

August 19, 2013

Mr. Paul Certeza
Oil Control Program
Maryland Department of the Environment
1800 Washington Boulevard, Suite 620
Baltimore, Maryland 21230-1719

Re: Subsurface Investigation – June 2012
Veterans-Najoles Site
8000 Block Veterans Highway
Millersville, Maryland 21108
MDE-OCP Case No. **2008-0510AA**
CGS Project No. CG-09-0525.06

Dear Mr. Certeza:

Chesapeake GeoSciences, Inc. (CGS) is pleased to submit this Subsurface Investigation report for the Veterans-Najoles Site located on the west side of the 8000 Block of Veterans Highway, in Millersville, Maryland (Site). The project was completed for the Maryland Department of the Environment, Oil Control Program (MDE-OCP) as detailed in CGS proposal CG-P12-1350, dated March 23, 2012, and CGS proposal CG-P13-1670, dated August 8, 2013.

1.0 INTRODUCTION

1.1 Property Description

The Site includes properties along both sides of the 200 block of Najoles Road, on the east side of Severn Run Natural Environment Area, and on the west side of the 8000 Block of Veterans Highway (Route 97), in Millersville, Maryland, as shown on Figure 1. Najoles Road runs from south to north, and terminates in a cul-de-sac at the north end of the Site. The Site is comprised of six commercial and government properties, including a storage area for a pool company (J.P. Adcock), a propane distribution company (United Propane), a parcel of Anne Arundel County property, a parcel of Maryland State Highway Administration property, an office and warehouse building (Lallie), and several small light-industrial businesses (Royals). The Site is approximately 15 acres in area, and the properties at the Site are found on Tax Map No. 22. There are residential properties located adjacent to the south end of the Site, on Serendipity Dr. The potable water sources for the properties at the Site and the residential properties in the site vicinity are private supply wells.

1.2 Background

On the eastern side of Veterans Highway from the Site, there is an MDE-OCP leaking underground storage tank (UST) case at the New Transit Truck Stop, located at 8400 Veterans Highway (Tax Map 22, Parcel 336). The truck stop includes 3.21 acres of land with a restaurant, vehicle maintenance and fueling services, a former UST

tank field, a currently operating UST system(s), and a potable supply well. On September 11, 2006, a release of 4,245 gallons of diesel fuel was discovered during a UST system closure, and MDE-OCP Case Number 2007-0124AA was opened. Vacuum trucks and a dewatering skimmer system were deployed and 96.49 tons of impacted soil was removed. MDE-OCP issued Complaint Order No. COV-OCP-2007-010 on August 20, 2007. From March 19 through May 18, 2009, UST system closures and remediation were performed. Four USTs, eight fuel dispensers, and 765 ft of trench were removed in addition to 3,136 tons of contaminated soil. The truck stop is currently listed on the MDE-OCP list of open subsurface remediation sites.

At least four environmental assessments have been performed at the truck stop, including two direct-push/Geoprobe® Investigations in 2002 and 2006, a site assessment in 2008 and 2009 (Envirotech, 2009), and an updated site conceptual model in 2011 (Envirotech, 2011). The 2008 to 2009 site assessment included the installation of 10 monitoring wells and 22 Geoprobe® soil borings. The 2011 work included the installation of three monitoring wells installed in a deeper aquifer than other monitoring wells at the truck stop, and soil and groundwater sampling. Detected contaminants included benzene, toluene, ethylbenzene, and toluene (BTEX), methyl tert-butyl ether (MTBE), total petroleum hydrocarbons (TPH) – diesel-range organics (DRO), and TPH – gasoline-range organics (GRO) in soil and groundwater. The potable supply well at the property adjacent to the truck stop was sampled prior to the 2011 assessment, petroleum-related contaminants were detected in the sample, and other supply wells in the vicinity of the truck stop were then sampled.

MDE-OCP collected potable supply well water samples at the Veterans-Najoles Site, and petroleum-related compounds were detected in some of the samples at concentrations exceeding the MDE Groundwater Standards for Type I/II Aquifers (MDE Standards). Detected concentrations of benzene, MTBE, and naphthalene exceeded the MDE Standards by two to three orders of magnitude in samples at Lallie, United Propane, and Royals. The truck stop is located at a higher elevation than the Site, in the presumed upgradient direction from the Site, and the truck stop was considered to be a possible source of the petroleum-related contaminants detected in the samples collected from supply wells at the Site.

1.3 Regional Topography, Geology, and Hydrogeology

The Site is located on the United States Geological Survey (USGS) 7.5-Minute Odenton, Maryland topographic quadrangle map, dated 1979 (Figure 1). The topography at the Site is generally flat, with a downward slope in the northwest corner, and a gentle slope from the east toward the west. The nearest surface water feature is a tributary of Severn Run that flows from the northeast to the southwest, across the northwest edge of the Site. Severn Run runs north to south approximately 1,000 feet west of the site. Based upon the topography in the vicinity of the Site, groundwater is presumed to move to the west, toward the tributary of Severn Run. The Envirotech reports state that at the truck stop, groundwater flow in the shallow aquifer is toward the east-southeast and groundwater flow in the deeper, confined aquifer is toward the southwest. The elevation at the Site is approximately 75 feet above mean sea level (ft msl) on average, with the lowest point being 65 ft msl in the northwest corner near the tributary and the highest point being 86 ft msl in the northeast corner at the pool company storage yard. The elevation at the truck stop is approximately 100 ft msl. The Site is located within the Western Shore Uplands Region of the Atlantic Coastal Plain Physiographic Province (MGS 2008). This Region is characterized by flat to rolling upland terrain with fluvial and estuarian terraces, underlain by Cretaceous to Pliocene sediments. The geologic formation mapped at the Site is the Cretaceous-aged Potomac Group, which is characterized by unconsolidated, interbedded quartzose gravels, sands, and multicolored silts and clays, with gravel being the predominant component and clays being the least prevalent of the components (MGS 1968).

2.0 SUBSURFACE INVESTIGATION METHODOLOGY AND OBSERVATIONS

The purpose of the subsurface investigation (SI) was to determine shallow soil types and to investigate for potential contamination from local sources in the upper 40 feet of fine-grained soils. The information from

logging and sampling soil and groundwater during the SI was also intended to guide the potential installation of groundwater monitoring wells. The local hydrogeology described in the Envirotech reports characterized the deeper sand aquifers to be confined, and CGS determined that mud-rotary drilling would be necessary to install groundwater monitoring wells. The SI included advancing eight soil borings and collection and laboratory analysis of soil and grab groundwater samples. The SI also included a subsurface utility clearance, and establishing the coordinates of various site features using a Global Positioning System (GPS). The following text describes the project methodology and results of the SI.

2.1 Site Visit, Utility Clearances, HASP

Miss Utility was contacted to clear public utilities at the Site prior to initiation of the SI. A site visit was completed by CGS personnel on June 8, 2012, to mark out twelve potential soil boring locations, check the public utility markings, complete private utility clearances, identify access constraints, and to coordinate with the property owners. Edwards Utility Mapping Corporation performed the private utility clearance and confirmed the public utility markings. Soil boring locations were adjusted in cases where there were utility conflicts. A Health & Safety Plan (HASP) was prepared for the field work at the Site to address general and site-specific hazards.

2.2 Soil Boring Program

The SI was conducted on June 11-15, 2012. Eight soil borings were completed at the locations shown on Figure 2. Boring locations were positioned so as to achieve the maximum possible site coverage. Photographic documentation of the Geoprobe® activities is included in Attachment A.

Soil borings were advanced using a track-mounted Geoprobe® Model 6620DT DPT rig (June 11) and a Geoprobe® Model 7822DT DPT rig (June 13 and 15) operated by Tidewater, Inc. The borings were advanced to total depths ranging from 30 to 40 feet below grade (ft BG). The target depth was 40 ft BG, but Geoprobe® refusal was encountered in five of the eight soil borings: B-4, B-5, B-6, B-8, and B-10.

A Geoprobe® Macrocore sampling tool was used to retrieve continuous soil core from each boring. A CGS geologist supervised the soil boring program, logged the soil core from each boring, and screened the core for volatile organic compounds (VOCs) using a photoionization detector (PID). All down-hole sampling equipment was decontaminated between each boring by using an Alconox soap solution, potable water rinse, and a distilled water rinse. A clean acetate liner was fitted into the Macrocore sampler for each length of core.

The field monitoring data obtained from each boring are summarized in Table 1. PID readings above background levels were continuously yielded by recovered soil from all borings, but were generally low. PID readings exceeding 30 parts per million (ppm) were encountered in only two of the eight soil borings (B-4 and B-2), and the elevated reading in B-2 was isolated. All PID readings from the other six soil borings were less than 15 ppm. The highest PID reading (124.2 ppm) was recorded at B-4 at 2.5 ft BG. Elevated PID readings were also yielded by soil from B-4 to a depth of 25 ft BG. Detailed PID readings are included on the soil boring logs presented in Attachment B.

Soil samples for potential VOC analysis were collected using terra-core sampling kits according to USEPA Method 5035. A separate container for TPH-GRO and TPH-DRO analyses was also filled. One soil sample was chosen for laboratory analysis from each soil boring, and a second sample was also collected from the bottom of boring B-4. The selected sample interval corresponded to the highest PID reading from each boring, with the exception of B-2, B-5, and B-11. The highest PID readings at B-2 and B-11 were measured in material that was carried down from the surface, so the samples were collected at depths of subsequent high PID readings. B-5 (21.5 ft BG) was collected from the groundwater interface. Soil sample locations/depths are shown on the boring logs (Attachment B). A duplicate sample was collected from B-5 (21.5 ft BG). All soil samples were submitted to Air,

Water, and Soil Laboratories, Inc. (AWS) in Richmond, Virginia, for laboratory analysis of VOCs by USEPA Method 8260B, and for TPH-GRO and TPH-DRO by USEPA Method 8015C.

2.3 Grab-Groundwater Sampling

A grab groundwater sample was collected from each boring using a Geoprobe® screen-point sampling tool, peristaltic pump, and disposable tubing. One duplicate groundwater sample (DUP-GW), one field blank (FB-VN), and one trip blank (TB-VN) were also collected. The duplicate groundwater sample was collected from B-2. The samples were submitted to AWS for laboratory analysis of VOCs via USEPA Method 8260B. A groundwater sample was not obtained from soil boring B-4 due to soil sampling tools being stuck inside the borehole at ~32 ft BG in hard, well-graded sand. The soil sampling tools were retrieved after mobilization of the larger Geoprobe® rig to the Site.

Upon completion of the soil borings and grab-groundwater sampling, the sample tools were withdrawn and the borehole was sealed with soil cuttings and granular bentonite. The surface at each location was patched with asphalt or topsoil to match the surrounding ground surface.

2.4 GPS Survey

A Trimble® GeoXH digital GPS and a Zephyr Rover antenna were used to establish the Maryland State Plane coordinates of the soil boring locations and various Site features, on June 14, 2012, in order to aid in the production of a Site map. A table of the GPS coordinates is included as Attachment C.

3.0 INVESTIGATION RESULTS

3.1 Site Lithology

The soil borings were continuously logged and screened with a PID. Groundwater was generally encountered at depths between 30 and 35 ft BG. However, at soil boring B-6, groundwater was encountered at 24 ft BG. At B-8, perched groundwater was encountered at 17 ft BG, and at soil boring B-5 (which was advanced at a location that is lower in elevation than the other soil borings), groundwater was encountered at 21 ft BG. The deepest groundwater was encountered at B-2, at 37.5 ft BG. Liquid-phase hydrocarbon (LPH) was not observed in any of the six soil borings.

The predominant soil type encountered in the soil borings was sand. A thin silt layer (0.5 to 2.0 feet thick) was observed in B-1, B-8, and B-10, and a thicker silt layer (5 to 7 feet thick) was observed in B-2, B-4, and B-5. A thin clay layer was observed in B-1 and B-10, and thicker clay layers were observed in B-2, B-6, and B-8. The silt and clay layers were discontinuous and did not constitute a confining layer. The reports from Envirotech describe a confining unit at approximately 40 ft BG at the truck stop on the east side of Veterans Highway, underlain by wet sand. The only boring at which a potential confining layer was observed was boring B-2, where a clay layer five feet thick was encountered from 32.5 to 37.5 ft BG, underlain by wet sand. Boring B-2 is located in the far northeast corner of the Site, and is the closest boring to the New Transit Truck Stop.

3.2 Soil and Groundwater Analytical Laboratory Results

The analytes detected in the soil and grab-groundwater samples are presented in Tables 2 and 3, respectively. The results are reported in milligrams per kilogram (mg/kg) or ppm for the soil samples, and in micrograms per liter [$\mu\text{g/L}$ or parts per billion (ppb)] for the groundwater samples. Concentrations for analytes detected above the Limits of Detection (LODs) are shown on the tables in bold text. The soil analytical data were compared to MDE Residential Soil Cleanup Standards, and the groundwater analytical data were compared to MDE Groundwater

Standards for Type I and II Aquifers (MDE 2008). The results of the screening are shown on the tables. Detected analyte concentrations which exceed the MDE Standards are underlined and shown in bold red text. Analytes detected above the LODs but below their respective Limit of Quantitation (LOQ) are flagged with a “J” qualifier and are considered to be estimated concentrations. The laboratory reports and COC documentation for the soil and groundwater samples are included in Attachment D.

3.2.1 Soil Sampling Results

Detected analyte concentrations in the soil samples are presented in Table 2. No VOC or TPH-GRO concentrations were detected in the soil samples. TPH-DRO was detected in one soil sample (B-4, at 2.5 ft BG), at a concentration of 22.2 mg/kg. Concentrations of all other analytes in all other samples were less than their respective LODs. The detected concentration of TPH-DRO in B-4 (2.5 ft BG) did not exceed the MDE Standard of 230 mg/kg. Figure 3 shows the soil sample analytical results for TPH-DRO.

3.2.2 Grab-Groundwater Sampling Results

Detected analyte concentrations in the grab-groundwater samples are presented in Table 3. Nine VOCs were detected at concentrations exceeding their respective LODs. Three of the ten detected analytes were detected at concentrations exceeding their respective LOQs (acetone, chloroform, and MTBE). No VOCs were detected at concentrations exceeding their respective MDE Standards. Two of the detected VOCs, acetone and methylene chloride, are common laboratory contaminants. MTBE, toluene, and m,p-xylenes were the only petroleum-related VOCs detected in the grab-groundwater samples. MTBE was detected in B-5-GW at a concentration of 13.4 µg/L. Toluene was detected in five samples and m,p-xylenes was detected in one sample, all at concentrations below their respective LOQs. Figure 4 shows the grab-groundwater sample analytical results.

No VOCs were detected in the field blank (FB-VN), and one VOC, methylene chloride, was detected at a concentration of 1.0 µg/L in the trip blank (TB-VN), which is below the LOQ and is therefore considered an estimated concentration.

4.0 SITE CHARACTERIZATION DISCUSSION

The results of the SI were reviewed to gain information regarding the presence of petroleum-related contamination in soil and groundwater at the Site and any possible on-site sources, and regarding shallow soil types in the upper 40 feet of the subsurface. In summary, the results of the SI indicate the following:

- The predominant soil type encountered in the soil borings was sand. Single, thin silt layers were observed in three soil borings and single, thicker silt layers were observed in three soil borings. Similarly, one thin clay layer was observed in each of two soil borings, and thicker clay layers were observed in three soil borings. The silt and clay layers were discontinuous and did not constitute a confining layer. The lithology at the truck stop on the east side of Veterans Highway reportedly includes a confining layer at approximately 40 ft BG, underlain by wet sand. The only boring at the Site at which a potential confining layer was observed was boring B-2, which is located in the far northeast corner of the Site, closest to the New Transit Truck Stop.
- Static groundwater levels were not measured, but the depths to groundwater observed in the eight soil borings varied between 17 ft BG (perched groundwater at B-8) and 37.5 ft BG at B-2. The depth to groundwater in four of the soil borings was between 30 and 35 ft BG. Based upon topography and surface water features in the site vicinity, the shallow groundwater flow direction may be from the east to the west. It should be noted that the supply wells at the Site are screened from intervals greater than 100 feet deep.

- Field data do not indicate any release(s) or potential source areas for the petroleum-related contaminants detected in drinking water samples from the Site. Most of the PID readings measured during continuous soil sampling at the Site were less than 15 ppm. One isolated PID reading elevated above 30 ppm was observed in soil boring B-2, and B-4 was the only soil boring with PID readings greater than 20 ppm through a significant portion of the soil boring depth.
- Laboratory data do not indicate any release(s) or potential source areas for the petroleum-related contaminants detected in drinking water at the Site. No VOCs or TPH-GRO were detected in any of the soil samples, and TPH-DRO was detected in only one soil sample (B-4 at 2.5 ft BG) at a concentration (22.2 mg/kg) below the MDE Standard of 230 mg/kg. Only three petroleum-related VOCs were detected in the groundwater samples collected, and none of the concentrations exceeded their respective MDE Standards.
- Although the Site includes approximately 15 acres, and only eight soil borings were completed in locations evenly distributed throughout the Site, none of the field or laboratory data indicate a significant source of contamination. However, the soil boring locations were spaced too widely to rule out an on-site source of the supply well contamination.

5.0 LIMITATIONS

The work performed in conjunction with this project, and the data developed, are intended as a description of available information at the sample locations and depths indicated and the dates specified. Generally accepted industry standards were used in the preparation of this report.

Laboratory data are intended to approximate actual conditions at the time of sampling. Results from future sampling and testing may vary significantly as a result of natural conditions, a changing environment or the limits of analytical capabilities. This report does not warrant against future operations or conditions, nor does it warrant against operations or conditions present of a type or at a specific location or depth not investigated. The limited sampling conducted is intended to approximate subsurface conditions by extrapolation between data points. Actual subsurface conditions may vary.

CGS has based its conclusions on observable conditions and analytical results from an independent analytical laboratory which is solely responsible for the accuracy of its methods and results.

6.0 REFERENCES

Envirotech Consultants, LLC, November 30, 2009, Site Assessment Report, The New Transit Truck Stop. Prepared for Eastern Petroleum Corporation and submitted to MDE-OCP.

Envirotech Consultants, LLC, November 11, 2011, Updated Site Conceptual Model, The New Transit Truck Stop. Prepared for Eastern Petroleum Corporation and submitted to MDE-OCP.

Maryland Department of Assessments and Taxation (MDAT), May and June 2012, Real Property Data Search (VW2.2A), Anne Arundel County.

Maryland Department of the Environment (MDE), June 2008, Clean-up Standards for Soil and Groundwater, Interim Final Guidance (Update No. 2.1).

MDE-OCP, August 7, 2008, Site Fact Sheet - Environmental Investigation, New Transit Truck Stop, MDE Case No. 2007-0214-AA.

Maryland Geological Survey (MGS), September 2008, Draft Physiographic Map of Maryland, by James P. Reger, Emery T. Cleaves, and Towson University Geographic Information System (GIS).

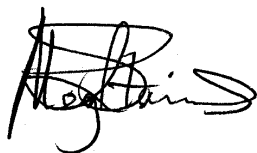
MGS, 1968, Geologic Map of Maryland (by Emery T. Cleaves and others).

US Geological Survey (USGS), 1979, 7.5 Minute Series Topographic Map, 1:24,000 scale, Odenton, Maryland Quadrangle, compiled by National Geographic TOPO! Software ©2008.

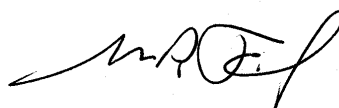
CGS is pleased to have the opportunity to prepare this report for the Maryland Department of the Environment Oil Control Program. If there are any questions, please feel free to contact our office in Columbia, Maryland at (410) 740-1911, or by email at mstaines@cgs.us.com. Our facsimile number is (410) 740-3299.

Sincerely,

Chesapeake GeoSciences, Inc.



Meg Staines, PG
Project Geologist



Sean P. Daniel
Principal

cc: Andrew Miller, MDE-OCP
Project File

Figures

- Figure 1 – Site Location Map
- Figure 2 – Soil Boring Location Map
- Figure 3 – Analytical Results for TPH-DRO in Soil Samples
- Figure 4 – Analytical Results for VOCs in Grab-Groundwater Samples

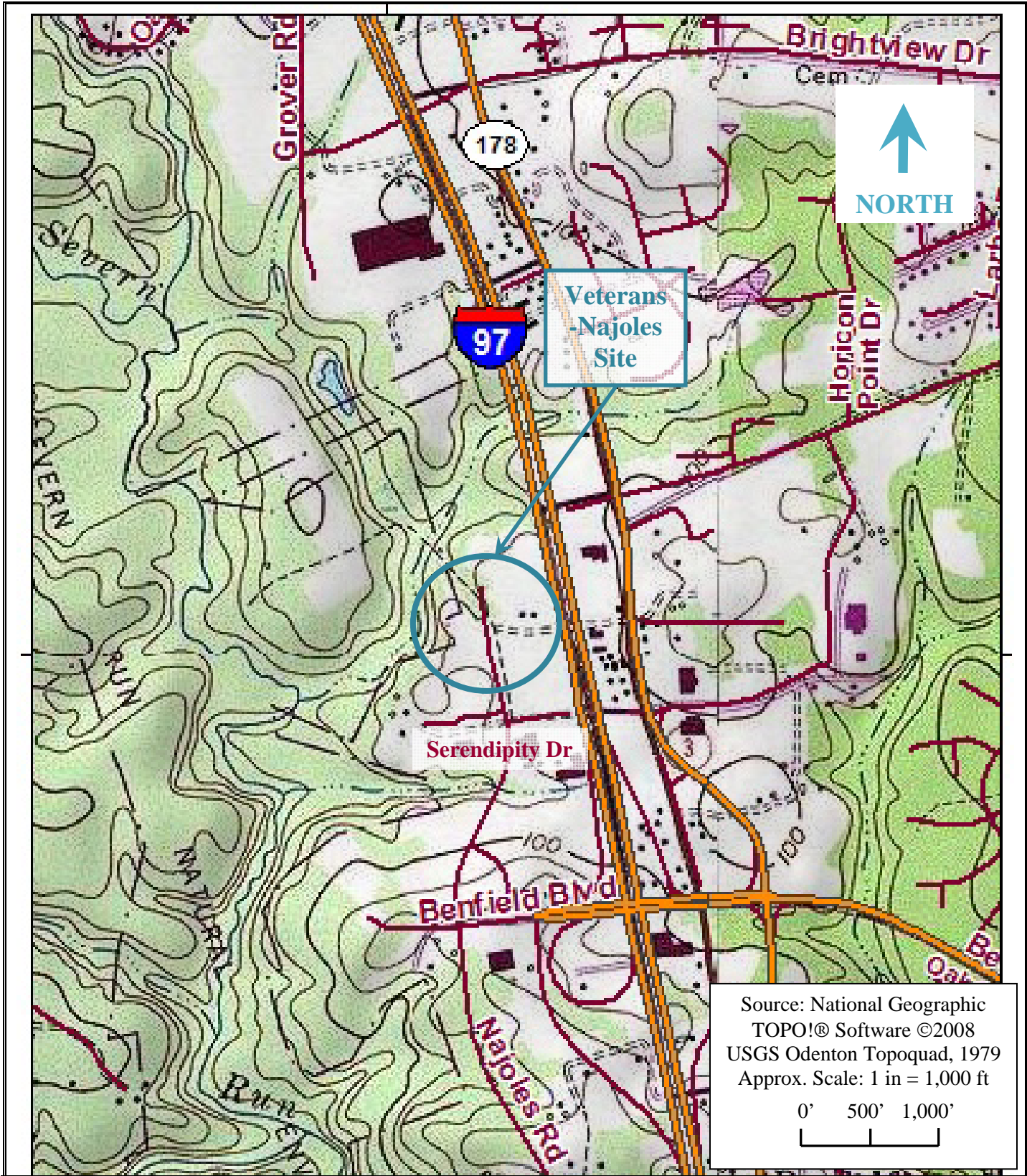
Tables

- Table 1 – Summary of Soil Borings and Samples
- Table 2 – Soil Sample Analytical Results - Detected Analytes
- Table 3 – Grab Groundwater Sample Analytical Results - Detected Analytes

Attachments

- Attachment A – Photographic Documentation
- Attachment B – Soil Boring Logs
- Attachment C – GPS Coordinates of Soil Boring Locations and Site Features
- Attachment D – Soil and Groundwater Sample Laboratory Analytical Results

FIGURES



Drawn By:	Date:
MIS	08/12/13
Job #:	Proj. Mang.:
CG-09-0525	SPD



5405 Twin Knolls Rd., Suite 1
 Columbia, MD 21045
 Phone (410) 740-1911
 FAX (410) 740-3299

Figure 1: Site Location Map
Veterans-Najoles Site
Najoles Road
Millersville, MD 21108
MDE-OCP Case No. 2008-0510AA

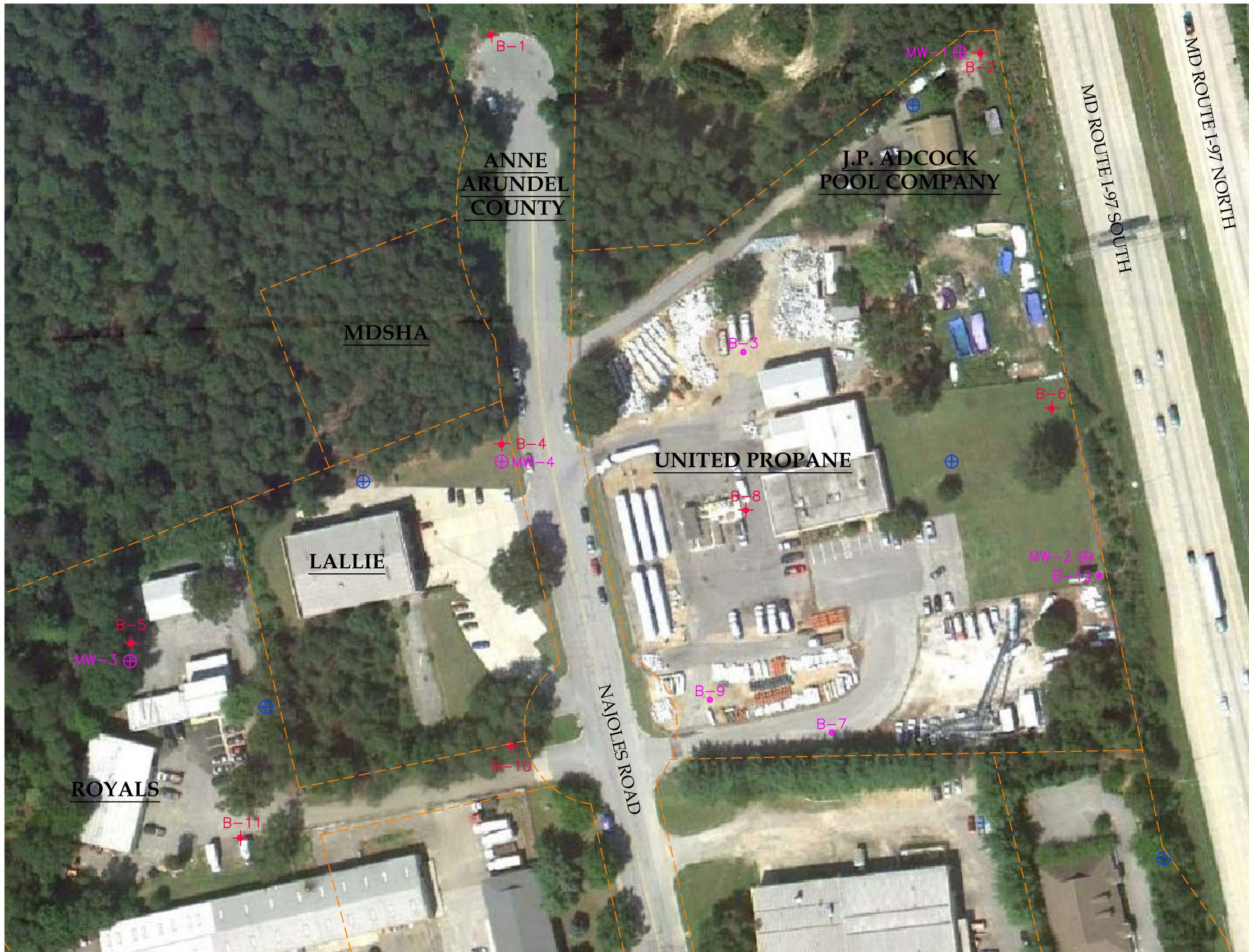


FIGURE 2
Proposed Monitoring Well
Locations
Subsurface Investigation

Veterans-Najoles Site
Najoles Road
Millersville, MD 21108
MDE-OCP Case No. 2008-0510AA

CGS Project No. CG-09-0525.04
Prepared by: M. Walsh
Date: 06-28-12

LEGEND

- B-6 Completed Soil Boring Location
- B-7 Planned Soil Boring Location Not Drilled
- ⊕ Potable Domestic Water Supply Well
- ⊞ Approximate Property Boundaries
- ⊕ Proposed Monitoring Well Location

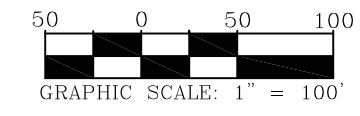






FIGURE 3
Analytical Results for
TPH-DRO in Soil Samples
Subsurface Geoprobe
Investigation

Veterans-Najoles Site
Najoles Road
Millersville, MD 21108
MDE-OCP Case No. 2008-0510AA

CGS Project No. CG-09-0525.06
Prepared by: M. Walsh & L. Bennett
Date: 08-12-13

LEGEND

-  B-6 Completed Soil Boring Location
-  B-7 Planned Soil Boring Location Not Drilled
-  Potable Domestic Water Supply Well
-  Approximate Property Boundaries

Soil Sample Analytical Results (mg/kg):

2.5'	DRO	22.2
TPH-DRO Concentrations		

ND Not Detected

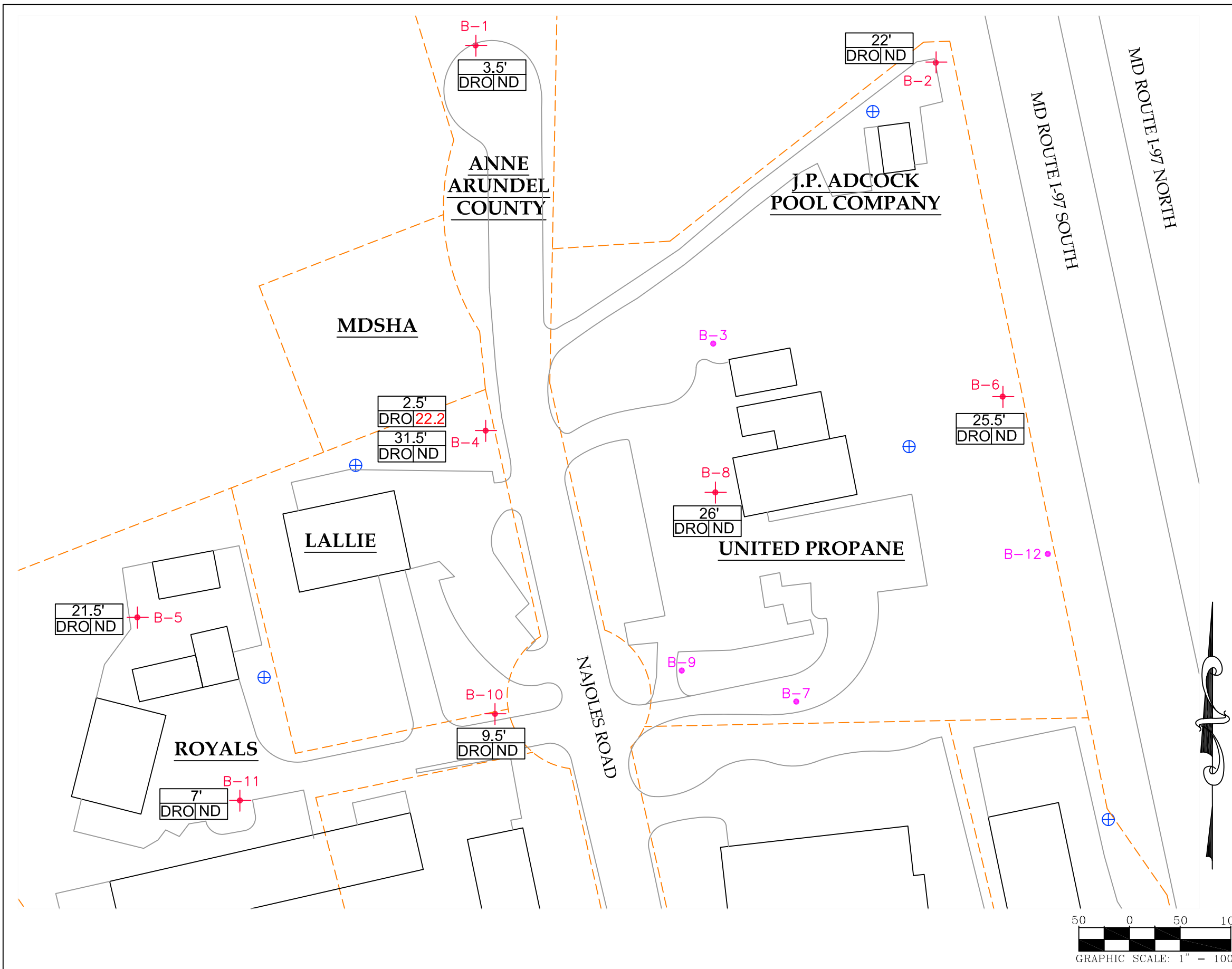






FIGURE 4
Analytical Results for VOCs
in Grab Groundwater Samples
Subsurface Geoprobe
Investigation

Veterans-Najoles Site
Najoles Road
Millersville, MD 21108
MDE-OCF Case No. 2008-0510AA

CGS Project No. CG-09-0525.06
Prepared by: M. Walsh & L. Bennett
Date: 08-12-13

LEGEND

-  B-6 Completed Soil Boring Locations
-  B-7 Planned Soil Boring Location Not Drilled
-  Potable Domestic Water Supply Well
-  Approximate Property Boundaries

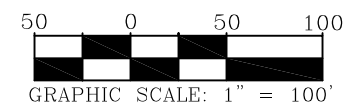
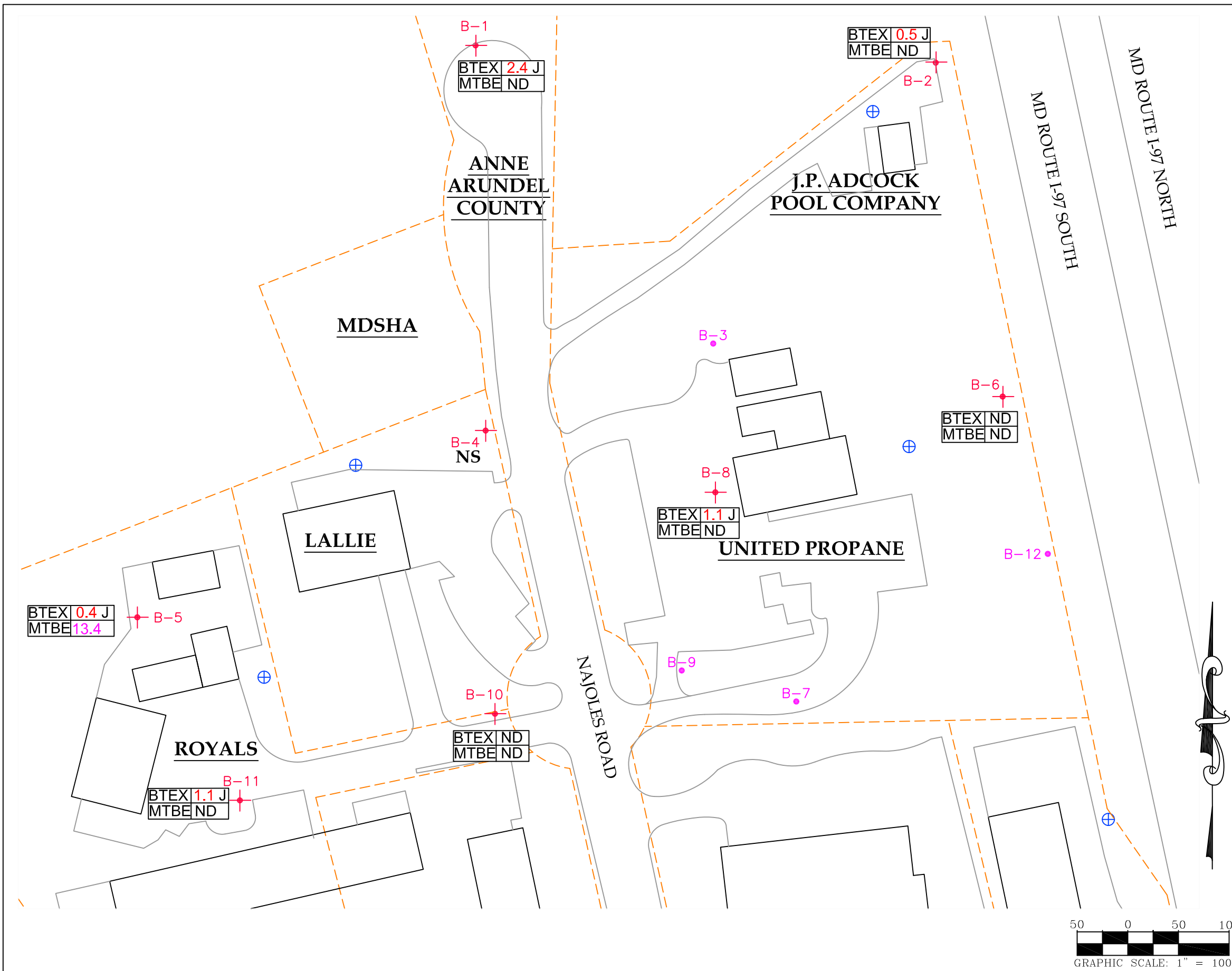
Groundwater Sample Analytical Results (ug/kg):

BTEX	0.4	J
MTBE	13.4	

BTEX Concentrations
MTBE Concentrations

ND Not Detected

NS Not Sampled



TABLES

Table 1
Veterans-Najoles Groundwater Investigation (MDE-OCP Case No. 2008-0510AA)
8000 Block Veterans Highway, Millersville, MD 21108
Subsurface Investigation
Summary of Soil Borings and Samples
June 11, 13, and 15, 2012

Soil Boring ID	Total Depth (ft BG)	Max PID (ppm)	Depth of Max PID (ft BG)	Soil Sample Depth (ft BG)	GW Sample Collected?	Notes
B-1	40	8.8	3.5	3.5	Yes	PID readings 4-40 ft BG < 6 ppm
B-2	40	32.8	5.5	22	Yes	PID at 5.5 ft BG was in organic material. All other PIDs < 4 ppm. Duplicate soil sample DUP-GW
B-4	32	124.2	2.5	2.5 31.5	No	Elevated PID readings 0-25 ft BG PID readings 25-32 ft BG < 9 ppm Macrocore stuck in bottom of borehole for two days.
B-5	30	7.5	27.5	21.5	Yes	PID readings 0-27 ft BG all zero. Sampled at groundwater interface Duplicate soil sample B-DUP
B-6	36	14.8	25.5	25.5	Yes	PID readings 0-13 ft BG all zero.
B-8	35	4.9	26	26	Yes	PID 0-21.5 ft BG all 0-0.1 ppm.
B-10	36	14.4	9.5	9.5	Yes	PID readings 12-34 ft BG all zero.
B-11	40	7.0	13.5	7	Yes	PID readings 28-40 ft BG all zero.

