injection Volume: 1 (uL)

Dilution Factor: 1

GPC Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg |
|---------|----------|---|
|---------|----------|---|

| | | |
|-----------------------|-----|---|
| 86-74-8-----Carbazole | 350 | U |
|-----------------------|-----|---|

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

| |
|--------------------------|
| PWG.SB.2008.01@ 5-10' |
|--------------------------|

Lab Name: Alpha Analytical Labs

SDG No.: L0813196

Matrix: (soil/water) SOIL

Lab Sample ID: L0813196-20

Sample wt/vol: 15 (g/mL) g

Lab File ID: 13196-20

Level: (low/med) LOW

Date Received: 09/05/08

% Solids: 81

Date Extracted: 06-SEP-08

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 09/11/08

Injection Volume: 1 (uL)

Dilution Factor: 1

GPC Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg |
|---------|----------|---|
|---------|----------|---|

| | | | |
|---------------|------------------------|-----|---|
| 83-32-9----- | Acenaphthene | 16 | U |
| 91-58-7----- | 2-Chloronaphthalene | 16 | U |
| 206-44-0----- | Fluoranthene | 120 | |
| 87-68-3----- | Hexachlorobutadiene | 41 | U |
| 91-20-3----- | Naphthalene | 16 | U |
| 56-55-3----- | Benzo(a)anthracene | 48 | |
| 50-32-8----- | Benzo(a)pyrene | 64 | |
| 205-99-2----- | Benzo(b)fluoranthene | 58 | |
| 207-08-9----- | Benzo(k)fluoranthene | 58 | |
| 218-01-9----- | Chrysene | 55 | |
| 208-96-8----- | Acenaphthylene | 16 | U |
| 120-12-7----- | Anthracene | 16 | U |
| 191-24-2----- | Benzo(ghi)perylene | 51 | |
| 86-73-7----- | Fluorene | 16 | U |
| 85-01-8----- | Phenanthrene | 47 | |
| 53-70-3----- | Dibenzo(a,h)anthracene | 16 | U |
| 193-39-5----- | Indeno(1,2,3-cd)Pyrene | 52 | |
| 129-00-0----- | Pyrene | 120 | |
| 91-57-6----- | 2-Methylnaphthalene | 16 | U |
| 87-86-5----- | Pentachlorophenol | 66 | U |
| 118-74-1----- | Hexachlorobenzene | 66 | U |
| 67-72-1----- | Hexachloroethane | 66 | U |

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PWG.SB.2008.21@
5-10'

Lab Name: Alpha Analytical Labs

SDG No.: L0813196

Matrix: (soil/water) SOIL

Lab Sample ID: L0813196-21

Sample wt/vol: 15 (g/mL) g

Lab File ID: 13196-21

Level: (low/med) LOW

Date Received: 09/05/08

% Solids: 96

Date Extracted: 06-SEP-08

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 09/11/08

Injection Volume: 1 (uL)

Dilution Factor: 1

GPC Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| CAS NO. | COMPOUND | | |
|----------|------------------------|----|---|
| 83-32-9 | Acenaphthene | 14 | U |
| 91-58-7 | 2-Chloronaphthalene | 14 | U |
| 206-44-0 | Fluoranthene | 99 | |
| 87-68-3 | Hexachlorobutadiene | 35 | U |
| 91-20-3 | Naphthalene | 14 | U |
| 56-55-3 | Benzo(a)anthracene | 40 | |
| 50-32-8 | Benzo(a)pyrene | 53 | |
| 205-99-2 | Benzo(b)fluoranthene | 50 | |
| 207-08-9 | Benzo(k)fluoranthene | 48 | |
| 218-01-9 | Chrysene | 45 | |
| 208-96-8 | Acenaphthylene | 14 | U |
| 120-12-7 | Anthracene | 14 | U |
| 191-24-2 | Benzo(ghi)perylene | 43 | |
| 86-73-7 | Fluorene | 14 | U |
| 85-01-8 | Phenanthrene | 56 | |
| 53-70-3 | Dibenzo(a,h)anthracene | 14 | U |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 44 | |
| 129-00-0 | Pyrene | 93 | |
| 91-57-6 | 2-Methylnaphthalene | 14 | U |
| 87-86-5 | Pentachlorophenol | 56 | U |
| 118-74-1 | Hexachlorobenzene | 56 | U |
| 67-72-1 | Hexachloroethane | 56 | U |

FORM I SV-1

1E
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

| |
|--------------------------|
| PWG.SB.2008.01@ 5-10' |
|--------------------------|

Lab Name: Alpha Analytical Labs

SDG No.: L0813196

GC Column:

Matrix: (soil/water) SOIL

Lab Sample ID: L0813196-20

Sample wt/vol: 15 (g/mL) g

Lab File ID: 0910ca016

% Solids: 81

Date Received: 09/05/08

Extraction: (Type)

Date Extracted: 09-SEP-08

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 09/10/08

Injection Volume: 1 (uL)

Dilution Factor: 1

GPC Cleanup: (Y/N) N

Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | |
|-----------------|--------------|----------------------|---------|
| | | (ug/L or ug/Kg) | ug/Kg Q |
| 12674-11-2----- | Aroclor 1016 | 41.2 | U |
| 11104-28-2----- | Aroclor 1221 | 41.2 | U |
| 11141-16-5----- | Aroclor 1232 | 41.2 | U |
| 53469-21-9----- | Aroclor 1242 | 41.2 | U |
| 12672-29-6----- | Aroclor 1248 | 41.2 | U |
| 11097-69-1----- | Aroclor 1254 | 41.2 | U |
| 11096-82-5----- | Aroclor 1260 | 41.2 | U |

FORM I PCB

1E
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

| |
|--------------------------|
| PWG.SB.2008.21@ 5-10' |
|--------------------------|

Lab Name: Alpha Analytical Labs

SDG No.: L0813196

GC Column:

Matrix: (soil/water) SOIL

Lab Sample ID: L0813196-21

Sample wt/vol: 15 (g/mL) g

Lab File ID: 0909cna016

% Solids: 96

Date Received: 09/05/08

Extraction: (Type)

Date Extracted: 06-SEP-08

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 09/09/08

Injection Volume: 1 (uL)

Dilution Factor: 1

GPC Cleanup: (Y/N) N

Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | |
|-----------------|--------------|----------------------|---------|
| | | (ug/L or ug/Kg) | ug/Kg Q |
| 12674-11-2----- | Aroclor 1016 | 34.7 | U |
| 11104-28-2----- | Aroclor 1221 | 34.7 | U |
| 11141-16-5----- | Aroclor 1232 | 34.7 | U |
| 53469-21-9----- | Aroclor 1242 | 34.7 | U |
| 12672-29-6----- | Aroclor 1248 | 34.7 | U |
| 11097-69-1----- | Aroclor 1254 | 34.7 | U |
| 11096-82-5----- | Aroclor 1260 | 34.7 | U |

FORM I PCB

1E
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PWG.SB.2008.01@
5-10'

Lab Name: Alpha Analytical Labs

SDG No.: L0813196

GC Column:

Matrix: (soil/water) SOIL

Lab Sample ID: L0813196-20

Sample wt/vol: 15 (g/mL) g

Lab File ID: 09100014

% Solids: 81

Date Received: 09/05/08

Extraction: (Type)

Date Extracted: 06-SEP-08

Concentrated Extract Volume: 50000(uL)

Date Analyzed: 09/10/08

Injection Volume: 1 (uL)

Dilution Factor: 1

GPC Cleanup: (Y/N) N

Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/Kg | Q |
|-----------------|--------------------|---|-------|---|
| 319-86-8----- | Delta-BHC | 4.12 | | U |
| 58-89-9----- | Lindane | 4.12 | | U |
| 319-84-6----- | Alpha-BHC | 4.12 | | U |
| 319-85-7----- | Beta-BHC | 4.12 | | U |
| 76-44-8----- | Heptachlor | 4.12 | | U |
| 309-00-2----- | Aldrin | 4.12 | | U |
| 1024-57-3----- | Heptachlor epoxide | 4.12 | | U |
| 72-20-8----- | Endrin | 4.12 | | U |
| 53494-70-5----- | Endrin ketone | 4.12 | | U |
| 60-57-1----- | Dieldrin | 4.12 | | U |
| 72-55-9----- | 4,4'-DDE | 4.12 | | U |
| 72-54-8----- | 4,4'-DDD | 4.12 | | U |
| 50-29-3----- | 4,4'-DDT | 4.73 | | U |
| 959-98-8----- | Endosulfan I | 4.12 | | U |
| 33213-65-9----- | Endosulfan II | 4.12 | | U |
| 1031-07-8----- | Endosulfan sulfate | 4.12 | | U |
| 72-43-5----- | Methoxychlor | 16.5 | | U |
| 5103-74-2----- | trans-Chlordane | 4.12 | | U |
| 57-74-9----- | Chlordane | 41.2 | | U |

FORM I PEST

KRM
12/4/08

1E
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PWG.SB.2008.21@
5-10'

Lab Name: Alpha Analytical Labs

SDG No.: L0813196

GC Column:

Matrix: (soil/water) SOIL

Lab Sample ID: L0813196-21

Sample wt/vol: 15 (g/mL) g

Lab File ID: 09100016

% Solids: 96

Date Received: 09/05/08

Extraction: (Type)

Date Extracted: 06-SEP-08

Concentrated Extract Volume: 50000(uL)

Date Analyzed: 09/10/08

Injection Volume: 1 (uL)

Dilution Factor: 1

GPC Cleanup: (Y/N) N

Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/Kg | Q |
|------------|--------------------|---|-------|---|
| 319-86-8 | Delta-BHC | 3.47 | U | |
| 58-89-9 | Lindane | 3.47 | U | |
| 319-84-6 | Alpha-BHC | 3.47 | U | |
| 319-85-7 | Beta-BHC | 3.47 | U | |
| 76-44-8 | Heptachlor | 3.47 | U | |
| 309-00-2 | Aldrin | 3.47 | U | |
| 1024-57-3 | Heptachlor epoxide | 3.47 | U | |
| 72-20-8 | Endrin | 3.47 | U | |
| 53494-70-5 | Endrin ketone | 3.47 | U | |
| 60-57-1 | Dieldrin | 3.47 | U | |
| 72-55-9 | 4,4'-DDE | 3.47 | U | |
| 72-54-8 | 4,4'-DDD | 3.47 | U | |
| 50-29-3 | 4,4'-DDT | 3.47 | U | J |
| 959-98-8 | Endosulfan I | 3.47 | U | |
| 33213-65-9 | Endosulfan II | 3.47 | U | |
| 1031-07-8 | Endosulfan sulfate | 3.47 | U | |
| 72-43-5 | Methoxychlor | 13.9 | U | |
| 5103-74-2 | trans-Chlordane | 3.47 | U | |
| 57-74-9 | Chlordane | 34.7 | U | |

FORM I PEST

Handwritten: 12/4/08

U.S. EPA - CLP
1-IN
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

Lab Name: Alpha Analytical

PWG.SB.2008.01@5-
10'

Lab Code: AAL

SDG No.: L0813196

Matrix (soil/water): SOIL

Lab Sample ID: L0813196-20

Date Received: 09/05/08

% Solids: 81

Concentration Units: mg/kg

| CAS No. | Analyte | Concentration | C | | |
|-----------|------------|---------------|---|----------------|--|
| 7429-90-5 | Aluminum | 4700 | | | |
| 7440-36-0 | Antimony | 2.9 | U | N J | |
| 7440-38-2 | Arsenic | 2.2 | | | |
| 7440-39-3 | Barium | 40 | | | |
| 7440-41-7 | Beryllium | 0.29 | U | | |
| 7440-43-9 | Cadmium | 0.58 | U | | |
| 7440-70-2 | Calcium | 1000 | | N J | |
| 7440-47-3 | Chromium | 6.4 | | N J | |
| 7440-48-4 | Cobalt | 2.8 | | | |
| 7440-50-8 | Copper | 9.4 | | | |
| 7439-89-6 | Iron | 7500 | | | |
| 7439-92-1 | Lead | 87 | | N J | |
| 7439-95-4 | Magnesium | 690 | | N J | |
| 7439-96-5 | Manganese | 100 | | N J | |
| 7439-97-6 | Mercury | | | | |
| 7439-98-7 | Molybdenum | | | | |
| 7440-02-0 | Nickel | 5.2 | | | |
| 7440-09-7 | Potassium | 320 | | | |
| 7782-49-2 | Selenium | 1.2 | U | | |
| 7440-22-4 | Silver | 0.58 | U | | |
| 7440-23-5 | Sodium | 120 | U | | |
| 7440-24-6 | Strontium | | | | |
| 7440-28-0 | Thallium | 1.2 | U | | |
| 7440-62-2 | Vanadium | 9.3 | | | |
| 7440-66-6 | Zinc | 58 | | N J | |
| 7440-31-5 | Tin | | | | |
| 7440-42-8 | Boron | | | | |
| 57-12-5 | Cyanide | | | | |
| *END* | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Comments:

KBW
12/6/08

U.S. EPA - CLP
1-IN
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

Lab Name: Alpha Analytical

PWG.SB.2008.01@5-
10'

Lab Code: AAL

SDG No.: L0813196

Matrix (soil/water): SOIL

Lab Sample ID: L0813196-20

Date Received: 09/05/08

% Solids: 81

Concentration Units: mg/kg

| CAS No. | Analyte | Concentration | C | | |
|-----------|------------|---------------|---|------|--|
| 7429-90-5 | Aluminum | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | | | | |
| 7440-39-3 | Barium | | | | |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | | | | |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | | | | |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | | | | |
| 7439-89-6 | Iron | | | | |
| 7439-92-1 | Lead | | | | |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | 0.10 | | *N 5 | |
| 7439-98-7 | Molybdenum | | | | |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | | | | |
| 7440-22-4 | Silver | | | | |
| 7440-23-5 | Sodium | | | | |
| 7440-24-6 | Strontium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | | | | |
| 7440-31-5 | Tin | | | | |
| 7440-42-8 | Boron | | | | |
| 57-12-5 | Cyanide | | | | |
| *END* | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Comments:

KBW
12/6/08

U.S. EPA - CLP
1-IN
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

Lab Name: Alpha Analytical

PWG.SB.2008.21@5-
10'

Lab Code: AAL

SDG No.: L0813196

Matrix (soil/water): SOIL

Lab Sample ID: L0813196-21

Date Received: 09/05/08

% Solids: 96

Concentration Units: mg/kg

| CAS No. | Analyte | Concentration | C | | |
|-----------|------------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 2900 | | | |
| 7440-36-0 | Antimony | 2.5 | U | X | U3 |
| 7440-38-2 | Arsenic | 1.2 | | | |
| 7440-39-3 | Barium | 20 | | | |
| 7440-41-7 | Beryllium | 0.25 | U | | |
| 7440-43-9 | Cadmium | 0.50 | U | | |
| 7440-70-2 | Calcium | 500 | | X | J |
| 7440-47-3 | Chromium | 4.9 | | X | J |
| 7440-48-4 | Cobalt | 2.4 | | | |
| 7440-50-8 | Copper | 5.6 | | | |
| 7439-89-6 | Iron | 6400 | | | |
| 7439-92-1 | Lead | 30 | | X | J |
| 7439-95-4 | Magnesium | 560 | | X | J |
| 7439-96-5 | Manganese | 88 | | X | J |
| 7439-97-6 | Mercury | | | | |
| 7439-98-7 | Molybdenum | | | | |
| 7440-02-0 | Nickel | 4.5 | | | |
| 7440-09-7 | Potassium | 260 | | | |
| 7782-49-2 | Selenium | 1.0 | U | | |
| 7440-22-4 | Silver | 0.50 | U | | |
| 7440-23-5 | Sodium | 100 | U | | |
| 7440-24-6 | Strontium | | | | |
| 7440-28-0 | Thallium | 1.0 | U | | |
| 7440-62-2 | Vanadium | 6.3 | | | |
| 7440-66-6 | Zinc | 24 | | X | J |
| 7440-31-5 | Tin | | | | |
| 7440-42-8 | Boron | | | | |
| 57-12-5 | Cyanide | | | | |
| *END* | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Comments:

Handwritten: 12/6/08

U.S. EPA - CLP
1-IN
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

Lab Name: Alpha Analytical

PWG.SB.2008.21@5-
10'

Lab Code: AAL

SDG No.: L0813196

Matrix (soil/water): SOIL

Lab Sample ID: L0813196-21

Date Received: 09/05/08

% Solids: 96

Concentration Units: mg/kg

| CAS No. | Analyte | Concentration | C | | |
|-----------|------------|---------------|---|----|---|
| 7429-90-5 | Aluminum | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | | | | |
| 7440-39-3 | Barium | | | | |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | | | | |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | | | | |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | | | | |
| 7439-89-6 | Iron | | | | |
| 7439-92-1 | Lead | | | | |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | 0.25 | | *N | 5 |
| 7439-98-7 | Molybdenum | | | | |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | | | | |
| 7440-22-4 | Silver | | | | |
| 7440-23-5 | Sodium | | | | |
| 7440-24-6 | Strontium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | | | | |
| 7440-31-5 | Tin | | | | |
| 7440-42-8 | Boron | | | | |
| 57-12-5 | Cyanide | | | | |
| *END* | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Comments:

Handwritten: 12/6/08

1B
WET CHEMISTRY DATA SHEET

CLIENT SAMPLE NO.

| |
|--------------------------|
| PWG.SB.2008.01@ 5-10' |
|--------------------------|

Lab Name: Alpha Analytical Labs

SDG No.: L0813196

Matrix: (soil/water) SOIL

Lab Sample ID: L0813196-20

Sample wt/vol: (g/mL)

Lab File ID: 09-SEP-08

Date Received: 09/05/08

% Solids: 81

Date Extracted:

Date Analyzed: 09/09/08

Dilution Factor: 1

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | |
|-----------|---------------|----------------------|--|
| | | (ug/L or ug/Kg) % | |
| NONE----- | Solids, Total | 81 | |

FORM I WETCHEM

1B
WET CHEMISTRY DATA SHEET

CLIENT SAMPLE NO.

| |
|--------------------------|
| PWG.SB.2008.21@ 5-10' |
|--------------------------|

Lab Name: Alpha Analytical Labs

SDG No.: L0813196

Matrix: (soil/water) SOIL

Lab Sample ID: L0813196-21

Sample wt/vol: (g/mL)

Lab File ID: 09-SEP-08

Date Received: 09/05/08

% Solids: 96

Date Extracted:

Date Analyzed: 09/09/08

Dilution Factor: 1

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | |
|-----------|---------------|----------------------|--|
| | | (ug/L or ug/Kg) % | |
| NONE----- | Solids, Total | 96 | |

FORM I WETCHEM

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PWG-DW-2008-15
(7-7.5')

Lab Name: Alpha Analytical Labs

SDG No.: L0813344

Matrix: (soil/water) SOIL

Lab Sample ID: L0813344-18

Sample wt/vol: 2 (g/mL) g

Lab File ID: 0911A17

Level: (low/med) LOW

Date Received: 09/09/08

%Solids: 84

Date Analyzed: 09/12/08

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | |
|-----------------|---------------------------|----------------------|---------|
| | | (ug/L or ug/Kg) | ug/Kg Q |
| 75-09-2 | Methylene chloride | 30 | U |
| 75-34-3 | 1,1-Dichloroethane | 4.5 | U |
| 67-66-3 | Chloroform | 4.5 | U |
| 56-23-5 | Carbon tetrachloride | 3.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 124-48-1 | Dibromochloromethane | 3.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 4.5 | U |
| 127-18-4 | Tetrachloroethene | 120 | |
| 108-90-7 | Chlorobenzene | 3.0 | U |
| 75-69-4 | Trichlorofluoromethane | 15 | U |
| 107-06-2 | 1,2-Dichloroethane | 3.0 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 3.0 | U |
| 75-27-4 | Bromodichloromethane | 3.0 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 3.0 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 3.0 | U |
| 563-58-6 | 1,1-Dichloropropene | 15 | U |
| 75-25-2 | Bromoform | 12 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 3.0 | U |
| 71-43-2 | Benzene | 3.0 | U |
| 108-88-3 | Toluene | 4.5 | U |
| 100-41-4 | Ethylbenzene | 3.0 | U |
| 74-87-3 | Chloromethane | 15 | U |
| 74-83-9 | Bromomethane | 6.0 | U |
| 75-01-4 | Vinyl chloride | 26 | |
| 75-00-3 | Chloroethane | 6.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 3.0 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 4.5 | U |
| 79-01-6 | Trichloroethene | 11 | |
| 95-50-1 | 1,2-Dichlorobenzene | 15 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 15 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 15 | U |
| 1634-04-4 | Methyl tert butyl ether | 6.0 | U |
| 106-42-3/108-38 | p/m-Xylene | 6.0 | U |
| 95-47-6 | o-Xylene | 6.0 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 28 | |

FORM I VOA-1

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

| |
|----------------------------|
| PWG-DW-2008-15 (7-7.5') |
|----------------------------|

Lab Name: Alpha Analytical Labs

SDG No.: L0813344

Matrix: (soil/water) SOIL

Lab Sample ID: L0813344-18

Sample wt/vol: 2 (g/mL) g

Lab File ID: 0911A17

Level: (low/med) LOW

Date Received: 09/09/08

%Solids: 84

Date Analyzed: 09/12/08

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

| | | CONCENTRATION UNITS: | |
|----------|-----------------------------|----------------------|---------|
| CAS NO. | COMPOUND | (ug/L or ug/Kg) | ug/Kg Q |
| 74-95-3 | Dibromomethane | 30 | U |
| 100-42-5 | Styrene | 6.0 | U |
| 75-71-8 | Dichlorodifluoromethane | 30 | U J |
| 67-64-1 | Acetone | 30 | U |
| 75-15-0 | Carbon disulfide | 30 | U |
| 78-93-3 | 2-Butanone | 30 | U |
| 108-05-4 | Vinyl acetate | 30 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 30 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 30 | U J |
| 591-78-6 | 2-Hexanone | 30 | U |
| 74-97-5 | Bromochloromethane | 15 | U |
| 594-20-7 | 2,2-Dichloropropane | 15 | U |
| 106-93-4 | 1,2-Dibromoethane | 12 | U |
| 142-28-9 | 1,3-Dichloropropane | 15 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 3.0 | U |
| 108-86-1 | Bromobenzene | 15 | U |
| 104-51-8 | n-Butylbenzene | 3.0 | U |
| 135-98-8 | sec-Butylbenzene | 3.0 | U |
| 98-06-6 | tert-Butylbenzene | 15 | U |
| 95-49-8 | o-Chlorotoluene | 15 | U |
| 106-43-4 | p-Chlorotoluene | 15 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 15 | U |
| 87-68-3 | Hexachlorobutadiene | 15 | U |
| 98-82-8 | Isopropylbenzene | 3.0 | U |
| 99-87-6 | p-Isopropyltoluene | 3.0 | U |
| 91-20-3 | Naphthalene | 15 | U |
| 107-13-1 | Acrylonitrile | 30 | U |
| 103-65-1 | n-Propylbenzene | 3.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 15 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 15 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 15 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 15 | U |
| 105-05-5 | 1,4-Diethylbenzene | 12 | U |
| 622-96-8 | 4-Ethyltoluene | 12 | U |
| 95-93-2 | 1,2,4,5-Tetramethylbenzene | 12 | U |

FORM I VOA-1

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PWG-DW-2008-100
(7-7.5')

Lab Name: Alpha Analytical Labs

SDG No.: L0813344

Matrix: (soil/water) SOIL

Lab Sample ID: L0813344-19

Sample wt/vol: 2 (g/mL) g

Lab File ID: 0911A18

Level: (low/med) LOW

Date Received: 09/09/08

%Solids: 83

Date Analyzed: 09/12/08

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|-----------------|---------------------------|---|-----|
| 75-09-2 | Methylene chloride | 30 | U |
| 75-34-3 | 1,1-Dichloroethane | 4.5 | U |
| 67-66-3 | Chloroform | 4.5 | U |
| 56-23-5 | Carbon tetrachloride | 3.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 124-48-1 | Dibromochloromethane | 3.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 4.5 | U |
| 127-18-4 | Tetrachloroethene | 110 | |
| 108-90-7 | Chlorobenzene | 3.0 | U |
| 75-69-4 | Trichlorofluoromethane | 15 | U |
| 107-06-2 | 1,2-Dichloroethane | 3.0 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 3.0 | U |
| 75-27-4 | Bromodichloromethane | 3.0 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 3.0 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 3.0 | U |
| 563-58-6 | 1,1-Dichloropropene | 15 | U |
| 75-25-2 | Bromoform | 12 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 3.0 | U |
| 71-43-2 | Benzene | 3.0 | U |
| 108-88-3 | Toluene | 4.5 | U |
| 100-41-4 | Ethylbenzene | 3.0 | U |
| 74-87-3 | Chloromethane | 15 | U |
| 74-83-9 | Bromomethane | 6.0 | U |
| 75-01-4 | Vinyl chloride | 6.0 | U J |
| 75-00-3 | Chloroethane | 6.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 3.0 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 4.5 | U |
| 79-01-6 | Trichloroethene | 3.0 | U J |
| 95-50-1 | 1,2-Dichlorobenzene | 15 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 15 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 15 | U |
| 1634-04-4 | Methyl tert butyl ether | 6.0 | U |
| 106-42-3/108-38 | p/m-Xylene | 6.0 | U |
| 95-47-6 | o-Xylene | 6.0 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 3.0 | U J |