PID - Photoionization Detector

ft BG - Feet Below Grade

ppm - Parts Per Million

Table 2
Veterans-Najoles Groundwater Investigation (MDE-OCP Case No. 2008-0510AA)
8000 Block Veterans Highway, Millersville, MD 21108
Subsurface Investigation
Soil Sample Analytical Results - Detected Analytes Only
June 11-15, 2012

Volatile Organic Compounds (VOCs) and Total Petroleum Hydrocarbons (TPH)

Analyte	B-1 (3.5')	B-2 (22')	B-4 (2.5')	B-4 (31.5')	B-5 (21.5')	B-DUP [B-5 (21.5')]	B-6 (25.5')	B-8 (26')	B-10 (9.5')	B-11 (7')	MDE Residential Soil Standard
Date Sampled	6/11/2012	6/11/2012	6/11/2012	6/13/2012	6/15/2012	6/15/2012	6/15/2012	6/15/2012	6/11/2012	6/11/2012	
Analytes											
Total Petroleum Hydrocarbons (TPH) - Diesel-Range Organics (DRO)(mg/kg)											
TPH-Semi-Volatiles (DRO)	<12.0	<11.5	22.2	<12.0	<12.0	<11.8	<11.4	<10.7	<11.3	<12.4	2.3E+02

Table Notes:

VOCs Analytical Method: EPA Method 8260B

TPH-GRO/DRO Analytical Method: EPA Method 8015C

mg/kg - milligrams per kilogram (parts per million)

MDE Residential Soil and Protection of Groundwater Cleanup Standards (June 2008)

< - Analyte not detected above specified Limit of Detection (LOD)

Bold - Detected analyte concentration

Underline - Detected analyte concentration or LOD exceeds respective standard.

Red, bold, and underline - Detected analyte concentration exceeds the respective MDE Residential Soil Standard.

Table 3
Veterans-Najoles Groundwater Investigation (MDE-OCP Case No. 2008-0510AA)
8000 Block Veterans Highway, Millersville, MD 21108
Subsurface Investigation
Grab Groundwater Sample Analytical Results - Detected Analytes Only
June 11-15, 2012

Volatile Organic Compounds (VOCs)

Analyte	B-1-GW	B-2-GW	Dup-GW [B-2-GW]	B-5-GW	B-6-GW	B-8-GW	B-10-GW	B-11-GW	FB-VN	TB-VN	MDE Groundwater Standard
Date Sampled	6/11/2012	6/11/2012	6/11/2012	6/15/2012	6/15/2012	6/15/2012	6/13/2012	6/15/2012	6/15/2012	6/11/2012	
Analytes											
Volatile Organic Compounds (VOCs) Concentrations (ug/L)											
2-Butanone (MEK)	2.3 J	<0.6	<0.6	2.2 J	5.9 J	5.1 J	<0.6	4.4 J	<0.6	<0.6	7.0E+02
2-Hexanone (MBK)	<0.4	<0.4	<0.4	<0.4	0.6 J	0.7 J	<0.4	<0.4	<0.4	<0.4	na
Acetone	24.0	17.5	16.3	27.9	124.0	146.0	8.7 J	<7.0	<7.0	<7.0	5.5E+02
Chloroform	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	1.1	<0.4	<0.4	<0.4	8.0E+01
m,p-Xylenes	0.6 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.0E+04
Methylene chloride	<1.0	1.2 J	1.3 J	<1.0	<1.0	<1.0	1.4 J	<1.0	<1.0	1.0 J	5.0E+00
MTBE	<0.4	<0.4	<0.4	13.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	2.0E+01
Tetrachloroethylene (PCE)	<0.4	<0.4	<0.4	<0.4	<0.4	0.5 J	<0.4	<0.4	<0.4	<0.4	5.0E+00
Toluene	0.9 J	<0.4	0.5 J	0.4 J	<0.4	0.6 J	<0.4	0.6 J	<0.4	<0.4	1.0E+03
Xylenes, Total	0.9 J	<0.5	<0.5	<0.5	<0.5	0.5 J	<0.5	0.5 J	<0.5	<0.5	1.0E+04

Table Notes:

VOCs Analytical Method: EPA Method 8260

ug/L - micrograms per liter or parts per billion (ppb)

MDE Groundwater Standard Type I and II Aquifers (June 2008)

< - Analyte not detected above specified Limit of Detection (LOD)

Bold - Detected analyte concentration

Underline - Detected analyte concentration or LOD exceeds respective standard.

Red, bold, and underline - Detected analyte concentration exceeds respective standard.

na - not applicable

J - The reported concentration is less than the Limit of Quantitation (LOQ) but greater than the LOD. The concentration is considered to be estimated.

ATTACHMENT A
PHOTOGRAPHIC DOCUMENTATION



Photo #1

**Soil Boring B-1, at north end of the
Najoles Rd. cul-de-sac, looking north**

06/11/12



Photo #2

**Soil Boring B-1, at north end of the
Najoles Rd. cul-de-sac, looking north**

06/11/12



Photo #3

Soil Boring B-6, looking north-northeast

06/15/12



Photo #4

Soil Boring B-6, looking southwest

06/15/12



Photo #5 **Soil Boring B-8, at United Propane, Inc., looking south** **06/15/12**



Photo #6 **Soil Boring B-10, at Royals Property, looking northwest** **06/15/12**

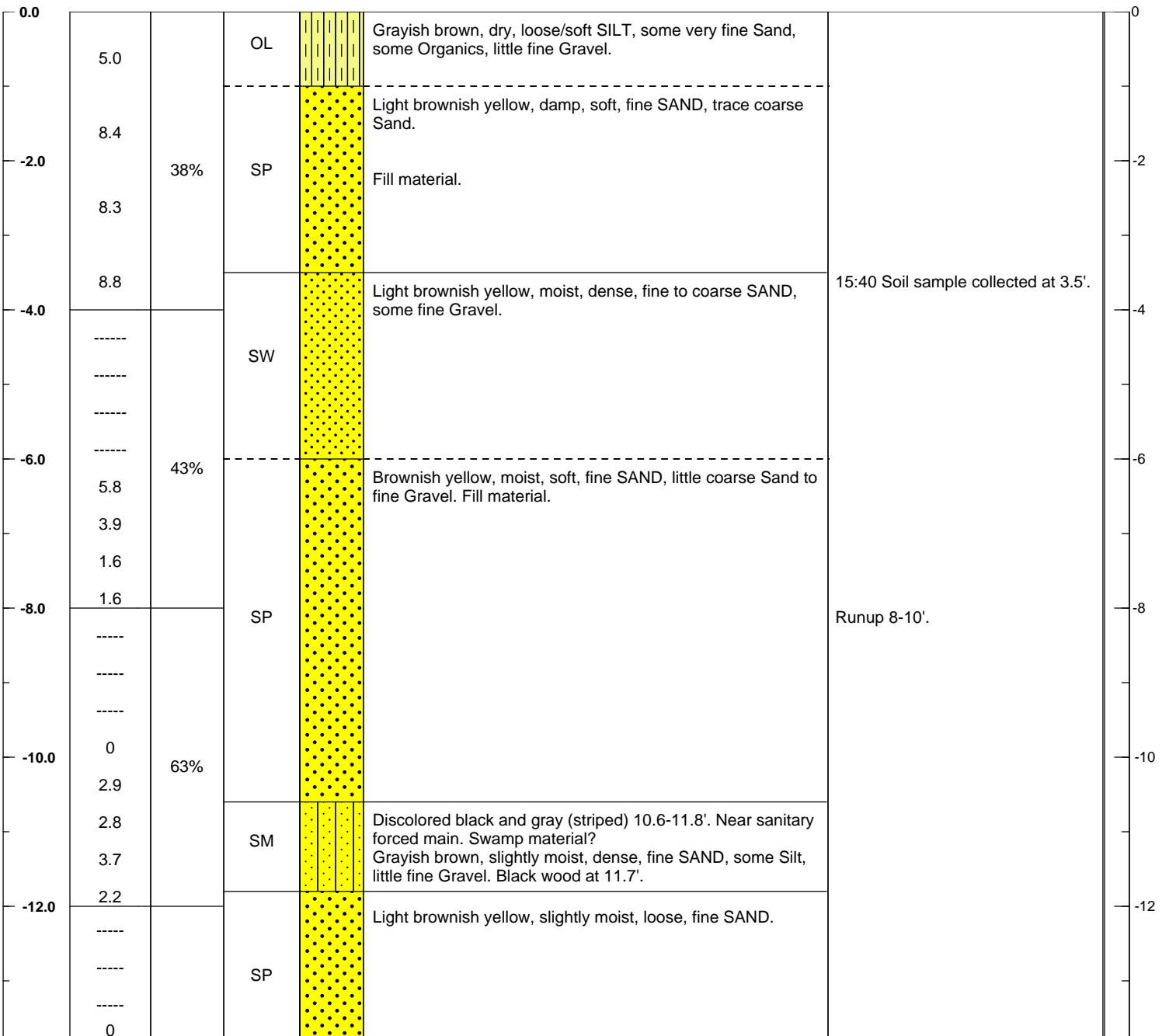


Photo #7 Soil Boring B-10, at Royals Property, looking northwest

06/15/12

**ATTACHMENT B
SOIL BORING LOGS**

PROJECT		SOIL BORING LOG		PAGE 1 OF 3	
CG-09-0525.06		B-1			
PROJECT: Veterans-Najoles Groundwater Investigation			DATE STARTED: 6/11/12 15:30		
LOCATION: North end of Najoles Road on north edge of cul-de-sac			DATE/TIME COMPLETED: 6/11/12 17:45		
DRILLING COMPANY: Tidewater, Inc.			LOGGED BY: Meg Staines		
DRILLING METHOD: Geoprobe Direct-Push 6620DT			PROJECT MANAGER: John Kosloski		
SAMPLING METHOD: Continuous Macrocore			BORING DIAMETER: 2"		BORING DEPTH: 40'
DEPTH TO GW (ft) FROM GRADE: 34.5'		DATE: 6/11/12		NOTES:	



DEPTH (ft)	PID READINGS (PPM)	RECOVERY (%)	SOIL CLASS	GRAPHIC LOG	OVERBURDEN / ROCK DESCRIPTION	NOTES
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
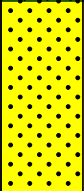
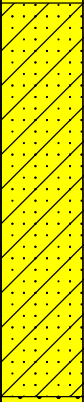
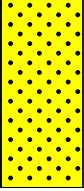
-14.0	0	63%	SP		Light brownish yellow, slightly moist, loose, fine SAND.	
	0.2					
	0					
-16.0	0.2		SC		Yellowish brown, damp, soft, very fine SAND, some Clay.	Runup 16-17.9'.

	0					
-18.0	4.1	73%	ML		Light gray and light brownish yellow, mottled with strong brown, damp, stiff, not plastic Clayey SILT.	
	0					
	0					
	0					
-20.0	0				Very pale brown, slightly moist, dense, fine SAND.	Runup 20-22.2'.

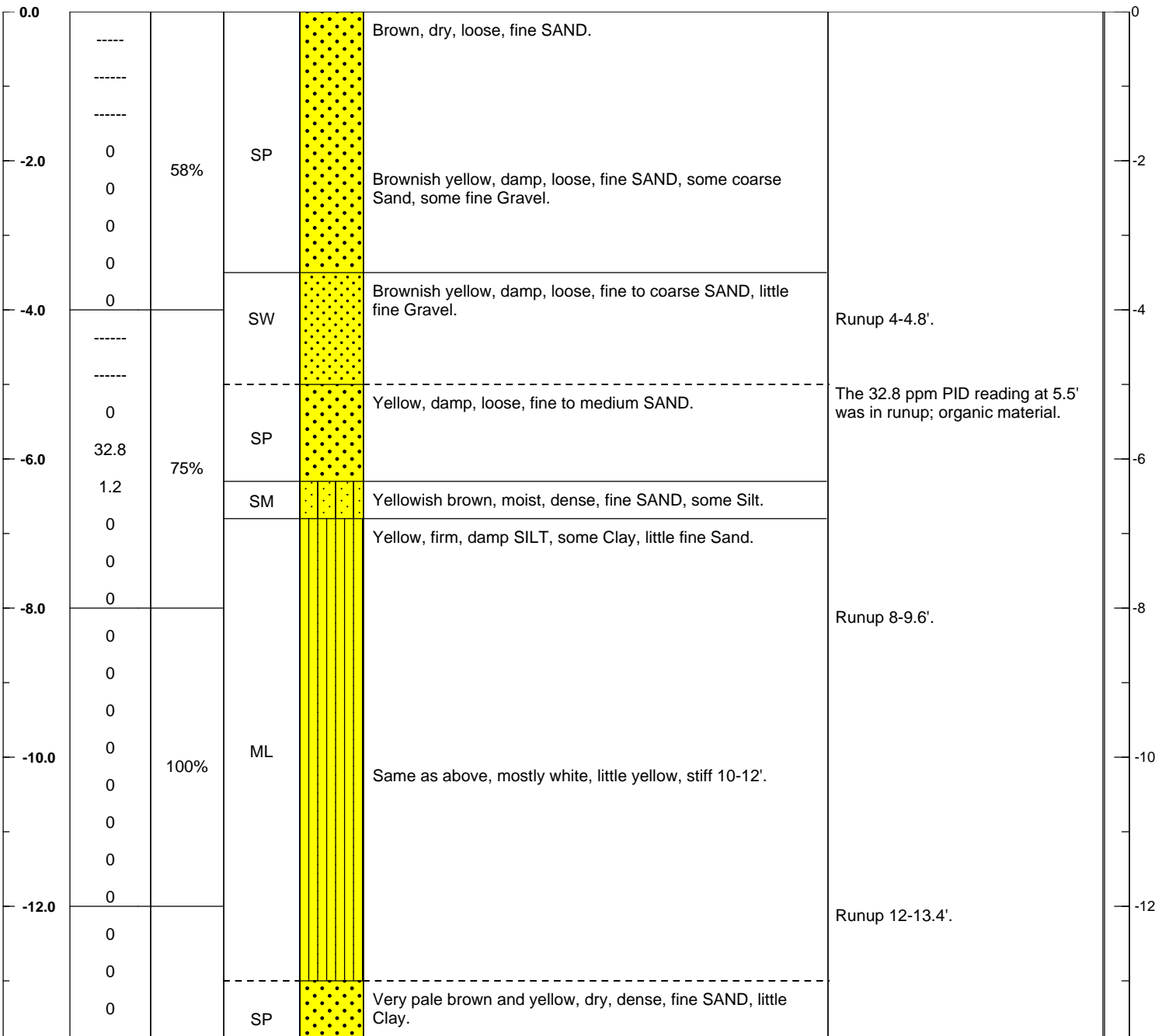
	0.8					
	1.3					
-22.0	2.8	88%			Moist 21.7-22'.	
	3.5				Trace coarse Sand to fine Gravel, trace Clay 22-24'.	
	2.4				Mottled with yellowish brown 22.6-22.9'.	
	2.3				Mottled with yellow and reddish yellow 23-24'.	
-24.0	1.5		SP		Slightly moist 22-26.5'.	Runup 24-26.2'.

	0					
-26.0	0	75%			Light brownish yellow, mottled with yellow and very pale brown, damp, hard, fine SAND, little Clay 26.2-27.5', little Clay stringers 27.5-28'.	
	0					
	0					
	0					
-28.0	0					Runup 28-29.3'.
	0.2		SW		Reddish yellow, slightly moist, fine to coarse SAND, some fine to coarse rounded Gravel.	
	0.1					
-30.0	0	93%	CL		White, mottled with yellow, damp, very stiff, slightly plastic Silty CLAY.	
	0					
	0					
	0					

DEPTH (ft)	PID READINGS (PPM)	RECOVERY (%)	SOIL CLASS	GRAPHIC LOG	OVERBURDEN / ROCK DESCRIPTION	NOTES
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	0		CL		Same as above.	
-32.0	0		SP		Yellow, moist, hard, fine SAND.	-32
	0				White Clay stringer at 33.4'. Color change 33.6-33.8': weak red.	-34
-34.0	0	100%	SC		Very pale brown, wet to saturated, hard, fine SAND, some white Clay stringers.	-34
	0				-36	
-36.0	0				-38	
-38.0	0	100%	SP		Very pale brown, wet, hard, fine SAND.	-38
	0				Color change at 38.7': light weak red.	-40
-40.0	0				Color change at 39.5': yellow.	17:30 Groundwater sample collected.

PROJECT CG-09-0525.06		SOIL BORING LOG B-2		PAGE 1 OF 3	
PROJECT: Veterans-Najoles Groundwater Investigation			DATE STARTED: 6/11/12 9:30		
LOCATION: NE corner of 201 Najoles Road			DATE/TIME COMPLETED: 6/11/12 12:00		
DRILLING COMPANY: Tidewater, Inc.			LOGGED BY: Meg Staines		
DRILLING METHOD: Geoprobe Direct-Push 6620DT			PROJECT MANAGER: John Kosloski		
SAMPLING METHOD: Continuous Macrocore			BORING DIAMETER: 2"		BORING DEPTH: 40'
DEPTH TO GW (ft) FROM GRADE: 38'		DATE: 6/11/12		NOTES:	



DEPTH (ft)	PID READINGS (PPM)	RECOVERY (%)	SOIL CLASS	GRAPHIC LOG	OVERBURDEN / ROCK DESCRIPTION	NOTES
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-14.0	0	100%	SC		White, dense, damp, fine SAND, some Clay.	
	0		SM		Reddish yellow, damp, loose, fine SAND, some Silt.	
	0		ML		White, stiff, damp Clayey SILT, little fine Sand seams.	
-16.0	0					
	1.0					
	2.2					
	3.7					
-18.0	1.4	100%	SP		Very pale brown, slightly damp, loose, fine SAND.	
	1.1					
	1.0					
	0.7		SM		Yellow, damp, dense, fine SAND, some Silt.	
-20.0	0.7					Runup 20-22.1'.

	0		SP		Very pale brown, slightly damp, loose, very fine SAND.	
	1.2					
-22.0	0	88%				
	0.7		SM		Yellow, damp, dense, very fine SAND, some Silt.	10:20 Soil sample collected 22-23'.
	0					
	0		CL		3" lens of very pale brown, mottled with yellow, damp, stiff Silty CLAY.	
-24.0	0					
						Runup 24-25.5'.
	In					
	Bowl:					
-26.0	Btwn	75%	SP		Same as above.	Macrocore is jammed 24-28' BG. Sample emptied into bowl.
	0					
	and					
	0.5					
-28.0						
	----					Runup 28-31.5'.

-30.0	0	50%				
	0		SC		Yellow, damp to moist, dense, fine SAND, some white Clay lenses.	
	0					

DEPTH (ft)	PID READINGS (PPM)	RECOVERY (%)	SOIL CLASS	GRAPHIC LOG	OVERBURDEN / ROCK DESCRIPTION	NOTES
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-32.0	0 0 0 0 0 0 0 0 0 0	100%	SC		Yellow, moist, dense, fine SAND, some Clay lenses.	Runup 32-32.8'.	-32
-34.0	0 0 0 0 0 0 0 0 0 0	100%	CL		Very pale brown, mottled with yellow, very slightly damp, stiff, slightly plastic Silty CLAY, little very fine Sand.		-34
-36.0	0 0 0 0 0 0 0 0 0 0	100%	SW		Yellow, damp, dense, fine to coarse SAND, little Clay.	11:30 Groundwater sample collected and duplicate.	-36
-38.0	0 0 0 0 0 0 0 0 0 0	100%	CL		Very pale brown, moist, stiff, slightly plastic Silty CLAY, little fine Sand.		-38
-40.0	0 0 0 0 0 0 0 0 0 0	100%	SP		Very pale brown, moist to wet, hard, fine SAND. Color change 38.8-39.2': yellow. Yellow, wet, hard, very fine SAND, little Silt.		-40

PROJECT CG-09-0525.06		SOIL BORING LOG B-4		PAGE 1 OF 3	
PROJECT: Veterans-Najoles Groundwater Investigation			DATE STARTED: 6/11/12 12:40		
LOCATION: NE corner of 210 Najoles Road			DATE/TIME COMPLETED: 6/11/12 11:30		
DRILLING COMPANY: Tidewater, Inc.			LOGGED BY: Meg Staines		
DRILLING METHOD: Geoprobe Direct-Push 6620DT			PROJECT MANAGER: John Kosloski		
SAMPLING METHOD: Continuous Macrocore			BORING DIAMETER: 2"		BORING DEPTH: 32'
DEPTH TO GW (ft) FROM GRADE: 30'		DATE: 6/11/12		NOTES:	



DEPTH (ft)	PID READINGS (PPM)	RECOVERY (%)	SOIL CLASS	GRAPHIC LOG	OVERBURDEN / ROCK DESCRIPTION	NOTES	
0.0	----		SP		Pale brown, dry, loose, very fine SAND, some Organics, little Silt.		
	----				Very pale brown, dry, loose, very fine SAND.		
-2.0	51.9	53%					
	67.0						
	124.2				Brownish yellow, damp, loose, fine SAND, some Silt, little coarse Sand to fine Gravel.	13:00 Soil sample collected at 2.5'.	
	7.0						
-4.0	9.8		SM			Runup 4-6.5'.	


	3.9					Very pale brown, mottled, dry, loose, fine SAND, some Silt.	
-6.0	23.0	68%					
	14.6						
	27.2						
	24.3						
-8.0	22.2					Runup 8-10'	

	0.5					Yellow, mottled, dry to damp, loose, fine SAND, some Silt.	
-10.0	9.1	78%					
	26.2						
	32.2						
	27.7				Reddish yellow, mottled with light brown, damp, dense, fine SAND and Silt.		
	32.8						
-12.0	26.8					Very pale brown, damp, firm SILT, little fine Sand.	

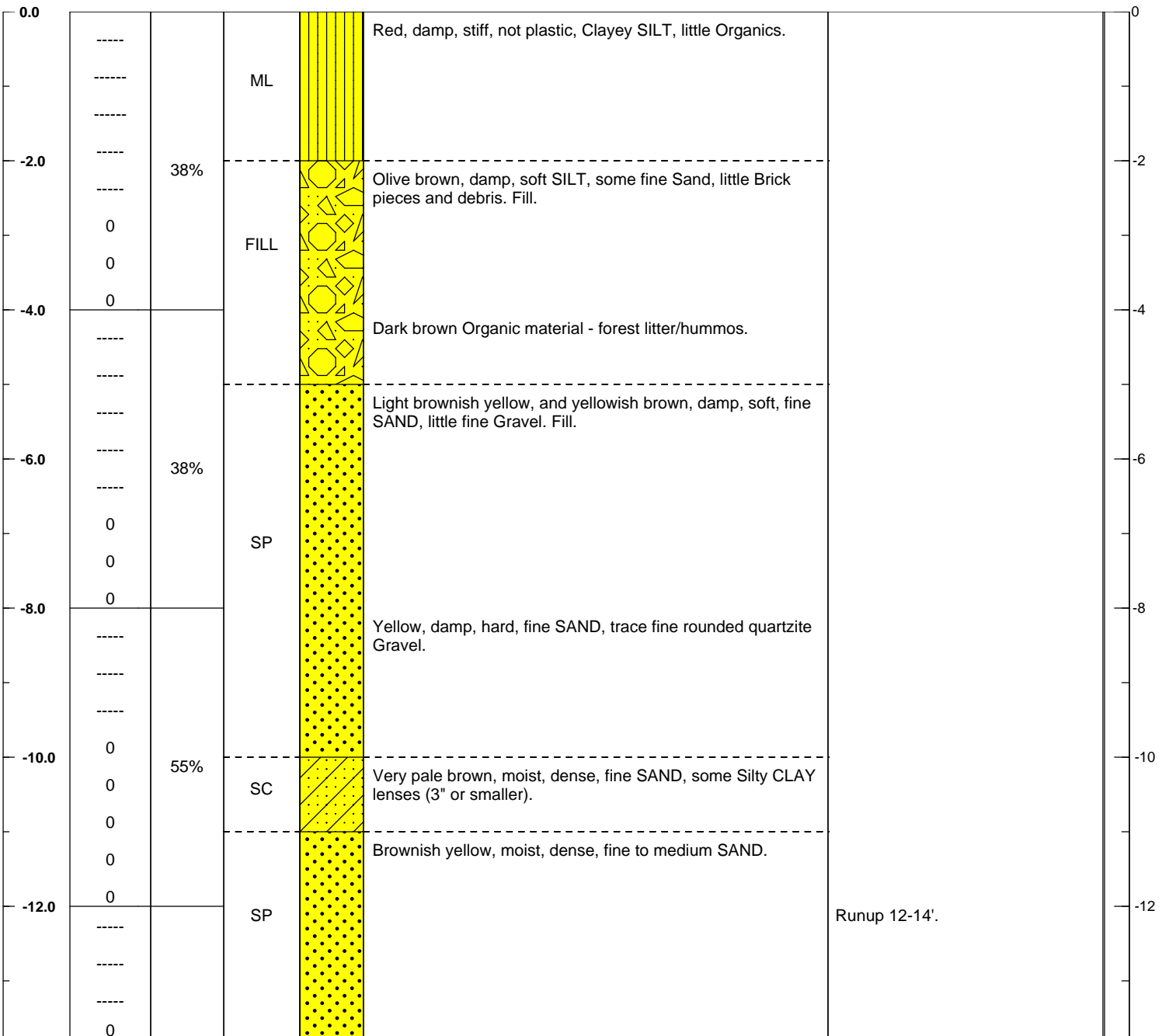
	22.6				ML		Strong brown, mottled with light gray, damp, firm SILT, little Clay.
	27.6						

DEPTH (ft)	PID READINGS (PPM)	RECOVERY (%)	SOIL CLASS	GRAPHIC LOG	OVERBURDEN / ROCK DESCRIPTION	NOTES
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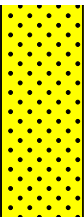
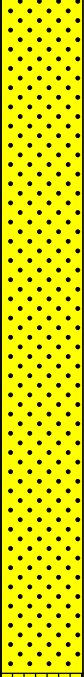
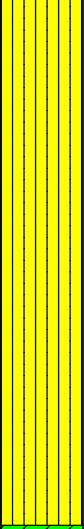


-32.0	1.9 4.2		SW		Same as above.	6/13/12 11:25 Soil sample collected at 31.5'.
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PROJECT: Veterans-Najoles Groundwater Investigation	DATE STARTED: 6/15/12 15:40	
LOCATION: Royals Property at Soda Clean Building (NW)	DATE/TIME COMPLETED: 6/15/12 17:10	
DRILLING COMPANY: Tidewater, Inc.	LOGGED BY: Meg Staines	
DRILLING METHOD: Geoprobe Direct-Push 7822DT	PROJECT MANAGER: John Kosloski	
SAMPLING METHOD: Continuous Macrocore	BORING DIAMETER: 2"	BORING DEPTH: 30'
DEPTH TO GW (ft) FROM GRADE: 21'	DATE: 6/13/12	NOTES:

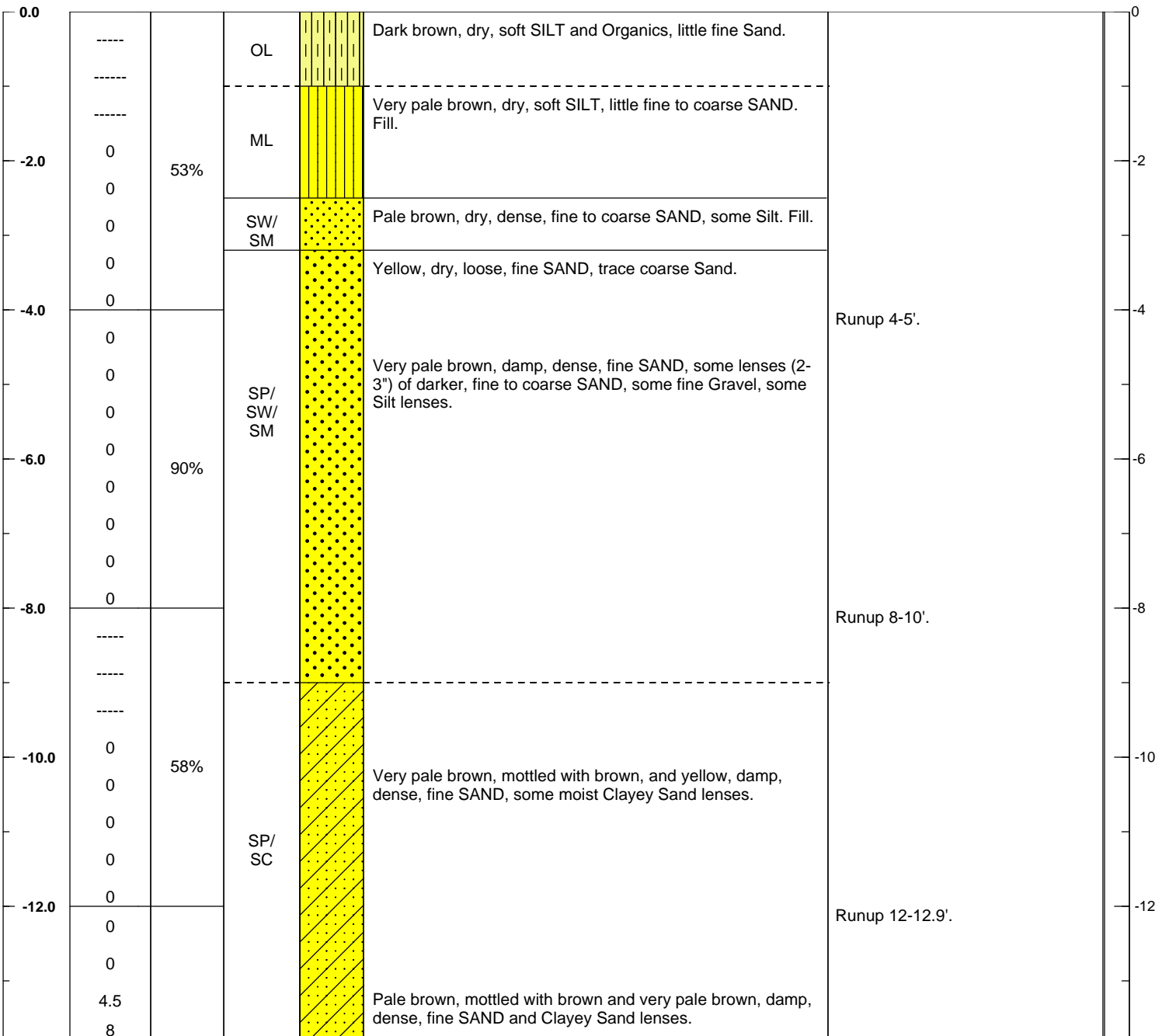
DEPTH (ft)	PID READINGS (PPM)	RECOVERY (%)	SOIL CLASS	GRAPHIC LOG	OVERBURDEN / ROCK DESCRIPTION	NOTES
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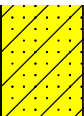

DEPTH (ft)	PID READINGS (PPM)	RECOVERY (%)	SOIL CLASS	GRAPHIC LOG	OVERBURDEN / ROCK DESCRIPTION	NOTES
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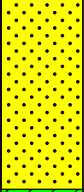

-14.0	0	63%	SP		Yellow, damp, dense, fine SAND, little fine rounded quartzite Gravel.	Runup 16-18'.
-16.0	0					
-18.0	0	75%			Yellow, damp, hard, fine SAND, trace fine rounded quartzite Gravel.	
-20.0	0					
-22.0	0	98%	ML		Light brownish yellow, wet, hard, fine to medium SAND, little coarse SAND, little fine Gravel.	16:35 Soil sample collected at 21.5'. Duplicate soil sample collected (B-Dup).
-24.0	0				White, mottled with yellow, moist, stiff, not plastic Clayey SILT, little Sand seams.	
-26.0	0	100%	ML		Yellow, wet, hard, fine to medium SAND.	Runup 24-26.5'.
-28.0	5.1				White, moist, stiff, not plastic Clayey SILT, little yellow Sand seams.	
-30.0	7.5				Damp 27-28'.	
	3.3		CL		Red, mottled with white, damp, very stiff, slightly plastic Silty CLAY.	16:55 Groundwater sample collected. Refusal at 30'.
	4.4		ML		White, mottled with red, dry, very hard Clayey SILT.	