FORM I VOA-1

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

| |
|-----------------------------|
| PWG-DW-2008-100 (7-7.5') |
|-----------------------------|

Lab Name: Alpha Analytical Labs

SDG No.: L0813344

Matrix: (soil/water) SOIL

Lab Sample ID: L0813344-19

Sample wt/vol: 2 (g/mL) g

Lab File ID: 0911A18

Level: (low/med) LOW

Date Received: 09/09/08

%Solids: 83

Date Analyzed: 09/12/08

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | |
|----------|-----------------------------|----------------------|---------|
| | | (ug/L or ug/Kg) | ug/Kg Q |
| 74-95-3 | Dibromomethane | 30 | U |
| 100-42-5 | Styrene | 6.0 | U |
| 75-71-8 | Dichlorodifluoromethane | 30 | U J |
| 67-64-1 | Acetone | 30 | U |
| 75-15-0 | Carbon disulfide | 30 | U |
| 78-93-3 | 2-Butanone | 30 | U |
| 108-05-4 | Vinyl acetate | 30 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 30 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 30 | U J |
| 591-78-6 | 2-Hexanone | 30 | U |
| 74-97-5 | Bromochloromethane | 15 | U |
| 594-20-7 | 2,2-Dichloropropane | 15 | U |
| 106-93-4 | 1,2-Dibromoethane | 12 | U |
| 142-28-9 | 1,3-Dichloropropane | 15 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 3.0 | U |
| 108-86-1 | Bromobenzene | 15 | U |
| 104-51-8 | n-Butylbenzene | 3.0 | U |
| 135-98-8 | sec-Butylbenzene | 3.0 | U |
| 98-06-6 | tert-Butylbenzene | 15 | U |
| 95-49-8 | o-Chlorotoluene | 15 | U |
| 106-43-4 | p-Chlorotoluene | 15 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 15 | U |
| 87-68-3 | Hexachlorobutadiene | 15 | U |
| 98-82-8 | Isopropylbenzene | 3.0 | U |
| 99-87-6 | p-Isopropyltoluene | 3.0 | U |
| 91-20-3 | Naphthalene | 15 | U |
| 107-13-1 | Acrylonitrile | 30 | U |
| 103-65-1 | n-Propylbenzene | 3.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 15 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 15 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 15 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 15 | U |
| 105-05-5 | 1,4-Diethylbenzene | 12 | U |
| 622-96-8 | 4-Ethyltoluene | 12 | U |
| 95-93-2 | 1,2,4,5-Tetramethylbenzene | 12 | U |

FORM I VOA-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

| |
|----------------------------|
| PWG-DW-2008-15 (7-7.5') |
|----------------------------|

Lab Name: Alpha Analytical Labs

SDG No.: L0813344

Matrix: (soil/water) SOIL

Lab Sample ID: L0813344-18

Sample wt/vol: 15 (g/mL) g

Lab File ID: 13344-18

Level: (low/med) LOW

Date Received: 09/09/08

% Solids: 84

Date Extracted: 11-SEP-08

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 09/15/08

Injection Volume: 1 (uL)

Dilution Factor: 1

GPC Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | |
|-----------|----------------------------------|---|---|
| 83-32-9 | Acenaphthene | 400 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 400 | U |
| 118-74-1 | Hexachlorobenzene | 400 | U |
| 111-44-4 | Bis(2-chloroethyl) ether | 400 | U |
| 91-58-7 | 2-Chloronaphthalene | 480 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 400 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 400 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 400 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 790 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 400 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 400 | U |
| 206-44-0 | Fluoranthene | 400 | U |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 400 | U |
| 101-55-3 | 4-Bromophenyl phenyl ether | 400 | U |
| 108-60-1 | Bis(2-chloroisopropyl) ether | 400 | U |
| 111-91-1 | Bis(2-chloroethoxy) methane | 400 | U |
| 87-68-3 | Hexachlorobutadiene | 790 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 790 | U |
| 67-72-1 | Hexachloroethane | 400 | U |
| 78-59-1 | Isophorone | 400 | U |
| 91-20-3 | Naphthalene | 400 | U |
| 98-95-3 | Nitrobenzene | 400 | U |
| 86-30-6 | NitrosoDiPhenylAmine (NDPA) / DP | 1200 | U |
| 621-64-7 | n-Nitrosodi-n-propylamine | 400 | U |
| 117-81-7 | Bis(2-Ethylhexyl) phthalate | 790 | U |
| 85-68-7 | Butyl benzyl phthalate | 400 | U |
| 84-74-2 | Di-n-butylphthalate | 400 | U |
| 117-84-0 | Di-n-octylphthalate | 400 | U |
| 84-66-2 | Diethyl phthalate | 400 | U |
| 131-11-3 | Dimethyl phthalate | 400 | U |
| 56-55-3 | Benzo(a)anthracene | 400 | U |
| 50-32-8 | Benzo(a)pyrene | 400 | U |
| 205-99-2 | Benzo(b)fluoranthene | 400 | U |
| 207-08-9 | Benzo(k)fluoranthene | 400 | U |

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PWG-DW-2008-15
(7-7.5')

Lab Name: Alpha Analytical Labs

SDG No.: L0813344

Matrix: (soil/water) SOIL

Lab Sample ID: L0813344-18

Sample wt/vol: 15 (g/mL) g

Lab File ID: 13344-18

Level: (low/med) LOW

Date Received: 09/09/08

% Solids: 84

Date Extracted: 11-SEP-08

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 09/15/08

Injection Volume: 1 (uL)

Dilution Factor: 1

GPC Cleanup: (Y/N) N

| | | CONCENTRATION UNITS: | |
|----------|-------------------------------|----------------------|-------|
| CAS NO. | COMPOUND | (ug/L or ug/Kg) | ug/Kg |
| 218-01-9 | Chrysene | 400 | U |
| 208-96-8 | Acenaphthylene | 400 | U |
| 120-12-7 | Anthracene | 400 | U |
| 191-24-2 | Benzo(ghi)perylene | 400 | U |
| 86-73-7 | Fluorene | 400 | U |
| 85-01-8 | Phenanthrene | 400 | U |
| 53-70-3 | Dibenzo(a,h)anthracene | 400 | U |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 400 | U |
| 129-00-0 | Pyrene | 400 | U |
| 92-52-4 | Biphenyl | 400 | U |
| 106-47-8 | 4-Chloroaniline | 400 | U |
| 88-74-4 | 2-Nitroaniline | 400 | U |
| 99-09-2 | 3-Nitroaniline | 400 | U |
| 100-01-6 | 4-Nitroaniline | 560 | U |
| 132-64-9 | Dibenzofuran | 400 | U |
| 91-57-6 | 2-Methylnaphthalene | 400 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1600 | U |
| 98-86-2 | Acetophenone | 1600 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 400 | U |
| 59-50-7 | p-Chloro-M-Cresol | 400 | U |
| 95-57-8 | 2-Chlorophenol | 480 | U |
| 120-83-2 | 2,4-Dichlorophenol | 790 | U |
| 105-67-9 | 2,4-Dimethylphenol | 400 | U |
| 88-75-5 | 2-Nitrophenol | 1600 | U |
| 100-02-7 | 4-Nitrophenol | 790 | U |
| 51-28-5 | 2,4-Dinitrophenol | 1600 | U |
| 534-52-1 | 4,6-Dinitro-o-cresol | 1600 | U |
| 87-86-5 | Pentachlorophenol | 1600 | U |
| 108-95-2 | Phenol | 560 | U |
| 95-48-7 | 2-Methylphenol | 480 | U |
| 108-39-4 | 3-Methylphenol/4-Methylphenol | 480 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 400 | U |
| 65-85-0 | Benzoic Acid | 4000 | U |
| 100-51-6 | Benzyl Alcohol | 790 | U |

FORM I SV-2

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PWG-DW-2008-15
(7-7.5')

Lab Name: Alpha Analytical Labs

SDG No.: L0813344

Matrix: (soil/water) SOIL

Lab Sample ID: L0813344-18

Sample wt/vol: 15 (g/mL) g

Lab File ID: 13344-18

Level: (low/med) LOW

Date Received: 09/09/08

% Solids: 84

Date Extracted: 11-SEP-08

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 09/15/08

Injection Volume: 1 (uL)

Dilution Factor: 1

GPC Cleanup: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| | | |
|-----------------------|-----|---|
| 86-74-8-----Carbazole | 400 | U |
|-----------------------|-----|---|

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PWG-DW-2008-100
(7-7.5')

Lab Name: Alpha Analytical Labs

SDG No.: L0813344

Matrix: (soil/water) SOIL

Lab Sample ID: L0813344-19

Sample wt/vol: 15 (g/mL) g

Lab File ID: 13344-19

Level: (low/med) LOW

Date Received: 09/09/08

% Solids: 83

Date Extracted: 11-SEP-08

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 09/15/08

Injection Volume: 1 (uL)

Dilution Factor: 1

GPC Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg |
|-----------|---------------------------------|---|
| 83-32-9 | Acenaphthene | 400 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 400 |
| 118-74-1 | Hexachlorobenzene | 400 |
| 111-44-4 | Bis(2-chloroethyl) ether | 400 |
| 91-58-7 | 2-Chloronaphthalene | 480 |
| 95-50-1 | 1,2-Dichlorobenzene | 400 |
| 541-73-1 | 1,3-Dichlorobenzene | 400 |
| 106-46-7 | 1,4-Dichlorobenzene | 400 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 800 |
| 121-14-2 | 2,4-Dinitrotoluene | 400 |
| 606-20-2 | 2,6-Dinitrotoluene | 400 |
| 206-44-0 | Fluoranthene | 400 |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 400 |
| 101-55-3 | 4-Bromophenyl phenyl ether | 400 |
| 108-60-1 | Bis(2-chloroisopropyl) ether | 400 |
| 111-91-1 | Bis(2-chloroethoxy) methane | 400 |
| 87-68-3 | Hexachlorobutadiene | 800 |
| 77-47-4 | Hexachlorocyclopentadiene | 800 |
| 67-72-1 | Hexachloroethane | 400 |
| 78-59-1 | Isophorone | 400 |
| 91-20-3 | Naphthalene | 400 |
| 98-95-3 | Nitrobenzene | 400 |
| 86-30-6 | NitrosoDiPhenylAmine (NDPA) /DP | 1200 |
| 621-64-7 | n-Nitrosodi-n-propylamine | 400 |
| 117-81-7 | Bis(2-Ethylhexyl) phthalate | 800 |
| 85-68-7 | Butyl benzyl phthalate | 400 |
| 84-74-2 | Di-n-butylphthalate | 400 |
| 117-84-0 | Di-n-octylphthalate | 400 |
| 84-66-2 | Diethyl phthalate | 400 |
| 131-11-3 | Dimethyl phthalate | 400 |
| 56-55-3 | Benzo(a)anthracene | 400 |
| 50-32-8 | Benzo(a)pyrene | 400 |
| 205-99-2 | Benzo(b)fluoranthene | 400 |
| 207-08-9 | Benzo(k)fluoranthene | 400 |

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

| |
|-----------------------------|
| PWG-DW-2008-100 (7-7.5') |
|-----------------------------|

Lab Name: Alpha Analytical Labs

SDG No.: L0813344

Matrix: (soil/water) SOIL

Lab Sample ID: L0813344-19

Sample wt/vol: 15 (g/mL) g

Lab File ID: 13344-19

Level: (low/med) LOW

Date Received: 09/09/08

% Solids: 83

Date Extracted: 11-SEP-08

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 09/15/08

Injection Volume: 1 (uL)

Dilution Factor: 1

GPC Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg |
|---------|----------|---|
|---------|----------|---|

| | | | |
|----------|-------------------------------|------|---|
| 218-01-9 | Chrysene | 400 | U |
| 208-96-8 | Acenaphthylene | 400 | U |
| 120-12-7 | Anthracene | 400 | U |
| 191-24-2 | Benzo (ghi) perylene | 400 | U |
| 86-73-7 | Fluorene | 400 | U |
| 85-01-8 | Phenanthrene | 400 | U |
| 53-70-3 | Dibenzo (a, h) anthracene | 400 | U |
| 193-39-5 | Indeno (1, 2, 3-cd) Pyrene | 400 | U |
| 129-00-0 | Pyrene | 400 | U |
| 92-52-4 | Biphenyl | 400 | U |
| 106-47-8 | 4-Chloroaniline | 400 | U |
| 88-74-4 | 2-Nitroaniline | 400 | U |
| 99-09-2 | 3-Nitroaniline | 400 | U |
| 100-01-6 | 4-Nitroaniline | 560 | U |
| 132-64-9 | Dibenzofuran | 400 | U |
| 91-57-6 | 2-Methylnaphthalene | 400 | U |
| 95-94-3 | 1, 2, 4, 5-Tetrachlorobenzene | 1600 | U |
| 98-86-2 | Acetophenone | 1600 | U |
| 88-06-2 | 2, 4, 6-Trichlorophenol | 400 | U |
| 59-50-7 | P-Chloro-M-Cresol | 400 | U |
| 95-57-8 | 2-Chlorophenol | 480 | U |
| 120-83-2 | 2, 4-Dichlorophenol | 800 | U |
| 105-67-9 | 2, 4-Dimethylphenol | 400 | U |
| 88-75-5 | 2-Nitrophenol | 1600 | U |
| 100-02-7 | 4-Nitrophenol | 800 | U |
| 51-28-5 | 2, 4-Dinitrophenol | 1600 | U |
| 534-52-1 | 4, 6-Dinitro-o-cresol | 1600 | U |
| 87-86-5 | Pentachlorophenol | 1600 | U |
| 108-95-2 | Phenol | 560 | U |
| 95-48-7 | 2-Methylphenol | 480 | U |
| 108-39-4 | 3-Methylphenol/4-Methylphenol | 480 | U |
| 95-95-4 | 2, 4, 5-Trichlorophenol | 400 | U |
| 65-85-0 | Benzoic Acid | 4000 | U |
| 100-51-6 | Benzyl Alcohol | 800 | U |

FORM I SV-2

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PWG-DW-2008-100
(7-7.5')

Lab Name: Alpha Analytical Labs

SDG No.: L0813344

Matrix: (soil/water) SOIL

Lab Sample ID: L0813344-19

Sample wt/vol: 15 (g/mL) g

Lab File ID: 13344-19

Level: (low/med) LOW

Date Received: 09/09/08

% Solids: 83

Date Extracted: 11-SEP-08

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 09/15/08

Injection Volume: 1 (uL)

Dilution Factor: 1

GPC Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg |
|---------|----------|---|
|---------|----------|---|

| | | |
|-----------------------|-----|---|
| 86-74-8-----Carbazole | 400 | U |
|-----------------------|-----|---|

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

| |
|----------------------------|
| PWG-DW-2008-15 (7-7.5') |
|----------------------------|

Lab Name: Alpha Analytical Labs

SDG No.: L0813344

Matrix: (soil/water) SOIL

Lab Sample ID: L0813344-18

Sample wt/vol: 15 (g/mL) g

Lab File ID: 13344-18

Level: (low/med) LOW

Date Received: 09/09/08

% Solids: 84

Date Extracted: 11-SEP-08

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 09/13/08

Injection Volume: 1 (uL)

Dilution Factor: 5

GPC Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg |
|---------|----------|---|
|---------|----------|---|

| | | | |
|----------|------------------------|-----|-----|
| 83-32-9 | Acenaphthene | 79 | U |
| 91-58-7 | 2-Chloronaphthalene | 79 | U |
| 206-44-0 | Fluoranthene | 79 | U 1 |
| 87-68-3 | Hexachlorobutadiene | 200 | U |
| 91-20-3 | Naphthalene | 79 | U |
| 56-55-3 | Benzo(a)anthracene | 79 | U |
| 50-32-8 | Benzo(a)pyrene | 79 | U |
| 205-99-2 | Benzo(b)fluoranthene | 79 | U |
| 207-08-9 | Benzo(k)fluoranthene | 79 | U |
| 218-01-9 | Chrysene | 79 | U |
| 208-96-8 | Acenaphthylene | 79 | U |
| 120-12-7 | Anthracene | 79 | U |
| 191-24-2 | Benzo(ghi)perylene | 79 | U |
| 86-73-7 | Fluorene | 79 | U |
| 85-01-8 | Phenanthrene | 79 | U |
| 53-70-3 | Dibenzo(a,h)anthracene | 79 | U |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 79 | U |
| 129-00-0 | Pyrene | 79 | U 1 |
| 91-57-6 | 2-Methylnaphthalene | 79 | U |
| 87-86-5 | Pentachlorophenol | 320 | U |
| 118-74-1 | Hexachlorobenzene | 320 | U |
| 67-72-1 | Hexachloroethane | 320 | U |

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

| |
|-----------------------------|
| PWG-DW-2008-100 (7-7.5') |
|-----------------------------|

Lab Name: Alpha Analytical Labs

SDG No.: L0813344

Matrix: (soil/water) SOIL

Lab Sample ID: L0813344-19

Sample wt/vol: 15 (g/mL) g

Lab File ID: 13344-19

Level: (low/med) LOW

Date Received: 09/09/08

% Solids: 83

Date Extracted: 11-SEP-08

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 09/13/08

Injection Volume: 1 (uL)

Dilution Factor: 5

GPC Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg |
|---------|----------|---|
|---------|----------|---|

| | | | |
|----------|------------------------|-----|---|
| 83-32-9 | Acenaphthene | 80 | U |
| 91-58-7 | 2-Chloronaphthalene | 80 | U |
| 206-44-0 | Fluoranthene | 150 | U |
| 87-68-3 | Hexachlorobutadiene | 200 | U |
| 91-20-3 | Naphthalene | 80 | U |
| 56-55-3 | Benzo(a)anthracene | 80 | U |
| 50-32-8 | Benzo(a)pyrene | 80 | U |
| 205-99-2 | Benzo(b)fluoranthene | 80 | U |
| 207-08-9 | Benzo(k)fluoranthene | 80 | U |
| 218-01-9 | Chrysene | 80 | U |
| 208-96-8 | Acenaphthylene | 80 | U |
| 120-12-7 | Anthracene | 80 | U |
| 191-24-2 | Benzo(ghi)perylene | 80 | U |
| 86-73-7 | Fluorene | 80 | U |
| 85-01-8 | Phenanthrene | 80 | U |
| 53-70-3 | Dibenzo(a,h)anthracene | 80 | U |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 80 | U |
| 129-00-0 | Pyrene | 160 | U |
| 91-57-6 | 2-Methylnaphthalene | 80 | U |
| 87-86-5 | Pentachlorophenol | 320 | U |
| 118-74-1 | Hexachlorobenzene | 320 | U |
| 67-72-1 | Hexachloroethane | 320 | U |

FORM I SV-1

1E
GC ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

| |
|----------------------------|
| PWG-DW-2008-15 (7-7.5') |
|----------------------------|

Lab Name: Alpha Analytical Labs

SDG No.: L0813344

GC Column:

Matrix: (soil/water) SOIL

Lab Sample ID: L0813344-18

Sample wt/vol: 15 (g/mL) g

Lab File ID: DATA059

% Solids: 84

Date Received: 09/09/08

Extraction: (Type)

Date Extracted: 11-SEP-08

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 09/12/08

Injection Volume: 1 (uL)

Dilution Factor: 1

GPC Cleanup: (Y/N) N

Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg Q

| | | |
|--------------|-------|--|
| NONE-----TPH | 62100 | |
|--------------|-------|--|

FORM I TPHDROD-S

1E
GC ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

| |
|-----------------------------|
| PWG-DW-2008-100 (7-7.5') |
|-----------------------------|

Lab Name: Alpha Analytical Labs

SDG No.: L0813344

GC Column:

Matrix: (soil/water) SOIL

Lab Sample ID: L0813344-19

Sample wt/vol: 15 (g/mL) g

Lab File ID: DATA009

% Solids: 83

Date Received: 09/09/08

Extraction: (Type)

Date Extracted: 11-SEP-08

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 09/12/08

Injection Volume: 1 (uL)

Dilution Factor: 1

GPC Cleanup: (Y/N) N

Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg Q

| | | |
|--------------|-------|--|
| NONE-----TPH | 72400 | |
|--------------|-------|--|

FORM I TPHDROD-S

U.S. EPA - CLP
1-IN
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PWG-DW-2008-15
(7-7.5')

Lab Name: Alpha Analytical

Lab Code: AAL

SDG No.: L0813344

Matrix (soil/water): SOIL

Lab Sample ID: L0813344-18

Date Received: 09/09/08

% Solids: 84

Concentration Units: mg/kg

| CAS No. | Analyte | Concentration | C | | |
|-----------|------------|---------------|---|-----------------|--|
| 7429-90-5 | Aluminum | 1700 | | ✓ J | |
| 7440-36-0 | Antimony | 2.8 | U | ✓ J | |
| 7440-38-2 | Arsenic | 1.3 | | ✓ J | |
| 7440-39-3 | Barium | 16 | | ✓ J | |
| 7440-41-7 | Beryllium | 0.28 | U | | |
| 7440-43-9 | Cadmium | 0.57 | U | | |
| 7440-70-2 | Calcium | 6600 | | ✓ J | |
| 7440-47-3 | Chromium | 5.2 | | | |
| 7440-48-4 | Cobalt | 1.1 | U | | |
| 7440-50-8 | Copper | 4.7 | | ✓ J | |
| 7439-89-6 | Iron | 4600 | | ✓ J | |
| 7439-92-1 | Lead | 36 | | ✓ J | |
| 7439-95-4 | Magnesium | 2900 | | ✓ J | |
| 7439-96-5 | Manganese | 47 | | | |
| 7439-97-6 | Mercury | | | | |
| 7439-98-7 | Molybdenum | | | | |
| 7440-02-0 | Nickel | 2.0 | | ✓ J | |
| 7440-09-7 | Potassium | 140 | U | | |
| 7782-49-2 | Selenium | 1.1 | U | | |
| 7440-22-4 | Silver | 0.57 | U | | |
| 7440-23-5 | Sodium | 110 | U | | |
| 7440-24-6 | Strontium | | | | |
| 7440-28-0 | Thallium | 1.1 | U | ✓ UJ | |
| 7440-62-2 | Vanadium | 5.9 | | ✓ J | |
| 7440-66-6 | Zinc | 35 | | ✓ J | |
| 7440-31-5 | Tin | | | | |
| 7440-42-8 | Boron | | | | |
| 57-12-5 | Cyanide | | | | |
| *END* | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Ken
12/9/08

Comments:

U.S. EPA - CLP
1-IN
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

Lab Name: Alpha Analytical

PWG-DW-2008-15
(7-7.5')

Lab Code: AAL

SDG No.: L0813344

Matrix (soil/water): SOIL

Lab Sample ID: L0813344-18

Date Received: 09/09/08

% Solids: 84

Concentration Units: mg/kg

| CAS No. | Analyte | Concentration | C | | |
|-----------|------------|---------------|---|---|--|
| 7429-90-5 | Aluminum | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | | | | |
| 7440-39-3 | Barium | | | | |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | | | | |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | | | | |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | | | | |
| 7439-89-6 | Iron | | | | |
| 7439-92-1 | Lead | | | | |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | 0.09 | U | J | |
| 7439-98-7 | Molybdenum | | | | |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | | | | |
| 7440-22-4 | Silver | | | | |
| 7440-23-5 | Sodium | | | | |
| 7440-24-6 | Strontium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | | | | |
| 7440-31-5 | Tin | | | | |
| 7440-42-8 | Boron | | | | |
| 57-12-5 | Cyanide | | | | |
| *END* | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Comments:

KRw
12/9/08

U.S. EPA - CLP
1-IN
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

Lab Name: Alpha Analytical

PWG-DW-2008-100
(7-7.5')

Lab Code: AAL

SDG No.: L0813344

Matrix (soil/water): SOIL

Lab Sample ID: L0813344-19

Date Received: 09/09/08

% Solids: 83

Concentration Units: mg/kg

| CAS No. | Analyte | Concentration | C | | |
|-----------|------------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 2100 | | ✓ | J |
| 7440-36-0 | Antimony | 2.8 | U | ✓ | J |
| 7440-38-2 | Arsenic | 1.4 | | ✓ | J |
| 7440-39-3 | Barium | 15 | | ✓ | J |
| 7440-41-7 | Beryllium | 0.28 | U | | |
| 7440-43-9 | Cadmium | 0.56 | U | | |
| 7440-70-2 | Calcium | 6400 | | ✓ | J |
| 7440-47-3 | Chromium | 4.5 | | | |
| 7440-48-4 | Cobalt | 1.2 | | | |
| 7440-50-8 | Copper | 5.6 | | ✗ | J |
| 7439-89-6 | Iron | 4600 | | ✓ | J |
| 7439-92-1 | Lead | 32 | | ✗ | J |
| 7439-95-4 | Magnesium | 3900 | | ✓ | J |
| 7439-96-5 | Manganese | 34 | | | |
| 7439-97-6 | Mercury | | | | |
| 7439-98-7 | Molybdenum | | | | |
| 7440-02-0 | Nickel | 2.2 | | ✓ | J |
| 7440-09-7 | Potassium | 140 | U | | |
| 7782-49-2 | Selenium | 1.1 | U | | |
| 7440-22-4 | Silver | 0.56 | U | | |
| 7440-23-5 | Sodium | 110 | U | | |
| 7440-24-6 | Strontium | | | | |
| 7440-28-0 | Thallium | 1.1 | U | ✗ | UJ |
| 7440-62-2 | Vanadium | 8.3 | | ✓ | J |
| 7440-66-6 | Zinc | 34 | | ✗ | J |
| 7440-31-5 | Tin | | | | |
| 7440-42-8 | Boron | | | | |
| 57-12-5 | Cyanide | | | | |
| *END* | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

KBW
12/09/08

Comments:

U.S. EPA - CLP
1-IN
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

Lab Name: Alpha Analytical

PWG-DW-2008-100
(7-7.5')

Lab Code: AAL

SDG No.: L0813344

Matrix (soil/water): SOIL

Lab Sample ID: L0813344-19

Date Received: 09/09/08

% Solids: 83

Concentration Units: mg/kg

| CAS No. | Analyte | Concentration | C | | |
|-----------|------------|---------------|---|---|---|
| 7429-90-5 | Aluminum | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | | | | |
| 7440-39-3 | Barium | | | | |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | | | | |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | | | | |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | | | | |
| 7439-89-6 | Iron | | | | |
| 7439-92-1 | Lead | | | | |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | 0.09 | U | J | X |
| 7439-98-7 | Molybdenum | | | | |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | | | | |
| 7440-22-4 | Silver | | | | |
| 7440-23-5 | Sodium | | | | |
| 7440-24-6 | Strontium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | | | | |
| 7440-31-5 | Tin | | | | |
| 7440-42-8 | Boron | | | | |
| 57-12-5 | Cyanide | | | | |
| *END* | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Comments:

1B
WET CHEMISTRY DATA SHEET

CLIENT SAMPLE NO.