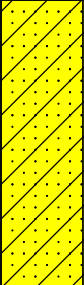
PROJECT		SOIL BORING LOG		PAGE 1 OF 3		
CG-09-0525.06		B-6				
PROJECT: Veterans-Najoles Groundwater Investigation			DATE STARTED: 6/15/12 10:38			
LOCATION: NE corner of lawn east of United Propane office			DATE/TIME COMPLETED: 6/15/12 12:45			
DRILLING COMPANY: Tidewater, Inc.			LOGGED BY: Meg Staines			
DRILLING METHOD: Geoprobe Direct-Push 7822DT			PROJECT MANAGER: John Kosloski			
SAMPLING METHOD: Continuous Macrocore			BORING DIAMETER: 2"		BORING DEPTH: 36'	
DEPTH TO GW (ft) FROM GRADE: 25.5'		DATE: 6/15/12		NOTES:		
DEPTH (ft)	PID READINGS (PPM)	RECOVERY (%)	SOIL CLASS	GRAPHIC LOG	OVERBURDEN / ROCK DESCRIPTION	NOTES


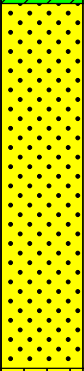
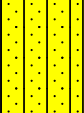



PROJECT		SOIL BORING LOG			B-6	PAGE 2 OF 3	
DEPTH (ft)	PID READINGS (PPM)	RECOVERY (%)	SOIL CLASS	GRAPHIC LOG	OVERBURDEN / ROCK DESCRIPTION	NOTES	

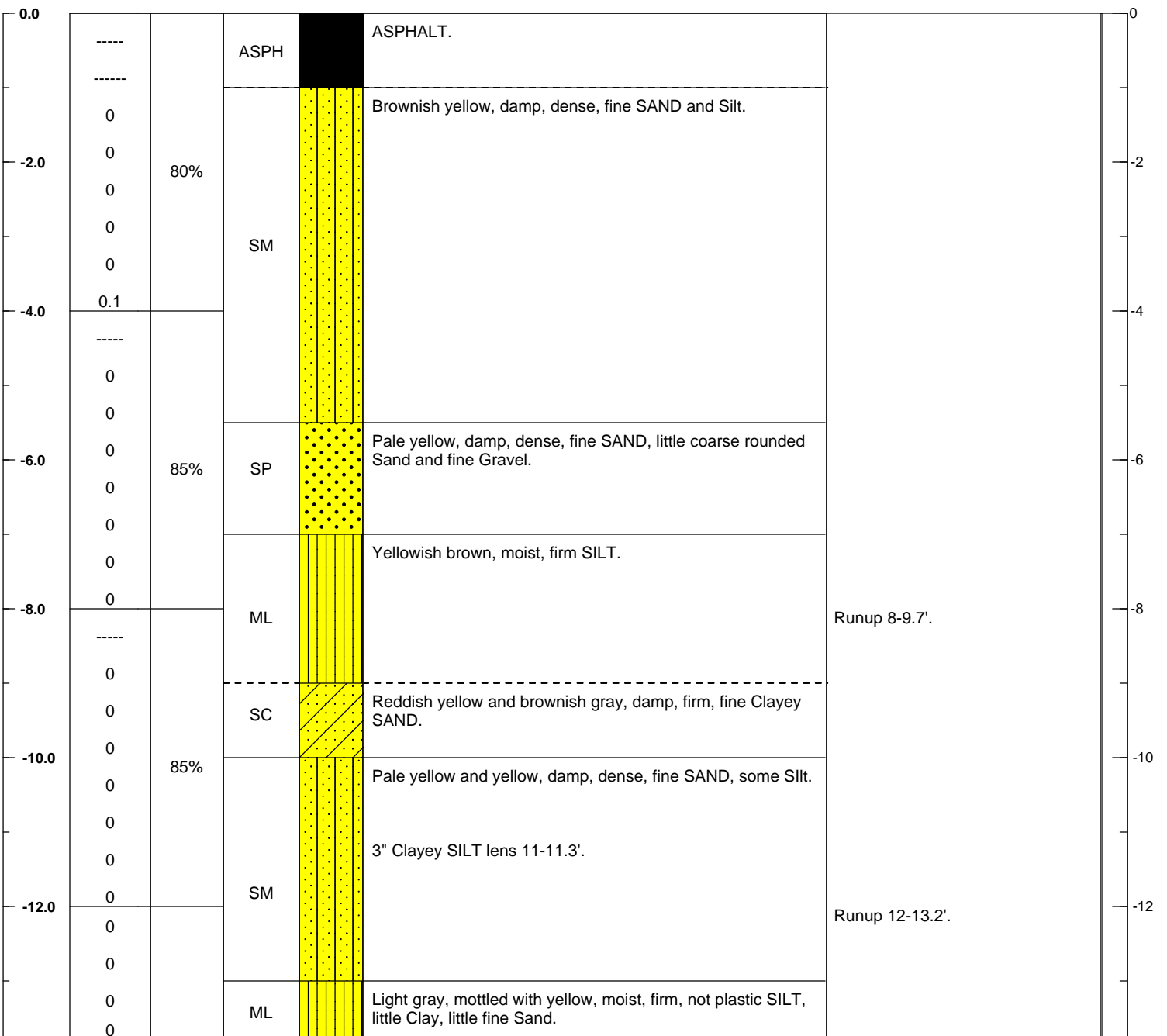
-14.0	11.7	100%	SP/SC		Same as above.	
	9.7					
	8.9					
-16.0	6.9		SM		Pale brown, mottled with brown, damp, dense, fine to medium Sand, some Silt.	Runup 16-18.2'.

-18.0	0	75%	SW		Pale brown and brown, moist, dense, fine to coarse SAND, little fine rounded Gravel, little Silt.	
	0					
	0					
	0					
-20.0	0		CL		Very light gray to white, moist, stiff, plastic Silty CLAY, little fine to medium Sand seams.	Runup 20-22.2'.














































-22.0	0	63%			Light brownish yellow, damp to moist, very dense, fine SAND, some coarse Sand to fine Gravel, some Clayey Sand lenses.	
	0.1					
	6.8					
	8.2		SP/SC			
-24.0	8.8					Runup 24-25.3'.

	9.6					
	14.8					
-26.0	8.9	88%	CL		White, mottled with pale yellow, moist, stiff Silty CLAY.	11:45 Soil sample collected at 25.5'.
	10.2					
	9.7					
	3.4					
-28.0	8.5		SP		Very pale yellow, dry, hard, fine SAND.	Runup 28-28.9'.
	6.5					
	3.4					
-30.0	2.3	100%				
	4.5					
	3.0		SM		Yellow, mottled, wet, hard, fine SAND, some Silt.	

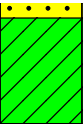


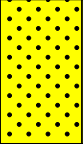
PROJECT		SOIL BORING LOG		PAGE 1 OF 3		
PROJECT: Veterans-Najoles Groundwater Investigation		DATE STARTED: 6/15/12 13:00				
LOCATION: Inside UPI property, btwn propane filling platform & office building.		DATE/TIME COMPLETED: 6/15/12 15:00				
DRILLING COMPANY: Tidewater, Inc.		LOGGED BY: Meg Staines				
DRILLING METHOD: Geoprobe Direct-Push 7822DT		PROJECT MANAGER: John Kosloski				
SAMPLING METHOD: Continuous Macrocore		BORING DIAMETER: 2"		BORING DEPTH: 35'		
DEPTH TO GW (ft) FROM GRADE: 17'		DATE: 6/15/12		NOTES:		
DEPTH (ft)	PID READINGS (PPM)	RECOVERY (%)	SOIL CLASS	GRAPHIC LOG	OVERBURDEN / ROCK DESCRIPTION	NOTES



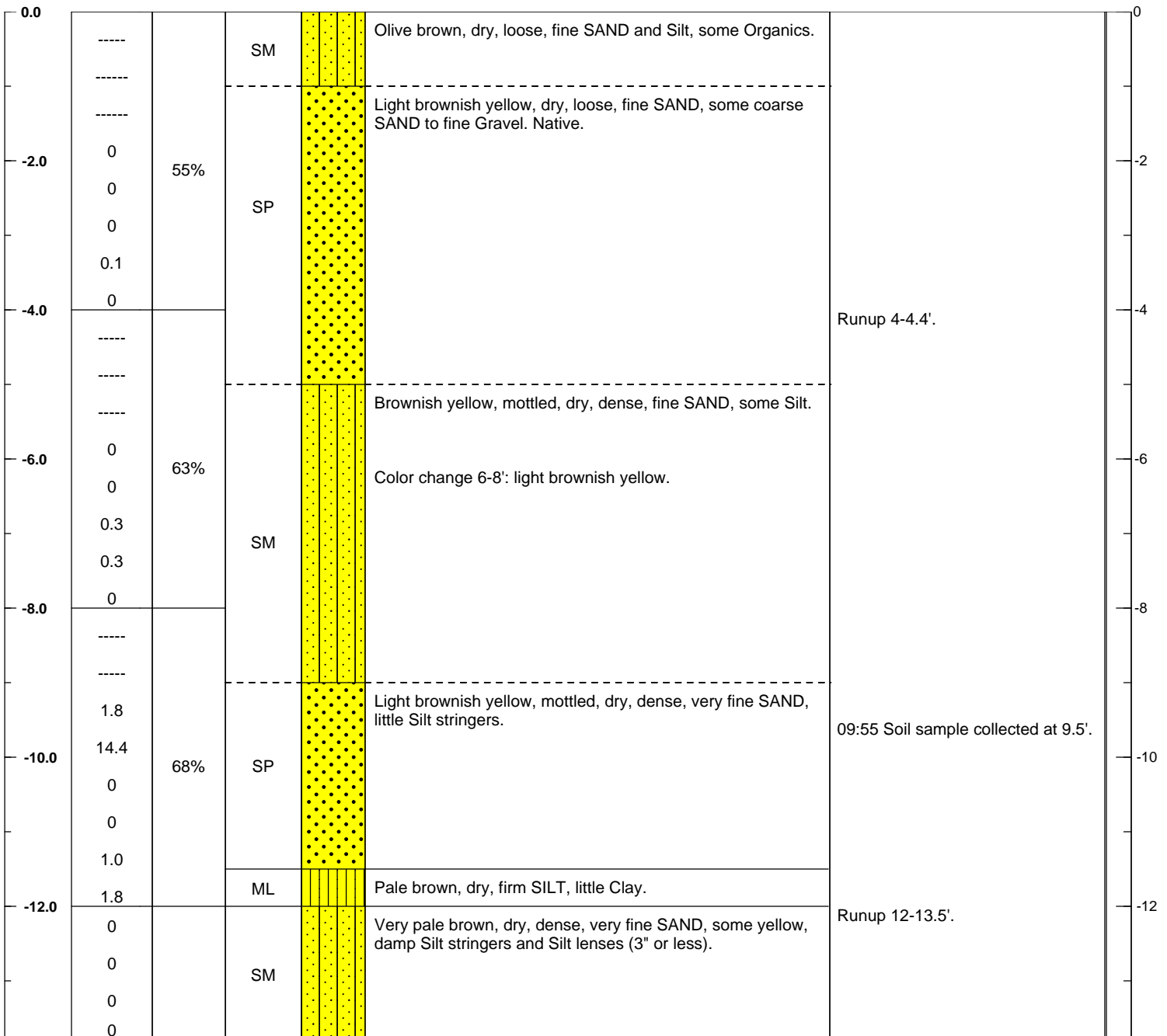
PROJECT		CG-09-0525.06			SOIL BORING LOG		B-8		PAGE 2 OF 3	
DEPTH (ft)	PID READINGS (PPM)	RECOVERY (%)	SOIL CLASS	GRAPHIC LOG	OVERBURDEN / ROCK DESCRIPTION	NOTES				

-14.0	0	90%	ML		Same as above. No mottling 13.5-14.2'.						
	0				Very pale brown, mottled with yellow, moist, dense, very fine SAND, some Silt.						
	0										
	0										
-16.0	0										Runup 16-17'.
	0		SM		Wet 17-17.5'.						
	0										
	0										
	0	100%									
	0										
	0										
-20.0	0										Runup 20-21.5'.
	0										
	0										
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DEPTH (ft)	PID READINGS (PPM)	RECOVERY (%)	SOIL CLASS	GRAPHIC LOG	OVERBURDEN / ROCK DESCRIPTION	NOTES
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-32.0	0	100%	CL		Light gray, mottled with yellow, wet, firm, slightly plastic Silty CLAY.	Runup 32-33.5'
0	0		SP		Yellow, wet, hard, fine SAND, little Clay stringers.	
0	0		CL		Light gray, moist, stiff, slightly plastic Silty CLAY.	
2.3	0		SP		Very pale brown, moist, very hard, fine SAND. Wet seam at 33.5'.	
-34.0	3.3		4.3	0		

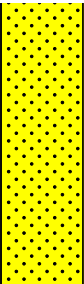


PROJECT		SOIL BORING LOG		PAGE 1 OF 3		
CG-09-0525.06		B-10				
PROJECT: Veterans-Najoles Groundwater Investigation			DATE STARTED: 6/13/12 9:30			
LOCATION: 212 Najoles Road Driveway (N side in trees)			DATE/TIME COMPLETED: 6/13/12 13:00			
DRILLING COMPANY: Tidewater, Inc.			LOGGED BY: Meg Staines			
DRILLING METHOD: Geoprobe Direct-Push 7822DT			PROJECT MANAGER: John Kosloski			
SAMPLING METHOD: Continuous Macrocore			BORING DIAMETER: 2"		BORING DEPTH: 36'	
DEPTH TO GW (ft) FROM GRADE: 31'		DATE: 6/15/12		NOTES: Rods slipped & fell into borehole with GW sampler		
DEPTH (ft)	PID READINGS (PPM)	RECOVERY (%)	SOIL CLASS	GRAPHIC LOG	OVERBURDEN / ROCK DESCRIPTION	NOTES



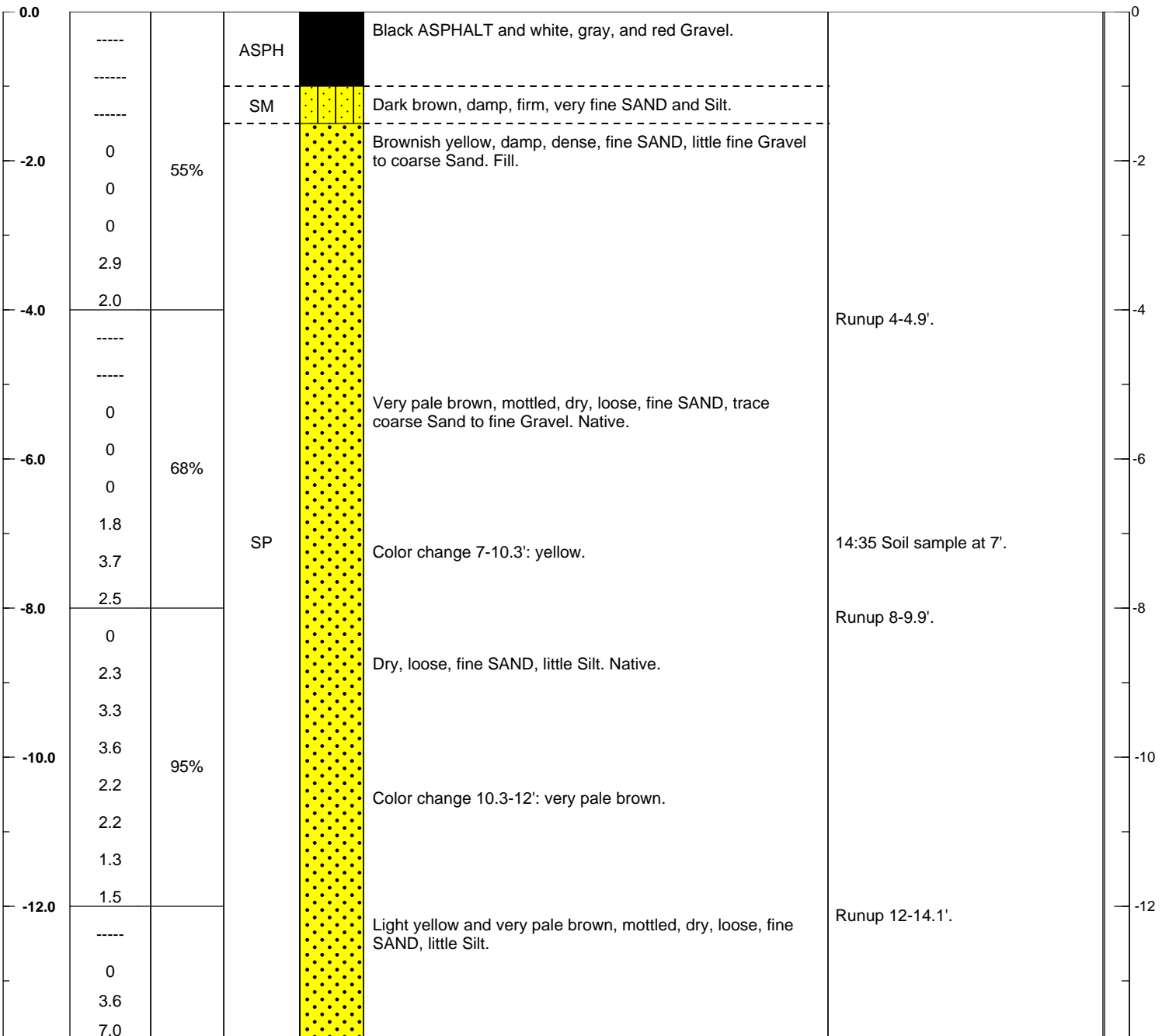
PROJECT CG-09-0525.06		SOIL BORING LOG		B-10	PAGE 2 OF 3	
DEPTH (ft)	PID READINGS (PPM)	RECOVERY (%)	SOIL CLASS	GRAPHIC LOG	OVERBURDEN / ROCK DESCRIPTION	NOTES

-14.0	0	90%			Very pale brown, dry, dense, very fine SAND, some yellow, damp Silt stringers and lenses (3" or less).	
	0					
	0					
	0					
-16.0	----					Runup 16-18.1'.
	0					
	0					
-18.0	0	88%	SM		Very pale brown, mottled with yellow, moist, dense, fine SAND, some Silt.	
	0					
	0					
	0					
-20.0	0					Runup 20-21.9'.
	0					
	0					
	0					
-22.0	0	95%			Very pale brown, mottled with yellow, brownish yellow, and pale yellow, damp to moist, dense, very fine SAND, some Silt lenses (3" or less).	
	0					
	0					
	0					
	0				1" yellow Silty CLAY lense at 23'.	
-24.0	0				Light yellow, damp, dense, fine to coarse SAND.	Runup 24-25.7'.
	0		SW			
	0					
	0					
-26.0	0	100%				
	0		SP		Very light yellow, mottled with yellow and brownish yellow, damp, dense, very fine SAND, little Silt.	
	0					
	0					
-28.0	0					Runup 28-31'.
	0		SW		Light yellow, dense, damp, fine to coarse SAND.	
	0					
	0					
-30.0	0	95%				
	0					
	0					

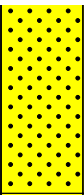
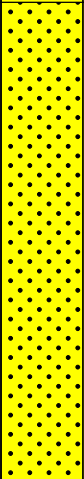
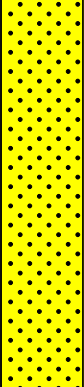
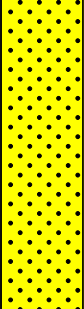
DEPTH (ft)	PID READINGS (PPM)	RECOVERY (%)	SOIL CLASS	GRAPHIC LOG	OVERBURDEN / ROCK DESCRIPTION	NOTES
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-32.0	0	100%	SW		Yellow, mottled with brownish yellow, and light yellow, moist (wet 31.6-32'), hard, fine to coarse SAND, some fine rounded Gravel (fluvial).	Runup 32-33.2'			
	0				0		0	0	
	0							Color change 32-34.2': all yellow.	
-34.0	0.1					12:40 Groundwater sample collected.			
	0		CL		White, damp, stiff, slightly plastic Silty CLAY.				
	1.7								
	1.4		SP		Brownish yellow and yellow, wet, dense, fine to medium SAND.	"Refusal" - Macrocore almost stuck in borehole. Decided not to risk another macrocore.			
-36.0	1.4								

PROJECT		SOIL BORING LOG		PAGE 1 OF 3		
CG-09-0525.06		B-11				
PROJECT: Veterans-Najoles Groundwater Investigation			DATE STARTED: 6/13/12 14:24			
LOCATION: 212 Najoles Road, South side, West end			DATE/TIME COMPLETED: 6/15/12 10:00			
DRILLING COMPANY: Tidewater, Inc.			LOGGED BY: Meg Staines			
DRILLING METHOD: Geoprobe Direct-Push 7822DT			PROJECT MANAGER: John Kosloski			
SAMPLING METHOD: Continuous Macrocore			BORING DIAMETER: 2"		BORING DEPTH: 40'	
DEPTH TO GW (ft) FROM GRADE: 32'		DATE: 6/13/12		NOTES: Rods broke in borehole. Retrieved 6/15/12 w/ last Macrocore (36-40')		
DEPTH (ft)	PID READINGS (PPM)	RECOVERY (%)	SOIL CLASS	GRAPHIC LOG	OVERBURDEN / ROCK DESCRIPTION	NOTES

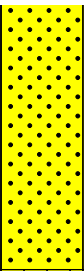
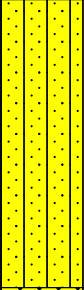
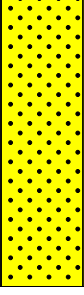


PROJECT CG-09-0525.06		SOIL BORING LOG			B-11	PAGE 2 OF 3
DEPTH (ft)	PID READINGS (PPM)	RECOVERY (%)	SOIL CLASS	GRAPHIC LOG	OVERBURDEN / ROCK DESCRIPTION	NOTES

-14.0	5.3	78%	SP		Light yellow, mottled, damp, dense, fine to medium SAND.	Runup 16-17.6'.
-16.0	0				SW	
-18.0	0	100%	SP			Light yellow, mottled with very pale brown and yellow, damp, dense, fine SAND, trace coarse Sand, trace fine rounded Gravel.
-20.0	0				SP	
-22.0	0.2	100%	SP			
-24.0	4.2				SP	
-26.0	5.1	50%				
-28.0	4.3					
-30.0	3.7	65%				
	0.1					
	In Bowl:					
	1.6					
	to					
	3.1					

	0					
	0					
	0					
	0					

DEPTH (ft)	PID READINGS (PPM)	RECOVERY (%)	SOIL CLASS	GRAPHIC LOG	OVERBURDEN / ROCK DESCRIPTION	NOTES
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-32.0	0 0 ----	88%	SP		Wet 31.6-32'. Yellow, wet, hard, fine SAND, little fine rounded Gravel to coarse Sand.	Runup 32-33'.	-32
-34.0	0 0 0 0 0				SM		
-36.0	0 0 0 0 0	100%	SP			Light yellow, wet, hard, fine SAND, some fine rounded Gravel. Fluvial.	
-38.0	0 0 0 0 0				Very pale brown, moist, hard, fine SAND.	-38	
-40.0	0 0 0 0 0				Light yellow, moist, hard, fine SAND, little Silt stringers.	6/15/12 9:30 Groundwater sample collected.	-40

ATTACHMENT C
GPS COORDINATES OF SOIL BORING
LOCATIONS AND SITE FEATURES

Veterans-Najoles Site, Najoles Rd, Millersville, Anne Arundel Co., MD 21108 (MDE-OCP Case No. 2008-0510AA)
Subsurface Geoprobe Investigation
GPS Coordinates of Soil Boring Locations and Site Features - June 14, 2012
CGS Project Number CG-09-0525.06

ID No.	Feature ID	MD State Plane (feet)		Longitude (degrees)	Latitude (degrees)	Elevation (ft MSL)	Precision (ft)		Standard Deviation
		Easting	Northing				Vertical	Horiz.	
1	UP N Gate	1417164.794	522355.145	-76.630614534	39.100377044	73.887	0.98	0.98	0.165859
2	B-3 UPI	1417304.063	522455.627	-76.630122360	39.100651379	77.895	1.64	1.31	0.162145
3	UPI NE crnr 2nd bldg	1417379.816	522451.301	-76.629855493	39.100638659	78.057	5.58	3.94	0.227178
4	UPI SW crnr 1st bldg N	1417387.683	522486.216	-76.629827273	39.100734433	78.921	5.25	3.94	0.194256
5	UPI NE crnr 1st bldg N	1417408.290	522543.041	-76.629753849	39.100890225	80.852	7.22	4.92	0.255138
6	B-8 UPI	1417306.138	522308.731	-76.630117147	39.100248038	73.114	4.27	2.62	0.118927
7	B-9 UPI	1417272.974	522132.799	-76.630236516	39.099765366	75.452	5.58	3.28	0.138809
8	SW crnr filling platform	1417256.233	522270.316	-76.630293544	39.100143118	75.373	2.30	1.64	0.143793
9	SW crnr last - 4th bldg	1417334.927	522284.594	-76.630016048	39.100181445	76.546	6.56	4.27	0.103870
10	NW crnr last - 4th bldg	1417321.544	522342.039	-76.630062386	39.100339316	76.784	8.53	6.56	0.105831
11	SW crnr 3rd bldg	1417335.716	522362.741	-76.630012151	39.100395997	76.544	10.17	6.89	0.111118
12	NW crnr 3rd bldg	1417327.419	522392.671	-76.630040962	39.100478266	77.026	4.27	4.59	0.262657
13	SW crnr 2nd bldg	1417324.448	522399.298	-76.630051335	39.100496494	74.350	1.64	1.64	0.245847
14	B-4 Lallie	1417079.372	522369.673	-76.630915323	39.100417880	76.388	4.59	2.62	0.197315
15	Sewer MH near road Lallie	1417106.216	522332.965	-76.630821257	39.100316797	74.480	2.62	1.64	0.218450
16	Gate at Pool yard	1417149.996	522458.063	-76.630665209	39.100659779	73.456	4.27	2.62	0.405445
17	SW crnr pool yard bldg	1417472.635	522623.469	-76.629525967	39.101110331	81.443	5.91	3.94	0.107025
18	B-2 pool yard	1417523.728	522732.980	-76.629344365	39.101410435	85.730	1.97	2.62	0.631338
19	NE crnr of Site at pool yard	1417526.533	522748.316	-76.629334259	39.101452512	79.788	5.58	4.59	0.380315
20	NE crnr of house at pool yard	1417495.031	522674.710	-76.629446316	39.101250768	79.639	5.25	4.59	0.068035
21	NW crnr of house at pool yard	1417467.086	522665.820	-76.629544916	39.101226673	80.043	11.15	8.86	0.308902
22	B-7 UPI new	1417386.063	522102.153	-76.629838468	39.099679964	77.519	1.31	1.31	0.067810
23	B-7 UPI old	1417393.947	522095.640	-76.629810782	39.099661996	77.210	3.61	2.62	0.813999
24	SE crnr last bldg	1417446.070	522306.654	-76.629624104	39.100240777	77.924	1.64	1.64	0.132417
25	B-6 UPI	1417589.782	522403.272	-76.629116327	39.100504451	78.296	1.97	1.97	0.138382
26	B-12 UPI	1417634.356	522247.944	-76.628961488	39.100077481	80.092	1.64	2.62	1.533494
27	B-10 Royals	1417088.583	522090.031	-76.630886852	39.099649990	74.265	5.25	5.58	0.644122
28	B-11 Royals	1416836.748	522004.544	-76.631775438	39.099418069	75.250	4.92	4.27	0.132436
29	SE bldg crnr Royals garage	1416739.121	521991.038	-76.632119629	39.099382066	74.774	3.94	2.62	0.132279
30	NE bldg crnr Royals garage	1416763.225	522088.658	-76.632033310	39.099649826	77.499	1.64	1.64	0.734150
31	SE bldg crnr Royals office	1416835.820	522124.325	-76.631777007	39.099746951	74.284	5.58	7.22	0.402474
32	B-5 Royals NW	1416735.525	522185.311	-76.632129543	39.099915504	65.180	8.20	7.22	0.394325

Veterans-Najoles Site, Najoles Rd, Millersville, Anne Arundel Co., MD 21108 (MDE-OCP Case No. 2008-0510AA)
Subsurface Geoprobe Investigation
GPS Coordinates of Soil Boring Locations and Site Features - June 14, 2012
CGS Project Number CG-09-0525.06

ID No.	Feature ID	MD State Plane (feet)		Longitude (degrees)	Latitude (degrees)	Elevation (ft MSL)	Precision (ft)		Standard Deviation
		Easting	Northing				Vertical	Horiz.	
33	SW bldg crnr Royals Soda Works	1416757.098	522203.270	-76.632053272	39.099964574	67.303	7.22	7.22	0.461083
34	SE bldg crnr Royals Soda Works	1416817.293	522214.598	-76.631841006	39.099995011	68.510	13.12	15.75	0.528170
35	NE clearing entrance	1417127.519	522694.581	-76.630741038	39.101309415	76.979	5.91	5.58	0.269434
36	Cul-de-sac 01	1417127.521	522712.593	-76.630740775	39.101358869	77.129	4.92	4.27	0.123489
37	Cul-de-sac 02	1417123.430	522727.771	-76.630754974	39.101400587	76.622	4.92	4.27	0.076072
38	Cul-de-sac 03	1417110.986	522742.233	-76.630798618	39.101440432	76.700	4.92	4.27	0.077550
39	Cul-de-sac 04	1417093.113	522749.876	-76.630861488	39.101461615	77.157	0.98	2.30	0.145162
40	Cul-de-sac 05	1417076.414	522749.627	-76.630920334	39.101461119	77.104	1.64	2.62	0.139523
41	B-1 Cul-de-sac	1417069.456	522750.041	-76.630944844	39.101462333	75.645	5.25	4.59	0.043721
42	Cul-de-sac 06	1417061.139	522742.801	-76.630974256	39.101442547	76.109	6.23	5.25	0.126092
43	Cul-de-sac 07	1417043.474	522725.263	-76.631036750	39.101394589	77.251	1.31	1.97	0.157378
44	Cul-de-sac 08	1417044.437	522700.525	-76.631033711	39.101326659	75.615	5.91	4.92	0.179738
45	Cul-de-sac 09	1417052.921	522682.480	-76.631004071	39.101277019	74.746	4.92	4.59	0.156653

Table Notes:

Differentially corrected GPS data file name is R06-14-12-V-N.cor

ft MSL - Feet above Mean Sea Level

Horizontal coordinates are in US State Plane 1983 / Maryland 1900 (feet), and in Latitude/Longitude (degrees)

Vertical datum is North American Datum (NAD) 1983

Geoid Model is Geoid09 (Conus)

UPI - United Propane

bldg - building

**ATTACHMENT D
SOIL AND GROUNDWATER SAMPLE
LABORATORY ANALYTICAL RESULTS**



Analysis Detects Report

Client Name: Chesapeake Geosciences, Inc.
 Client Site ID: ARRA Subsurface Veterans-Najoles
 Submitted To: John Kosloski

Date Issued: 06/27/2012

Laboratory Sample ID: 12060294-001		Client Sample ID TB-VN					
Parameter	Reference Method	Sample Results	Qual	LOD	LOQ	Dil. Factor	Units
Methylene chloride	SW8260B	1.0	J	1.0	4.0	1	ug/L
Laboratory Sample ID: 12060294-002		Client Sample ID B-1 / 3.5'					
Parameter	Reference Method	Sample Results	Qual	LOD	LOQ	Dil. Factor	Units
Percent Moisture	SM18/2540G	16.7		0.1	0.1	1	%
Laboratory Sample ID: 12060294-003		Client Sample ID B-2 / 22'					
Parameter	Reference Method	Sample Results	Qual	LOD	LOQ	Dil. Factor	Units
Percent Moisture	SM18/2540G	13.0		0.1	0.1	1	%
Laboratory Sample ID: 12060294-004		Client Sample ID B-4 / 2.5'					
Parameter	Reference Method	Sample Results	Qual	LOD	LOQ	Dil. Factor	Units
Percent Moisture	SM18/2540G	4.2		0.1	0.1	1	%
TPH-Semi-Volatiles (DRO)	SW8015C	22.2		10.4	10.4	1	mg/kg
Laboratory Sample ID: 12060294-005		Client Sample ID B-4 / 31.5'					
Parameter	Reference Method	Sample Results	Qual	LOD	LOQ	Dil. Factor	Units
Percent Moisture	SM18/2540G	16.5		0.1	0.1	1	%
Laboratory Sample ID: 12060294-006		Client Sample ID B-10 / 9.5'					
Parameter	Reference Method	Sample Results	Qual	LOD	LOQ	Dil. Factor	Units
Percent Moisture	SM18/2540G	11.4		0.1	0.1	1	%
Laboratory Sample ID: 12060294-007		Client Sample ID B-11 / 7'					
Parameter	Reference Method	Sample Results	Qual	LOD	LOQ	Dil. Factor	Units
Percent Moisture	SM18/2540G	19.1		0.1	0.1	1	%
Laboratory Sample ID: 12060294-008		Client Sample ID B-1 GW					
Parameter	Reference Method	Sample Results	Qual	LOD	LOQ	Dil. Factor	Units
2-Butanone (MEK)	SW8260B	2.3	J	0.6	10.0	1	ug/L
Acetone	SW8260B	24.0		7.0	10.0	1	ug/L
m,p-Xylenes	SW8260B	0.6	J	0.5	2.0	1	ug/L
Toluene	SW8260B	0.9	J	0.4	1.0	1	ug/L



Analysis Detects Report

Client Name: Chesapeake Geosciences, Inc.
 Client Site ID: ARRA Subsurface Veterans-Najoles
 Submitted To: John Kosloski

Date Issued: 06/27/2012

Xylenes, Total	SW8260B	0.9	J	0.5	3.0	1	ug/L
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Laboratory Sample ID: **12060294-009** Client Sample ID **B-2 GW**

Parameter	Reference Method	Sample Results	Qual	LOD	LOQ	Dil. Factor	Units
Acetone	SW8260B	17.5		7.0	10.0	1	ug/L
Methylene chloride	SW8260B	1.2	J	1.0	4.0	1	ug/L

Laboratory Sample ID: **12060294-010** Client Sample ID **B-10 GW**

Parameter	Reference Method	Sample Results	Qual	LOD	LOQ	Dil. Factor	Units
Acetone	SW8260B	8.7	J	7.0	10.0	1	ug/L
Chloroform	SW8260B	1.1		0.4	1.0	1	ug/L
Methylene chloride	SW8260B	1.4	J	1.0	4.0	1	ug/L

Laboratory Sample ID: **12060294-011** Client Sample ID **Dup-GW**

Parameter	Reference Method	Sample Results	Qual	LOD	LOQ	Dil. Factor	Units
Acetone	SW8260B	16.3		7.0	10.0	1	ug/L
Methylene chloride	SW8260B	1.3	J	1.0	4.0	1	ug/L
Toluene	SW8260B	0.5	J	0.4	1.0	1	ug/L

Note that this report is not the "Certificate of Analysis". This report only lists the target analytes that displayed concentrations that exceeded the detection limit specified for that analyte. For a complete listing of all analytes requested and the results of the analysis see the "Certificate of Analysis".