PWG-DW-2008-15
(7-7.5')

Lab Name: Alpha Analytical Labs

SDG No.: L0813344

Matrix: (soil/water) SOIL

Lab Sample ID: L0813344-18

Sample wt/vol: (g/mL)

Lab File ID: 10-SEP-08

Date Received: 09/09/08

% Solids: 84

Date Extracted:

Date Analyzed: 09/10/08

Dilution Factor: 1

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) %

| | | |
|------------------------|----|--|
| NONE-----Solids, Total | 84 | |
|------------------------|----|--|

FORM I WETCHEM

1B
WET CHEMISTRY DATA SHEET

CLIENT SAMPLE NO.

PWG-DW-2008-100
(7-7.5')

Lab Name: Alpha Analytical Labs

SDG No.: L0813344

Matrix: (soil/water) SOIL

Lab Sample ID: L0813344-19

Sample wt/vol: (g/mL)

Lab File ID: 10-SEP-08

Date Received: 09/09/08

% Solids: 83

Date Extracted:

Date Analyzed: 09/10/08

Dilution Factor: 1

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) % | |
|-----------|---------------|---|--|
| NONE----- | Solids, Total | 83 | |

FORM I WETCHEM

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

| |
|-------------------------|
| PWG-DW-2008-34 (5.5-6') |
|-------------------------|

Lab Name: Alpha Analytical Labs

SDG No.: L0813447

Matrix: (soil/water) SOIL

Lab Sample ID: L0813447-08

Sample wt/vol: 2 (g/mL) g

Lab File ID: 0915A11

Level: (low/med) LOW

Date Received: 09/11/08

%Solids: 66

Date Analyzed: 09/15/08

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | |
|-----------------|---------------------------|----------------------|---------|
| | | (ug/L or ug/Kg) | ug/Kg Q |
| 75-09-2 | Methylene chloride | 38 | U |
| 75-34-3 | 1,1-Dichloroethane | 5.7 | U |
| 67-66-3 | Chloroform | 5.7 | U |
| 56-23-5 | Carbon tetrachloride | 3.8 | U |
| 78-87-5 | 1,2-Dichloropropane | 13 | U |
| 124-48-1 | Dibromochloromethane | 3.8 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5.7 | U |
| 127-18-4 | Tetrachloroethene | 3.8 | U |
| 108-90-7 | Chlorobenzene | 3.8 | U |
| 75-69-4 | Trichlorofluoromethane | 19 | U |
| 107-06-2 | 1,2-Dichloroethane | 3.8 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 3.8 | U |
| 75-27-4 | Bromodichloromethane | 3.8 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 3.8 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 3.8 | U |
| 563-58-6 | 1,1-Dichloropropene | 19 | U |
| 75-25-2 | Bromoform | 15 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 3.8 | U |
| 71-43-2 | Benzene | 3.8 | U |
| 108-88-3 | Toluene | 5.7 | U |
| 100-41-4 | Ethylbenzene | 3.8 | U |
| 74-87-3 | Chloromethane | 19 | U |
| 74-83-9 | Bromomethane | 7.6 | U |
| 75-01-4 | Vinyl chloride | 7.6 | U |
| 75-00-3 | Chloroethane | 7.6 | U |
| 75-35-4 | 1,1-Dichloroethene | 3.8 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 5.7 | U |
| 79-01-6 | Trichloroethene | 3.8 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 19 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 19 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 19 | U |
| 1634-04-4 | Methyl tert butyl ether | 7.6 | U |
| 106-42-3/108-38 | p/m-Xylene | 7.6 | U |
| 95-47-6 | o-Xylene | 7.6 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 3.8 | U |

FORM I VOA-1

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PWG-DW-2008-34 (5.5-6')

Lab Name: Alpha Analytical Labs

SDG No.: L0813447

Matrix: (soil/water) SOIL

Lab Sample ID: L0813447-08

Sample wt/vol: 2 (g/mL) g

Lab File ID: 0915A11

Level: (low/med) LOW

Date Received: 09/11/08

%Solids: 66

Date Analyzed: 09/15/08

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

| | | CONCENTRATION UNITS: | |
|----------|-----------------------------|----------------------|---------|
| CAS NO. | COMPOUND | (ug/L or ug/Kg) | ug/Kg Q |
| 74-95-3 | Dibromomethane | 38 | U |
| 100-42-5 | Styrene | 7.6 | U |
| 75-71-8 | Dichlorodifluoromethane | 38 | U J |
| 67-64-1 | Acetone | 48 | |
| 75-15-0 | Carbon disulfide | 38 | U J |
| 78-93-3 | 2-Butanone | 38 | U |
| 108-05-4 | Vinyl acetate | 38 | U J |
| 108-10-1 | 4-Methyl-2-pentanone | 38 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 38 | U J |
| 591-78-6 | 2-Hexanone | 38 | U |
| 74-97-5 | Bromochloromethane | 19 | U |
| 594-20-7 | 2,2-Dichloropropane | 19 | U |
| 106-93-4 | 1,2-Dibromoethane | 15 | U |
| 142-28-9 | 1,3-Dichloropropane | 19 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 3.8 | U |
| 108-86-1 | Bromobenzene | 19 | U |
| 104-51-8 | n-Butylbenzene | 3.8 | U |
| 135-98-8 | sec-Butylbenzene | 3.8 | U |
| 98-06-6 | tert-Butylbenzene | 19 | U |
| 95-49-8 | o-Chlorotoluene | 19 | U |
| 106-43-4 | p-Chlorotoluene | 19 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 19 | U |
| 87-68-3 | Hexachlorobutadiene | 19 | U |
| 98-82-8 | Isopropylbenzene | 3.8 | U |
| 99-87-6 | p-Isopropyltoluene | 3.8 | U |
| 91-20-3 | Naphthalene | 19 | U |
| 107-13-1 | Acrylonitrile | 38 | U |
| 103-65-1 | n-Propylbenzene | 3.8 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 19 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 19 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 19 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 19 | U |
| 105-05-5 | 1,4-Diethylbenzene | 15 | U |
| 622-96-8 | 4-Ethyltoluene | 15 | U |
| 95-93-2 | 1,2,4,5-Tetramethylbenzene | 15 | U |

FORM I VOA-1

KRM 12/10/08

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PWG-DW-2008-34 (5.5-6')

Lab Name: Alpha Analytical Labs

SDG No.: L0813447

Matrix: (soil/water) SOIL

Lab Sample ID: L0813447-08

Sample wt/vol: 15 (g/mL) g

Lab File ID: 13447-08

Level: (low/med) LOW

Date Received: 09/11/08

% Solids: 66

Date Extracted: 16-SEP-08

Concentrated Extract Volume: 15000 (uL)

Date Analyzed: 09/18/08

Injection Volume: 1 (uL)

Dilution Factor: 15

GPC Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | |
|-----------|---------------------------------|---|-----|
| 83-32-9 | Acenaphthene | 7600 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 7600 | U |
| 118-74-1 | Hexachlorobenzene | 7600 | U |
| 111-44-4 | Bis(2-chloroethyl) ether | 7600 | U |
| 91-58-7 | 2-Chloronaphthalene | 9100 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 7600 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 7600 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 7600 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 15000 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 7600 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 7600 | U |
| 206-44-0 | Fluoranthene | 7600 | U |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 7600 | U |
| 101-55-3 | 4-Bromophenyl phenyl ether | 7600 | U |
| 108-60-1 | Bis(2-chloroisopropyl) ether | 7600 | U |
| 111-91-1 | Bis(2-chloroethoxy) methane | 7600 | U |
| 87-68-3 | Hexachlorobutadiene | 15000 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 15000 | U J |
| 67-72-1 | Hexachloroethane | 7600 | U |
| 78-59-1 | Isophorone | 7600 | U J |
| 91-20-3 | Naphthalene | 7600 | U |
| 98-95-3 | Nitrobenzene | 7600 | U |
| 86-30-6 | NitrosoDiPhenylAmine (NDPA) /DP | 23000 | U |
| 621-64-7 | n-Nitrosodi-n-propylamine | 7600 | U |
| 117-81-7 | Bis(2-Ethylhexyl) phthalate | 15000 | U |
| 85-68-7 | Butyl benzyl phthalate | 7600 | U |
| 84-74-2 | Di-n-butylphthalate | 7600 | U |
| 117-84-0 | Di-n-octylphthalate | 7600 | U |
| 84-66-2 | Diethyl phthalate | 7600 | U |
| 131-11-3 | Dimethyl phthalate | 7600 | U |
| 56-55-3 | Benzo(a)anthracene | 7600 | U |
| 50-32-8 | Benzo(a)pyrene | 7600 | U |
| 205-99-2 | Benzo(b)fluoranthene | 7600 | U |
| 207-08-9 | Benzo(k)fluoranthene | 7600 | U |

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PWG-DW-2008-34 (5.5-6')

Lab Name: Alpha Analytical Labs

SDG No.: L0813447

Matrix: (soil/water) SOIL

Lab Sample ID: L0813447-08

Sample wt/vol: 15 (g/mL) g

Lab File ID: 13447-08

Level: (low/med) LOW

Date Received: 09/11/08

% Solids: 66

Date Extracted: 16-SEP-08

Concentrated Extract Volume: 15000 (uL)

Date Analyzed: 09/18/08

Injection Volume: 1 (uL)

Dilution Factor: 15

GPC Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | |
|----------|-------------------------------|---|---|
| 218-01-9 | Chrysene | 7600 | U |
| 208-96-8 | Acenaphthylene | 7600 | U |
| 120-12-7 | Anthracene | 7600 | U |
| 191-24-2 | Benzo(ghi)perylene | 7600 | U |
| 86-73-7 | Fluorene | 7600 | U |
| 85-01-8 | Phenanthrene | 7600 | U |
| 53-70-3 | Dibenzo(a,h)anthracene | 7600 | U |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 7600 | U |
| 129-00-0 | Pyrene | 7600 | U |
| 92-52-4 | Biphenyl | 7600 | U |
| 106-47-8 | 4-Chloroaniline | 7600 | U |
| 88-74-4 | 2-Nitroaniline | 7600 | U |
| 99-09-2 | 3-Nitroaniline | 7600 | U |
| 100-01-6 | 4-Nitroaniline | 11000 | U |
| 132-64-9 | Dibenzofuran | 7600 | U |
| 91-57-6 | 2-Methylnaphthalene | 7600 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 30000 | U |
| 98-86-2 | Acetophenone | 30000 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 7600 | U |
| 59-50-7 | p-Chloro-M-Cresol | 7600 | U |
| 95-57-8 | 2-Chlorophenol | 9100 | U |
| 120-83-2 | 2,4-Dichlorophenol | 15000 | U |
| 105-67-9 | 2,4-Dimethylphenol | 7600 | U |
| 88-75-5 | 2-Nitrophenol | 30000 | U |
| 100-02-7 | 4-Nitrophenol | 15000 | U |
| 51-28-5 | 2,4-Dinitrophenol | 30000 | U |
| 534-52-1 | 4,6-Dinitro-o-cresol | 30000 | U |
| 87-86-5 | Pentachlorophenol | 30000 | U |
| 108-95-2 | Phenol | 11000 | U |
| 95-48-7 | 2-Methylphenol | 9100 | U |
| 108-39-4 | 3-Methylphenol/4-Methylphenol | 9100 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 7600 | U |
| 65-85-0 | Benzoic Acid | 76000 | U |
| 100-51-6 | Benzyl Alcohol | 15000 | U |