2109A North Hamilton Street • Richmond, Virginia 23230 • Tel: (804) 358-8295 Fax: (804) 358-8297

Certificate of Analysis

Final Report

Laboratory Order ID 12060294

Client Name:	Chesapeake Geosciences, Inc. 5405 Twin Knolls Rd. Suite 1 Columbia, Maryland 21045	Date Issued:	June 27, 2012
Submitted To:	John Kosloski	Project Number	CG-09-0525.06
Client Site I.D.:	ARRA Subsurface Veterans-Najoles	Purchase Order	CG090525MS

Laboratory Sample ID	Sample ID	Sample Date	Receive Date
12060294-001	TB-VN	June 11, 2012	June 15, 2012
12060294-002	B-1 / 3.5'	June 11, 2012	June 15, 2012
12060294-003	B-2 / 22'	June 11, 2012	June 15, 2012
12060294-004	B-4 / 2.5'	June 11, 2012	June 15, 2012
12060294-005	B-4 / 31.5'	June 13, 2012	June 15, 2012
12060294-006	B-10 / 9.5'	June 11, 2012	June 15, 2012
12060294-007	B-11 / 7'	June 11, 2012	June 15, 2012
12060294-008	B-1 GW	June 11, 2012	June 15, 2012
12060294-009	B-2 GW	June 11, 2012	June 15, 2012
12060294-010	B-10 GW	June 13, 2012	June 15, 2012
12060294-011	Dup-GW	June 11, 2012	June 15, 2012

On June 15, 2012, five water samples and six soil samples were received via UPS for analysis in accordance with the attached Chain-Of-Custody. The samples were received with sample containers intact by Tafraal Middleton (AWS). Any deviations, discrepancies or irregularities observed in sample condition, including holding times, temperature, containers or preservatives have been notated on the chain-of-custody.

The samples were prepared and analyzed in accordance with SW-846 methodology.

Results were calculated based on dry weight.





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Certificate of Analysis

Final Report

Laboratory Order ID 12060294

Client Name:	Chesapeake Geosciences, Inc. 5405 Twin Knolls Rd. Suite 1 Columbia, Maryland 21045	Date Issued:	June 27, 2012
Submitted To:	John Kosloski	Project Number	CG-09-0525.06
Client Site I.D.:	ARRA Subsurface Veterans-Najoles	Purchase Order	CG090525MS

Ted Soyars
Laboratory Manager



Air Water & Soil Laboratories, Inc.
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Certificate of Analysis

Client Name: Chesapeake Geosciences, Inc.
Client Site ID: ARRA Subsurface Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID: TB-VN **Laboratory Sample ID:** 12060294-001 **Sample Date:** Date/Time Sampled: 06/11/12 06:00

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
1,1,1,2-Tetrachloroethane	630-20-6	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.4	1.0	1	ug/L	MKD
1,1,1-Trichloroethane	71-55-6	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.7	1.0	1	ug/L	MKD
1,1,2,2-Tetrachloroethane	79-34-5	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.4	1.0	1	ug/L	MKD
1,1,2-Trichloroethane	79-00-5	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.5	1.0	1	ug/L	MKD
1,1-Dichloroethane	75-34-3	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.4	1.0	1	ug/L	MKD
1,1-Dichloroethylene	75-35-4	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.3	1.0	1	ug/L	MKD
1,1-Dichloropropene	563-58-6	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.2	1.0	1	ug/L	MKD
1,2,3-Trichlorobenzene	87-61-6	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.2	1.0	1	ug/L	MKD
1,2,3-Trichloropropane	96-18-4	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.2	1.0	1	ug/L	MKD
1,2,4-Trichlorobenzene	120-82-1	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.2	1.0	1	ug/L	MKD
1,2,4-Trimethylbenzene	95-63-6	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.5	1.0	1	ug/L	MKD
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.8	4.0	1	ug/L	MKD
1,2-Dibromoethane (EDB)	106-93-4	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.3	1.0	1	ug/L	MKD
1,2-Dichlorobenzene	95-50-1	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.2	1.0	1	ug/L	MKD
1,2-Dichloroethane	107-06-2	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.9	1.0	1	ug/L	MKD
1,2-Dichloropropane	78-87-5	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.6	1.0	1	ug/L	MKD
1,3,5-Trimethylbenzene	108-67-8	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.2	1.0	1	ug/L	MKD
1,3-Dichlorobenzene	541-73-1	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.2	1.0	1	ug/L	MKD
1,3-Dichloropropane	142-28-9	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.2	1.0	1	ug/L	MKD
1,4-Dichlorobenzene	106-46-7	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.4	1.0	1	ug/L	MKD
2,2-Dichloropropane	594-20-7	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.6	1.0	1	ug/L	MKD
2-Butanone (MEK)	78-93-3	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.6	10.0	1	ug/L	MKD
2-Chlorotoluene	95-49-8	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.6	1.0	1	ug/L	MKD





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Certificate of Analysis

Client Name: Chesapeake Geosciences, Inc.
Client Site ID: ARRA Subsurface Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID: TB-VN **Laboratory Sample ID:** 12060294-001 **Sample Date:** Date/Time Sampled: 06/11/12 06:00

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
2-Hexanone (MBK)	591-78-6	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.4	10.0	1	ug/L	MKD
4-Chlorotoluene	106-43-4	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.7	1.0	1	ug/L	MKD
4-Methyl-2-pentanone (MIBK)	108-10-1	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.3	10.0	1	ug/L	MKD
Acetone	67-64-1	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		7.0	10.0	1	ug/L	MKD
Benzene	71-43-2	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.3	1.0	1	ug/L	MKD
Bromobenzene	108-86-1	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.5	1.0	1	ug/L	MKD
Bromochloromethane	74-97-5	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.2	1.0	1	ug/L	MKD
Bromodichloromethane	75-27-4	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.3	1.0	1	ug/L	MKD
Bromoform	75-25-2	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.5	1.0	1	ug/L	MKD
Bromomethane	74-83-9	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.3	1.0	1	ug/L	MKD
Carbon disulfide	75-15-0	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.6	10.0	1	ug/L	MKD
Carbon tetrachloride	56-23-5	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.4	1.0	1	ug/L	MKD
Chlorobenzene	108-90-7	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.4	1.0	1	ug/L	MKD
Chloroethane	75-00-3	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.4	1.0	1	ug/L	MKD
Chloroform	67-66-3	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.4	1.0	1	ug/L	MKD
Chloromethane	74-87-3	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.5	1.0	1	ug/L	MKD
cis-1,2-Dichloroethylene	156-59-2	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.4	1.0	1	ug/L	MKD
cis-1,3-Dichloropropene	10061-01-5	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.2	1.0	1	ug/L	MKD
Dibromochloromethane	124-48-1	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.7	1.0	1	ug/L	MKD
Dibromomethane	74-95-3	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.4	1.0	1	ug/L	MKD
Dichlorodifluoromethane	75-71-8	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		1.0	1.0	1	ug/L	MKD
Di-isopropyl ether (DIPE)	108-20-3	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.3	5.0	1	ug/L	MKD
Ethylbenzene	100-41-4	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.2	1.0	1	ug/L	MKD
Hexachlorobutadiene	87-68-3	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.2	1.0	1	ug/L	MKD





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Certificate of Analysis

Client Name: Chesapeake Geosciences, Inc.
Client Site ID: ARRA Subsurface Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID: TB-VN **Laboratory Sample ID:** 12060294-001 **Sample Date:** Date/Time Sampled: 06/11/12 06:00

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
Iodomethane	74-88-4	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.1	10.0	1	ug/L	MKD
Isopropylbenzene	98-82-8	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.2	1.0	1	ug/L	MKD
m,p-Xylenes	179601-23-1	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.5	2.0	1	ug/L	MKD
Methylene chloride	75-09-2	SW8260B	06/19/12 18:20	06/19/12 18:20	1.0	J	1.0	4.0	1	ug/L	MKD
MTBE	1634-04-4	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.4	1.0	1	ug/L	MKD
Naphthalene	91-20-3	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.5	1.0	1	ug/L	MKD
n-Butylbenzene	104-51-8	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.3	1.0	1	ug/L	MKD
n-Propylbenzene	103-65-1	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.2	1.0	1	ug/L	MKD
o-Xylene	95-47-6	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.5	1.0	1	ug/L	MKD
p-Isopropyltoluene	99-87-6	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.2	1.0	1	ug/L	MKD
sec-Butylbenzene	135-98-8	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.4	1.0	1	ug/L	MKD
Styrene	100-42-5	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.2	1.0	1	ug/L	MKD
tert-Butylbenzene	98-06-6	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.1	1.0	1	ug/L	MKD
Tetrachloroethylene (PCE)	127-18-4	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.4	1.0	1	ug/L	MKD
Toluene	108-88-3	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.4	1.0	1	ug/L	MKD
trans-1,2-Dichloroethylene	156-60-5	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.4	1.0	1	ug/L	MKD
trans-1,3-Dichloropropene	10061-02-6	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.5	1.0	1	ug/L	MKD
Trichloroethylene	79-01-6	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.3	1.0	1	ug/L	MKD
Trichlorofluoromethane	75-69-4	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.4	1.0	1	ug/L	MKD
Vinyl acetate	108-05-4	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.9	10.0	1	ug/L	MKD
Vinyl chloride	75-01-4	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.3	1.0	1	ug/L	MKD
Xylenes, Total	1330-20-7	SW8260B	06/19/12 18:20	06/19/12 18:20	BLOD		0.5	3.0	1	ug/L	MKD





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Certificate of Analysis

Client Name: Chesapeake Geosciences, Inc.
Client Site ID: ARRA Subsurface Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID: B-1 / 3.5' **Laboratory Sample ID:** 12060294-002 **Sample Date:** Date/Time Sampled: 06/11/12 15:40

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
Percent Moisture	NA	SM18/2540G	06/26/12 9:35	06/26/12 9:35	16.7		0.1	0.1	1	%	KMW
TPH-Volatiles (GRO)	NA	SW8015C	06/22/12 15:32	06/22/12 15:32	BLOD		6.0	6.0	50	mg/kg	AJR
1,1,1,2-Tetrachloroethane	630-20-6	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
1,1,1-Trichloroethane	71-55-6	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
1,1,2,2-Tetrachloroethane	79-34-5	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
1,1,2-Trichloroethane	79-00-5	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
1,1-Dichloroethane	75-34-3	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
1,1-Dichloroethylene	75-35-4	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
1,1-Dichloropropene	563-58-6	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
1,2,3-Trichlorobenzene	87-61-6	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
1,2,3-Trichloropropane	96-18-4	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
1,2,4-Trichlorobenzene	120-82-1	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
1,2,4-Trimethylbenzene	95-63-6	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
1,2-Dibromoethane (EDB)	106-93-4	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
1,2-Dichlorobenzene	95-50-1	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
1,2-Dichloroethane	107-06-2	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
1,2-Dichloropropane	78-87-5	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
1,3,5-Trimethylbenzene	108-67-8	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
1,3-Dichlorobenzene	541-73-1	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
1,3-Dichloropropane	142-28-9	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
1,4-Dichlorobenzene	106-46-7	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
2,2-Dichloropropane	594-20-7	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD





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Certificate of Analysis

Client Name: Chesapeake Geosciences, Inc.
Client Site ID: ARRA Subsurface Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID: B-1 / 3.5' **Laboratory Sample ID:** 12060294-002 **Sample Date:** Date/Time Sampled: 06/11/12 15:40

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
2-Butanone (MEK)	78-93-3	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		240	240	1	ug/kg	MKD
2-Chlorotoluene	95-49-8	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
2-Hexanone (MBK)	591-78-6	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		240	240	1	ug/kg	MKD
4-Chlorotoluene	106-43-4	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
4-Methyl-2-pentanone (MIBK)	108-10-1	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		240	240	1	ug/kg	MKD
Acetone	67-64-1	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		240	240	1	ug/kg	MKD
Benzene	71-43-2	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
Bromobenzene	108-86-1	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
Bromochloromethane	74-97-5	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
Bromodichloromethane	75-27-4	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
Bromoform	75-25-2	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		240	240	1	ug/kg	MKD
Bromomethane	74-83-9	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
Carbon disulfide	75-15-0	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
Carbon tetrachloride	56-23-5	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
Chlorobenzene	108-90-7	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
Chloroethane	75-00-3	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
Chloroform	67-66-3	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
Chloromethane	74-87-3	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
cis-1,2-Dichloroethylene	156-59-2	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
cis-1,3-Dichloropropene	10061-01-5	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
Dibromochloromethane	124-48-1	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
Dibromomethane	74-95-3	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
Dichlorodifluoromethane	75-71-8	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
Di-isopropyl ether (DIPE)	108-20-3	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD





Air Water & Soil Laboratories, Inc.
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Certificate of Analysis

Client Name: Chesapeake Geosciences, Inc.
Client Site ID: ARRA Subsurface Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID: B-1 / 3.5' **Laboratory Sample ID:** 12060294-002 **Sample Date:** Date/Time Sampled: 06/11/12 15:40

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
Ethylbenzene	100-41-4	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
Hexachlorobutadiene	87-68-3	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
Iodomethane	74-88-4	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
Isopropylbenzene	98-82-8	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
m,p-Xylenes	179601-23-1	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
Methylene chloride	75-09-2	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
MTBE	1634-04-4	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
Naphthalene	91-20-3	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
n-Butylbenzene	104-51-8	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
n-Propylbenzene	103-65-1	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
o-Xylene	95-47-6	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
p-Isopropyltoluene	99-87-6	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
sec-Butylbenzene	135-98-8	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
Styrene	100-42-5	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
tert-Butylbenzene	98-06-6	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
Tetrachloroethylene (PCE)	127-18-4	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
Toluene	108-88-3	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
trans-1,2-Dichloroethylene	156-60-5	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
trans-1,3-Dichloropropene	10061-02-6	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
Trichloroethylene	79-01-6	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
Trichlorofluoromethane	75-69-4	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
Vinyl acetate	108-05-4	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
Vinyl chloride	75-01-4	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD
Xylenes, Total	1330-20-7	SW8260B	06/20/12 12:49	06/20/12 12:49	BLOD		60.0	60.0	1	ug/kg	MKD





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Certificate of Analysis

Client Name: Chesapeake Geosciences, Inc.
Client Site ID: ARRA Subsurface Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID B-1 / 3.5' **Laboratory Sample ID** 12060294-002 **Sample Date** Date/Time Sampled: 06/11/12 15:40

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
TPH-Semi-Volatiles (DRO)	NA	SW8015C	06/19/12 14:30	06/20/12 17:48	BLOD		12.0	12.0	1	mg/kg	JHV

Client Sample ID B-2 / 22' **Laboratory Sample ID** 12060294-003 **Sample Date** Date/Time Sampled: 06/11/12 10:20

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
Percent Moisture	NA	SM18/2540G	06/26/12 9:35	06/26/12 9:35	13.0		0.1	0.1	1	%	KMW
TPH-Volatiles (GRO)	NA	SW8015C	06/22/12 15:58	06/22/12 15:58	BLOD		5.8	5.8	50	mg/kg	AJR
1,1,1,2-Tetrachloroethane	630-20-6	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
1,1,1-Trichloroethane	71-55-6	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
1,1,2,2-Tetrachloroethane	79-34-5	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
1,1,2-Trichloroethane	79-00-5	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
1,1-Dichloroethane	75-34-3	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
1,1-Dichloroethylene	75-35-4	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
1,1-Dichloropropene	563-58-6	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
1,2,3-Trichlorobenzene	87-61-6	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
1,2,3-Trichloropropane	96-18-4	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
1,2,4-Trichlorobenzene	120-82-1	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
1,2,4-Trimethylbenzene	95-63-6	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
1,2-Dibromoethane (EDB)	106-93-4	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
1,2-Dichlorobenzene	95-50-1	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
1,2-Dichloroethane	107-06-2	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD





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Certificate of Analysis

Client Name: Chesapeake Geosciences, Inc.
Client Site ID: ARRA Subsurface Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID: B-2 / 22' **Laboratory Sample ID:** 12060294-003 **Sample Date:** Date/Time Sampled: 06/11/12 10:20

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
1,2-Dichloropropane	78-87-5	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
1,3,5-Trimethylbenzene	108-67-8	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
1,3-Dichlorobenzene	541-73-1	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
1,3-Dichloropropane	142-28-9	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
1,4-Dichlorobenzene	106-46-7	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
2,2-Dichloropropane	594-20-7	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
2-Butanone (MEK)	78-93-3	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		230	230	1	ug/kg	MKD
2-Chlorotoluene	95-49-8	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
2-Hexanone (MBK)	591-78-6	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		230	230	1	ug/kg	MKD
4-Chlorotoluene	106-43-4	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
4-Methyl-2-pentanone (MIBK)	108-10-1	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		230	230	1	ug/kg	MKD
Acetone	67-64-1	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		230	230	1	ug/kg	MKD
Benzene	71-43-2	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
Bromobenzene	108-86-1	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
Bromochloromethane	74-97-5	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
Bromodichloromethane	75-27-4	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
Bromoform	75-25-2	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		230	230	1	ug/kg	MKD
Bromomethane	74-83-9	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
Carbon disulfide	75-15-0	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
Carbon tetrachloride	56-23-5	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
Chlorobenzene	108-90-7	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
Chloroethane	75-00-3	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
Chloroform	67-66-3	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
Chloromethane	74-87-3	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD





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Certificate of Analysis

Client Name: Chesapeake Geosciences, Inc.
Client Site ID: ARRA Subsurface Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID: B-2 / 22' **Laboratory Sample ID:** 12060294-003 **Sample Date:** Date/Time Sampled: 06/11/12 10:20

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
cis-1,2-Dichloroethylene	156-59-2	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
cis-1,3-Dichloropropene	10061-01-5	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
Dibromochloromethane	124-48-1	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
Dibromomethane	74-95-3	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
Dichlorodifluoromethane	75-71-8	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
Di-isopropyl ether (DIPE)	108-20-3	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
Ethylbenzene	100-41-4	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
Hexachlorobutadiene	87-68-3	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
Iodomethane	74-88-4	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
Isopropylbenzene	98-82-8	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
m,p-Xylenes	179601-23-1	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
Methylene chloride	75-09-2	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
MTBE	1634-04-4	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
Naphthalene	91-20-3	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
n-Butylbenzene	104-51-8	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
n-Propylbenzene	103-65-1	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
o-Xylene	95-47-6	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
p-Isopropyltoluene	99-87-6	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
sec-Butylbenzene	135-98-8	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
Styrene	100-42-5	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
tert-Butylbenzene	98-06-6	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
Tetrachloroethylene (PCE)	127-18-4	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
Toluene	108-88-3	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
trans-1,2-Dichloroethylene	156-60-5	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD





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Certificate of Analysis

Client Name: Chesapeake Geosciences, Inc.
Client Site ID: ARRA Subsurface Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID B-2 / 22' **Laboratory Sample ID** 12060294-003 **Sample Date** Date/Time Sampled: 06/11/12 10:20

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
trans-1,3-Dichloropropene	10061-02-6	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
Trichloroethylene	79-01-6	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
Trichlorofluoromethane	75-69-4	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
Vinyl acetate	108-05-4	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
Vinyl chloride	75-01-4	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
Xylenes, Total	1330-20-7	SW8260B	06/20/12 13:14	06/20/12 13:14	BLOD		57.5	57.5	1	ug/kg	MKD
TPH-Semi-Volatiles (DRO)	NA	SW8015C	06/19/12 14:30	06/20/12 18:13	BLOD		11.5	11.5	1	mg/kg	JHV

Client Sample ID B-4 / 2.5' **Laboratory Sample ID** 12060294-004 **Sample Date** Date/Time Sampled: 06/11/12 13:00

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
Percent Moisture	NA	SM18/2540G	06/26/12 9:35	06/26/12 9:35	4.2		0.1	0.1	1	%	KMW
TPH-Volatiles (GRO)	NA	SW8015C	06/22/12 16:24	06/22/12 16:24	BLOD		5.2	5.2	50	mg/kg	AJR
1,1,1,2-Tetrachloroethane	630-20-6	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
1,1,1-Trichloroethane	71-55-6	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
1,1,2,2-Tetrachloroethane	79-34-5	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
1,1,2-Trichloroethane	79-00-5	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
1,1-Dichloroethane	75-34-3	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
1,1-Dichloroethylene	75-35-4	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
1,1-Dichloropropene	563-58-6	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
1,2,3-Trichlorobenzene	87-61-6	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
1,2,3-Trichloropropane	96-18-4	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD





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Certificate of Analysis

Client Name: Chesapeake Geosciences, Inc.
Client Site ID: ARRA Subsurface Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID: B-4 / 2.5' **Laboratory Sample ID:** 12060294-004 **Sample Date:** Date/Time Sampled: 06/11/12 13:00

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
1,2,4-Trichlorobenzene	120-82-1	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
1,2,4-Trimethylbenzene	95-63-6	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
1,2-Dibromoethane (EDB)	106-93-4	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
1,2-Dichlorobenzene	95-50-1	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
1,2-Dichloroethane	107-06-2	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
1,2-Dichloropropane	78-87-5	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
1,3,5-Trimethylbenzene	108-67-8	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
1,3-Dichlorobenzene	541-73-1	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
1,3-Dichloropropane	142-28-9	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
1,4-Dichlorobenzene	106-46-7	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
2,2-Dichloropropane	594-20-7	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
2-Butanone (MEK)	78-93-3	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		209	209	1	ug/kg	MKD
2-Chlorotoluene	95-49-8	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
2-Hexanone (MBK)	591-78-6	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		209	209	1	ug/kg	MKD
4-Chlorotoluene	106-43-4	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
4-Methyl-2-pentanone (MIBK)	108-10-1	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		209	209	1	ug/kg	MKD
Acetone	67-64-1	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		209	209	1	ug/kg	MKD
Benzene	71-43-2	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
Bromobenzene	108-86-1	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
Bromochloromethane	74-97-5	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
Bromodichloromethane	75-27-4	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
Bromoform	75-25-2	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		209	209	1	ug/kg	MKD





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Certificate of Analysis

Client Name: Chesapeake Geosciences, Inc.
Client Site ID: ARRA Subsurface Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID: B-4 / 2.5' **Laboratory Sample ID:** 12060294-004 **Sample Date:** Date/Time Sampled: 06/11/12 13:00

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
Bromomethane	74-83-9	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
Carbon disulfide	75-15-0	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
Carbon tetrachloride	56-23-5	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
Chlorobenzene	108-90-7	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
Chloroethane	75-00-3	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
Chloroform	67-66-3	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
Chloromethane	74-87-3	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
cis-1,2-Dichloroethylene	156-59-2	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
cis-1,3-Dichloropropene	10061-01-5	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
Dibromochloromethane	124-48-1	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
Dibromomethane	74-95-3	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
Dichlorodifluoromethane	75-71-8	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
Di-isopropyl ether (DIPE)	108-20-3	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
Ethylbenzene	100-41-4	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
Hexachlorobutadiene	87-68-3	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
Iodomethane	74-88-4	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
Isopropylbenzene	98-82-8	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
m,p-Xylenes	179601-23-1	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
Methylene chloride	75-09-2	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
MTBE	1634-04-4	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
Naphthalene	91-20-3	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
n-Butylbenzene	104-51-8	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
n-Propylbenzene	103-65-1	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
o-Xylene	95-47-6	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD





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Certificate of Analysis

Client Name: Chesapeake Geosciences, Inc.
Client Site ID: ARRA Subsurface Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID B-4 / 2.5' **Laboratory Sample ID** 12060294-004 **Sample Date** Date/Time Sampled: 06/11/12 13:00

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
p-Isopropyltoluene	99-87-6	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
sec-Butylbenzene	135-98-8	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
Styrene	100-42-5	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
tert-Butylbenzene	98-06-6	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
Tetrachloroethylene (PCE)	127-18-4	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
Toluene	108-88-3	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
trans-1,2-Dichloroethylene	156-60-5	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
trans-1,3-Dichloropropene	10061-02-6	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
Trichloroethylene	79-01-6	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
Trichlorofluoromethane	75-69-4	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
Vinyl acetate	108-05-4	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
Vinyl chloride	75-01-4	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
Xylenes, Total	1330-20-7	SW8260B	06/20/12 13:39	06/20/12 13:39	BLOD		52.2	52.2	1	ug/kg	MKD
TPH-Semi-Volatiles (DRO)	NA	SW8015C	06/19/12 14:30	06/20/12 18:38	22.2		10.4	10.4	1	mg/kg	JHV

Client Sample ID B-4 / 31.5' **Laboratory Sample ID** 12060294-005 **Sample Date** Date/Time Sampled: 06/13/12 11:25

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
Percent Moisture	NA	SM18/2540G	06/26/12 9:35	06/26/12 9:35	16.5		0.1	0.1	1	%	KMW
TPH-Volatiles (GRO)	NA	SW8015C	06/22/12 16:49	06/22/12 16:49	BLOD		6.0	6.0	50	mg/kg	AJR
1,1,1,2-Tetrachloroethane	630-20-6	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
1,1,1-Trichloroethane	71-55-6	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD





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Client Site ID: ARRA Subsurface Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID: B-4 / 31.5' **Laboratory Sample ID:** 12060294-005 **Sample Date:** Date/Time Sampled: 06/13/12 11:25

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
1,1,2,2-Tetrachloroethane	79-34-5	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
1,1,2-Trichloroethane	79-00-5	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
1,1-Dichloroethane	75-34-3	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
1,1-Dichloroethylene	75-35-4	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
1,1-Dichloropropene	563-58-6	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
1,2,3-Trichlorobenzene	87-61-6	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
1,2,3-Trichloropropane	96-18-4	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
1,2,4-Trichlorobenzene	120-82-1	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
1,2,4-Trimethylbenzene	95-63-6	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
1,2-Dibromoethane (EDB)	106-93-4	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
1,2-Dichlorobenzene	95-50-1	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
1,2-Dichloroethane	107-06-2	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
1,2-Dichloropropane	78-87-5	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
1,3,5-Trimethylbenzene	108-67-8	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
1,3-Dichlorobenzene	541-73-1	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
1,3-Dichloropropane	142-28-9	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
1,4-Dichlorobenzene	106-46-7	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
2,2-Dichloropropane	594-20-7	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
2-Butanone (MEK)	78-93-3	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		239	239	1	ug/kg	MKD
2-Chlorotoluene	95-49-8	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
2-Hexanone (MBK)	591-78-6	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		239	239	1	ug/kg	MKD
4-Chlorotoluene	106-43-4	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD





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Certificate of Analysis

Client Name: Chesapeake Geosciences, Inc.
Client Site ID: ARRA Subsurface Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID: B-4 / 31.5' **Laboratory Sample ID:** 12060294-005 **Sample Date:** Date/Time Sampled: 06/13/12 11:25

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
4-Methyl-2-pentanone (MIBK)	108-10-1	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		239	239	1	ug/kg	MKD
Acetone	67-64-1	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		239	239	1	ug/kg	MKD
Benzene	71-43-2	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
Bromobenzene	108-86-1	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
Bromochloromethane	74-97-5	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
Bromodichloromethane	75-27-4	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
Bromoform	75-25-2	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		239	239	1	ug/kg	MKD
Bromomethane	74-83-9	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
Carbon disulfide	75-15-0	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
Carbon tetrachloride	56-23-5	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
Chlorobenzene	108-90-7	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
Chloroethane	75-00-3	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
Chloroform	67-66-3	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
Chloromethane	74-87-3	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
cis-1,2-Dichloroethylene	156-59-2	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
cis-1,3-Dichloropropene	10061-01-5	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
Dibromochloromethane	124-48-1	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
Dibromomethane	74-95-3	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
Dichlorodifluoromethane	75-71-8	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
Di-isopropyl ether (DIPE)	108-20-3	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
Ethylbenzene	100-41-4	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
Hexachlorobutadiene	87-68-3	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
Iodomethane	74-88-4	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
Isopropylbenzene	98-82-8	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD





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Certificate of Analysis

Client Name: Chesapeake Geosciences, Inc.
Client Site ID: ARRA Subsurface Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID: B-4 / 31.5' **Laboratory Sample ID:** 12060294-005 **Sample Date:** Date/Time Sampled: 06/13/12 11:25

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
m,p-Xylenes	179601-23-1	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
Methylene chloride	75-09-2	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
MTBE	1634-04-4	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
Naphthalene	91-20-3	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
n-Butylbenzene	104-51-8	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
n-Propylbenzene	103-65-1	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
o-Xylene	95-47-6	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
p-Isopropyltoluene	99-87-6	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
sec-Butylbenzene	135-98-8	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
Styrene	100-42-5	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
tert-Butylbenzene	98-06-6	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
Tetrachloroethylene (PCE)	127-18-4	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
Toluene	108-88-3	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
trans-1,2-Dichloroethylene	156-60-5	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
trans-1,3-Dichloropropene	10061-02-6	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
Trichloroethylene	79-01-6	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
Trichlorofluoromethane	75-69-4	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
Vinyl acetate	108-05-4	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
Vinyl chloride	75-01-4	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
Xylenes, Total	1330-20-7	SW8260B	06/20/12 14:04	06/20/12 14:04	BLOD		59.9	59.9	1	ug/kg	MKD
TPH-Semi-Volatiles (DRO)	NA	SW8015C	06/19/12 14:30	06/20/12 19:03	BLOD		12.0	12.0	1	mg/kg	JHV





Air Water & Soil Laboratories, Inc.
 2109 A. North Hamilton Street
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Certificate of Analysis

Client Name: Chesapeake Geosciences, Inc.
Client Site ID: ARRA Subsurface Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID B-10 / 9.5' **Laboratory Sample ID** 12060294-006 **Sample Date** Date/Time Sampled: 06/11/12 09:55

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
Percent Moisture	NA	SM18/2540G	06/26/12 9:35	06/26/12 9:35	11.4		0.1	0.1	1	%	KMW
TPH-Volatiles (GRO)	NA	SW8015C	06/22/12 17:15	06/22/12 17:15	BLOD		5.6	5.6	50	mg/kg	AJR
1,1,1,2-Tetrachloroethane	630-20-6	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
1,1,1-Trichloroethane	71-55-6	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
1,1,2,2-Tetrachloroethane	79-34-5	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
1,1,2-Trichloroethane	79-00-5	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
1,1-Dichloroethane	75-34-3	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
1,1-Dichloroethylene	75-35-4	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
1,1-Dichloropropene	563-58-6	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
1,2,3-Trichlorobenzene	87-61-6	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
1,2,3-Trichloropropane	96-18-4	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
1,2,4-Trichlorobenzene	120-82-1	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
1,2,4-Trimethylbenzene	95-63-6	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
1,2-Dibromoethane (EDB)	106-93-4	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
1,2-Dichlorobenzene	95-50-1	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
1,2-Dichloroethane	107-06-2	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
1,2-Dichloropropane	78-87-5	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
1,3,5-Trimethylbenzene	108-67-8	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
1,3-Dichlorobenzene	541-73-1	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
1,3-Dichloropropane	142-28-9	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
1,4-Dichlorobenzene	106-46-7	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
2,2-Dichloropropane	594-20-7	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD





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Certificate of Analysis

Client Name: Chesapeake Geosciences, Inc.
Client Site ID: ARRA Subsurface Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID: B-10 / 9.5' **Laboratory Sample ID:** 12060294-006 **Sample Date:** Date/Time Sampled: 06/11/12 09:55

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
2-Butanone (MEK)	78-93-3	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		226	226	1	ug/kg	MKD
2-Chlorotoluene	95-49-8	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
2-Hexanone (MBK)	591-78-6	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		226	226	1	ug/kg	MKD
4-Chlorotoluene	106-43-4	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
4-Methyl-2-pentanone (MIBK)	108-10-1	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		226	226	1	ug/kg	MKD
Acetone	67-64-1	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		226	226	1	ug/kg	MKD
Benzene	71-43-2	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
Bromobenzene	108-86-1	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
Bromochloromethane	74-97-5	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
Bromodichloromethane	75-27-4	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
Bromoform	75-25-2	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		226	226	1	ug/kg	MKD
Bromomethane	74-83-9	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
Carbon disulfide	75-15-0	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
Carbon tetrachloride	56-23-5	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
Chlorobenzene	108-90-7	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
Chloroethane	75-00-3	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
Chloroform	67-66-3	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
Chloromethane	74-87-3	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
cis-1,2-Dichloroethylene	156-59-2	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
cis-1,3-Dichloropropene	10061-01-5	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
Dibromochloromethane	124-48-1	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
Dibromomethane	74-95-3	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
Dichlorodifluoromethane	75-71-8	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
Di-isopropyl ether (DIPE)	108-20-3	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD





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Certificate of Analysis

Client Name: Chesapeake Geosciences, Inc.
Client Site ID: ARRA Subsurface Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID: B-10 / 9.5' **Laboratory Sample ID:** 12060294-006 **Sample Date:** Date/Time Sampled: 06/11/12 09:55

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
Ethylbenzene	100-41-4	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
Hexachlorobutadiene	87-68-3	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
Iodomethane	74-88-4	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
Isopropylbenzene	98-82-8	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
m,p-Xylenes	179601-23-1	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
Methylene chloride	75-09-2	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
MTBE	1634-04-4	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
Naphthalene	91-20-3	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
n-Butylbenzene	104-51-8	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
n-Propylbenzene	103-65-1	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
o-Xylene	95-47-6	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
p-Isopropyltoluene	99-87-6	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
sec-Butylbenzene	135-98-8	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
Styrene	100-42-5	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
tert-Butylbenzene	98-06-6	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
Tetrachloroethylene (PCE)	127-18-4	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
Toluene	108-88-3	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
trans-1,2-Dichloroethylene	156-60-5	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
trans-1,3-Dichloropropene	10061-02-6	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
Trichloroethylene	79-01-6	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
Trichlorofluoromethane	75-69-4	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
Vinyl acetate	108-05-4	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
Vinyl chloride	75-01-4	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD
Xylenes, Total	1330-20-7	SW8260B	06/20/12 14:30	06/20/12 14:30	BLOD		56.4	56.4	1	ug/kg	MKD





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Certificate of Analysis

Client Name: Chesapeake Geosciences, Inc.
Client Site ID: ARRA Subsurface Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID B-10 / 9.5' **Laboratory Sample ID** 12060294-006 **Sample Date** Date/Time Sampled: 06/11/12 09:55

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
TPH-Semi-Volatiles (DRO)	NA	SW8015C	06/19/12 14:30	06/20/12 19:29	BLOD		11.3	11.3	1	mg/kg	JHV

Client Sample ID B-11 / 7' **Laboratory Sample ID** 12060294-007 **Sample Date** Date/Time Sampled: 06/11/12 14:35

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
Percent Moisture	NA	SM18/2540G	06/26/12 9:35	06/26/12 9:35	19.1		0.1	0.1	1	%	KMW
TPH-Volatiles (GRO)	NA	SW8015C	06/22/12 17:41	06/22/12 17:41	BLOD		6.2	6.2	50	mg/kg	AJR
1,1,1,2-Tetrachloroethane	630-20-6	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
1,1,1-Trichloroethane	71-55-6	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
1,1,2,2-Tetrachloroethane	79-34-5	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
1,1,2-Trichloroethane	79-00-5	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
1,1-Dichloroethane	75-34-3	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
1,1-Dichloroethylene	75-35-4	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
1,1-Dichloropropene	563-58-6	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
1,2,3-Trichlorobenzene	87-61-6	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
1,2,3-Trichloropropane	96-18-4	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
1,2,4-Trichlorobenzene	120-82-1	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
1,2,4-Trimethylbenzene	95-63-6	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
1,2-Dibromoethane (EDB)	106-93-4	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
1,2-Dichlorobenzene	95-50-1	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
1,2-Dichloroethane	107-06-2	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD





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Client Name: Chesapeake Geosciences, Inc.
Client Site ID: ARRA Subsurface Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID: B-11 / 7' **Laboratory Sample ID:** 12060294-007 **Sample Date:** Date/Time Sampled: 06/11/12 14:35

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
1,2-Dichloropropane	78-87-5	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
1,3,5-Trimethylbenzene	108-67-8	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
1,3-Dichlorobenzene	541-73-1	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
1,3-Dichloropropane	142-28-9	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
1,4-Dichlorobenzene	106-46-7	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
2,2-Dichloropropane	594-20-7	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
2-Butanone (MEK)	78-93-3	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		247	247	1	ug/kg	MKD
2-Chlorotoluene	95-49-8	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
2-Hexanone (MBK)	591-78-6	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		247	247	1	ug/kg	MKD
4-Chlorotoluene	106-43-4	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
4-Methyl-2-pentanone (MIBK)	108-10-1	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		247	247	1	ug/kg	MKD
Acetone	67-64-1	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		247	247	1	ug/kg	MKD
Benzene	71-43-2	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
Bromobenzene	108-86-1	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
Bromochloromethane	74-97-5	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
Bromodichloromethane	75-27-4	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
Bromoform	75-25-2	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		247	247	1	ug/kg	MKD
Bromomethane	74-83-9	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
Carbon disulfide	75-15-0	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
Carbon tetrachloride	56-23-5	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
Chlorobenzene	108-90-7	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
Chloroethane	75-00-3	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
Chloroform	67-66-3	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
Chloromethane	74-87-3	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD





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Certificate of Analysis

Client Name: Chesapeake Geosciences, Inc.
Client Site ID: ARRA Subsurface Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID: B-11 / 7' **Laboratory Sample ID:** 12060294-007 **Sample Date:** Date/Time Sampled: 06/11/12 14:35

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
cis-1,2-Dichloroethylene	156-59-2	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
cis-1,3-Dichloropropene	10061-01-5	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
Dibromochloromethane	124-48-1	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
Dibromomethane	74-95-3	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
Dichlorodifluoromethane	75-71-8	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
Di-isopropyl ether (DIPE)	108-20-3	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
Ethylbenzene	100-41-4	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
Hexachlorobutadiene	87-68-3	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
Iodomethane	74-88-4	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
Isopropylbenzene	98-82-8	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
m,p-Xylenes	179601-23-1	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
Methylene chloride	75-09-2	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
MTBE	1634-04-4	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
Naphthalene	91-20-3	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
n-Butylbenzene	104-51-8	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
n-Propylbenzene	103-65-1	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
o-Xylene	95-47-6	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
p-Isopropyltoluene	99-87-6	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
sec-Butylbenzene	135-98-8	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
Styrene	100-42-5	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
tert-Butylbenzene	98-06-6	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
Tetrachloroethylene (PCE)	127-18-4	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
Toluene	108-88-3	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
trans-1,2-Dichloroethylene	156-60-5	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD





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Certificate of Analysis

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Client Site ID: ARRA Subsurface Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID B-11 / 7' **Laboratory Sample ID** 12060294-007 **Sample Date** Date/Time Sampled: 06/11/12 14:35

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
trans-1,3-Dichloropropene	10061-02-6	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
Trichloroethylene	79-01-6	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
Trichlorofluoromethane	75-69-4	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
Vinyl acetate	108-05-4	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
Vinyl chloride	75-01-4	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
Xylenes, Total	1330-20-7	SW8260B	06/20/12 14:56	06/20/12 14:56	BLOD		61.8	61.8	1	ug/kg	MKD
TPH-Semi-Volatiles (DRO)	NA	SW8015C	06/19/12 14:30	06/20/12 19:53	BLOD		12.4	12.4	1	mg/kg	JHV

Client Sample ID B-1 GW **Laboratory Sample ID** 12060294-008 **Sample Date** Date/Time Sampled: 06/11/12 17:30

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
1,1,1,2-Tetrachloroethane	630-20-6	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.4	1.0	1	ug/L	MKD
1,1,1-Trichloroethane	71-55-6	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.7	1.0	1	ug/L	MKD
1,1,2,2-Tetrachloroethane	79-34-5	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.4	1.0	1	ug/L	MKD
1,1,2-Trichloroethane	79-00-5	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.5	1.0	1	ug/L	MKD
1,1-Dichloroethane	75-34-3	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.4	1.0	1	ug/L	MKD
1,1-Dichloroethylene	75-35-4	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.3	1.0	1	ug/L	MKD
1,1-Dichloropropene	563-58-6	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.2	1.0	1	ug/L	MKD
1,2,3-Trichlorobenzene	87-61-6	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.2	1.0	1	ug/L	MKD
1,2,3-Trichloropropane	96-18-4	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.2	1.0	1	ug/L	MKD
1,2,4-Trichlorobenzene	120-82-1	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.2	1.0	1	ug/L	MKD
1,2,4-Trimethylbenzene	95-63-6	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.5	1.0	1	ug/L	MKD





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Client Site ID: ARRA Subsurface Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID B-1 GW **Laboratory Sample ID** 12060294-008 **Sample Date** Date/Time Sampled: 06/11/12 17:30

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.8	4.0	1	ug/L	MKD
1,2-Dibromoethane (EDB)	106-93-4	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.3	1.0	1	ug/L	MKD
1,2-Dichlorobenzene	95-50-1	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.2	1.0	1	ug/L	MKD
1,2-Dichloroethane	107-06-2	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.9	1.0	1	ug/L	MKD
1,2-Dichloropropane	78-87-5	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.6	1.0	1	ug/L	MKD
1,3,5-Trimethylbenzene	108-67-8	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.2	1.0	1	ug/L	MKD
1,3-Dichlorobenzene	541-73-1	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.2	1.0	1	ug/L	MKD
1,3-Dichloropropane	142-28-9	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.2	1.0	1	ug/L	MKD
1,4-Dichlorobenzene	106-46-7	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.4	1.0	1	ug/L	MKD
2,2-Dichloropropane	594-20-7	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.6	1.0	1	ug/L	MKD
2-Butanone (MEK)	78-93-3	SW8260B	06/19/12 20:47	06/19/12 20:47	2.3	J	0.6	10.0	1	ug/L	MKD
2-Chlorotoluene	95-49-8	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.6	1.0	1	ug/L	MKD
2-Hexanone (MBK)	591-78-6	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.4	10.0	1	ug/L	MKD
4-Chlorotoluene	106-43-4	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.7	1.0	1	ug/L	MKD
4-Methyl-2-pentanone (MIBK)	108-10-1	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.3	10.0	1	ug/L	MKD
Acetone	67-64-1	SW8260B	06/19/12 20:47	06/19/12 20:47	24.0		7.0	10.0	1	ug/L	MKD
Benzene	71-43-2	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.3	1.0	1	ug/L	MKD
Bromobenzene	108-86-1	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.5	1.0	1	ug/L	MKD
Bromochloromethane	74-97-5	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.2	1.0	1	ug/L	MKD
Bromodichloromethane	75-27-4	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.3	1.0	1	ug/L	MKD
Bromoform	75-25-2	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.5	1.0	1	ug/L	MKD
Bromomethane	74-83-9	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.3	1.0	1	ug/L	MKD
Carbon disulfide	75-15-0	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.6	10.0	1	ug/L	MKD





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Certificate of Analysis

Client Name: Chesapeake Geosciences, Inc.
Client Site ID: ARRA Subsurface Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID B-1 GW **Laboratory Sample ID** 12060294-008 **Sample Date** Date/Time Sampled: 06/11/12 17:30

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
Carbon tetrachloride	56-23-5	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.4	1.0	1	ug/L	MKD
Chlorobenzene	108-90-7	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.4	1.0	1	ug/L	MKD
Chloroethane	75-00-3	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.4	1.0	1	ug/L	MKD
Chloroform	67-66-3	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.4	1.0	1	ug/L	MKD
Chloromethane	74-87-3	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.5	1.0	1	ug/L	MKD
cis-1,2-Dichloroethylene	156-59-2	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.4	1.0	1	ug/L	MKD
cis-1,3-Dichloropropene	10061-01-5	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.2	1.0	1	ug/L	MKD
Dibromochloromethane	124-48-1	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.7	1.0	1	ug/L	MKD
Dibromomethane	74-95-3	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.4	1.0	1	ug/L	MKD
Dichlorodifluoromethane	75-71-8	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		1.0	1.0	1	ug/L	MKD
Di-isopropyl ether (DIPE)	108-20-3	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.3	5.0	1	ug/L	MKD
Ethylbenzene	100-41-4	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.2	1.0	1	ug/L	MKD
Hexachlorobutadiene	87-68-3	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.2	1.0	1	ug/L	MKD
Iodomethane	74-88-4	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.1	10.0	1	ug/L	MKD
Isopropylbenzene	98-82-8	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.2	1.0	1	ug/L	MKD
m,p-Xylenes	179601-23-1	SW8260B	06/19/12 20:47	06/19/12 20:47	0.6	J	0.5	2.0	1	ug/L	MKD
Methylene chloride	75-09-2	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		1.0	4.0	1	ug/L	MKD
MTBE	1634-04-4	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.4	1.0	1	ug/L	MKD
Naphthalene	91-20-3	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.5	1.0	1	ug/L	MKD
n-Butylbenzene	104-51-8	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.3	1.0	1	ug/L	MKD
n-Propylbenzene	103-65-1	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.2	1.0	1	ug/L	MKD
o-Xylene	95-47-6	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.5	1.0	1	ug/L	MKD
p-Isopropyltoluene	99-87-6	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.2	1.0	1	ug/L	MKD
sec-Butylbenzene	135-98-8	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.4	1.0	1	ug/L	MKD





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Certificate of Analysis

Client Name: Chesapeake Geosciences, Inc.
Client Site ID: ARRA Subsurface Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID B-1 GW **Laboratory Sample ID** 12060294-008 **Sample Date** Date/Time Sampled: 06/11/12 17:30

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
Styrene	100-42-5	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.2	1.0	1	ug/L	MKD
tert-Butylbenzene	98-06-6	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.1	1.0	1	ug/L	MKD
Tetrachloroethylene (PCE)	127-18-4	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.4	1.0	1	ug/L	MKD
Toluene	108-88-3	SW8260B	06/19/12 20:47	06/19/12 20:47	0.9	J	0.4	1.0	1	ug/L	MKD
trans-1,2-Dichloroethylene	156-60-5	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.4	1.0	1	ug/L	MKD
trans-1,3-Dichloropropene	10061-02-6	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.5	1.0	1	ug/L	MKD
Trichloroethylene	79-01-6	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.3	1.0	1	ug/L	MKD
Trichlorofluoromethane	75-69-4	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.4	1.0	1	ug/L	MKD
Vinyl acetate	108-05-4	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.9	10.0	1	ug/L	MKD
Vinyl chloride	75-01-4	SW8260B	06/19/12 20:47	06/19/12 20:47	BLOD		0.3	1.0	1	ug/L	MKD
Xylenes, Total	1330-20-7	SW8260B	06/19/12 20:47	06/19/12 20:47	0.9	J	0.5	3.0	1	ug/L	MKD

Client Sample ID B-2 GW **Laboratory Sample ID** 12060294-009 **Sample Date** Date/Time Sampled: 06/11/12 11:30

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
1,1,1,2-Tetrachloroethane	630-20-6	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.4	1.0	1	ug/L	MKD
1,1,1-Trichloroethane	71-55-6	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.7	1.0	1	ug/L	MKD
1,1,2,2-Tetrachloroethane	79-34-5	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.4	1.0	1	ug/L	MKD
1,1,2-Trichloroethane	79-00-5	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.5	1.0	1	ug/L	MKD
1,1-Dichloroethane	75-34-3	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.4	1.0	1	ug/L	MKD
1,1-Dichloroethylene	75-35-4	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.3	1.0	1	ug/L	MKD
1,1-Dichloropropene	563-58-6	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.2	1.0	1	ug/L	MKD





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Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
1,2,3-Trichlorobenzene	87-61-6	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.2	1.0	1	ug/L	MKD
1,2,3-Trichloropropane	96-18-4	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.2	1.0	1	ug/L	MKD
1,2,4-Trichlorobenzene	120-82-1	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.2	1.0	1	ug/L	MKD
1,2,4-Trimethylbenzene	95-63-6	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.5	1.0	1	ug/L	MKD
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.8	4.0	1	ug/L	MKD
1,2-Dibromoethane (EDB)	106-93-4	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.3	1.0	1	ug/L	MKD
1,2-Dichlorobenzene	95-50-1	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.2	1.0	1	ug/L	MKD
1,2-Dichloroethane	107-06-2	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.9	1.0	1	ug/L	MKD
1,2-Dichloropropane	78-87-5	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.6	1.0	1	ug/L	MKD
1,3,5-Trimethylbenzene	108-67-8	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.2	1.0	1	ug/L	MKD
1,3-Dichlorobenzene	541-73-1	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.2	1.0	1	ug/L	MKD
1,3-Dichloropropane	142-28-9	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.2	1.0	1	ug/L	MKD
1,4-Dichlorobenzene	106-46-7	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.4	1.0	1	ug/L	MKD
2,2-Dichloropropane	594-20-7	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.6	1.0	1	ug/L	MKD
2-Butanone (MEK)	78-93-3	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.6	10.0	1	ug/L	MKD
2-Chlorotoluene	95-49-8	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.6	1.0	1	ug/L	MKD
2-Hexanone (MBK)	591-78-6	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.4	10.0	1	ug/L	MKD
4-Chlorotoluene	106-43-4	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.7	1.0	1	ug/L	MKD
4-Methyl-2-pentanone (MIBK)	108-10-1	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.3	10.0	1	ug/L	MKD
Acetone	67-64-1	SW8260B	06/19/12 21:12	06/19/12 21:12	17.5		7.0	10.0	1	ug/L	MKD
Benzene	71-43-2	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.3	1.0	1	ug/L	MKD
Bromobenzene	108-86-1	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.5	1.0	1	ug/L	MKD
Bromochloromethane	74-97-5	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.2	1.0	1	ug/L	MKD





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Certificate of Analysis

Client Name: Chesapeake Geosciences, Inc.
Client Site ID: ARRA Subsurface Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID: B-2 GW **Laboratory Sample ID:** 12060294-009 **Sample Date:** Date/Time Sampled: 06/11/12 11:30

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
Bromodichloromethane	75-27-4	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.3	1.0	1	ug/L	MKD
Bromoform	75-25-2	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.5	1.0	1	ug/L	MKD
Bromomethane	74-83-9	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.3	1.0	1	ug/L	MKD
Carbon disulfide	75-15-0	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.6	10.0	1	ug/L	MKD
Carbon tetrachloride	56-23-5	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.4	1.0	1	ug/L	MKD
Chlorobenzene	108-90-7	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.4	1.0	1	ug/L	MKD
Chloroethane	75-00-3	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.4	1.0	1	ug/L	MKD
Chloroform	67-66-3	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.4	1.0	1	ug/L	MKD
Chloromethane	74-87-3	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.5	1.0	1	ug/L	MKD
cis-1,2-Dichloroethylene	156-59-2	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.4	1.0	1	ug/L	MKD
cis-1,3-Dichloropropene	10061-01-5	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.2	1.0	1	ug/L	MKD
Dibromochloromethane	124-48-1	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.7	1.0	1	ug/L	MKD
Dibromomethane	74-95-3	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.4	1.0	1	ug/L	MKD
Dichlorodifluoromethane	75-71-8	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		1.0	1.0	1	ug/L	MKD
Di-isopropyl ether (DIPE)	108-20-3	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.3	5.0	1	ug/L	MKD
Ethylbenzene	100-41-4	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.2	1.0	1	ug/L	MKD
Hexachlorobutadiene	87-68-3	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.2	1.0	1	ug/L	MKD
Iodomethane	74-88-4	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.1	10.0	1	ug/L	MKD
Isopropylbenzene	98-82-8	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.2	1.0	1	ug/L	MKD
m,p-Xylenes	179601-23-1	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.5	2.0	1	ug/L	MKD
Methylene chloride	75-09-2	SW8260B	06/19/12 21:12	06/19/12 21:12	1.2	J	1.0	4.0	1	ug/L	MKD
MTBE	1634-04-4	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.4	1.0	1	ug/L	MKD
Naphthalene	91-20-3	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.5	1.0	1	ug/L	MKD
n-Butylbenzene	104-51-8	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.3	1.0	1	ug/L	MKD





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Client Name: Chesapeake Geosciences, Inc.
Client Site ID: ARRA Subsurface Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID B-2 GW **Laboratory Sample ID** 12060294-009 **Sample Date** Date/Time Sampled: 06/11/12 11:30

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
n-Propylbenzene	103-65-1	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.2	1.0	1	ug/L	MKD
o-Xylene	95-47-6	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.5	1.0	1	ug/L	MKD
p-Isopropyltoluene	99-87-6	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.2	1.0	1	ug/L	MKD
sec-Butylbenzene	135-98-8	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.4	1.0	1	ug/L	MKD
Styrene	100-42-5	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.2	1.0	1	ug/L	MKD
tert-Butylbenzene	98-06-6	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.1	1.0	1	ug/L	MKD
Tetrachloroethylene (PCE)	127-18-4	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.4	1.0	1	ug/L	MKD
Toluene	108-88-3	SW8260B	06/19/12 21:12	06/19/12 21:12	0.4	J	0.4	1.0	1	ug/L	MKD
trans-1,2-Dichloroethylene	156-60-5	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.4	1.0	1	ug/L	MKD
trans-1,3-Dichloropropene	10061-02-6	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.5	1.0	1	ug/L	MKD
Trichloroethylene	79-01-6	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.3	1.0	1	ug/L	MKD
Trichlorofluoromethane	75-69-4	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.4	1.0	1	ug/L	MKD
Vinyl acetate	108-05-4	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.9	10.0	1	ug/L	MKD
Vinyl chloride	75-01-4	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.3	1.0	1	ug/L	MKD
Xylenes, Total	1330-20-7	SW8260B	06/19/12 21:12	06/19/12 21:12	BLOD		0.5	3.0	1	ug/L	MKD

Client Sample ID B-10 GW **Laboratory Sample ID** 12060294-010 **Sample Date** Date/Time Sampled: 06/13/12 12:40

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
1,1,1,2-Tetrachloroethane	630-20-6	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.4	1.0	1	ug/L	MKD
1,1,1-Trichloroethane	71-55-6	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.7	1.0	1	ug/L	MKD
1,1,2,2-Tetrachloroethane	79-34-5	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.4	1.0	1	ug/L	MKD





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Client Site ID: ARRA Subsurface Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID: B-10 GW **Laboratory Sample ID:** 12060294-010 **Sample Date:** Date/Time Sampled: 06/13/12 12:40

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
1,1,2-Trichloroethane	79-00-5	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.5	1.0	1	ug/L	MKD
1,1-Dichloroethane	75-34-3	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.4	1.0	1	ug/L	MKD
1,1-Dichloroethylene	75-35-4	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.3	1.0	1	ug/L	MKD
1,1-Dichloropropene	563-58-6	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.2	1.0	1	ug/L	MKD
1,2,3-Trichlorobenzene	87-61-6	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.2	1.0	1	ug/L	MKD
1,2,3-Trichloropropane	96-18-4	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.2	1.0	1	ug/L	MKD
1,2,4-Trichlorobenzene	120-82-1	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.2	1.0	1	ug/L	MKD
1,2,4-Trimethylbenzene	95-63-6	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.5	1.0	1	ug/L	MKD
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.8	4.0	1	ug/L	MKD
1,2-Dibromoethane (EDB)	106-93-4	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.3	1.0	1	ug/L	MKD
1,2-Dichlorobenzene	95-50-1	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.2	1.0	1	ug/L	MKD
1,2-Dichloroethane	107-06-2	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.9	1.0	1	ug/L	MKD
1,2-Dichloropropane	78-87-5	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.6	1.0	1	ug/L	MKD
1,3,5-Trimethylbenzene	108-67-8	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.2	1.0	1	ug/L	MKD
1,3-Dichlorobenzene	541-73-1	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.2	1.0	1	ug/L	MKD
1,3-Dichloropropane	142-28-9	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.2	1.0	1	ug/L	MKD
1,4-Dichlorobenzene	106-46-7	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.4	1.0	1	ug/L	MKD
2,2-Dichloropropane	594-20-7	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.6	1.0	1	ug/L	MKD
2-Butanone (MEK)	78-93-3	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.6	10.0	1	ug/L	MKD
2-Chlorotoluene	95-49-8	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.6	1.0	1	ug/L	MKD
2-Hexanone (MBK)	591-78-6	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.4	10.0	1	ug/L	MKD
4-Chlorotoluene	106-43-4	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.7	1.0	1	ug/L	MKD
4-Methyl-2-pentanone (MIBK)	108-10-1	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.3	10.0	1	ug/L	MKD





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Client Name: Chesapeake Geosciences, Inc.
Client Site ID: ARRA Subsurface Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID B-10 GW **Laboratory Sample ID** 12060294-010 **Sample Date** Date/Time Sampled: 06/13/12 12:40

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
Acetone	67-64-1	SW8260B	06/19/12 21:37	06/19/12 21:37	8.7	J	7.0	10.0	1	ug/L	MKD
Benzene	71-43-2	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.3	1.0	1	ug/L	MKD
Bromobenzene	108-86-1	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.5	1.0	1	ug/L	MKD
Bromochloromethane	74-97-5	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.2	1.0	1	ug/L	MKD
Bromodichloromethane	75-27-4	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.3	1.0	1	ug/L	MKD
Bromoform	75-25-2	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.5	1.0	1	ug/L	MKD
Bromomethane	74-83-9	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.3	1.0	1	ug/L	MKD
Carbon disulfide	75-15-0	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.6	10.0	1	ug/L	MKD
Carbon tetrachloride	56-23-5	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.4	1.0	1	ug/L	MKD
Chlorobenzene	108-90-7	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.4	1.0	1	ug/L	MKD
Chloroethane	75-00-3	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.4	1.0	1	ug/L	MKD
Chloroform	67-66-3	SW8260B	06/19/12 21:37	06/19/12 21:37	1.1		0.4	1.0	1	ug/L	MKD
Chloromethane	74-87-3	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.5	1.0	1	ug/L	MKD
cis-1,2-Dichloroethylene	156-59-2	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.4	1.0	1	ug/L	MKD
cis-1,3-Dichloropropene	10061-01-5	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.2	1.0	1	ug/L	MKD
Dibromochloromethane	124-48-1	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.7	1.0	1	ug/L	MKD
Dibromomethane	74-95-3	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.4	1.0	1	ug/L	MKD
Dichlorodifluoromethane	75-71-8	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		1.0	1.0	1	ug/L	MKD
Di-isopropyl ether (DIPE)	108-20-3	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.3	5.0	1	ug/L	MKD
Ethylbenzene	100-41-4	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.2	1.0	1	ug/L	MKD
Hexachlorobutadiene	87-68-3	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.2	1.0	1	ug/L	MKD
Iodomethane	74-88-4	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.1	10.0	1	ug/L	MKD
Isopropylbenzene	98-82-8	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.2	1.0	1	ug/L	MKD
m,p-Xylenes	179601-23-1	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.5	2.0	1	ug/L	MKD





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Client Site ID: ARRA Subsurface Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID: B-10 GW **Laboratory Sample ID:** 12060294-010 **Sample Date:** Date/Time Sampled: 06/13/12 12:40

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
Methylene chloride	75-09-2	SW8260B	06/19/12 21:37	06/19/12 21:37	1.4	J	1.0	4.0	1	ug/L	MKD
MTBE	1634-04-4	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.4	1.0	1	ug/L	MKD
Naphthalene	91-20-3	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.5	1.0	1	ug/L	MKD
n-Butylbenzene	104-51-8	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.3	1.0	1	ug/L	MKD
n-Propylbenzene	103-65-1	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.2	1.0	1	ug/L	MKD
o-Xylene	95-47-6	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.5	1.0	1	ug/L	MKD
p-Isopropyltoluene	99-87-6	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.2	1.0	1	ug/L	MKD
sec-Butylbenzene	135-98-8	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.4	1.0	1	ug/L	MKD
Styrene	100-42-5	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.2	1.0	1	ug/L	MKD
tert-Butylbenzene	98-06-6	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.1	1.0	1	ug/L	MKD
Tetrachloroethylene (PCE)	127-18-4	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.4	1.0	1	ug/L	MKD
Toluene	108-88-3	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.4	1.0	1	ug/L	MKD
trans-1,2-Dichloroethylene	156-60-5	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.4	1.0	1	ug/L	MKD
trans-1,3-Dichloropropene	10061-02-6	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.5	1.0	1	ug/L	MKD
Trichloroethylene	79-01-6	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.3	1.0	1	ug/L	MKD
Trichlorofluoromethane	75-69-4	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.4	1.0	1	ug/L	MKD
Vinyl acetate	108-05-4	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.9	10.0	1	ug/L	MKD
Vinyl chloride	75-01-4	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.3	1.0	1	ug/L	MKD
Xylenes, Total	1330-20-7	SW8260B	06/19/12 21:37	06/19/12 21:37	BLOD		0.5	3.0	1	ug/L	MKD





Air Water & Soil Laboratories, Inc.
 2109 A. North Hamilton Street
 Richmond, Virginia 23230
 (804) 358-8295 - Telephone
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Certificate of Analysis

Client Name: Chesapeake Geosciences, Inc.
Client Site ID: ARRA Subsurface Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID Dup-GW **Laboratory Sample ID** 12060294-011 **Sample Date** Date/Time Sampled: 06/11/12

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
1,1,1,2-Tetrachloroethane	630-20-6	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.4	1.0	1	ug/L	MKD
1,1,1-Trichloroethane	71-55-6	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.7	1.0	1	ug/L	MKD
1,1,2,2-Tetrachloroethane	79-34-5	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.4	1.0	1	ug/L	MKD
1,1,2-Trichloroethane	79-00-5	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.5	1.0	1	ug/L	MKD
1,1-Dichloroethane	75-34-3	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.4	1.0	1	ug/L	MKD
1,1-Dichloroethylene	75-35-4	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.3	1.0	1	ug/L	MKD
1,1-Dichloropropene	563-58-6	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.2	1.0	1	ug/L	MKD
1,2,3-Trichlorobenzene	87-61-6	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.2	1.0	1	ug/L	MKD
1,2,3-Trichloropropane	96-18-4	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.2	1.0	1	ug/L	MKD
1,2,4-Trichlorobenzene	120-82-1	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.2	1.0	1	ug/L	MKD
1,2,4-Trimethylbenzene	95-63-6	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.5	1.0	1	ug/L	MKD
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.8	4.0	1	ug/L	MKD
1,2-Dibromoethane (EDB)	106-93-4	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.3	1.0	1	ug/L	MKD
1,2-Dichlorobenzene	95-50-1	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.2	1.0	1	ug/L	MKD
1,2-Dichloroethane	107-06-2	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.9	1.0	1	ug/L	MKD
1,2-Dichloropropane	78-87-5	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.6	1.0	1	ug/L	MKD
1,3,5-Trimethylbenzene	108-67-8	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.2	1.0	1	ug/L	MKD
1,3-Dichlorobenzene	541-73-1	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.2	1.0	1	ug/L	MKD
1,3-Dichloropropane	142-28-9	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.2	1.0	1	ug/L	MKD
1,4-Dichlorobenzene	106-46-7	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.4	1.0	1	ug/L	MKD
2,2-Dichloropropane	594-20-7	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.6	1.0	1	ug/L	MKD
2-Butanone (MEK)	78-93-3	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.6	10.0	1	ug/L	MKD
2-Chlorotoluene	95-49-8	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.6	1.0	1	ug/L	MKD





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Certificate of Analysis

Client Name: Chesapeake Geosciences, Inc.
Client Site ID: ARRA Subsurface Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID: Dup-GW **Laboratory Sample ID:** 12060294-011 **Sample Date:** Date/Time Sampled: 06/11/12

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
2-Hexanone (MBK)	591-78-6	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.4	10.0	1	ug/L	MKD
4-Chlorotoluene	106-43-4	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.7	1.0	1	ug/L	MKD
4-Methyl-2-pentanone (MIBK)	108-10-1	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.3	10.0	1	ug/L	MKD
Acetone	67-64-1	SW8260B	06/19/12 22:01	06/19/12 22:01	16.3		7.0	10.0	1	ug/L	MKD
Benzene	71-43-2	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.3	1.0	1	ug/L	MKD
Bromobenzene	108-86-1	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.5	1.0	1	ug/L	MKD
Bromochloromethane	74-97-5	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.2	1.0	1	ug/L	MKD
Bromodichloromethane	75-27-4	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.3	1.0	1	ug/L	MKD
Bromoform	75-25-2	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.5	1.0	1	ug/L	MKD
Bromomethane	74-83-9	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.3	1.0	1	ug/L	MKD
Carbon disulfide	75-15-0	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.6	10.0	1	ug/L	MKD
Carbon tetrachloride	56-23-5	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.4	1.0	1	ug/L	MKD
Chlorobenzene	108-90-7	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.4	1.0	1	ug/L	MKD
Chloroethane	75-00-3	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.4	1.0	1	ug/L	MKD
Chloroform	67-66-3	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.4	1.0	1	ug/L	MKD
Chloromethane	74-87-3	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.5	1.0	1	ug/L	MKD
cis-1,2-Dichloroethylene	156-59-2	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.4	1.0	1	ug/L	MKD
cis-1,3-Dichloropropene	10061-01-5	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.2	1.0	1	ug/L	MKD
Dibromochloromethane	124-48-1	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.7	1.0	1	ug/L	MKD
Dibromomethane	74-95-3	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.4	1.0	1	ug/L	MKD
Dichlorodifluoromethane	75-71-8	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		1.0	1.0	1	ug/L	MKD
Di-isopropyl ether (DIPE)	108-20-3	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.3	5.0	1	ug/L	MKD
Ethylbenzene	100-41-4	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.2	1.0	1	ug/L	MKD
Hexachlorobutadiene	87-68-3	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.2	1.0	1	ug/L	MKD





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Certificate of Analysis

Client Name: Chesapeake Geosciences, Inc.
Client Site ID: ARRA Subsurface Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID: Dup-GW **Laboratory Sample ID:** 12060294-011 **Sample Date:** Date/Time Sampled: 06/11/12

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
Iodomethane	74-88-4	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.1	10.0	1	ug/L	MKD
Isopropylbenzene	98-82-8	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.2	1.0	1	ug/L	MKD
m,p-Xylenes	179601-23-1	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.5	2.0	1	ug/L	MKD
Methylene chloride	75-09-2	SW8260B	06/19/12 22:01	06/19/12 22:01	1.3	J	1.0	4.0	1	ug/L	MKD
MTBE	1634-04-4	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.4	1.0	1	ug/L	MKD
Naphthalene	91-20-3	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.5	1.0	1	ug/L	MKD
n-Butylbenzene	104-51-8	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.3	1.0	1	ug/L	MKD
n-Propylbenzene	103-65-1	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.2	1.0	1	ug/L	MKD
o-Xylene	95-47-6	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.5	1.0	1	ug/L	MKD
p-Isopropyltoluene	99-87-6	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.2	1.0	1	ug/L	MKD
sec-Butylbenzene	135-98-8	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.4	1.0	1	ug/L	MKD
Styrene	100-42-5	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.2	1.0	1	ug/L	MKD
tert-Butylbenzene	98-06-6	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.1	1.0	1	ug/L	MKD
Tetrachloroethylene (PCE)	127-18-4	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.4	1.0	1	ug/L	MKD
Toluene	108-88-3	SW8260B	06/19/12 22:01	06/19/12 22:01	0.5	J	0.4	1.0	1	ug/L	MKD
trans-1,2-Dichloroethylene	156-60-5	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.4	1.0	1	ug/L	MKD
trans-1,3-Dichloropropene	10061-02-6	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.5	1.0	1	ug/L	MKD
Trichloroethylene	79-01-6	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.3	1.0	1	ug/L	MKD
Trichlorofluoromethane	75-69-4	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.4	1.0	1	ug/L	MKD
Vinyl acetate	108-05-4	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.9	10.0	1	ug/L	MKD
Vinyl chloride	75-01-4	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.3	1.0	1	ug/L	MKD
Xylenes, Total	1330-20-7	SW8260B	06/19/12 22:01	06/19/12 22:01	BLOD		0.5	3.0	1	ug/L	MKD





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Certificate of Analysis

Client Name: Chesapeake Geosciences, Inc.
Client Site ID: ARRA Subsurface Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Summary of Analytical QC Batches

Qualifier Definitions

Qualifier	Description
J	The reported concentration is less than the LOQ but greater than the LOD. The concentration is considered to be estimated.
M	Matrix spike recovery is outside established acceptance limits.

End Notes:

The test results listed in this report relate only to the samples submitted to the laboratory and as received by t

Unless otherwise noted, the test results for solid materials are calculated on a wet weight basis. Analyses for temperature, residual chlorine and sulfite that are performed in the laboratory do not meet NELAC requiremer holding times. These analyses should be performed in the field. The results of field analyses performed by th Certificate of Analysis are done so at the client's request and are not included in the laboratory's fields of certi audited for adherence to a reference method or procedure.