FORM I SV-2

KPw
12/10/08

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

| |
|-------------------------|
| PWG-DW-2008-34 (5.5-6') |
|-------------------------|

Lab Name: Alpha Analytical Labs

SDG No.: L0813447

Matrix: (soil/water) SOIL

Lab Sample ID: L0813447-08

Sample wt/vol: 15 (g/mL) g

Lab File ID: 13447-08

Level: (low/med) LOW

Date Received: 09/11/08

% Solids: 66

Date Extracted: 16-SEP-08

Concentrated Extract Volume: 15000 (uL)

Date Analyzed: 09/18/08

Injection Volume: 1 (uL)

Dilution Factor: 15

GPC Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg |
|---------|----------|---|
|---------|----------|---|

| | | |
|-----------------------|------|---|
| 86-74-8-----Carbazole | 7600 | U |
|-----------------------|------|---|

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PWG-DW-2008-34(
5.5-6')

Lab Name: Alpha Analytical Labs

SDG No.: L0813447

Matrix: (soil/water) SOIL

Lab Sample ID: L0813447-08

Sample wt/vol: 15 (g/mL) g

Lab File ID: 13447-08

Level: (low/med) LOW

Date Received: 09/11/08

% Solids: 66

Date Extracted: 12-SEP-08

Concentrated Extract Volume: 2000 (uL)

Date Analyzed: 09/16/08

Injection Volume: 1 (uL)

Dilution Factor: 100

GPC Cleanup: (Y/N) N

| | | |
|---------|----------|---|
| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg |
|---------|----------|---|

| | | | |
|----------|------------------------|-------|---|
| 83-32-9 | Acenaphthene | 2000 | U |
| 91-58-7 | 2-Chloronaphthalene | 2000 | U |
| 206-44-0 | Fluoranthene | 2000 | U |
| 87-68-3 | Hexachlorobutadiene | 5000 | U |
| 91-20-3 | Naphthalene | 2000 | U |
| 56-55-3 | Benzo(a)anthracene | 2000 | U |
| 50-32-8 | Benzo(a)pyrene | 2000 | U |
| 205-99-2 | Benzo(b)fluoranthene | 2000 | U |
| 207-08-9 | Benzo(k)fluoranthene | 2000 | U |
| 218-01-9 | Chrysene | 2000 | U |
| 208-96-8 | Acenaphthylene | 2000 | U |
| 120-12-7 | Anthracene | 2000 | U |
| 191-24-2 | Benzo(ghi)perylene | 2000 | U |
| 86-73-7 | Fluorene | 2000 | U |
| 85-01-8 | Phenanthrene | 2000 | |
| 53-70-3 | Dibenzo(a,h)anthracene | 2000 | U |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 2000 | U |
| 129-00-0 | Pyrene | 2000 | U |
| 91-57-6 | 2-Methylnaphthalene | 11000 | |
| 87-86-5 | Pentachlorophenol | 8100 | U |
| 118-74-1 | Hexachlorobenzene | 8100 | U |
| 67-72-1 | Hexachloroethane | 8100 | U |

FORM I SV-1

1E
GC ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

| |
|-------------------------|
| PWG-DW-2008-34 (5.5-6') |
|-------------------------|

Lab Name: Alpha Analytical Labs

SDG No.: L0813447

GC Column:

Matrix: (soil/water) SOIL

Lab Sample ID: L0813447-08

Sample wt/vol: 15 (g/mL) g

Lab File ID: DATA027

% Solids: 66

Date Received: 09/11/08

Extraction: (Type)

Date Extracted: 16-SEP-08

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 09/18/08

Injection Volume: 1 (uL)

Dilution Factor: 10

GPC Cleanup: (Y/N) N

Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg Q

| | | |
|--------------|---------|--|
| NONE-----TPH | 4820000 | |
|--------------|---------|--|

FORM I TPHDROD-S

U.S. EPA - CLP
1-IN
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

Lab Name: Alpha Analytical

PWG-DW-2008-
34 (5.5-6')

Lab Code: AAL

SDG No.: L0813447

Matrix (soil/water): SOIL

Lab Sample ID: L0813447-08

Date Received: 09/11/08

% Solids: 66

Concentration Units: mg/kg

| CAS No. | Analyte | Concentration | C | | |
|-----------|------------|---------------|---|--|--|
| 7429-90-5 | Aluminum | 4200 | | | |
| 7440-36-0 | Antimony | 3.7 | U | | |
| 7440-38-2 | Arsenic | | | | |
| 7440-39-3 | Barium | 41 | | | |
| 7440-41-7 | Beryllium | 0.37 | U | | |
| 7440-43-9 | Cadmium | 1.8 | | | |
| 7440-70-2 | Calcium | 14000 | | | |
| 7440-47-3 | Chromium | 39 | | | |
| 7440-48-4 | Cobalt | 3.0 | | | |
| 7440-50-8 | Copper | 35 | | | |
| 7439-89-6 | Iron | 7900 | | | |
| 7439-92-1 | Lead | 300 | | | |
| 7439-95-4 | Magnesium | 8300 | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | | | | |
| 7439-98-7 | Molybdenum | | | | |
| 7440-02-0 | Nickel | 14 | | | |
| 7440-09-7 | Potassium | 300 | | | |
| 7782-49-2 | Selenium | | | | |
| 7440-22-4 | Silver | 4.4 | | | |
| 7440-23-5 | Sodium | 150 | U | | |
| 7440-24-6 | Strontium | | | | |
| 7440-28-0 | Thallium | 1.5 | U | | |
| 7440-62-2 | Vanadium | 26 | | | |
| 7440-66-6 | Zinc | 270 | | | |
| 7440-31-5 | Tin | | | | |
| 7440-42-8 | Boron | | | | |
| 57-12-5 | Cyanide | | | | |
| *END* | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Comments:

BN
11/10/08

U.S. EPA - CLP
1-IN
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

Lab Name: Alpha Analytical

PWG-DW-2008-
34 (5.5-6')

Lab Code: AAL

SDG No.: L0813447

Matrix (soil/water): SOIL

Lab Sample ID: L0813447-08

Date Received: 09/11/08

% Solids: 66

Concentration Units: mg/kg

| CAS No. | Analyte | Concentration | C | | |
|-----------|------------|---------------|---|--|--|
| 7429-90-5 | Aluminum | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | 1.3 | | | |
| 7440-39-3 | Barium | | | | |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | | | | |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | | | | |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | | | | |
| 7439-89-6 | Iron | | | | |
| 7439-92-1 | Lead | | | | |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | 54 | | | |
| 7439-97-6 | Mercury | | | | |
| 7439-98-7 | Molybdenum | | | | |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | 1.5 | U | | |
| 7440-22-4 | Silver | | | | |
| 7440-23-5 | Sodium | | | | |
| 7440-24-6 | Strontium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | | | | |
| 7440-31-5 | Tin | | | | |
| 7440-42-8 | Boron | | | | |
| 57-12-5 | Cyanide | | | | |
| *END* | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Comments:

Handwritten: 12/10/08

U.S. EPA - CLP
1-IN
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

Lab Name: Alpha Analytical

PWG-DW-2008-
34 (5.5-6')

Lab Code: AAL

SDG No.: L0813447

Matrix (soil/water): SOIL

Lab Sample ID: L0813447-08

Date Received: 09/11/08

% Solids: 66

Concentration Units: mg/kg

| CAS No. | Analyte | Concentration | C | | |
|-----------|------------|---------------|---|--|--|
| 7429-90-5 | Aluminum | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | | | | |
| 7440-39-3 | Barium | | | | |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | | | | |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | | | | |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | | | | |
| 7439-89-6 | Iron | | | | |
| 7439-92-1 | Lead | | | | |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | 4.1 | | | |
| 7439-98-7 | Molybdenum | | | | |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | | | | |
| 7440-22-4 | Silver | | | | |
| 7440-23-5 | Sodium | | | | |
| 7440-24-6 | Strontium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | | | | |
| 7440-31-5 | Tin | | | | |
| 7440-42-8 | Boron | | | | |
| 57-12-5 | Cyanide | | | | |
| *END* | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Comments:

1B
WET CHEMISTRY DATA SHEET

CLIENT SAMPLE NO.

PWG-DW-2008-34(
5.5-6')

Lab Name: Alpha Analytical Labs

SDG No.: L0813447

Matrix: (soil/water) SOIL

Lab Sample ID: L0813447-08

Sample wt/vol: (g/mL)

Lab File ID: 13-SEP-08

Date Received: 09/11/08

% Solids: 66

Date Extracted:

Date Analyzed: 09/13/08

Dilution Factor: 1

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) % | |
|-----------|---------------|---|--|
| NONE----- | Solids, Total | 66 | |

FORM I WETCHEM

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PWG-SG-2008-08

Lab Name: Alpha Analytical Labs

SDG No.: L0813541

Matrix: (soil/water) AIR

Lab Sample ID: L0813541-08

Sample wt/vol: 250. (g/mL) mL

Lab File ID: R74606

Level: (low/med) LOW

Date Received: 09/11/08

%Solids:

Date Analyzed: 09/17/08

Dilution Factor: 1

Soil Extract Volume: 250000 (uL)

Soil Aliquot Volume: (uL)

| | | CONCENTRATION UNITS: | |
|------------|---------------------------|----------------------|---|
| CAS NO. | COMPOUND | (ug/L or ug/Kg) ppbV | Q |
| 71-55-6 | 1,1,1-Trichloroethane | 0.200 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.200 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.200 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.200 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.200 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.200 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.789 | |
| 106-93-4 | 1,2-Dibromoethane | 0.200 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.200 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.200 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.200 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.377 | |
| 106-99-0 | 1,3-Butadiene | 0.200 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.200 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 4.05 | |
| 123-91-1 | 1,4-Dioxane | 0.200 | U |
| 540-84-1 | 2,2,4-Trimethylpentane | 0.200 | U |
| 78-93-3 | 2-Butanone | 4.21 | |
| 591-78-6 | 2-Hexanone | 0.940 | |
| 107-05-1 | 3-Chloropropene | 0.200 | U |
| 622-96-8 | 4-Ethyltoluene | 0.200 | U |
| 67-64-1 | Acetone | 15.2 | |
| 71-43-2 | Benzene | 0.200 | U |
| 100-44-7 | Benzyl chloride | 0.200 | U |
| 75-27-4 | Bromodichloromethane | 0.200 | U |
| 75-25-2 | Bromoform | 0.200 | U |
| 74-83-9 | Bromomethane | 0.200 | U |
| 75-15-0 | Carbon disulfide | 0.200 | U |
| 56-23-5 | Carbon tetrachloride | 0.200 | U |
| 108-90-7 | Chlorobenzene | 0.200 | U |
| 75-00-3 | Chloroethane | 0.200 | U |
| 67-66-3 | Chloroform | 0.200 | U |
| 74-87-3 | Chloromethane | 0.200 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.200 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.200 | U |

FORM I VOA-1

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PWG-SG-2008-08

Lab Name: Alpha Analytical Labs

SDG No.: L0813541

Matrix: (soil/water) AIR

Lab Sample ID: L0813541-08

Sample wt/vol: 250. (g/mL) ml

Lab File ID: R74606

Level: (low/med) LOW

Date Received: 09/11/08

%Solids:

Date Analyzed: 09/17/08

Dilution Factor: 1

Soil Extract Volume: 250000 (uL)

Soil Aliquot Volume: (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | |
|-----------------|---------------------------|----------------------|---|
| | | (ug/L or ug/Kg) ppbV | Q |
| 110-82-7 | Cyclohexane | 0.284 | |
| 124-48-1 | Dibromochloromethane | 0.200 | U |
| 75-71-8 | Dichlorodifluoromethane | 0.598 | |
| 64-17-5 | Ethanol | 4.37 | |
| 141-78-6 | Ethyl Acetate | 0.500 | U |
| 100-41-4 | Ethylbenzene | 0.733 | |
| 76-13-1 | Freon-113 | 0.200 | U |
| 76-14-2 | Freon-114 | 0.200 | U |
| 87-68-3 | Hexachlorobutadiene | 0.200 | U |
| 67-63-0 | Isopropanol | 0.521 | |
| 75-09-2 | Methylene chloride | 0.888 | |
| 108-10-1 | 4-Methyl-2-pentanone | 0.200 | U |
| 1634-04-4 | Methyl tert butyl ether | 0.200 | U |
| 106-42-3/108-38 | p/m-Xylene | 2.32 | |
| 95-47-6 | o-Xylene | 0.947 | |
| 142-82-5 | Heptane | 0.200 | U |
| 110-54-3 | n-Hexane | 0.289 | |
| 115-07-1 | Propylene | 0.957 | |
| 100-42-5 | Styrene | 0.710 | |
| 127-18-4 | Tetrachloroethene | 0.603 | |
| 109-99-9 | Tetrahydrofuran | 0.200 | U |
| 108-88-3 | Toluene | 1.88 | |
| 156-60-5 | trans-1,2-Dichloroethene | 0.200 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.200 | U |
| 79-01-6 | Trichloroethene | 0.254 | |
| 75-69-4 | Trichlorofluoromethane | 0.335 | |
| 108-05-4 | Vinyl acetate | 0.200 | U |
| 593-60-2 | Vinyl bromide | 0.200 | U |
| 75-01-4 | Vinyl chloride | 0.200 | U |

FORM I VOA-1

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DIFFW-01

Lab Name: Alpha Analytical Labs

SDG No.: L0814755

Matrix: (soil/water) WATER

Lab Sample ID: L0814755-07

Sample wt/vol: 10.0 (g/mL) ml

Lab File ID: 1009N11

Level: (low/med) LOW

Date Received: 10/06/08

%Solids: N/A

Date Analyzed: 10/09/08

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | |
|-----------------|---------------------------|----------------------|--------|
| | | (ug/L or ug/Kg) | ug/L Q |
| 75-09-2 | Methylene chloride | 5.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.75 | U |
| 67-66-3 | Chloroform | 0.75 | U |
| 56-23-5 | Carbon tetrachloride | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.8 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.75 | U |
| 127-18-4 | Tetrachloroethene | 1.3 | |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 2.5 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 563-58-6 | 1,1-Dichloropropene | 2.5 | U |
| 75-25-2 | Bromoform | 2.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 108-88-3 | Toluene | 0.75 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 74-87-3 | Chloromethane | 2.5 | U |
| 74-83-9 | Bromomethane | 1.0 | U |
| 75-01-4 | Vinyl chloride | 1.0 | U |
| 75-00-3 | Chloroethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.75 | U |
| 79-01-6 | Trichloroethene | 2.3 | |
| 95-50-1 | 1,2-Dichlorobenzene | 2.5 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 2.5 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 2.5 | U |
| 1634-04-4 | Methyl tert butyl ether | 7.8 | |
| 106-42-3/108-38 | p/m-Xylene | 1.0 | U |
| 95-47-6 | o-Xylene | 1.0 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 32 | |

FORM I VOA-1

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DIFFW-01

Lab Name: Alpha Analytical Labs

SDG No.: L0814755

Matrix: (soil/water) WATER

Lab Sample ID: L0814755-07

Sample wt/vol: 10.0 (g/mL) ml

Lab File ID: 1009N11

Level: (low/med) LOW

Date Received: 10/06/08

%Solids: N/A

Date Analyzed: 10/09/08

Dilution Factor: 1

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | |
|----------|-----------------------------|----------------------|---|
| | | (ug/L or ug/Kg) ug/L | Q |
| 74-95-3 | Dibromomethane | 5.0 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 5.0 | U |
| 107-13-1 | Acrylonitrile | 5.0 | U |
| 100-42-5 | Styrene | 1.0 | U |
| 75-71-8 | Dichlorodifluoromethane | 5.0 | U |
| 67-64-1 | Acetone | 5.0 | U |
| 75-15-0 | Carbon disulfide | 5.0 | U |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 108-05-4 | Vinyl acetate | 5.0 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 5.0 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 2.5 | U |
| 594-20-7 | 2,2-Dichloropropane | 2.5 | U |
| 106-93-4 | 1,2-Dibromoethane | 2.0 | U |
| 142-28-9 | 1,3-Dichloropropane | 2.5 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.50 | U |
| 108-86-1 | Bromobenzene | 2.5 | U |
| 104-51-8 | n-Butylbenzene | 0.50 | U |
| 135-98-8 | sec-Butylbenzene | 0.50 | U |
| 98-06-6 | tert-Butylbenzene | 2.5 | U |
| 95-49-8 | o-Chlorotoluene | 2.5 | U |
| 106-43-4 | p-Chlorotoluene | 2.5 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 2.5 | U |
| 87-68-3 | Hexachlorobutadiene | 0.60 | U |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 99-87-6 | p-Isopropyltoluene | 0.50 | U |
| 91-20-3 | Naphthalene | 2.5 | U |
| 103-65-1 | n-Propylbenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 2.5 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 2.5 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 2.5 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 2.5 | U |
| 105-05-5 | 1,4-Diethylbenzene | 2.0 | U |
| 622-96-8 | 4-Ethyltoluene | 2.0 | U |
| 95-93-2 | 1,2,4,5-Tetramethylbenzene | 2.0 | U |

FORM I VOA-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DIFFW-01

Lab Name: Alpha Analytical Labs

SDG No.: L0814755

Matrix: (soil/water) WATER

Lab Sample ID: L0814755-07

Sample wt/vol: 945 (g/mL) ml

Lab File ID: 14755-07

Level: (low/med) LOW

Date Received: 10/06/08

% Solids: N/A

Date Extracted: 08-OCT-08

Concentrated Extract Volume: 900 (uL)

Date Analyzed: 10/10/08

Injection Volume: 1 (uL)

Dilution Factor: 1

GPC Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L | |
|-----------|---------------------------------|--|---|
| 83-32-9 | Acenaphthene | 4.8 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 4.8 | U |
| 118-74-1 | Hexachlorobenzene | 4.8 | U |
| 111-44-4 | Bis(2-chloroethyl) ether | 4.8 | U |
| 91-58-7 | 2-Chloronaphthalene | 5.7 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 4.8 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 4.8 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 4.8 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 48 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 5.7 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 4.8 | U |
| 206-44-0 | Fluoranthene | 4.8 | U |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 4.8 | U |
| 101-55-3 | 4-Bromophenyl phenyl ether | 4.8 | U |
| 108-60-1 | Bis(2-chloroisopropyl) ether | 4.8 | U |
| 111-91-1 | Bis(2-chloroethoxy) methane | 4.8 | U |
| 87-68-3 | Hexachlorobutadiene | 9.5 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 28 | U |
| 67-72-1 | Hexachloroethane | 4.8 | U |
| 78-59-1 | Isophorone | 4.8 | U |
| 91-20-3 | Naphthalene | 4.8 | U |
| 98-95-3 | Nitrobenzene | 4.8 | U |
| 86-30-6 | NitrosoDiPhenylAmine (NDPA) /DP | 14 | U |
| 621-64-7 | n-Nitrosodi-n-propylamine | 4.8 | U |
| 117-81-7 | Bis(2-Ethylhexyl) phthalate | 4.8 | U |
| 85-68-7 | Butyl benzyl phthalate | 4.8 | U |
| 84-74-2 | Di-n-butylphthalate | 4.8 | U |
| 117-84-0 | Di-n-octylphthalate | 4.8 | U |
| 84-66-2 | Diethyl phthalate | 4.8 | U |
| 131-11-3 | Dimethyl phthalate | 4.8 | U |
| 56-55-3 | Benzo(a)anthracene | 4.8 | U |
| 50-32-8 | Benzo(a)pyrene | 4.8 | U |
| 205-99-2 | Benzo(b)fluoranthene | 4.8 | U |
| 207-08-9 | Benzo(k)fluoranthene | 4.8 | U |

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DIFFW-01

Lab Name: Alpha Analytical Labs

SDG No.: L0814755

Matrix: (soil/water) WATER

Lab Sample ID: L0814755-07

Sample wt/vol: 945 (g/mL) ml

Lab File ID: 14755-07

Level: (low/med) LOW

Date Received: 10/06/08

% Solids: N/A

Date Extracted: 08-OCT-08

Concentrated Extract Volume: 900 (uL)

Date Analyzed: 10/10/08

Injection Volume: 1 (uL)

Dilution Factor: 1

GPC Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L | |
|----------|-------------------------------|--|---|
| 218-01-9 | Chrysene | 4.8 | U |
| 208-96-8 | Acenaphthylene | 4.8 | U |
| 120-12-7 | Anthracene | 4.8 | U |
| 191-24-2 | Benzo(ghi)perylene | 4.8 | U |
| 86-73-7 | Fluorene | 4.8 | U |
| 85-01-8 | Phenanthrene | 4.8 | U |
| 53-70-3 | Dibenzo(a,h)anthracene | 4.8 | U |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 6.7 | U |
| 129-00-0 | Pyrene | 4.8 | U |
| 92-52-4 | Biphenyl | 4.8 | U |
| 106-47-8 | 4-Chloroaniline | 4.8 | U |
| 88-74-4 | 2-Nitroaniline | 4.8 | U |
| 99-09-2 | 3-Nitroaniline | 4.8 | U |
| 100-01-6 | 4-Nitroaniline | 6.7 | U |
| 132-64-9 | Dibenzofuran | 4.8 | U |
| 91-57-6 | 2-Methylnaphthalene | 4.8 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 19 | U |
| 98-86-2 | Acetophenone | 19 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 4.8 | U |
| 59-50-7 | P-Chloro-M-Cresol | 4.8 | U |
| 95-57-8 | 2-Chlorophenol | 5.7 | U |
| 120-83-2 | 2,4-Dichlorophenol | 9.5 | U |
| 105-67-9 | 2,4-Dimethylphenol | 9.5 | U |
| 88-75-5 | 2-Nitrophenol | 19 | U |
| 100-02-7 | 4-Nitrophenol | 9.5 | U |
| 51-28-5 | 2,4-Dinitrophenol | 28 | U |
| 534-52-1 | 4,6-Dinitro-o-cresol | 19 | U |
| 87-86-5 | Pentachlorophenol | 9.5 | U |
| 108-95-2 | Phenol | 6.7 | U |
| 95-48-7 | 2-Methylphenol | 5.7 | U |
| 108-39-4 | 3-Methylphenol/4-Methylphenol | 5.7 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 4.8 | U |
| 65-85-0 | Benzoic Acid | 48 | U |
| 100-51-6 | Benzyl Alcohol | 9.5 | U |

FORM I SV-2

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DIFFW-01

Lab Name: Alpha Analytical Labs

SDG No.: L0814755

Matrix: (soil/water) WATER

Lab Sample ID: L0814755-07

Sample wt/vol: 945 (g/mL) ml

Lab File ID: 14755-07

Level: (low/med) LOW

Date Received: 10/06/08

% Solids: N/A

Date Extracted: 08-OCT-08

Concentrated Extract Volume: 900 (uL)

Date Analyzed: 10/10/08

Injection Volume: 1 (uL)

Dilution Factor: 1

GPC Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L |
|---------|----------|--|
|---------|----------|--|

| | | |
|-----------------------|-----|---|
| 86-74-8-----Carbazole | 4.8 | U |
|-----------------------|-----|---|

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DIFFW-01

Lab Name: Alpha Analytical Labs

SDG No.: L0814755

Matrix: (soil/water) WATER

Lab Sample ID: L0814755-07

Sample wt/vol: 945 (g/mL) ml

Lab File ID: 14755-07

Level: (low/med) LOW

Date Received: 10/06/08

% Solids: N/A

Date Extracted: 08-OCT-08

Concentrated Extract Volume: 900 (uL)

Date Analyzed: 10/11/08

Injection Volume: 1 (uL)

Dilution Factor: 1

GPC Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| CAS NO. | COMPOUND | | |
|----------|------------------------|------|---|
| 83-32-9 | Acenaphthene | 0.19 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.19 | U |
| 206-44-0 | Fluoranthene | 0.19 | U |
| 87-68-3 | Hexachlorobutadiene | 0.48 | U |
| 91-20-3 | Naphthalene | 0.19 | U |
| 56-55-3 | Benzo(a)anthracene | 0.19 | U |
| 50-32-8 | Benzo(a)pyrene | 0.19 | U |
| 205-99-2 | Benzo(b)fluoranthene | 0.19 | U |
| 207-08-9 | Benzo(k)fluoranthene | 0.19 | U |
| 218-01-9 | Chrysene | 0.19 | U |
| 208-96-8 | Acenaphthylene | 0.19 | U |
| 120-12-7 | Anthracene | 0.19 | U |
| 191-24-2 | Benzo(ghi)perylene | 0.19 | U |
| 86-73-7 | Fluorene | 0.19 | U |
| 85-01-8 | Phenanthrene | 0.19 | U |
| 53-70-3 | Dibenzo(a,h)anthracene | 0.19 | U |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 0.19 | U |
| 129-00-0 | Pyrene | 0.19 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.19 | U |
| 87-86-5 | Pentachlorophenol | 0.76 | U |
| 118-74-1 | Hexachlorobenzene | 0.76 | U |
| 67-72-1 | Hexachloroethane | 0.76 | U |

FORM I SV-1

1E
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DIFFW-01

Lab Name: Alpha Analytical Labs

SDG No.: L0814755

GC Column:

Matrix: (soil/water) WATER

Lab Sample ID: L0814755-07

Sample wt/vol: 1000 (g/mL) ml

Lab File ID: 1009ca017

% Solids: N/A

Date Received: 10/06/08

Extraction: (Type)

Date Extracted: 08-OCT-08

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/09/08

Injection Volume: 1 (uL)