The signature on the final report certifies that these results conform to all applicable NELAC standards unless complete list of the Laboratory's NELAC certified parameters please contact customer service.

This report shall not be reproduced except in full without the expressed and written approval of an authorized





Analysis Certifications Report

Client Name: Chesapeake Geosciences, Inc.
 Client Site ID: ARRA Subsurface Veterans-Najoles
 Submitted To: John Kosloski

Date Issued: 06/27/2012

Order ID: 12060294

Parameter	Method	NC	VA-NP	VA-SO	WVA
1,1,1,2-Tetrachloroethane	SW8260B	X	X		X
1,1,1,2-Tetrachloroethane	SW8260B	X		X	X
1,1,1-Trichloroethane	SW8260B	X	X		X
1,1,1-Trichloroethane	SW8260B	X		X	X
1,1,2,2-Tetrachloroethane	SW8260B	X	X		X
1,1,2,2-Tetrachloroethane	SW8260B	X		X	X
1,1,2-Trichloroethane	SW8260B	X	X		X
1,1,2-Trichloroethane	SW8260B	X		X	X
1,1-Dichloroethane	SW8260B	X	X		X
1,1-Dichloroethane	SW8260B	X		X	X
1,1-Dichloroethylene	SW8260B	X		X	X
1,1-Dichloroethylene	SW8260B	X	X		X
1,1-Dichloropropene	SW8260B	X		X	X
1,1-Dichloropropene	SW8260B	X	X		X
1,2,3-Trichlorobenzene	SW8260B	X	X		X
1,2,3-Trichlorobenzene	SW8260B	X		X	X
1,2,3-Trichloropropane	SW8260B	X	X		X
1,2,3-Trichloropropane	SW8260B	X		X	X
1,2,4-Trichlorobenzene	SW8260B	X	X		X
1,2,4-Trichlorobenzene	SW8260B	X		X	X
1,2,4-Trimethylbenzene	SW8260B	X	X		X
1,2,4-Trimethylbenzene	SW8260B	X		X	X
1,2-Dibromo-3-chloropropane (DBCP)	SW8260B	X	X		X
1,2-Dibromo-3-chloropropane (DBCP)	SW8260B	X		X	X
1,2-Dibromoethane (EDB)	SW8260B	X	X		X
1,2-Dibromoethane (EDB)	SW8260B	X		X	X
1,2-Dichlorobenzene	SW8260B	X	X		X
1,2-Dichlorobenzene	SW8260B	X		X	X
1,2-Dichloroethane	SW8260B	X	X		X
1,2-Dichloroethane	SW8260B	X		X	X
1,2-Dichloropropane	SW8260B	X	X		X
1,2-Dichloropropane	SW8260B	X		X	X
1,3,5-Trimethylbenzene	SW8260B	X	X		X
1,3,5-Trimethylbenzene	SW8260B	X		X	X
1,3-Dichlorobenzene	SW8260B	X	X		X



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Parameter	Method	NC	VA-NP	VA-SO	WVA
1,3-Dichlorobenzene	SW8260B	X		X	X
1,3-Dichloropropane	SW8260B	X	X		X
1,3-Dichloropropane	SW8260B	X		X	X
1,4-Dichlorobenzene	SW8260B	X	X		X
1,4-Dichlorobenzene	SW8260B	X		X	X
2,2-Dichloropropane	SW8260B	X	X		X
2,2-Dichloropropane	SW8260B	X		X	X
2-Butanone (MEK)	SW8260B	X	X		X
2-Butanone (MEK)	SW8260B	X		X	X
2-Chlorotoluene	SW8260B	X		X	X
2-Chlorotoluene	SW8260B	X	X		X
2-Hexanone (MBK)	SW8260B	X		X	X
2-Hexanone (MBK)	SW8260B	X	X		X
4-Chlorotoluene	SW8260B	X		X	X
4-Chlorotoluene	SW8260B	X	X		X
4-Methyl-2-pentanone (MIBK)	SW8260B	X		X	X
4-Methyl-2-pentanone (MIBK)	SW8260B	X	X		X
Acetone	SW8260B	X		X	X
Acetone	SW8260B	X	X		X
Benzene	SW8260B	X		X	X
Benzene	SW8260B	X	X		X
Bromobenzene	SW8260B	X	X		X
Bromobenzene	SW8260B	X		X	X
Bromochloromethane	SW8260B	X	X		X
Bromochloromethane	SW8260B	X		X	X
Bromodichloromethane	SW8260B	X		X	X
Bromodichloromethane	SW8260B	X	X		X
Bromoform	SW8260B	X	X		X
Bromoform	SW8260B	X		X	X
Bromomethane	SW8260B	X		X	X
Bromomethane	SW8260B	X	X		X
Carbon disulfide	SW8260B	X		X	X
Carbon disulfide	SW8260B	X	X		X
Carbon tetrachloride	SW8260B	X		X	X
Carbon tetrachloride	SW8260B	X	X		X
Chlorobenzene	SW8260B	X		X	X



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Parameter	Method	NC	VA-NP	VA-SO	WVA
Chlorobenzene	SW8260B	X	X		X
Chloroethane	SW8260B	X		X	X
Chloroethane	SW8260B	X	X		X
Chloroform	SW8260B	X	X		X
Chloroform	SW8260B	X		X	X
Chloromethane	SW8260B	X	X		X
Chloromethane	SW8260B	X		X	X
cis-1,2-Dichloroethylene	SW8260B	X	X		X
cis-1,2-Dichloroethylene	SW8260B	X		X	X
cis-1,3-Dichloropropene	SW8260B	X		X	X
cis-1,3-Dichloropropene	SW8260B	X	X		X
Dibromochloromethane	SW8260B	X		X	X
Dibromochloromethane	SW8260B	X	X		X
Dibromomethane	SW8260B	X		X	X
Dibromomethane	SW8260B	X	X		X
Dichlorodifluoromethane	SW8260B	X		X	X
Dichlorodifluoromethane	SW8260B	X	X		X
Di-isopropyl ether (DIPE)	SW8260B	X		X	X
Di-isopropyl ether (DIPE)	SW8260B	X	X		X
Ethylbenzene	SW8260B	X		X	X
Ethylbenzene	SW8260B	X	X		X
Hexachlorobutadiene	SW8260B	X		X	X
Hexachlorobutadiene	SW8260B	X	X		X
Iodomethane	SW8260B	X	X		X
Iodomethane	SW8260B	X		X	X
Isopropylbenzene	SW8260B	X		X	X
Isopropylbenzene	SW8260B	X	X		X
m,p-Xylenes	SW8260B	X		X	X
m,p-Xylenes	SW8260B	X	X		X
Methylene chloride	SW8260B	X	X		X
Methylene chloride	SW8260B	X		X	X
MTBE	SW8260B	X	X		X
MTBE	SW8260B	X		X	X
Naphthalene	SW8260B	X	X		X
Naphthalene	SW8260B	X		X	X
n-Butylbenzene	SW8260B	X	X		X



Analysis Certifications Report

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Parameter	Method	NC	VA-NP	VA-SO	WVA
n-Butylbenzene	SW8260B	X		X	X
n-Propylbenzene	SW8260B	X	X		X
n-Propylbenzene	SW8260B	X		X	X
o-Xylene	SW8260B	X	X		X
o-Xylene	SW8260B	X		X	X
p-Isopropyltoluene	SW8260B	X		X	X
p-Isopropyltoluene	SW8260B	X	X		X
sec-Butylbenzene	SW8260B	X		X	X
sec-Butylbenzene	SW8260B	X	X		X
Styrene	SW8260B	X	X		X
Styrene	SW8260B	X		X	X
tert-Butylbenzene	SW8260B	X	X		X
tert-Butylbenzene	SW8260B	X		X	X
Tetrachloroethylene (PCE)	SW8260B	X		X	X
Tetrachloroethylene (PCE)	SW8260B	X	X		X
Toluene	SW8260B	X	X		X
Toluene	SW8260B	X		X	X
TPH-Semi-Volatiles (DRO)	SW8015C	X		X	X
TPH-Volatiles (GRO)	SW8015C	X		X	X
trans-1,2-Dichloroethylene	SW8260B	X	X		X
trans-1,2-Dichloroethylene	SW8260B	X		X	X
trans-1,3-Dichloropropene	SW8260B	X	X		X
trans-1,3-Dichloropropene	SW8260B	X		X	X
Trichloroethylene	SW8260B	X	X		X
Trichloroethylene	SW8260B	X		X	X
Trichlorofluoromethane	SW8260B	X	X		X
Trichlorofluoromethane	SW8260B	X		X	X
Vinyl acetate	SW8260B	X	X		X
Vinyl acetate	SW8260B	X		X	X
Vinyl chloride	SW8260B	X	X		X
Vinyl chloride	SW8260B	X		X	X
Xylenes, Total	SW8260B	X		X	X
Xylenes, Total	SW8260B	X	X		X



Air Water & Soil Laboratories, Inc.
2109 A. North Hamilton Street
Richmond, Virginia 23230
(804) 358-8295 - Telephone
(804) 358-8297 - Fax

Analysis Certifications Report

Client Name: Chesapeake Geosciences, Inc.
Client Site ID: ARRA Subsurface Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Order ID: 12060294

Parameter	Method	NC	VA-NP	VA-SO	WVA
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"X" denotes that the associated parameter is certified or accredited under the program indicated in the column header.

VA-NP = VELAP Non-Potable Water: Virginia DGS Division of Consolidated Laboratory Services(460021); VA-SOLIDS = VELAP Solids: Virginia DGS Division of Consolidated Laboratory Services(460021); VA-SOLIDS = VELAP Solids: North Carolina(495); WVA: West Virginia Department of Environmental Protection(350); NC: North Carolina(495)

CHAIN OF CUSTODY

COMPANY NAME: CGS	INVOICE TO: John Kosloski	PROJECT NAME/Quote #: ARRA Subsurface
CONTACT: John Kosloski	INVOICE CONTACT: Maria Collazo	SITE NAME: Veterans-Najoles
ADDRESS: 5405 Twin Knolls Rd Ste 1	INVOICE ADDRESS: Columbia MD 21045	PROJECT NUMBER: CG-09-0925.06
PHONE #: (410) 740-1911 X108	INVOICE PHONE #: (410) 740-1911 X100	P.O. #: CG090525 MS
FAX #: (410) 740-3299	EMAIL: jkosloski@cg-us.com	Pretreatment Program: NA
Is sample for compliance reporting? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	Is sample from a chlorinated supply? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	PWS I.D. #:
SAMPLER NAME (PRINT): Meg Staines	SAMPLER SIGNATURE: <i>[Signature]</i>	Turn Around Time: 14 Day(s)

Matrix Codes: WW=Water Water GW=Ground Water DW=Drinking Water S=Soil/Solids OR=Organic A=Air WP=Wipe OT=Other

CLIENT SAMPLE I.D.	Grab	Composite	Field Filtered (Dissolved Metals)	Composite Start Date	Composite Start Time	Grab Date or Composite Stop Date	Grab Time or Composite Stop Time	Time Preserved	Matrix (See Codes)	Number of Containers	ANALYSIS / (PRESERVATIVE)				COMMENTS
											VOCs 8260/ Terracore-Soil	TPH-DFO 8015/ Cool 4°C	TPH-GRO 8015/ Cool 4°C	VOCs 8260/ HCL pH < 2-Water	
1) TB-VN	X					6/11/12	06:00	06:00	GW	3					Trip Blank
2) B-1 (3.5')	X						15:40	15:40	S	5	X	X	X		Terracore sample
3) B-2 (22')	X						16:20	16:20	S	5	X	X	X		kits have 4 con-
4) B-4 (2.5')	X						13:00	13:00	S	5	X	X	X		tainers + 3
5) B-4 (31.5')	X			6/13/12		11:25	11:25		S	5	X	X	X		preservatives:
6) B-10 (9.5')	X			6/11/12		09:55	09:55		S	5	X	X	X		① Cool 4°C (90 mins)
7) B-11 (7')	X					14:35	14:35		S	5	X	X	X		② CH ₄ O
8) B-1-GW	X					17:30	17:30		GW	3					③ NaHSO ₄
9) B-2-GW	X					11:30	11:30		GW	3					
10) B-10-GW	X			6/13/12		12:40	12:40		GW	3					

RELINQUISHED: <i>[Signature]</i>	DATE / TIME: 6/14/12	RECEIVED: UPS	DATE / TIME: 6/14/12	QC Data Package	LAB USE ONLY	COOLER TEMP 6.0 °C
RELINQUISHED: <i>[Signature]</i>	DATE / TIME: 6/14/12	RECEIVED: <i>[Signature]</i>	DATE / TIME: 15 JUNE 2012 11:37	Level I <input type="checkbox"/>	CGI ARRA Subsurface Veterans-N 12060294 	DUE: 10 Days Recd: 06/15/12
RELINQUISHED:	DATE / TIME:	RECEIVED:	DATE / TIME:	Level II Package <input checked="" type="checkbox"/>		
RELINQUISHED:	DATE / TIME:	RECEIVED:	DATE / TIME:	Level III <input type="checkbox"/>		
RELINQUISHED:	DATE / TIME:	RECEIVED:	DATE / TIME:	Level IV <input type="checkbox"/>		

TERMS & CONDITIONS

When a purchaser (Client) places an order for laboratory, consulting or sampling services from Air Water & Soil Laboratories, Inc., a Virginia corporation (referred to as "Air Water & Soil"), Air Water & Soil shall provide the ordered services pursuant to these Terms and Conditions, and the related Quotation or Price Schedule, or as agreed in a negotiated contract. In the absence of a written agreement to the contrary, the Order constitutes an acceptance by the Client of Air Water & Soil's offer to do business under these Terms and Conditions, and an agreement to be bound by these Terms and Conditions. No contrary or additional terms and conditions expressed in a Client's document shall be deemed to become a part of the contract created upon acceptance of these Terms and Conditions, unless accepted by Air Water & Soil in writing.

1. ORDERS AND RECEIPT OF SAMPLES

1.1 The Client may place the Order (i.e., specify a Scope of Work) either by submitting a purchase order to Air Water & Soil in writing or by telephone subsequently confirmed in writing, or by negotiated contract (i.e. Chain of Custody). Whichever option the Client selects for placing the Order, the Order shall not be void unless it contains sufficient specification to enable Air Water & Soil to carry out the Client's requirements. In particular, samples must be accompanied by: a) adequate instruction on type of analysis requested, and b) complete written disclosure of the known or suspected presence of any hazardous substances, as defined by applicable federal or state law. Where any samples which were not accompanied by the required disclosure, cause interruptions in the lab's ability to process work due to contamination of instruments or work areas, the Client will be responsible for the costs of clean up and recovery.

1.2 The Client shall provide one week's advance notice of the sample delivery schedule, or any changes to the schedule, whenever possible. Upon timely delivery of samples, Air Water & Soil will use its best efforts to meet mutually agreed turnaround times. All turnaround times are based on business days and will be calculated from the point in time when Air Water & Soil has determined that it can proceed with defined work following receipt, inspection of samples, and resolution of any discrepancies in Chain-of-Custody forms and project guidance regarding work to be done (Sample Delivery Acceptance). In the event of any changes in the sample delivery schedule by the Client, prior to Sample Delivery Acceptance, Air Water & Soil reserves the right to modify its turnaround time commitment, to change the date upon which Air Water & Soil will accept samples, or refuse Sample Delivery Acceptance for the affected samples.

1.2.1 Turn around times are defined as follows: Any sample group requiring a turnaround time of less than five(5) business days will be considered a "Rush Turn Around Time". Rush Turnaround samples received after 3:00pm will be considered as received on the next business day.

1.2.2 Air Water & Soil defines "standard turnaround" as Five (5) business days with exception made for Full TCLP analyses.

1.3 Air Water & Soil reserves the right, exercisable at any time, to refuse or revoke Sample Delivery Acceptance for any sample which in the sole judgment of Air Water & Soil : a) is of unsuitable volume; b) may pose a risk or become unsuitable for handling, transport, or processing for any health, safety, environmental or other reason, whether or not due to the presence in the sample of any hazardous substance and whether or not such presence has been disclosed to Air Water & Soil by the Client; or c) holding times cannot be met, due to passage of more than 48 hours from the time of sampling or 1/2 the holding time for the requested test, whichever is less.

1.4 Prior to Sample Delivery Acceptance, the entire risk of loss or damage to samples remains with the Client, except where Air Water & Soil provides courier services. In no event will Air Water & Soil have any responsibility or liability for the action or inaction of any carrier shipping or delivering any sample to or from Air Water & Soil's premises. Client is responsible to assure that any sample containing any hazardous substance which is to be delivered to Air Water & Soil's premises will be packaged, labeled, transported and delivered properly and in accordance with applicable laws.

2. PAYMENT TERMS

2.1 Services performed by Air Water & Soil will be in accordance with prices quoted and later confirmed in writing or as stated in the Price Schedule. Quoted prices do not include sales tax. Applicable sales tax will be added to invoices where required by law. An Environmental Management Fee of 5% of the invoice value will also be applied, at Air Water & Soil's discretion.

2.2 Invoices may be submitted to Client upon completion of any sample delivery group. Billing corrections must be requested within 30 days of invoice date. Payment in advance is required for all Clients except those whose credit has been established with Air Water & Soil. For Clients with approved credit, payment terms are net 30 days from the date of invoice by Air Water & Soil. All overdue payments are subject to an additional interest and service charge of one and one half percent (1.5%) (or the maximum rate permissible by law, whichever is lesser) per month or portion thereof from the due date until the date of payment. All fees are charged or billed directly to the Client. The billing of a third party will not be accepted without a statement, signed by the third party, that acknowledges and accepts payment responsibility.

2.3 Air Water & Soil may suspend work and withhold delivery of data under this order at any time in the event Client fails to make timely payment of its invoices. Client shall be responsible for all costs and expenses of collection including reasonable attorney's fees. Air Water & Soil reserves the right to refuse to proceed with work at any time based upon an unfavorable Client credit report.

3. CHANGE ORDERS, TERMINATION

3.1 Changes to the Scope of Work, price, or result delivery date may be initiated by Air Water & Soil after Sample Delivery Acceptance due to any condition which conflicts with analytical, QA or other protocols warranted in these Terms and Conditions. Air Water & Soil will not proceed with such changes until an agreement with the Client is reached on the amount of any cost, schedule change or technical change to the Scope of Work, and such agreement is documented. Email communications are acceptable, telephone conversations however must be followed up with written documentation.

3.2 Changes to the Scope of Work, including but not limited to increasing or decreasing the work, changing test and analysis specification, or acceleration in the performance of the work may be initiated by the Client after sample delivery acceptance. Such a change will be documented in writing and may result in a change in cost and turnaround time commitment. Air Water & Soil's acceptance of such changes is contingent upon technical feasibility and operational capacity.

3.3 Suspension or termination of all or any part of the work may be initiated by the Client. Air Water & Soil will be compensated consistent with Section 2 of these Terms and Conditions. Air Water & Soil will complete all work in progress and be paid in full for all work completed.

4. WARRANTIES AND LIABILITY

4.1 Where applicable, Air Water & Soil will use analytical methodologies which are in substantial conformity with published test methods. Air Water & Soil has implemented these methods in its Laboratory Quality Manual and referenced Standard Operating Procedures and where the nature or composition of the sample requires it, Air Water & Soil reserves the right to deviate from these methodologies as necessary or appropriate, based on the reasonable judgment of Air Water & Soil, which deviations, if any, will be made on a basis consistent with recognized standards of the industry and/or Air Water & Soil's Laboratory Quality Manuals. Client may request that Air Water & Soil perform according to a mutually agreed Quality Assurance Project Plan (QAPP). In the event that samples arrive prior to agreement on a QAPP, Air Water & Soil will proceed with analyses under its standard Quality Manuals than in effect, and Air Water & Soil will not be responsible for any re-sampling or other charges if work must be repeated to comply with a subsequently finalized QAPP.

4.2 Air Water & Soil shall start preparation and/or analysis within holding times provided that Sample Delivery Acceptance occurs within 48 hours of sampling or 1/2 of the holding time for the test, whichever is less. Where resolution of inconsistencies leading to Sample Delivery Acceptance does not occur within this period, Air Water & Soil will use its best efforts to meet holding times and will proceed with the work provided that, in Air Water & Soil's judgment, the chain-of-custody or definition of the Scope of Work provide sufficient guidance. Reanalysis of samples to comply with Air Water & Soil's Quality Manuals will be deemed to have met holding times provided the initial analysis was performed within the applicable holding time. Where reanalysis demonstrates that sample matrix interference is the cause of failure to meet any Quality Manual requirements, the warranty will be deemed to have been met.

4.3 Air Water & Soil warrants that it possesses and maintains all licenses and certifications which are required to perform services under these Terms and Conditions provided that such requirements are specified in writing to Air Water & Soil prior to Sample Delivery Acceptance.

4.4 The warranty obligations set forth in Sections 4.1, 4.2 and 4.3 are the sole and exclusive warranties given by Air Water & Soil in connection with any services performed by Air Water & Soil or any Results generated from such services, and Air Water & Soil gives and makes NO OTHER REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. No representative of Air Water & Soil is authorized to give or make any other representation or warranty or modify this warranty in any way.

4.5 Client's sole and exclusive remedy for the breach of warranty in connection with any services performed by Air Water & Soil, will be limited to repeating any services performed, contingent on the Client's providing, at the request of Air Water & Soil and at the Client's expense, additional sample(s) if necessary. Any reanalysis requested by the Client generating Results consistent with the original Results will be at the Client's expense. If re-sampling is necessary, Air Water & Soil's liability for re-sampling costs will be limited to actual cost or one hundred and fifty dollars (\$150) per sample, whichever is less.

4.6 Air Water & Soil's liability for any and all causes of action arising hereunder, whether based in contract, tort, warranty, negligence or otherwise, shall be limited to the lesser amount of compensation for the services performed or \$100,000. All claims, including those for negligence, shall be deemed waived unless suit thereon is filed within one year after Air Water & Soil's completion of the services. Under no circumstances, whether arising in contract, tort (including negligence), or otherwise, shall Air Water & Soil be responsible for loss of use, loss of profits, or for any special, indirect, incidental or consequential damages occasioned by the services performed or by application or use of the reports prepared.

4.7 In no event shall Air Water & Soil have any responsibility or liability to the Client for any failure or delay in performance by Air Water & Soil which results, directly or indirectly, in whole or in part, from any cause or circumstance beyond the reasonable control of Air Water & Soil. Such causes and circumstances shall include, but not be limited to, acts of God, acts of Client, acts or orders of any governmental authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, equipment breakdown, matrix interference or unknown highly contaminated samples that impact instrument operation, unavailability of supplies from usual suppliers, difficulties or delays in transportation, mail or delivery services, or any other cause beyond Air Water & Soil's reasonable control.

5. RESULTS, WORK PRODUCT

5.1 Data or information provided to Air Water & Soil or generated by services performed under this agreement shall only become the property of the Client upon receipt in full by Air Water & Soil of payment for the whole Order. Ownership of any analytical method, QA/QC protocols, software programs or equipment developed by Air Water & Soil for performance of work will be retained by Air Water & Soil, and Client shall not disclose such information to any third party.

5.2 Data and sample materials provided by Client or at Client's request, and the result obtained by Air Water & Soil shall be held in confidence (unless such information is generally available to the public or is in the public domain or Client has failed to pay Air Water & Soil for all services rendered or is otherwise in breach of these Terms and Conditions), subject to any disclosure required by law or legal process.

5.3 Should the Results delivered by Air Water & Soil be used by the Client or Client's client, even though subsequently determined not to meet the warranties described in these Terms and Conditions, then the compensation will be adjusted based upon mutual agreement. In no case shall the Client unreasonably withhold Air Water & Soil's right to independently defend its data.

5.4 Air Water & Soil reserves the right to subcontract services ordered by the Client to another laboratory or laboratories, if, in Air Water & Soil's sole judgment, it is reasonably necessary, appropriate or advisable to do so. Air Water & Soil will in no way be liable for any subcontracted services except for work performed at laboratories which have been audited and approved by Air Water & Soil.

5.5 Air Water & Soil shall dispose of the Client's samples 30 days after receipt of samples; 15 days after receipt of samples for BOD, CBOD and TSS analyses, unless instructed to store them for an alternate period of time or to return such samples to the Client, in a manner consistent with U.S. Environmental Protection Agency regulations or other applicable federal, state or local requirements. Any samples for projects that are canceled or not accepted, or for which return was requested, will be returned to the Client at his own expense. Air Water & Soil reserves the right to return to the Client any sample or unused portion of a sample that is not within Air Water & Soil's permitted capability or the capabilities of Air Water & Soil's designated waste disposal vendor(s). 5.6 Unless a different time period is agreed to in any order under these Terms and Conditions, Air Water & Soil agrees to retain all records for five (5) years.

5.7 In the event that Air Water & Soil is required to respond to legal process related to services for Client, Client agrees to reimburse Air Water & Soil for hourly charges for personnel involved in the response and attorney fees reasonably incurred in obtaining advice concerning the response, preparation to testify, and appearances related to the legal process, travel and all reasonable expenses associated with the litigation.

6. INSURANCE

6.1 Air Water & Soil shall maintain in force during the performance of services under these Terms and Conditions, Workers' Compensation and Employer's Liability Insurance in accordance with the laws of the states having jurisdiction over Air Water & Soil's employees who are engaged in the performance of the work. Air Water & Soil shall also maintain during such period, Comprehensive General and Contractual Liability (limit of \$1,000,000 per occurrence/\$2,000,000 aggregate), Comprehensive Automobile Liability, owned and hired, (\$1,000,000 combined single limit), and Professional/Pollution Liability Insurance (limit of \$1,000,000 per occurrence/aggregate).

7. AUDIT

7.1 Upon prior notice to Air Water & Soil, the Client may audit and inspect Air Water & Soil's records and accounts covering reimbursable costs related to work done for the Client, for a period of two (2) years after completion of the work. The purpose of any such audit shall be only for verification of such costs, and Air Water & Soil shall not be required to provide access to cost records where prices are expressed as fixed fees or published unit prices.

8. MISCELLANEOUS PROVISIONS

8.1 These Terms and Conditions, together with any additions or revisions which may be agreed to in writing by Air Water & Soil, embody the whole agreement of the parties and provide the only remedies available. There are no promises, terms, conditions, understandings, obligations or agreements other than those contained herein, and these Terms and Conditions shall supersede all previous communications, representations, or agreements, either verbal or written, between the Client and Air Water & Soil. These Terms and Conditions, and any transactions or agreements to which they apply, shall be governed both as to interpretation and performance by the laws of the state where Air Water & Soil's services are performed.

8.2 The invalidity or unenforceability, in whole or in part of any provision, term or condition hereof shall not affect in any way the validity or enforceability of the remainder to these Terms and Conditions, the intent of the parties being that the provisions be severable. The section headings of these Terms and Conditions are intended solely for convenient reference and shall not define, limit or affect in any way these Terms and Conditions or their interpretations. No waiver by either party of any provision, term or condition hereof or of any obligation of the other party hereunder shall constitute a waiver of any subsequent breach or other obligation.

8.3 The obligations, liabilities, and remedies of the parties, as provided herein, are exclusive and in lieu of any others available at law or in equity. Indemnifications, releases from liability and limitations of liability shall apply, notwithstanding the fault, negligence or strict liability of the party to be indemnified, released, or whose liability is limited, the extent of sole negligence or willful misconduct.



2109A NORTH HAMILTON STREET
 RICHMOND, VIRGINIA 23230
 (804) 358-8295 PHONE
 (804) 358-8297 FAX

CHAIN OF CUSTODY

COMPANY NAME: CGS	INVOICE TO: John Kosloski	PROJECT NAME/Quote #: ARRA Subsurface
CONTACT: John Kosloski	INVOICE CONTACT: Maria Collazo	SITE NAME: Veterans - Najoles
ADDRESS: 5405 Twin Knolls Rd, Ste 1	INVOICE ADDRESS: Columbia, MD	PROJECT NUMBER: CG-09-0525-06
PHONE #: (410) 740-1911 X108	INVOICE PHONE #: (410) 740-1911 X100	P.O. #: CG090525MS
FAX #: (410) 740-3299	EMAIL: jkosloski@CGS-US.com	Pretreatment Program: N/A

Is sample for compliance reporting? YES (NO)	Is sample from a chlorinated supply? YES (NO)	PWS I.D. #:
SAMPLER NAME (PRINT): Meg Staines		SAMPLER SIGNATURE: <i>Meg Staines</i>
		Turn Around Time: 14 Day(s)

Matrix Codes: WW=Water Water GW=Ground Water DW=Drinking Water S=Soil/Solids OR=Organic A=Air WP=Wipe OT=Other													COMMENTS								
CLIENT SAMPLE I.D.	Grab	Composite	Field Filtered (Dissolved Metals)	Composite Start Date	Composite Start Time	Grab Date or Composite Stop Date	Grab Time or Composite Stop Time	Time Preserved	Matrix (See Codes)	Number of Containers	ANALYSIS / (PRESERVATIVE)						Preservative Codes: N=Nitric Acid C=Hydrochloric Acid S=Sulfuric Acid H=Sodium Hydroxide A=Ascorbic Acid Z=Zinc Acetate T=Sodium Thiosulfate M=Methanol				
1) DUP-GW	X					6/11/12	-	-	GW	3	X										
2)																					
3)																					
4)																					
5)																					
6)																					
7)																					
8)																					
9)																					
10)																					

RELINQUISHED: <i>Meg Staines</i>	DATE / TIME: 6/14/12	RECEIVED: UPS	DATE / TIME: 6/14/12 18:50	QC Data Package	LAB USE ONLY	COOLER TEMP: 6.0 °C
RELINQUISHED: <i>Meg Staines</i>	DATE / TIME: 6/14/12	RECEIVED: <i>Jahn</i>	DATE / TIME: 15 JUNE 2012 11:37	Level I <input type="checkbox"/>	CGI ARRA Subsurface Veterans-N 12060294	DUE: 10 Days Recd: 06/15/12
RELINQUISHED:	DATE / TIME:	RECEIVED:	DATE / TIME:	Level II <input checked="" type="checkbox"/>		
RELINQUISHED:	DATE / TIME:	RECEIVED:	DATE / TIME:	Level III <input type="checkbox"/>		
RELINQUISHED:	DATE / TIME:	RECEIVED:	DATE / TIME:	Level IV <input type="checkbox"/>	12060294	

TERMS & CONDITIONS

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1.2.1 Turn around times are defined as follows: Any sample group requiring a turnaround time of less than five(5) business days will be considered a "Rush Turn Around Time". Rush Turnaround samples received after 3:00pm will be considered as received on the next business day.

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2. PAYMENT TERMS

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3. CHANGE ORDERS, TERMINATION

3.1 Changes to the Scope of Work, price, or result delivery date may be initiated by Air Water & Soil after Sample Delivery Acceptance due to any condition which conflicts with analytical, QA or other protocols warranted in these Terms and Conditions. Air Water & Soil will not proceed with such changes until an agreement with the Client is reached on the amount of any cost, schedule change or technical change to the Scope of Work, and such agreement is documented. Email communications are acceptable, telephone conversations however must be followed up with written documentation.

3.2 Changes to the Scope of Work, including but not limited to increasing or decreasing the work, changing test and analysis specification, or acceleration in the performance of the work may be initiated by the Client after sample delivery acceptance. Such a change will be documented in writing and may result in a change in cost and turnaround time commitment. Air Water & Soil's acceptance of such changes is contingent upon technical feasibility and operational capacity.

3.3 Suspension or termination of all or any part of work may be initiated by the Client. Air Water & Soil will be compensated consistent with Section 2 of these Terms and Conditions. Air Water & Soil will complete all work in progress and be paid in full for all work completed.

4. WARRANTIES AND LIABILITY

4.1 Where applicable, Air Water & Soil will use analytical methodologies which are in substantial conformity with published test methods. Air Water & Soil has implemented these methods in its Laboratory Quality Manual and referenced Standard Operating Procedures and where the nature or composition of the sample requires it, Air Water & Soil reserves the right to deviate from these methodologies as necessary or appropriate, based on the reasonable judgment of Air Water & Soil, which deviations, if any, will be made on a basis consistent with recognized standards of the industry and/or Air Water & Soil's Laboratory Quality Manuals. Client may request that Air Water & Soil perform according to a mutually agreed Quality Assurance Project Plan (QAPP). In the event that samples arrive prior to agreement on a QAPP, Air Water & Soil will proceed with analyses under its standard Quality Manuals then in effect, and Air Water & Soil will not be responsible for any re-sampling or other charges if work must be repeated to comply with a subsequently finalized QAPP.

4.2 Air Water & Soil shall start preparation and/or analysis within holding times provided that Sample Delivery Acceptance occurs within 48 hours of sampling or 1/2 of the holding time for the test, whichever is less. Where resolution of inconsistencies leading to Sample Delivery Acceptance does not occur within this period, Air Water & Soil will use its best efforts to meet holding times and will proceed with the work provided that, in Air Water & Soil's judgment, the chain-of-custody or definition of the Scope of Work provide sufficient guidance. Reanalysis of samples to comply with Air Water & Soil's Quality Manuals will be deemed to have met holding times provided the initial analysis was performed within the applicable holding time. Where reanalysis demonstrates that sample matrix interference is the cause of failure to meet any Quality Manual requirements, the warranty will be deemed to have been met.

4.3 Air Water & Soil warrants that it possesses and maintains all licenses and certifications which are required to perform services under these Terms and Conditions provided that such requirements are specified in writing to Air Water & Soil prior to Sample Delivery Acceptance.

4.4 The warranty obligations set forth in Sections 4.1, 4.2 and 4.3 are the sole and exclusive warranties given by Air Water & Soil in connection with any services performed by Air Water & Soil or any Results generated from such services, and Air Water & Soil gives and makes NO OTHER REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. No representative of Air Water & Soil is authorized to give or make any other representation or warranty or modify this warranty in any way.

4.5 Client's sole and exclusive remedy for the breach of warranty in connection with any services performed by Air Water & Soil, will be limited to repeating any services performed, contingent on the Client's providing, at the request of Air Water & Soil and at the Client's expense, additional sample(s) if necessary. Any reanalysis requested by the Client generating Results consistent with the original Results will be at the Client's expense. If re-sampling is necessary, Air Water & Soil's liability for re-sampling costs will be limited to actual cost or one hundred and fifty dollars (\$150) per sample, whichever is less.

4.6 Air Water & Soil's liability for any and all causes of action arising hereunder, whether based in contract, tort, warranty, negligence or otherwise, shall be limited to the lesser amount of compensation for the services performed or \$100,000. All claims, including those for negligence, shall be deemed waived unless suit thereon is filed within one year after Air Water & Soil's completion of the services. Under no circumstances, whether arising in contract, tort (including negligence), or otherwise, shall Air Water & Soil be responsible for loss of use, loss of profits, or for any special, indirect, incidental or consequential damages occasioned by the services performed or by application or use of the reports prepared.

4.7 In no event shall Air Water & Soil have any responsibility or liability to the Client for any failure or delay in performance by Air Water & Soil which results, directly or indirectly, in whole or in part, from any cause or circumstance beyond the reasonable control of Air Water & Soil. Such causes and circumstances shall include, but not be limited to, acts of God, acts of Client, acts or orders of any governmental authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, equipment breakdown, matrix interference or unknown highly contaminated samples that impact instrument operation, unavailability of supplies from usual suppliers, difficulties or delays in transportation, mail or delivery services, or any other cause beyond Air Water & Soil's reasonable control.

5. RESULTS, WORK PRODUCT

5.1 Data or information provided to Air Water & Soil or generated by services performed under this agreement shall only become the property of the Client upon receipt in full by Air Water & Soil of payment for the whole Order. Ownership of any analytical method, QA/QC protocols, software programs or equipment developed by Air Water & Soil for performance of work will be retained by Air Water & Soil, and Client shall not disclose such information to any third party.

5.2 Data and sample materials provided by Client or at Client's request, and the result obtained by Air Water & Soil shall be held in confidence (unless such information is generally available to the public or is in the public domain or Client has failed to pay Air Water & Soil for all services rendered or is otherwise in breach of these Terms and Conditions), subject to any disclosure required by law or legal process.

5.3 Should the Results delivered by Air Water & Soil be used by the Client or Client's client, even though subsequently determined not to meet the warranties described in these Terms and Conditions, then the compensation will be adjusted based upon mutual agreement. In no case shall the Client unreasonably withhold Air Water & Soil's right to independently defend its data.

5.4 Air Water & Soil reserves the right to subcontract services ordered by the Client to another laboratory or laboratories, if, in Air Water & Soil's sole judgment, it is reasonably necessary, appropriate or advisable to do so. Air Water & Soil will in no way be liable for any subcontracted services except for work performed at laboratories which have been audited and approved by Air Water & Soil.

5.5 Air Water & Soil shall dispose of the Client's samples 30 days after receipt of samples; 15 days after receipt of samples for BOD, CBOD and TSS analyses, unless instructed to store them for an alternate period of time or to return such samples to the Client, in a manner consistent with U.S. Environmental Protection Agency regulations or other applicable federal, state or local requirements. Any samples for projects that are canceled or not accepted, or for which return was requested, will be returned to the Client at his own expense. Air Water & Soil reserves the right to return to the Client any sample or unused portion of a sample that is not within Air Water & Soil's permitted capability or the capabilities of Air Water & Soil's designated waste disposal vendor(s). 5.6 Unless a different time period is agreed to in any order under these Terms and Conditions, Air Water & Soil agrees to retain all records for five (5) years.

5.7 In the event that Air Water & Soil is required to respond to legal process related to services for Client, Client agrees to reimburse Air Water & Soil for hourly charges for personnel involved in the response and attorney fees reasonably incurred in obtaining advice concerning the response, preparation to testify, and appearances related to the legal process, travel and all reasonable expenses associated with the litigation.

6. INSURANCE

6.1 Air Water & Soil shall maintain in force during the performance of services under these Terms and Conditions, Workers' Compensation and Employer's Liability Insurance in accordance with the laws of the states having jurisdiction over Air Water & Soil's employees who are engaged in the performance of the work. Air Water & Soil shall also maintain during such period, Comprehensive General and Contractual Liability (limit of \$1,000,000 per occurrence/\$2,000,000 aggregate), Comprehensive Automobile Liability, owned and hired, (\$1,000,000 combined single limit), and Professional/Pollution Liability Insurance (limit of \$1,000,000 per occurrence/aggregate).

7. AUDIT

7.1 Upon prior notice to Air Water & Soil, the Client may audit and inspect Air Water & Soil's records and accounts covering reimbursable costs related to work done for the Client, for a period of two (2) years after completion of the work. The purpose of any such audit shall be only for verification of such costs, and Air Water & Soil shall not be required to provide access to cost records where prices are expressed as fixed fees or published unit prices.

8. MISCELLANEOUS PROVISIONS

8.1 These Terms and Conditions, together with any additions or revisions which may be agreed to in writing by Air Water & Soil, embody the whole agreement of the parties and provide the only remedies available. There are no promises, terms, conditions, understandings, obligations or agreements other than those contained herein, and these Terms and Conditions shall supersede all previous communications, representations, or agreements, either verbal or written, between the Client and Air Water & Soil. Those Terms and Conditions, and any transactions or agreements to which they apply, shall be governed both as to interpretation and performance by the laws of the state where Air Water & Soil's services are performed.

8.2 The invalidity or unenforceability, in whole or in part of any provision, term or condition hereof shall not affect in any way the validity or enforceability of the remainder to these Terms and Conditions, the intent of the parties being that the provisions be severable. The section headings of these Terms and Conditions are intended solely for convenient reference and shall not define, limit or affect in any way these Terms and Conditions or their interpretations. No waiver by either party of any provision, term or condition hereof or of any obligation of the other party hereunder shall constitute a waiver of any subsequent breach or other obligation.

8.3 The obligations, liabilities, and remedies of the parties, as provided herein, are exclusive and in lieu of any others available at law or in equity. Indemnifications, releases from liability and limitations of liability shall apply, notwithstanding the fault, negligence or strict liability of the party to be indemnified, released, or whose liability is limited, the extent of sole negligence or willful misconduct.



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CGI

12060294

ARRA Subsurface Veterans-N

DUE: 10 Days



Recd: 06/15/12

Sample Conditions Checklist

Opened by: (Initials) ACMB

Lab ID No.:

Date Cooler Opened: 6-15-12

		YES	NO	N/A
1.	How were samples received?			
	Fed Ex <input type="checkbox"/>			
	UPS <input checked="" type="checkbox"/>			
	Courier <input type="checkbox"/>			
	Walk In <input type="checkbox"/>			
2.	Were custody seals used?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3.	If yes, are custody seals unbroken and intact at the date and time of arrival?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4.	Are the custody papers filled out completely and correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.	Do all bottle labels agree with custody papers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.	Are the samples received on ice?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.	Is the temperature blank or representative sample within acceptable limits? (above freezing to 6°C)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.	Are all samples within holding time for requested laboratory tests?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9.	Is a sufficient amount of sample provided to perform the tests indicated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10.	Are all samples in proper containers for the analyses requested?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11.	Are all samples appropriately preserved for the analyses requested?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12.	Are all volatile organic containers free of headspace?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

COMMENTS



Analysis Detects Report

Client Name: Chesapeake Geosciences, Inc.
 Client Site ID: Veterans-Najoles
 Submitted To: John Kosloski

Date Issued: 06/27/2012

Laboratory Sample ID: **12060335-001** Client Sample ID **B-DUP**

Parameter	Reference Method	Sample Results	Qual	LOD	LOQ	Dil. Factor	Units
Percent Moisture	SM18/2540G	15.6		0.1	0.1	1	%

Laboratory Sample ID: **12060335-003** Client Sample ID **B-11-GW**

Parameter	Reference Method	Sample Results	Qual	LOD	LOQ	Dil. Factor	Units
2-Butanone (MEK)	SW8260B	4.4	J	0.6	10.0	1	ug/L
Toluene	SW8260B	0.6	J	0.4	1.0	1	ug/L
Xylenes, Total	SW8260B	0.5	J	0.5	3.0	1	ug/L

Laboratory Sample ID: **12060335-004** Client Sample ID **B-6 / 25.5'**

Parameter	Reference Method	Sample Results	Qual	LOD	LOQ	Dil. Factor	Units
Percent Moisture	SM18/2540G	12.3		0.1	0.1	1	%

Laboratory Sample ID: **12060335-005** Client Sample ID **B-8 / 26'**

Parameter	Reference Method	Sample Results	Qual	LOD	LOQ	Dil. Factor	Units
Percent Moisture	SM18/2540G	6.9		0.1	0.1	1	%

Laboratory Sample ID: **12060335-006** Client Sample ID **B-5 / 21.5'**

Parameter	Reference Method	Sample Results	Qual	LOD	LOQ	Dil. Factor	Units
Percent Moisture	SM18/2540G	16.8		0.1	0.1	1	%

Laboratory Sample ID: **12060335-007** Client Sample ID **B-6-GW**

Parameter	Reference Method	Sample Results	Qual	LOD	LOQ	Dil. Factor	Units
2-Butanone (MEK)	SW8260B	5.9	J	0.6	10.0	1	ug/L
2-Hexanone (MBK)	SW8260B	0.6	J	0.4	10.0	1	ug/L
Acetone	SW8260B	124		7.0	10.0	1	ug/L

Laboratory Sample ID: **12060335-008** Client Sample ID **B-8-GW**

Parameter	Reference Method	Sample Results	Qual	LOD	LOQ	Dil. Factor	Units
2-Butanone (MEK)	SW8260B	5.1	J	0.6	10.0	1	ug/L
2-Hexanone (MBK)	SW8260B	0.7	J	0.4	10.0	1	ug/L
Acetone	SW8260B	146		7.0	10.0	1	ug/L
Tetrachloroethylene (PCE)	SW8260B	0.5	J	0.4	1.0	1	ug/L
Toluene	SW8260B	0.6	J	0.4	1.0	1	ug/L
Xylenes, Total	SW8260B	0.5	J	0.5	3.0	1	ug/L



Air Water & Soil Laboratories, Inc.
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Analysis Detects Report

Client Name: Chesapeake Geosciences, Inc.
Client Site ID: Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Laboratory Sample ID: **12060335-009** Client Sample ID **B-5-GW**

Parameter	Reference Method	Sample Results	Qual	LOD	LOQ	Dil. Factor	Units
2-Butanone (MEK)	SW8260B	2.2	J	0.6	10.0	1	ug/L
Acetone	SW8260B	27.9		7.0	10.0	1	ug/L
MTBE	SW8260B	13.4		0.4	1.0	1	ug/L
Toluene	SW8260B	0.4	J	0.4	1.0	1	ug/L

Note that this report is not the "Certificate of Analysis". This report only lists the target analytes that displayed concentrations that exceeded the detection limit specified for that analyte. For a complete listing of all analytes requested and the results of the analysis see the "Certificate of Analysis".



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Certificate of Analysis

Final Report

Laboratory Order ID 12060335

Client Name: Chesapeake Geosciences, Inc. 5405 Twin Knolls Rd. Suite 1 Columbia, Maryland 21045	Date Issued: June 27, 2012
Submitted To: John Kosloski	Project Number CG-09-0525.06
Client Site I.D.: Veterans-Najoles	Purchase Order CG09052506 MS

Laboratory Sample ID	Sample ID	Sample Date	Receive Date
12060335-001	B-DUP	June 15, 2012	June 19, 2012
12060335-002	FB-VN	June 15, 2012	June 19, 2012
12060335-003	B-11-GW	June 15, 2012	June 19, 2012
12060335-004	B-6 / 25.5'	June 15, 2012	June 19, 2012
12060335-005	B-8 / 26'	June 15, 2012	June 19, 2012
12060335-006	B-5 / 21.5'	June 15, 2012	June 19, 2012
12060335-007	B-6-GW	June 15, 2012	June 19, 2012
12060335-008	B-8-GW	June 15, 2012	June 19, 2012
12060335-009	B-5-GW	June 15, 2012	June 19, 2012

On June 19, 2012, one soil sample and eight water samples were received via courier for analysis in accordance with the attached Chain-Of-Custody. The samples were received with sample containers intact by Tafraal Middleton (AWS). Any deviations, discrepancies or irregularities observed in sample condition, including holding times, temperature, containers or preservatives have been notated on the chain-of-custody.

The samples were prepared and analyzed in accordance with SW-846 methodology.

Results were calculated based on dry weight.





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Certificate of Analysis

Final Report

Laboratory Order ID 12060335

Client Name:	Chesapeake Geosciences, Inc. 5405 Twin Knolls Rd. Suite 1 Columbia, Maryland 21045	Date Issued:	June 27, 2012
Submitted To:	John Kosloski	Project Number	CG-09-0525.06
Client Site I.D.:	Veterans-Najoles	Purchase Order	CG09052506 MS

Ted Soyars
Laboratory Manager



Air Water & Soil Laboratories, Inc.
 2109 A. North Hamilton Street
 Richmond, Virginia 23230
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Certificate of Analysis

Client Name: Chesapeake Geosciences, Inc.
Client Site ID: Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID B-DUP **Laboratory Sample ID** 12060335-001 **Sample Date** Date/Time Sampled: 06/15/12

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
Percent Moisture	NA	SM18/2540G	06/26/12 9:35	06/26/12 9:35	15.6		0.1	0.1	1	%	KMW
TPH-Volatiles (GRO)	NA	SW8015C	06/22/12 18:07	06/22/12 18:07	BLOD		5.9	5.9	50	mg/kg	AJR
1,1,1,2-Tetrachloroethane	630-20-6	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
1,1,1-Trichloroethane	71-55-6	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
1,1,2,2-Tetrachloroethane	79-34-5	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
1,1,2-Trichloroethane	79-00-5	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
1,1-Dichloroethane	75-34-3	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
1,1-Dichloroethylene	75-35-4	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
1,1-Dichloropropene	563-58-6	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
1,2,3-Trichlorobenzene	87-61-6	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
1,2,3-Trichloropropane	96-18-4	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
1,2,4-Trichlorobenzene	120-82-1	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
1,2,4-Trimethylbenzene	95-63-6	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
1,2-Dibromoethane (EDB)	106-93-4	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
1,2-Dichlorobenzene	95-50-1	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
1,2-Dichloroethane	107-06-2	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
1,2-Dichloropropane	78-87-5	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
1,3,5-Trimethylbenzene	108-67-8	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
1,3-Dichlorobenzene	541-73-1	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
1,3-Dichloropropane	142-28-9	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
1,4-Dichlorobenzene	106-46-7	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
2,2-Dichloropropane	594-20-7	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD





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Certificate of Analysis

Client Name: Chesapeake Geosciences, Inc.
Client Site ID: Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID B-DUP **Laboratory Sample ID** 12060335-001 **Sample Date** Date/Time Sampled: 06/15/12

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
2-Butanone (MEK)	78-93-3	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		237	237	1	ug/kg	MKD
2-Chlorotoluene	95-49-8	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
2-Hexanone (MBK)	591-78-6	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		237	237	1	ug/kg	MKD
4-Chlorotoluene	106-43-4	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
4-Methyl-2-pentanone (MIBK)	108-10-1	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		237	237	1	ug/kg	MKD
Acetone	67-64-1	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		237	237	1	ug/kg	MKD
Benzene	71-43-2	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
Bromobenzene	108-86-1	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
Bromochloromethane	74-97-5	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
Bromodichloromethane	75-27-4	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
Bromoform	75-25-2	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		237	237	1	ug/kg	MKD
Bromomethane	74-83-9	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
Carbon disulfide	75-15-0	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
Carbon tetrachloride	56-23-5	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
Chlorobenzene	108-90-7	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
Chloroethane	75-00-3	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
Chloroform	67-66-3	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
Chloromethane	74-87-3	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
cis-1,2-Dichloroethylene	156-59-2	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
cis-1,3-Dichloropropene	10061-01-5	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
Dibromochloromethane	124-48-1	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
Dibromomethane	74-95-3	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
Dichlorodifluoromethane	75-71-8	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
Di-isopropyl ether (DIPE)	108-20-3	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD





Air Water & Soil Laboratories, Inc.
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Certificate of Analysis

Client Name: Chesapeake Geosciences, Inc.
Client Site ID: Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID B-DUP **Laboratory Sample ID** 12060335-001 **Sample Date** Date/Time Sampled: 06/15/12

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
Ethylbenzene	100-41-4	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
Hexachlorobutadiene	87-68-3	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
Iodomethane	74-88-4	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
Isopropylbenzene	98-82-8	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
m,p-Xylenes	179601-23-1	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
Methylene chloride	75-09-2	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
MTBE	1634-04-4	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
Naphthalene	91-20-3	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
n-Butylbenzene	104-51-8	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
n-Propylbenzene	103-65-1	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
o-Xylene	95-47-6	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
p-Isopropyltoluene	99-87-6	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
sec-Butylbenzene	135-98-8	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
Styrene	100-42-5	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
tert-Butylbenzene	98-06-6	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
Tetrachloroethylene (PCE)	127-18-4	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
Toluene	108-88-3	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
trans-1,2-Dichloroethylene	156-60-5	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
trans-1,3-Dichloropropene	10061-02-6	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
Trichloroethylene	79-01-6	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
Trichlorofluoromethane	75-69-4	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
Vinyl acetate	108-05-4	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
Vinyl chloride	75-01-4	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD
Xylenes, Total	1330-20-7	SW8260B	06/20/12 15:21	06/20/12 15:21	BLOD		59.2	59.2	1	ug/kg	MKD





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Certificate of Analysis

Client Name: Chesapeake Geosciences, Inc.
Client Site ID: Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID B-DUP **Laboratory Sample ID** 12060335-001 **Sample Date** Date/Time Sampled: 06/15/12

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
TPH-Semi-Volatiles (DRO)	NA	SW8015C	06/20/12 14:40	06/21/12 21:06	BLOD		11.8	11.8	1	mg/kg	JHV

Client Sample ID FB-VN **Laboratory Sample ID** 12060335-002 **Sample Date** Date/Time Sampled: 06/15/12 09:00

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
1,1,1,2-Tetrachloroethane	630-20-6	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.4	1.0	1	ug/L	MKD
1,1,1-Trichloroethane	71-55-6	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.7	1.0	1	ug/L	MKD
1,1,2,2-Tetrachloroethane	79-34-5	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.4	1.0	1	ug/L	MKD
1,1,2-Trichloroethane	79-00-5	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.5	1.0	1	ug/L	MKD
1,1-Dichloroethane	75-34-3	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.4	1.0	1	ug/L	MKD
1,1-Dichloroethylene	75-35-4	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.3	1.0	1	ug/L	MKD
1,1-Dichloropropene	563-58-6	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.2	1.0	1	ug/L	MKD
1,2,3-Trichlorobenzene	87-61-6	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.2	1.0	1	ug/L	MKD
1,2,3-Trichloropropane	96-18-4	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.2	1.0	1	ug/L	MKD
1,2,4-Trichlorobenzene	120-82-1	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.2	1.0	1	ug/L	MKD
1,2,4-Trimethylbenzene	95-63-6	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.5	1.0	1	ug/L	MKD
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.8	4.0	1	ug/L	MKD
1,2-Dibromoethane (EDB)	106-93-4	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.3	1.0	1	ug/L	MKD
1,2-Dichlorobenzene	95-50-1	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.2	1.0	1	ug/L	MKD
1,2-Dichloroethane	107-06-2	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.9	1.0	1	ug/L	MKD
1,2-Dichloropropane	78-87-5	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.6	1.0	1	ug/L	MKD
1,3,5-Trimethylbenzene	108-67-8	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.2	1.0	1	ug/L	MKD





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Client Name: Chesapeake Geosciences, Inc.
Client Site ID: Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID: FB-VN **Laboratory Sample ID:** 12060335-002 **Sample Date:** Date/Time Sampled: 06/15/12 09:00

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
1,3-Dichlorobenzene	541-73-1	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.2	1.0	1	ug/L	MKD
1,3-Dichloropropane	142-28-9	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.2	1.0	1	ug/L	MKD
1,4-Dichlorobenzene	106-46-7	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.4	1.0	1	ug/L	MKD
2,2-Dichloropropane	594-20-7	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.6	1.0	1	ug/L	MKD
2-Butanone (MEK)	78-93-3	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.6	10.0	1	ug/L	MKD
2-Chlorotoluene	95-49-8	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.6	1.0	1	ug/L	MKD
2-Hexanone (MBK)	591-78-6	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.4	10.0	1	ug/L	MKD
4-Chlorotoluene	106-43-4	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.7	1.0	1	ug/L	MKD
4-Methyl-2-pentanone (MIBK)	108-10-1	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.3	10.0	1	ug/L	MKD
Acetone	67-64-1	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		7.0	10.0	1	ug/L	MKD
Benzene	71-43-2	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.3	1.0	1	ug/L	MKD
Bromobenzene	108-86-1	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.5	1.0	1	ug/L	MKD
Bromochloromethane	74-97-5	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.2	1.0	1	ug/L	MKD
Bromodichloromethane	75-27-4	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.3	1.0	1	ug/L	MKD
Bromoform	75-25-2	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.5	1.0	1	ug/L	MKD
Bromomethane	74-83-9	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.3	1.0	1	ug/L	MKD
Carbon disulfide	75-15-0	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.6	10.0	1	ug/L	MKD
Carbon tetrachloride	56-23-5	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.4	1.0	1	ug/L	MKD
Chlorobenzene	108-90-7	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.4	1.0	1	ug/L	MKD
Chloroethane	75-00-3	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.4	1.0	1	ug/L	MKD
Chloroform	67-66-3	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.4	1.0	1	ug/L	MKD
Chloromethane	74-87-3	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.5	1.0	1	ug/L	MKD
cis-1,2-Dichloroethylene	156-59-2	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.4	1.0	1	ug/L	MKD
cis-1,3-Dichloropropene	10061-01-5	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.2	1.0	1	ug/L	MKD





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Certificate of Analysis

Client Name: Chesapeake Geosciences, Inc.
Client Site ID: Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID: FB-VN **Laboratory Sample ID:** 12060335-002 **Sample Date:** Date/Time Sampled: 06/15/12 09:00

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
Dibromochloromethane	124-48-1	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.7	1.0	1	ug/L	MKD
Dibromomethane	74-95-3	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.4	1.0	1	ug/L	MKD
Dichlorodifluoromethane	75-71-8	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		1.0	1.0	1	ug/L	MKD
Di-isopropyl ether (DIPE)	108-20-3	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.3	5.0	1	ug/L	MKD
Ethylbenzene	100-41-4	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.2	1.0	1	ug/L	MKD
Hexachlorobutadiene	87-68-3	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.2	1.0	1	ug/L	MKD
Iodomethane	74-88-4	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.1	10.0	1	ug/L	MKD
Isopropylbenzene	98-82-8	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.2	1.0	1	ug/L	MKD
m,p-Xylenes	179601-23-1	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.5	2.0	1	ug/L	MKD
Methylene chloride	75-09-2	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		1.0	4.0	1	ug/L	MKD
MTBE	1634-04-4	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.4	1.0	1	ug/L	MKD
Naphthalene	91-20-3	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.5	1.0	1	ug/L	MKD
n-Butylbenzene	104-51-8	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.3	1.0	1	ug/L	MKD
n-Propylbenzene	103-65-1	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.2	1.0	1	ug/L	MKD
o-Xylene	95-47-6	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.5	1.0	1	ug/L	MKD
p-Isopropyltoluene	99-87-6	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.2	1.0	1	ug/L	MKD
sec-Butylbenzene	135-98-8	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.4	1.0	1	ug/L	MKD
Styrene	100-42-5	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.2	1.0	1	ug/L	MKD
tert-Butylbenzene	98-06-6	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.1	1.0	1	ug/L	MKD
Tetrachloroethylene (PCE)	127-18-4	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.4	1.0	1	ug/L	MKD
Toluene	108-88-3	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.4	1.0	1	ug/L	MKD
trans-1,2-Dichloroethylene	156-60-5	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.4	1.0	1	ug/L	MKD
trans-1,3-Dichloropropene	10061-02-6	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.5	1.0	1	ug/L	MKD
Trichloroethylene	79-01-6	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.3	1.0	1	ug/L	MKD





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Certificate of Analysis

Client Name: Chesapeake Geosciences, Inc.
Client Site ID: Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID FB-VN **Laboratory Sample ID** 12060335-002 **Sample Date** Date/Time Sampled: 06/15/12 09:00

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
Trichlorofluoromethane	75-69-4	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.4	1.0	1	ug/L	MKD
Vinyl acetate	108-05-4	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.9	10.0	1	ug/L	MKD
Vinyl chloride	75-01-4	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.3	1.0	1	ug/L	MKD
Xylenes, Total	1330-20-7	SW8260B	06/25/12 10:34	06/25/12 10:34	BLOD		0.5	3.0	1	ug/L	MKD

Client Sample ID B-11-GW **Laboratory Sample ID** 12060335-003 **Sample Date** Date/Time Sampled: 06/15/12 09:30

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
1,1,1,2-Tetrachloroethane	630-20-6	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.4	1.0	1	ug/L	MKD
1,1,1-Trichloroethane	71-55-6	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.7	1.0	1	ug/L	MKD
1,1,2,2-Tetrachloroethane	79-34-5	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.4	1.0	1	ug/L	MKD
1,1,2-Trichloroethane	79-00-5	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.5	1.0	1	ug/L	MKD
1,1-Dichloroethane	75-34-3	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.4	1.0	1	ug/L	MKD
1,1-Dichloroethylene	75-35-4	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.3	1.0	1	ug/L	MKD
1,1-Dichloropropene	563-58-6	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.2	1.0	1	ug/L	MKD
1,2,3-Trichlorobenzene	87-61-6	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.2	1.0	1	ug/L	MKD
1,2,3-Trichloropropane	96-18-4	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.2	1.0	1	ug/L	MKD
1,2,4-Trichlorobenzene	120-82-1	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.2	1.0	1	ug/L	MKD
1,2,4-Trimethylbenzene	95-63-6	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.5	1.0	1	ug/L	MKD
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.8	4.0	1	ug/L	MKD
1,2-Dibromoethane (EDB)	106-93-4	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.3	1.0	1	ug/L	MKD
1,2-Dichlorobenzene	95-50-1	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.2	1.0	1	ug/L	MKD





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Client Name: Chesapeake Geosciences, Inc.
Client Site ID: Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID B-11-GW **Laboratory Sample ID** 12060335-003 **Sample Date** Date/Time Sampled: 06/15/12 09:30

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
1,2-Dichloroethane	107-06-2	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.9	1.0	1	ug/L	MKD
1,2-Dichloropropane	78-87-5	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.6	1.0	1	ug/L	MKD
1,3,5-Trimethylbenzene	108-67-8	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.2	1.0	1	ug/L	MKD
1,3-Dichlorobenzene	541-73-1	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.2	1.0	1	ug/L	MKD
1,3-Dichloropropane	142-28-9	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.2	1.0	1	ug/L	MKD
1,4-Dichlorobenzene	106-46-7	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.4	1.0	1	ug/L	MKD
2,2-Dichloropropane	594-20-7	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.6	1.0	1	ug/L	MKD
2-Butanone (MEK)	78-93-3	SW8260B	06/25/12 11:19	06/25/12 11:19	4.4	J	0.6	10.0	1	ug/L	MKD
2-Chlorotoluene	95-49-8	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.6	1.0	1	ug/L	MKD
2-Hexanone (MBK)	591-78-6	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.4	10.0	1	ug/L	MKD
4-Chlorotoluene	106-43-4	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.7	1.0	1	ug/L	MKD
4-Methyl-2-pentanone (MIBK)	108-10-1	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.3	10.0	1	ug/L	MKD
Acetone	67-64-1	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		7.0	10.0	1	ug/L	MKD
Benzene	71-43-2	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.3	1.0	1	ug/L	MKD
Bromobenzene	108-86-1	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.5	1.0	1	ug/L	MKD
Bromochloromethane	74-97-5	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.2	1.0	1	ug/L	MKD
Bromodichloromethane	75-27-4	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.3	1.0	1	ug/L	MKD
Bromoform	75-25-2	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.5	1.0	1	ug/L	MKD
Bromomethane	74-83-9	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.3	1.0	1	ug/L	MKD
Carbon disulfide	75-15-0	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.6	10.0	1	ug/L	MKD
Carbon tetrachloride	56-23-5	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.4	1.0	1	ug/L	MKD
Chlorobenzene	108-90-7	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.4	1.0	1	ug/L	MKD
Chloroethane	75-00-3	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.4	1.0	1	ug/L	MKD
Chloroform	67-66-3	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.4	1.0	1	ug/L	MKD





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Certificate of Analysis

Client Name: Chesapeake Geosciences, Inc.
Client Site ID: Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID B-11-GW **Laboratory Sample ID** 12060335-003 **Sample Date** Date/Time Sampled: 06/15/12 09:30

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
Chloromethane	74-87-3	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.5	1.0	1	ug/L	MKD
cis-1,2-Dichloroethylene	156-59-2	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.4	1.0	1	ug/L	MKD
cis-1,3-Dichloropropene	10061-01-5	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.2	1.0	1	ug/L	MKD
Dibromochloromethane	124-48-1	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.7	1.0	1	ug/L	MKD
Dibromomethane	74-95-3	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.4	1.0	1	ug/L	MKD
Dichlorodifluoromethane	75-71-8	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		1.0	1.0	1	ug/L	MKD
Di-isopropyl ether (DIPE)	108-20-3	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.3	5.0	1	ug/L	MKD
Ethylbenzene	100-41-4	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.2	1.0	1	ug/L	MKD
Hexachlorobutadiene	87-68-3	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.2	1.0	1	ug/L	MKD
Iodomethane	74-88-4	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.1	10.0	1	ug/L	MKD
Isopropylbenzene	98-82-8	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.2	1.0	1	ug/L	MKD
m,p-Xylenes	179601-23-1	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.5	2.0	1	ug/L	MKD
Methylene chloride	75-09-2	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		1.0	4.0	1	ug/L	MKD
MTBE	1634-04-4	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.4	1.0	1	ug/L	MKD
Naphthalene	91-20-3	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.5	1.0	1	ug/L	MKD
n-Butylbenzene	104-51-8	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.3	1.0	1	ug/L	MKD
n-Propylbenzene	103-65-1	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.2	1.0	1	ug/L	MKD
o-Xylene	95-47-6	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.5	1.0	1	ug/L	MKD
p-Isopropyltoluene	99-87-6	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.2	1.0	1	ug/L	MKD
sec-Butylbenzene	135-98-8	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.4	1.0	1	ug/L	MKD
Styrene	100-42-5	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.2	1.0	1	ug/L	MKD
tert-Butylbenzene	98-06-6	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.1	1.0	1	ug/L	MKD
Tetrachloroethylene (PCE)	127-18-4	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.4	1.0	1	ug/L	MKD
Toluene	108-88-3	SW8260B	06/25/12 11:19	06/25/12 11:19	0.6	J	0.4	1.0	1	ug/L	MKD





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Client Name: Chesapeake Geosciences, Inc.
Client Site ID: Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID B-11-GW **Laboratory Sample ID** 12060335-003 **Sample Date** Date/Time Sampled: 06/15/12 09:30

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
trans-1,2-Dichloroethylene	156-60-5	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.4	1.0	1	ug/L	MKD
trans-1,3-Dichloropropene	10061-02-6	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.5	1.0	1	ug/L	MKD
Trichloroethylene	79-01-6	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.3	1.0	1	ug/L	MKD
Trichlorofluoromethane	75-69-4	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.4	1.0	1	ug/L	MKD
Vinyl acetate	108-05-4	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.9	10.0	1	ug/L	MKD
Vinyl chloride	75-01-4	SW8260B	06/25/12 11:19	06/25/12 11:19	BLOD		0.3	1.0	1	ug/L	MKD
Xylenes, Total	1330-20-7	SW8260B	06/25/12 11:19	06/25/12 11:19	0.5	J	0.5	3.0	1	ug/L	MKD

Client Sample ID B-6 / 25.5' **Laboratory Sample ID** 12060335-004 **Sample Date** Date/Time Sampled: 06/15/12 11:45

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
Percent Moisture	NA	SM18/2540G	06/26/12 9:35	06/26/12 9:35	12.3		0.1	0.1	1	%	KMW
TPH-Volatiles (GRO)	NA	SW8015C	06/22/12 18:58	06/22/12 18:58	BLOD		5.7	5.7	50	mg/kg	AJR
1,1,1,2-Tetrachloroethane	630-20-6	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
1,1,1-Trichloroethane	71-55-6	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
1,1,2,2-Tetrachloroethane	79-34-5	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
1,1,2-Trichloroethane	79-00-5	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
1,1-Dichloroethane	75-34-3	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
1,1-Dichloroethylene	75-35-4	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
1,1-Dichloropropene	563-58-6	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
1,2,3-Trichlorobenzene	87-61-6	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
1,2,3-Trichloropropane	96-18-4	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD





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Client Site ID: Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID: B-6 / 25.5' **Laboratory Sample ID:** 12060335-004 **Sample Date:** Date/Time Sampled: 06/15/12 11:45

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
1,2,4-Trichlorobenzene	120-82-1	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
1,2,4-Trimethylbenzene	95-63-6	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
1,2-Dibromoethane (EDB)	106-93-4	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
1,2-Dichlorobenzene	95-50-1	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
1,2-Dichloroethane	107-06-2	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
1,2-Dichloropropane	78-87-5	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
1,3,5-Trimethylbenzene	108-67-8	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
1,3-Dichlorobenzene	541-73-1	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
1,3-Dichloropropane	142-28-9	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
1,4-Dichlorobenzene	106-46-7	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
2,2-Dichloropropane	594-20-7	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
2-Butanone (MEK)	78-93-3	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		228	228	1	ug/kg	MKD
2-Chlorotoluene	95-49-8	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
2-Hexanone (MBK)	591-78-6	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		228	228	1	ug/kg	MKD
4-Chlorotoluene	106-43-4	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
4-Methyl-2-pentanone (MIBK)	108-10-1	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		228	228	1	ug/kg	MKD
Acetone	67-64-1	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		228	228	1	ug/kg	MKD
Benzene	71-43-2	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
Bromobenzene	108-86-1	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
Bromochloromethane	74-97-5	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
Bromodichloromethane	75-27-4	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
Bromoform	75-25-2	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		228	228	1	ug/kg	MKD





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Certificate of Analysis

Client Name: Chesapeake Geosciences, Inc.
Client Site ID: Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID: B-6 / 25.5' **Laboratory Sample ID:** 12060335-004 **Sample Date:** Date/Time Sampled: 06/15/12 11:45

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
Bromomethane	74-83-9	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
Carbon disulfide	75-15-0	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
Carbon tetrachloride	56-23-5	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
Chlorobenzene	108-90-7	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
Chloroethane	75-00-3	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
Chloroform	67-66-3	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
Chloromethane	74-87-3	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
cis-1,2-Dichloroethylene	156-59-2	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
cis-1,3-Dichloropropene	10061-01-5	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
Dibromochloromethane	124-48-1	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
Dibromomethane	74-95-3	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
Dichlorodifluoromethane	75-71-8	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
Di-isopropyl ether (DIPE)	108-20-3	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
Ethylbenzene	100-41-4	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
Hexachlorobutadiene	87-68-3	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
Iodomethane	74-88-4	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
Isopropylbenzene	98-82-8	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
m,p-Xylenes	179601-23-1	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
Methylene chloride	75-09-2	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
MTBE	1634-04-4	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
Naphthalene	91-20-3	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
n-Butylbenzene	104-51-8	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
n-Propylbenzene	103-65-1	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
o-Xylene	95-47-6	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD





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Client Name: Chesapeake Geosciences, Inc.
Client Site ID: Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID B-6 / 25.5' **Laboratory Sample ID** 12060335-004 **Sample Date** Date/Time Sampled: 06/15/12 11:45