Dilution Factor: 1

GPC Cleanup: (Y/N) N

Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L | Q |
|---------|----------|--|---|
|---------|----------|--|---|

| | | |
|-----------------------------|-------|---|
| 12674-11-2-----Aroclor 1016 | 0.100 | U |
| 11104-28-2-----Aroclor 1221 | 0.100 | U |
| 11141-16-5-----Aroclor 1232 | 0.100 | U |
| 53469-21-9-----Aroclor 1242 | 0.100 | U |
| 12672-29-6-----Aroclor 1248 | 0.100 | U |
| 11097-69-1-----Aroclor 1254 | 0.100 | U |
| 11096-82-5-----Aroclor 1260 | 0.100 | U |

FORM I PCB

1E
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DIFFW-01

Lab Name: Alpha Analytical Labs

SDG No.: L0814755

GC Column:

Matrix: (soil/water) WATER

Lab Sample ID: L0814755-07

Sample wt/vol: 940 (g/mL) ml

Lab File ID: 10090023

% Solids: N/A

Date Received: 10/06/08

Extraction: (Type)

Date Extracted: 08-OCT-08

Concentrated Extract Volume: 10000(uL)

Date Analyzed: 10/09/08

Injection Volume: 1 (uL)

Dilution Factor: 1

GPC Cleanup: (Y/N) N

Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L | Q |
|-----------------|--------------------|--|---|
| 319-86-8----- | Delta-BHC | 0.021 | U |
| 58-89-9----- | Lindane | 0.021 | U |
| 319-84-6----- | Alpha-BHC | 0.021 | U |
| 319-85-7----- | Beta-BHC | 0.021 | U |
| 76-44-8----- | Heptachlor | 0.021 | U |
| 309-00-2----- | Aldrin | 0.021 | U |
| 1024-57-3----- | Heptachlor epoxide | 0.021 | U |
| 72-20-8----- | Endrin | 0.043 | U |
| 53494-70-5----- | Endrin ketone | 0.043 | U |
| 60-57-1----- | Dieldrin | 0.043 | U |
| 72-55-9----- | 4,4'-DDE | 0.043 | U |
| 72-54-8----- | 4,4'-DDD | 0.043 | U |
| 50-29-3----- | 4,4'-DDT | 0.043 | U |
| 959-98-8----- | Endosulfan I | 0.021 | U |
| 33213-65-9----- | Endosulfan II | 0.043 | U |
| 1031-07-8----- | Endosulfan sulfate | 0.043 | U |
| 72-43-5----- | Methoxychlor | 0.213 | U |
| 5103-74-2----- | trans-Chlordane | 0.021 | U |
| 57-74-9----- | Chlordane | 0.213 | U |

FORM I PEST

U.S. EPA - CLP
1-IN
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DIFFW-01

Lab Name: Alpha Analytical

Lab Code: AAL

SDG No.: L0814755

Matrix (soil/water): WATER

Lab Sample ID: L0814755-07

Date Received: 10/06/08

% Solids: N/A

Concentration Units: mg/l

| CAS No. | Analyte | Concentration | C | | |
|-----------|------------|---------------|---|--|--|
| 7429-90-5 | Aluminum | 2.1 | | | |
| 7440-36-0 | Antimony | 0.050 | U | | |
| 7440-38-2 | Arsenic | | | | |
| 7440-39-3 | Barium | 0.062 | | | |
| 7440-41-7 | Beryllium | 0.005 | U | | |
| 7440-43-9 | Cadmium | 0.009 | | | |
| 7440-70-2 | Calcium | 20 | | | |
| 7440-47-3 | Chromium | 0.04 | | | |
| 7440-48-4 | Cobalt | 0.034 | | | |
| 7440-50-8 | Copper | 0.726 | | | |
| 7439-89-6 | Iron | | | | |
| 7439-92-1 | Lead | 0.012 | | | |
| 7439-95-4 | Magnesium | 15 | | | |
| 7439-96-5 | Manganese | 4.74 | | | |
| 7439-97-6 | Mercury | | | | |
| 7439-98-7 | Molybdenum | | | | |
| 7440-02-0 | Nickel | 0.025 | U | | |
| 7440-09-7 | Potassium | 4.2 | | | |
| 7782-49-2 | Selenium | 0.010 | U | | |
| 7440-22-4 | Silver | 0.007 | U | | |
| 7440-23-5 | Sodium | 25 | | | |
| 7440-24-6 | Strontium | | | | |
| 7440-28-0 | Thallium | 0.020 | U | | |
| 7440-62-2 | Vanadium | 0.010 | U | | |
| 7440-66-6 | Zinc | 0.670 | | | |
| 7440-31-5 | Tin | | | | |
| 7440-42-8 | Boron | | | | |
| 57-12-5 | Cyanide | | | | |
| *END* | | | | | |
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Comments:

U.S. EPA - CLP
1-IN
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DIFFW-01

Lab Name: Alpha Analytical

Lab Code: AAL

SDG No.: L0814755

Matrix (soil/water): WATER

Lab Sample ID: L0814755-07

Date Received: 10/06/08

% Solids: N/A

Concentration Units: mg/l

| CAS No. | Analyte | Concentration | C | | |
|-----------|------------|---------------|---|--|--|
| 7429-90-5 | Aluminum | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | | | | |
| 7440-39-3 | Barium | | | | |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | | | | |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | | | | |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | | | | |
| 7439-89-6 | Iron | 340 | | | |
| 7439-92-1 | Lead | | | | |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | | | | |
| 7439-98-7 | Molybdenum | | | | |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | | | | |
| 7440-22-4 | Silver | | | | |
| 7440-23-5 | Sodium | | | | |
| 7440-24-6 | Strontium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | | | | |
| 7440-31-5 | Tin | | | | |
| 7440-42-8 | Boron | | | | |
| 57-12-5 | Cyanide | | | | |
| *END* | | | | | |
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Comments:

U.S. EPA - CLP
1-IN
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DIFFW-01

Lab Name: Alpha Analytical

Lab Code: AAL

SDG No.: L0814755

Matrix (soil/water): WATER

Lab Sample ID: L0814755-07

Date Received: 10/06/08

% Solids: N/A

Concentration Units: mg/l

| CAS No. | Analyte | Concentration | C | | |
|-----------|------------|---------------|---|--|--|
| 7429-90-5 | Aluminum | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | 0.100 | U | | |
| 7440-39-3 | Barium | | | | |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | | | | |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | | | | |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | | | | |
| 7439-89-6 | Iron | | | | |
| 7439-92-1 | Lead | | | | |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | | | | |
| 7439-98-7 | Molybdenum | | | | |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | | | | |
| 7440-22-4 | Silver | | | | |
| 7440-23-5 | Sodium | | | | |
| 7440-24-6 | Strontium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | | | | |
| 7440-31-5 | Tin | | | | |
| 7440-42-8 | Boron | | | | |
| 57-12-5 | Cyanide | | | | |
| *END* | | | | | |
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Comments:

U.S. EPA - CLP
1-IN
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DIFFW-01

Lab Name: Alpha Analytical

Lab Code: AAL

SDG No.: L0814755

Matrix (soil/water): WATER

Lab Sample ID: L0814755-07

Date Received: 10/06/08

% Solids: N/A

Concentration Units: mg/l

| CAS No. | Analyte | Concentration | C | | |
|-----------|------------|---------------|---|--|--|
| 7429-90-5 | Aluminum | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | | | | |
| 7440-39-3 | Barium | | | | |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | | | | |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | | | | |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | | | | |
| 7439-89-6 | Iron | | | | |
| 7439-92-1 | Lead | | | | |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | 0.0002 | | | |
| 7439-98-7 | Molybdenum | | | | |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | | | | |
| 7440-22-4 | Silver | | | | |
| 7440-23-5 | Sodium | | | | |
| 7440-24-6 | Strontium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | | | | |
| 7440-31-5 | Tin | | | | |
| 7440-42-8 | Boron | | | | |
| 57-12-5 | Cyanide | | | | |
| *END* | | | | | |
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Comments:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DIFFW-04

Lab Name: Alpha Analytical Labs

SDG No.: L0814991

Matrix: (soil/water) WATER

Lab Sample ID: L0814991-05

Sample wt/vol: 0.200 (g/mL) ml

Lab File ID: 1014N08

Level: (low/med) LOW

Date Received: 10/09/08

%Solids: N/A

Date Analyzed: 10/14/08

Dilution Factor: 50

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | |
|-----------------|---------------------------|----------------------|------|
| | | (ug/L or ug/Kg) | ug/L |
| 75-09-2 | Methylene chloride | 250 | U |
| 75-34-3 | 1,1-Dichloroethane | 38 | U |
| 67-66-3 | Chloroform | 38 | U |
| 56-23-5 | Carbon tetrachloride | 25 | U |
| 78-87-5 | 1,2-Dichloropropane | 88 | U |
| 124-48-1 | Dibromochloromethane | 25 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 38 | U |
| 127-18-4 | Tetrachloroethene | 1400 | |
| 108-90-7 | Chlorobenzene | 25 | U |
| 75-69-4 | Trichlorofluoromethane | 120 | U |
| 107-06-2 | 1,2-Dichloroethane | 25 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 25 | U |
| 75-27-4 | Bromodichloromethane | 25 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 25 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 25 | U |
| 563-58-6 | 1,1-Dichloropropene | 120 | U |
| 75-25-2 | Bromoform | 100 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 25 | U |
| 71-43-2 | Benzene | 25 | U |
| 108-88-3 | Toluene | 38 | U |
| 100-41-4 | Ethylbenzene | 25 | U |
| 74-87-3 | Chloromethane | 120 | U |
| 74-83-9 | Bromomethane | 50 | U |
| 75-01-4 | Vinyl chloride | 50 | U |
| 75-00-3 | Chloroethane | 50 | U |
| 75-35-4 | 1,1-Dichloroethene | 25 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 38 | U |
| 79-01-6 | Trichloroethene | 300 | |
| 95-50-1 | 1,2-Dichlorobenzene | 120 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 120 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 120 | U |
| 1634-04-4 | Methyl tert butyl ether | 50 | U |
| 106-42-3/108-38 | p/m-Xylene | 50 | U |
| 95-47-6 | O-Xylene | 50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 1800 | |

FORM I VOA-1

KBW
12/11/08

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DIFFW-04

Lab Name: Alpha Analytical Labs

SDG No.: L0814991

Matrix: (soil/water) WATER

Lab Sample ID: L0814991-05

Sample wt/vol: 0.200 (g/mL) mL

Lab File ID: 1014N08

Level: (low/med) LOW

Date Received: 10/09/08

%Solids: N/A

Date Analyzed: 10/14/08

Dilution Factor: 50

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

| | | CONCENTRATION UNITS: | | |
|----------|-----------------------------|----------------------|------|---|
| CAS NO. | COMPOUND | (ug/L or ug/Kg) | ug/L | Q |
| 74-95-3 | Dibromomethane | 250 | | U |
| 96-18-4 | 1,2,3-Trichloropropane | 250 | | U |
| 107-13-1 | Acrylonitrile | 250 | | U |
| 100-42-5 | Styrene | 50 | | U |
| 75-71-8 | Dichlorodifluoromethane | 250 | | U |
| 67-64-1 | Acetone | 250 | | U |
| 75-15-0 | Carbon disulfide | 250 | | U |
| 78-93-3 | 2-Butanone | 250 | | U |
| 108-05-4 | Vinyl acetate | 250 | | U |
| 108-10-1 | 4-Methyl-2-pentanone | 250 | | U |
| 591-78-6 | 2-Hexanone | 250 | | U |
| 74-97-5 | Bromochloromethane | 120 | | U |
| 594-20-7 | 2,2-Dichloropropane | 120 | | U |
| 106-93-4 | 1,2-Dibromoethane | 100 | | U |
| 142-28-9 | 1,3-Dichloropropane | 120 | | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 25 | | U |
| 108-86-1 | Bromobenzene | 120 | | U |
| 104-51-8 | n-Butylbenzene | 25 | | U |
| 135-98-8 | sec-Butylbenzene | 25 | | U |
| 98-06-6 | tert-Butylbenzene | 120 | | U |
| 95-49-8 | o-Chlorotoluene | 120 | | U |
| 106-43-4 | p-Chlorotoluene | 120 | | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 120 | | U |
| 87-68-3 | Hexachlorobutadiene | 30 | | U |
| 98-82-8 | Isopropylbenzene | 25 | | U |
| 99-87-6 | p-Isopropyltoluene | 25 | | U |
| 91-20-3 | Naphthalene | 120 | | U |
| 103-65-1 | n-Propylbenzene | 25 | | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 120 | | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 120 | | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120 | | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120 | | U |
| 105-05-5 | 1,4-Diethylbenzene | 100 | | U |
| 622-96-8 | 4-Ethyltoluene | 100 | | U |
| 95-93-2 | 1,2,4,5-Tetramethylbenzene | 100 | | U |

FORM I VOA-1

KBW
11/11/08