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
p-Isopropyltoluene	99-87-6	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
sec-Butylbenzene	135-98-8	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
Styrene	100-42-5	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
tert-Butylbenzene	98-06-6	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
Tetrachloroethylene (PCE)	127-18-4	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
Toluene	108-88-3	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
trans-1,2-Dichloroethylene	156-60-5	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
trans-1,3-Dichloropropene	10061-02-6	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
Trichloroethylene	79-01-6	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
Trichlorofluoromethane	75-69-4	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
Vinyl acetate	108-05-4	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
Vinyl chloride	75-01-4	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
Xylenes, Total	1330-20-7	SW8260B	06/20/12 15:47	06/20/12 15:47	BLOD		57.0	57.0	1	ug/kg	MKD
TPH-Semi-Volatiles (DRO)	NA	SW8015C	06/20/12 14:40	06/21/12 21:33	BLOD		11.4	11.4	1	mg/kg	JHV

Client Sample ID B-8 / 26' **Laboratory Sample ID** 12060335-005 **Sample Date** Date/Time Sampled: 06/15/12 14:15

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
Percent Moisture	NA	SM18/2540G	06/26/12 9:35	06/26/12 9:35	6.9		0.1	0.1	1	%	KMW
TPH-Volatiles (GRO)	NA	SW8015C	06/22/12 19:24	06/22/12 19:24	BLOD		5.4	5.4	50	mg/kg	AJR
1,1,1,2-Tetrachloroethane	630-20-6	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
1,1,1-Trichloroethane	71-55-6	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD





Air Water & Soil Laboratories, Inc.
 2109 A. North Hamilton Street
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Certificate of Analysis

Client Name: Chesapeake Geosciences, Inc.
Client Site ID: Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID: B-8 / 26' **Laboratory Sample ID:** 12060335-005 **Sample Date:** Date/Time Sampled: 06/15/12 14:15

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
1,1,2,2-Tetrachloroethane	79-34-5	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
1,1,2-Trichloroethane	79-00-5	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
1,1-Dichloroethane	75-34-3	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
1,1-Dichloroethylene	75-35-4	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
1,1-Dichloropropene	563-58-6	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
1,2,3-Trichlorobenzene	87-61-6	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
1,2,3-Trichloropropane	96-18-4	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
1,2,4-Trichlorobenzene	120-82-1	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
1,2,4-Trimethylbenzene	95-63-6	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
1,2-Dibromoethane (EDB)	106-93-4	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
1,2-Dichlorobenzene	95-50-1	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
1,2-Dichloroethane	107-06-2	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
1,2-Dichloropropane	78-87-5	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
1,3,5-Trimethylbenzene	108-67-8	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
1,3-Dichlorobenzene	541-73-1	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
1,3-Dichloropropane	142-28-9	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
1,4-Dichlorobenzene	106-46-7	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
2,2-Dichloropropane	594-20-7	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
2-Butanone (MEK)	78-93-3	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		215	215	1	ug/kg	MKD
2-Chlorotoluene	95-49-8	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
2-Hexanone (MBK)	591-78-6	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		215	215	1	ug/kg	MKD
4-Chlorotoluene	106-43-4	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD





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Certificate of Analysis

Client Name: Chesapeake Geosciences, Inc.
Client Site ID: Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID B-8 / 26' **Laboratory Sample ID** 12060335-005 **Sample Date** Date/Time Sampled: 06/15/12 14:15

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
4-Methyl-2-pentanone (MIBK)	108-10-1	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		215	215	1	ug/kg	MKD
Acetone	67-64-1	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		215	215	1	ug/kg	MKD
Benzene	71-43-2	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
Bromobenzene	108-86-1	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
Bromochloromethane	74-97-5	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
Bromodichloromethane	75-27-4	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
Bromoform	75-25-2	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		215	215	1	ug/kg	MKD
Bromomethane	74-83-9	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
Carbon disulfide	75-15-0	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
Carbon tetrachloride	56-23-5	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
Chlorobenzene	108-90-7	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
Chloroethane	75-00-3	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
Chloroform	67-66-3	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
Chloromethane	74-87-3	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
cis-1,2-Dichloroethylene	156-59-2	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
cis-1,3-Dichloropropene	10061-01-5	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
Dibromochloromethane	124-48-1	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
Dibromomethane	74-95-3	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
Dichlorodifluoromethane	75-71-8	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
Di-isopropyl ether (DIPE)	108-20-3	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
Ethylbenzene	100-41-4	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
Hexachlorobutadiene	87-68-3	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
Iodomethane	74-88-4	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
Isopropylbenzene	98-82-8	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD





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Certificate of Analysis

Client Name: Chesapeake Geosciences, Inc.
Client Site ID: Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID: B-8 / 26' **Laboratory Sample ID:** 12060335-005 **Sample Date:** Date/Time Sampled: 06/15/12 14:15

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
m,p-Xylenes	179601-23-1	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
Methylene chloride	75-09-2	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
MTBE	1634-04-4	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
Naphthalene	91-20-3	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
n-Butylbenzene	104-51-8	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
n-Propylbenzene	103-65-1	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
o-Xylene	95-47-6	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
p-Isopropyltoluene	99-87-6	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
sec-Butylbenzene	135-98-8	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
Styrene	100-42-5	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
tert-Butylbenzene	98-06-6	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
Tetrachloroethylene (PCE)	127-18-4	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
Toluene	108-88-3	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
trans-1,2-Dichloroethylene	156-60-5	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
trans-1,3-Dichloropropene	10061-02-6	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
Trichloroethylene	79-01-6	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
Trichlorofluoromethane	75-69-4	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
Vinyl acetate	108-05-4	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
Vinyl chloride	75-01-4	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
Xylenes, Total	1330-20-7	SW8260B	06/20/12 16:13	06/20/12 16:13	BLOD		53.7	53.7	1	ug/kg	MKD
TPH-Semi-Volatiles (DRO)	NA	SW8015C	06/21/12 14:15	06/22/12 17:20	BLOD		10.7	10.7	1	mg/kg	JHV





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Certificate of Analysis

Client Name: Chesapeake Geosciences, Inc.
Client Site ID: Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID B-5 / 21.5' **Laboratory Sample ID** 12060335-006 **Sample Date** Date/Time Sampled: 06/15/12 16:35

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
Percent Moisture	NA	SM18/2540G	06/26/12 9:35	06/26/12 9:35	16.8		0.1	0.1	1	%	KMW
TPH-Volatiles (GRO)	NA	SW8015C	06/22/12 18:32	06/22/12 18:32	BLOD		6.0	6.0	50	mg/kg	AJR
1,1,1,2-Tetrachloroethane	630-20-6	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
1,1,1-Trichloroethane	71-55-6	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
1,1,2,2-Tetrachloroethane	79-34-5	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
1,1,2-Trichloroethane	79-00-5	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
1,1-Dichloroethane	75-34-3	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
1,1-Dichloroethylene	75-35-4	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
1,1-Dichloropropene	563-58-6	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
1,2,3-Trichlorobenzene	87-61-6	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
1,2,3-Trichloropropane	96-18-4	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
1,2,4-Trichlorobenzene	120-82-1	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
1,2,4-Trimethylbenzene	95-63-6	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
1,2-Dibromoethane (EDB)	106-93-4	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
1,2-Dichlorobenzene	95-50-1	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
1,2-Dichloroethane	107-06-2	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
1,2-Dichloropropane	78-87-5	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
1,3,5-Trimethylbenzene	108-67-8	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
1,3-Dichlorobenzene	541-73-1	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
1,3-Dichloropropane	142-28-9	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
1,4-Dichlorobenzene	106-46-7	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
2,2-Dichloropropane	594-20-7	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD





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Certificate of Analysis

Client Name: Chesapeake Geosciences, Inc.
Client Site ID: Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID B-5 / 21.5' **Laboratory Sample ID** 12060335-006 **Sample Date** Date/Time Sampled: 06/15/12 16:35

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
2-Butanone (MEK)	78-93-3	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		240	240	1	ug/kg	MKD
2-Chlorotoluene	95-49-8	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
2-Hexanone (MBK)	591-78-6	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		240	240	1	ug/kg	MKD
4-Chlorotoluene	106-43-4	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
4-Methyl-2-pentanone (MIBK)	108-10-1	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		240	240	1	ug/kg	MKD
Acetone	67-64-1	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		240	240	1	ug/kg	MKD
Benzene	71-43-2	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
Bromobenzene	108-86-1	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
Bromochloromethane	74-97-5	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
Bromodichloromethane	75-27-4	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
Bromoform	75-25-2	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		240	240	1	ug/kg	MKD
Bromomethane	74-83-9	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
Carbon disulfide	75-15-0	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
Carbon tetrachloride	56-23-5	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
Chlorobenzene	108-90-7	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
Chloroethane	75-00-3	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
Chloroform	67-66-3	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
Chloromethane	74-87-3	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
cis-1,2-Dichloroethylene	156-59-2	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
cis-1,3-Dichloropropene	10061-01-5	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
Dibromochloromethane	124-48-1	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
Dibromomethane	74-95-3	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
Dichlorodifluoromethane	75-71-8	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
Di-isopropyl ether (DIPE)	108-20-3	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD





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Certificate of Analysis

Client Name: Chesapeake Geosciences, Inc.
Client Site ID: Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID: B-5 / 21.5' **Laboratory Sample ID:** 12060335-006 **Sample Date:** Date/Time Sampled: 06/15/12 16:35

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
Ethylbenzene	100-41-4	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
Hexachlorobutadiene	87-68-3	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
Iodomethane	74-88-4	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
Isopropylbenzene	98-82-8	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
m,p-Xylenes	179601-23-1	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
Methylene chloride	75-09-2	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
MTBE	1634-04-4	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
Naphthalene	91-20-3	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
n-Butylbenzene	104-51-8	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
n-Propylbenzene	103-65-1	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
o-Xylene	95-47-6	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
p-Isopropyltoluene	99-87-6	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
sec-Butylbenzene	135-98-8	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
Styrene	100-42-5	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
tert-Butylbenzene	98-06-6	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
Tetrachloroethylene (PCE)	127-18-4	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
Toluene	108-88-3	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
trans-1,2-Dichloroethylene	156-60-5	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
trans-1,3-Dichloropropene	10061-02-6	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
Trichloroethylene	79-01-6	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
Trichlorofluoromethane	75-69-4	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
Vinyl acetate	108-05-4	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
Vinyl chloride	75-01-4	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD
Xylenes, Total	1330-20-7	SW8260B	06/20/12 16:38	06/20/12 16:38	BLOD		60.1	60.1	1	ug/kg	MKD





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Certificate of Analysis

Client Name: Chesapeake Geosciences, Inc.
Client Site ID: Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID B-5 / 21.5' **Laboratory Sample ID** 12060335-006 **Sample Date** Date/Time Sampled: 06/15/12 16:35

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
TPH-Semi-Volatiles (DRO)	NA	SW8015C	06/21/12 14:15	06/22/12 17:47	BLOD		12.0	12.0	1	mg/kg	JHV

Client Sample ID B-6-GW **Laboratory Sample ID** 12060335-007 **Sample Date** Date/Time Sampled: 06/15/12 12:30

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
1,1,1,2-Tetrachloroethane	630-20-6	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.4	1.0	1	ug/L	MKD
1,1,1-Trichloroethane	71-55-6	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.7	1.0	1	ug/L	MKD
1,1,2,2-Tetrachloroethane	79-34-5	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.4	1.0	1	ug/L	MKD
1,1,2-Trichloroethane	79-00-5	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.5	1.0	1	ug/L	MKD
1,1-Dichloroethane	75-34-3	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.4	1.0	1	ug/L	MKD
1,1-Dichloroethylene	75-35-4	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.3	1.0	1	ug/L	MKD
1,1-Dichloropropene	563-58-6	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.2	1.0	1	ug/L	MKD
1,2,3-Trichlorobenzene	87-61-6	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.2	1.0	1	ug/L	MKD
1,2,3-Trichloropropane	96-18-4	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.2	1.0	1	ug/L	MKD
1,2,4-Trichlorobenzene	120-82-1	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.2	1.0	1	ug/L	MKD
1,2,4-Trimethylbenzene	95-63-6	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.5	1.0	1	ug/L	MKD
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.8	4.0	1	ug/L	MKD
1,2-Dibromoethane (EDB)	106-93-4	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.3	1.0	1	ug/L	MKD
1,2-Dichlorobenzene	95-50-1	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.2	1.0	1	ug/L	MKD
1,2-Dichloroethane	107-06-2	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.9	1.0	1	ug/L	MKD
1,2-Dichloropropane	78-87-5	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.6	1.0	1	ug/L	MKD
1,3,5-Trimethylbenzene	108-67-8	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.2	1.0	1	ug/L	MKD





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Client Name: Chesapeake Geosciences, Inc.
Client Site ID: Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID: B-6-GW **Laboratory Sample ID:** 12060335-007 **Sample Date:** Date/Time Sampled: 06/15/12 12:30

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
1,3-Dichlorobenzene	541-73-1	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.2	1.0	1	ug/L	MKD
1,3-Dichloropropane	142-28-9	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.2	1.0	1	ug/L	MKD
1,4-Dichlorobenzene	106-46-7	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.4	1.0	1	ug/L	MKD
2,2-Dichloropropane	594-20-7	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.6	1.0	1	ug/L	MKD
2-Butanone (MEK)	78-93-3	SW8260B	06/25/12 11:42	06/25/12 11:42	5.9	J	0.6	10.0	1	ug/L	MKD
2-Chlorotoluene	95-49-8	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.6	1.0	1	ug/L	MKD
2-Hexanone (MBK)	591-78-6	SW8260B	06/25/12 11:42	06/25/12 11:42	0.6	J	0.4	10.0	1	ug/L	MKD
4-Chlorotoluene	106-43-4	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.7	1.0	1	ug/L	MKD
4-Methyl-2-pentanone (MIBK)	108-10-1	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.3	10.0	1	ug/L	MKD
Acetone	67-64-1	SW8260B	06/25/12 11:42	06/25/12 11:42	124		7.0	10.0	1	ug/L	MKD
Benzene	71-43-2	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.3	1.0	1	ug/L	MKD
Bromobenzene	108-86-1	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.5	1.0	1	ug/L	MKD
Bromochloromethane	74-97-5	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.2	1.0	1	ug/L	MKD
Bromodichloromethane	75-27-4	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.3	1.0	1	ug/L	MKD
Bromoform	75-25-2	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.5	1.0	1	ug/L	MKD
Bromomethane	74-83-9	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.3	1.0	1	ug/L	MKD
Carbon disulfide	75-15-0	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.6	10.0	1	ug/L	MKD
Carbon tetrachloride	56-23-5	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.4	1.0	1	ug/L	MKD
Chlorobenzene	108-90-7	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.4	1.0	1	ug/L	MKD
Chloroethane	75-00-3	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.4	1.0	1	ug/L	MKD
Chloroform	67-66-3	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.4	1.0	1	ug/L	MKD
Chloromethane	74-87-3	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.5	1.0	1	ug/L	MKD
cis-1,2-Dichloroethylene	156-59-2	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.4	1.0	1	ug/L	MKD
cis-1,3-Dichloropropene	10061-01-5	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.2	1.0	1	ug/L	MKD





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Certificate of Analysis

Client Name: Chesapeake Geosciences, Inc.
Client Site ID: Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID B-6-GW **Laboratory Sample ID** 12060335-007 **Sample Date** Date/Time Sampled: 06/15/12 12:30

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
Dibromochloromethane	124-48-1	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.7	1.0	1	ug/L	MKD
Dibromomethane	74-95-3	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.4	1.0	1	ug/L	MKD
Dichlorodifluoromethane	75-71-8	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		1.0	1.0	1	ug/L	MKD
Di-isopropyl ether (DIPE)	108-20-3	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.3	5.0	1	ug/L	MKD
Ethylbenzene	100-41-4	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.2	1.0	1	ug/L	MKD
Hexachlorobutadiene	87-68-3	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.2	1.0	1	ug/L	MKD
Iodomethane	74-88-4	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.1	10.0	1	ug/L	MKD
Isopropylbenzene	98-82-8	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.2	1.0	1	ug/L	MKD
m,p-Xylenes	179601-23-1	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.5	2.0	1	ug/L	MKD
Methylene chloride	75-09-2	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		1.0	4.0	1	ug/L	MKD
MTBE	1634-04-4	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.4	1.0	1	ug/L	MKD
Naphthalene	91-20-3	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.5	1.0	1	ug/L	MKD
n-Butylbenzene	104-51-8	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.3	1.0	1	ug/L	MKD
n-Propylbenzene	103-65-1	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.2	1.0	1	ug/L	MKD
o-Xylene	95-47-6	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.5	1.0	1	ug/L	MKD
p-Isopropyltoluene	99-87-6	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.2	1.0	1	ug/L	MKD
sec-Butylbenzene	135-98-8	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.4	1.0	1	ug/L	MKD
Styrene	100-42-5	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.2	1.0	1	ug/L	MKD
tert-Butylbenzene	98-06-6	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.1	1.0	1	ug/L	MKD
Tetrachloroethylene (PCE)	127-18-4	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.4	1.0	1	ug/L	MKD
Toluene	108-88-3	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.4	1.0	1	ug/L	MKD
trans-1,2-Dichloroethylene	156-60-5	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.4	1.0	1	ug/L	MKD
trans-1,3-Dichloropropene	10061-02-6	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.5	1.0	1	ug/L	MKD
Trichloroethylene	79-01-6	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.3	1.0	1	ug/L	MKD





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Certificate of Analysis

Client Name: Chesapeake Geosciences, Inc.
Client Site ID: Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID B-6-GW **Laboratory Sample ID** 12060335-007 **Sample Date** Date/Time Sampled: 06/15/12 12:30

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
Trichlorofluoromethane	75-69-4	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.4	1.0	1	ug/L	MKD
Vinyl acetate	108-05-4	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.9	10.0	1	ug/L	MKD
Vinyl chloride	75-01-4	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.3	1.0	1	ug/L	MKD
Xylenes, Total	1330-20-7	SW8260B	06/25/12 11:42	06/25/12 11:42	BLOD		0.5	3.0	1	ug/L	MKD

Client Sample ID B-8-GW **Laboratory Sample ID** 12060335-008 **Sample Date** Date/Time Sampled: 06/15/12 14:40

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
1,1,1,2-Tetrachloroethane	630-20-6	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.4	1.0	1	ug/L	MKD
1,1,1-Trichloroethane	71-55-6	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.7	1.0	1	ug/L	MKD
1,1,2,2-Tetrachloroethane	79-34-5	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.4	1.0	1	ug/L	MKD
1,1,2-Trichloroethane	79-00-5	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.5	1.0	1	ug/L	MKD
1,1-Dichloroethane	75-34-3	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.4	1.0	1	ug/L	MKD
1,1-Dichloroethylene	75-35-4	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.3	1.0	1	ug/L	MKD
1,1-Dichloropropene	563-58-6	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.2	1.0	1	ug/L	MKD
1,2,3-Trichlorobenzene	87-61-6	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.2	1.0	1	ug/L	MKD
1,2,3-Trichloropropane	96-18-4	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.2	1.0	1	ug/L	MKD
1,2,4-Trichlorobenzene	120-82-1	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.2	1.0	1	ug/L	MKD
1,2,4-Trimethylbenzene	95-63-6	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.5	1.0	1	ug/L	MKD
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.8	4.0	1	ug/L	MKD
1,2-Dibromoethane (EDB)	106-93-4	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.3	1.0	1	ug/L	MKD
1,2-Dichlorobenzene	95-50-1	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.2	1.0	1	ug/L	MKD





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Client Name: Chesapeake Geosciences, Inc.
Client Site ID: Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID: B-8-GW **Laboratory Sample ID:** 12060335-008 **Sample Date:** Date/Time Sampled: 06/15/12 14:40

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
1,2-Dichloroethane	107-06-2	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.9	1.0	1	ug/L	MKD
1,2-Dichloropropane	78-87-5	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.6	1.0	1	ug/L	MKD
1,3,5-Trimethylbenzene	108-67-8	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.2	1.0	1	ug/L	MKD
1,3-Dichlorobenzene	541-73-1	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.2	1.0	1	ug/L	MKD
1,3-Dichloropropane	142-28-9	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.2	1.0	1	ug/L	MKD
1,4-Dichlorobenzene	106-46-7	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.4	1.0	1	ug/L	MKD
2,2-Dichloropropane	594-20-7	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.6	1.0	1	ug/L	MKD
2-Butanone (MEK)	78-93-3	SW8260B	06/25/12 12:04	06/25/12 12:04	5.1	J	0.6	10.0	1	ug/L	MKD
2-Chlorotoluene	95-49-8	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.6	1.0	1	ug/L	MKD
2-Hexanone (MBK)	591-78-6	SW8260B	06/25/12 12:04	06/25/12 12:04	0.7	J	0.4	10.0	1	ug/L	MKD
4-Chlorotoluene	106-43-4	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.7	1.0	1	ug/L	MKD
4-Methyl-2-pentanone (MIBK)	108-10-1	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.3	10.0	1	ug/L	MKD
Acetone	67-64-1	SW8260B	06/25/12 12:04	06/25/12 12:04	146		7.0	10.0	1	ug/L	MKD
Benzene	71-43-2	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.3	1.0	1	ug/L	MKD
Bromobenzene	108-86-1	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.5	1.0	1	ug/L	MKD
Bromochloromethane	74-97-5	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.2	1.0	1	ug/L	MKD
Bromodichloromethane	75-27-4	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.3	1.0	1	ug/L	MKD
Bromoform	75-25-2	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.5	1.0	1	ug/L	MKD
Bromomethane	74-83-9	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.3	1.0	1	ug/L	MKD
Carbon disulfide	75-15-0	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.6	10.0	1	ug/L	MKD
Carbon tetrachloride	56-23-5	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.4	1.0	1	ug/L	MKD
Chlorobenzene	108-90-7	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.4	1.0	1	ug/L	MKD
Chloroethane	75-00-3	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.4	1.0	1	ug/L	MKD
Chloroform	67-66-3	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.4	1.0	1	ug/L	MKD





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Certificate of Analysis

Client Name: Chesapeake Geosciences, Inc.
Client Site ID: Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID: B-8-GW **Laboratory Sample ID:** 12060335-008 **Sample Date:** Date/Time Sampled: 06/15/12 14:40

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
Chloromethane	74-87-3	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.5	1.0	1	ug/L	MKD
cis-1,2-Dichloroethylene	156-59-2	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.4	1.0	1	ug/L	MKD
cis-1,3-Dichloropropene	10061-01-5	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.2	1.0	1	ug/L	MKD
Dibromochloromethane	124-48-1	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.7	1.0	1	ug/L	MKD
Dibromomethane	74-95-3	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.4	1.0	1	ug/L	MKD
Dichlorodifluoromethane	75-71-8	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		1.0	1.0	1	ug/L	MKD
Di-isopropyl ether (DIPE)	108-20-3	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.3	5.0	1	ug/L	MKD
Ethylbenzene	100-41-4	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.2	1.0	1	ug/L	MKD
Hexachlorobutadiene	87-68-3	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.2	1.0	1	ug/L	MKD
Iodomethane	74-88-4	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.1	10.0	1	ug/L	MKD
Isopropylbenzene	98-82-8	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.2	1.0	1	ug/L	MKD
m,p-Xylenes	179601-23-1	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.5	2.0	1	ug/L	MKD
Methylene chloride	75-09-2	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		1.0	4.0	1	ug/L	MKD
MTBE	1634-04-4	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.4	1.0	1	ug/L	MKD
Naphthalene	91-20-3	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.5	1.0	1	ug/L	MKD
n-Butylbenzene	104-51-8	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.3	1.0	1	ug/L	MKD
n-Propylbenzene	103-65-1	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.2	1.0	1	ug/L	MKD
o-Xylene	95-47-6	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.5	1.0	1	ug/L	MKD
p-Isopropyltoluene	99-87-6	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.2	1.0	1	ug/L	MKD
sec-Butylbenzene	135-98-8	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.4	1.0	1	ug/L	MKD
Styrene	100-42-5	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.2	1.0	1	ug/L	MKD
tert-Butylbenzene	98-06-6	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.1	1.0	1	ug/L	MKD
Tetrachloroethylene (PCE)	127-18-4	SW8260B	06/25/12 12:04	06/25/12 12:04	0.5	J	0.4	1.0	1	ug/L	MKD
Toluene	108-88-3	SW8260B	06/25/12 12:04	06/25/12 12:04	0.6	J	0.4	1.0	1	ug/L	MKD





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Certificate of Analysis

Client Name: Chesapeake Geosciences, Inc.
Client Site ID: Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID B-8-GW **Laboratory Sample ID** 12060335-008 **Sample Date** Date/Time Sampled: 06/15/12 14:40

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
trans-1,2-Dichloroethylene	156-60-5	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.4	1.0	1	ug/L	MKD
trans-1,3-Dichloropropene	10061-02-6	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.5	1.0	1	ug/L	MKD
Trichloroethylene	79-01-6	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.3	1.0	1	ug/L	MKD
Trichlorofluoromethane	75-69-4	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.4	1.0	1	ug/L	MKD
Vinyl acetate	108-05-4	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.9	10.0	1	ug/L	MKD
Vinyl chloride	75-01-4	SW8260B	06/25/12 12:04	06/25/12 12:04	BLOD		0.3	1.0	1	ug/L	MKD
Xylenes, Total	1330-20-7	SW8260B	06/25/12 12:04	06/25/12 12:04	0.5	J	0.5	3.0	1	ug/L	MKD

Client Sample ID B-5-GW **Laboratory Sample ID** 12060335-009 **Sample Date** Date/Time Sampled: 06/15/12 16:55

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
1,1,1,2-Tetrachloroethane	630-20-6	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.4	1.0	1	ug/L	MKD
1,1,1-Trichloroethane	71-55-6	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.7	1.0	1	ug/L	MKD
1,1,2,2-Tetrachloroethane	79-34-5	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.4	1.0	1	ug/L	MKD
1,1,2-Trichloroethane	79-00-5	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.5	1.0	1	ug/L	MKD
1,1-Dichloroethane	75-34-3	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.4	1.0	1	ug/L	MKD
1,1-Dichloroethylene	75-35-4	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.3	1.0	1	ug/L	MKD
1,1-Dichloropropene	563-58-6	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.2	1.0	1	ug/L	MKD
1,2,3-Trichlorobenzene	87-61-6	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.2	1.0	1	ug/L	MKD
1,2,3-Trichloropropane	96-18-4	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.2	1.0	1	ug/L	MKD
1,2,4-Trichlorobenzene	120-82-1	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.2	1.0	1	ug/L	MKD
1,2,4-Trimethylbenzene	95-63-6	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.5	1.0	1	ug/L	MKD





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Client Site ID: Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID B-5-GW **Laboratory Sample ID** 12060335-009 **Sample Date** Date/Time Sampled: 06/15/12 16:55

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.8	4.0	1	ug/L	MKD
1,2-Dibromoethane (EDB)	106-93-4	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.3	1.0	1	ug/L	MKD
1,2-Dichlorobenzene	95-50-1	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.2	1.0	1	ug/L	MKD
1,2-Dichloroethane	107-06-2	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.9	1.0	1	ug/L	MKD
1,2-Dichloropropane	78-87-5	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.6	1.0	1	ug/L	MKD
1,3,5-Trimethylbenzene	108-67-8	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.2	1.0	1	ug/L	MKD
1,3-Dichlorobenzene	541-73-1	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.2	1.0	1	ug/L	MKD
1,3-Dichloropropane	142-28-9	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.2	1.0	1	ug/L	MKD
1,4-Dichlorobenzene	106-46-7	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.4	1.0	1	ug/L	MKD
2,2-Dichloropropane	594-20-7	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.6	1.0	1	ug/L	MKD
2-Butanone (MEK)	78-93-3	SW8260B	06/25/12 12:27	06/25/12 12:27	2.2	J	0.6	10.0	1	ug/L	MKD
2-Chlorotoluene	95-49-8	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.6	1.0	1	ug/L	MKD
2-Hexanone (MBK)	591-78-6	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.4	10.0	1	ug/L	MKD
4-Chlorotoluene	106-43-4	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.7	1.0	1	ug/L	MKD
4-Methyl-2-pentanone (MIBK)	108-10-1	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.3	10.0	1	ug/L	MKD
Acetone	67-64-1	SW8260B	06/25/12 12:27	06/25/12 12:27	27.9		7.0	10.0	1	ug/L	MKD
Benzene	71-43-2	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.3	1.0	1	ug/L	MKD
Bromobenzene	108-86-1	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.5	1.0	1	ug/L	MKD
Bromochloromethane	74-97-5	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.2	1.0	1	ug/L	MKD
Bromodichloromethane	75-27-4	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.3	1.0	1	ug/L	MKD
Bromoform	75-25-2	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.5	1.0	1	ug/L	MKD
Bromomethane	74-83-9	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.3	1.0	1	ug/L	MKD
Carbon disulfide	75-15-0	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.6	10.0	1	ug/L	MKD





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Certificate of Analysis

Client Name: Chesapeake Geosciences, Inc.
Client Site ID: Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID B-5-GW **Laboratory Sample ID** 12060335-009 **Sample Date** Date/Time Sampled: 06/15/12 16:55

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
Carbon tetrachloride	56-23-5	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.4	1.0	1	ug/L	MKD
Chlorobenzene	108-90-7	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.4	1.0	1	ug/L	MKD
Chloroethane	75-00-3	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.4	1.0	1	ug/L	MKD
Chloroform	67-66-3	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.4	1.0	1	ug/L	MKD
Chloromethane	74-87-3	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.5	1.0	1	ug/L	MKD
cis-1,2-Dichloroethylene	156-59-2	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.4	1.0	1	ug/L	MKD
cis-1,3-Dichloropropene	10061-01-5	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.2	1.0	1	ug/L	MKD
Dibromochloromethane	124-48-1	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.7	1.0	1	ug/L	MKD
Dibromomethane	74-95-3	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.4	1.0	1	ug/L	MKD
Dichlorodifluoromethane	75-71-8	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		1.0	1.0	1	ug/L	MKD
Di-isopropyl ether (DIPE)	108-20-3	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.3	5.0	1	ug/L	MKD
Ethylbenzene	100-41-4	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.2	1.0	1	ug/L	MKD
Hexachlorobutadiene	87-68-3	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.2	1.0	1	ug/L	MKD
Iodomethane	74-88-4	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.1	10.0	1	ug/L	MKD
Isopropylbenzene	98-82-8	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.2	1.0	1	ug/L	MKD
m,p-Xylenes	179601-23-1	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.5	2.0	1	ug/L	MKD
Methylene chloride	75-09-2	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		1.0	4.0	1	ug/L	MKD
MTBE	1634-04-4	SW8260B	06/25/12 12:27	06/25/12 12:27	13.4		0.4	1.0	1	ug/L	MKD
Naphthalene	91-20-3	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.5	1.0	1	ug/L	MKD
n-Butylbenzene	104-51-8	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.3	1.0	1	ug/L	MKD
n-Propylbenzene	103-65-1	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.2	1.0	1	ug/L	MKD
o-Xylene	95-47-6	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.5	1.0	1	ug/L	MKD
p-Isopropyltoluene	99-87-6	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.2	1.0	1	ug/L	MKD
sec-Butylbenzene	135-98-8	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.4	1.0	1	ug/L	MKD





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Client Name: Chesapeake Geosciences, Inc.
Client Site ID: Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

Client Sample ID: B-5-GW **Laboratory Sample ID:** 12060335-009 **Sample Date:** Date/Time Sampled: 06/15/12 16:55

Parameter	CAS	Reference Method	Sample Prep Date/Time	Analysis Date/Time	Sample Results	Qualifier	LOD	LOQ	Dilution	Units	Analyst
Styrene	100-42-5	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.2	1.0	1	ug/L	MKD
tert-Butylbenzene	98-06-6	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.1	1.0	1	ug/L	MKD
Tetrachloroethylene (PCE)	127-18-4	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.4	1.0	1	ug/L	MKD
Toluene	108-88-3	SW8260B	06/25/12 12:27	06/25/12 12:27	0.4	J	0.4	1.0	1	ug/L	MKD
trans-1,2-Dichloroethylene	156-60-5	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.4	1.0	1	ug/L	MKD
trans-1,3-Dichloropropene	10061-02-6	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.5	1.0	1	ug/L	MKD
Trichloroethylene	79-01-6	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.3	1.0	1	ug/L	MKD
Trichlorofluoromethane	75-69-4	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.4	1.0	1	ug/L	MKD
Vinyl acetate	108-05-4	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.9	10.0	1	ug/L	MKD
Vinyl chloride	75-01-4	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.3	1.0	1	ug/L	MKD
Xylenes, Total	1330-20-7	SW8260B	06/25/12 12:27	06/25/12 12:27	BLOD		0.5	3.0	1	ug/L	MKD

Summary of Analytical QC Batches

Qualifier Definitions

Qualifier	Description
J	The reported concentration is less than the LOQ but greater than the LOD. The concentration is considered to be estimated.
M	Matrix spike recovery is outside established acceptance limits.





Air Water & Soil Laboratories, Inc.
2109 A. North Hamilton Street
Richmond, Virginia 23230
(804) 358-8295 - Telephone
(804) 358-8297 - Fax

Certificate of Analysis

Client Name: Chesapeake Geosciences, Inc.
Client Site ID: Veterans-Najoles
Submitted To: John Kosloski

Date Issued: 06/27/2012

End Notes:

The test results listed in this report relate only to the samples submitted to the laboratory and as received by t

Unless otherwise noted, the test results for solid materials are calculated on a wet weight basis. Analyses for temperature, residual chlorine and sulfite that are performed in the laboratory do not meet NELAC requiremer holding times. These analyses should be performed in the field. The results of field analyses performed by th Certificate of Analysis are done so at the client's request and are not included in the laboratory's fields of certi audited for adherence to a reference method or procedure.

The signature on the final report certifies that these results conform to all applicable NELAC standards unless complete list of the Laboratory's NELAC certified parameters please contact customer service.

This report shall not be reproduced except in full without the expressed and written approval of an authorized



Analysis Certifications Report

Client Name: Chesapeake Geosciences, Inc.
 Client Site ID: Veterans-Najoles
 Submitted To: John Kosloski

Date Issued: 06/27/2012

Order ID: 12060335

Parameter	Method	NC	VA-NP	VA-SO	WVA
1,1,1,2-Tetrachloroethane	SW8260B	X	X		X
1,1,1,2-Tetrachloroethane	SW8260B	X		X	X
1,1,1-Trichloroethane	SW8260B	X	X		X
1,1,1-Trichloroethane	SW8260B	X		X	X
1,1,2,2-Tetrachloroethane	SW8260B	X	X		X
1,1,2,2-Tetrachloroethane	SW8260B	X		X	X
1,1,2-Trichloroethane	SW8260B	X	X		X
1,1,2-Trichloroethane	SW8260B	X		X	X
1,1-Dichloroethane	SW8260B	X	X		X
1,1-Dichloroethane	SW8260B	X		X	X
1,1-Dichloroethylene	SW8260B	X		X	X
1,1-Dichloroethylene	SW8260B	X	X		X
1,1-Dichloropropene	SW8260B	X		X	X
1,1-Dichloropropene	SW8260B	X	X		X
1,2,3-Trichlorobenzene	SW8260B	X	X		X
1,2,3-Trichlorobenzene	SW8260B	X		X	X
1,2,3-Trichloropropane	SW8260B	X	X		X
1,2,3-Trichloropropane	SW8260B	X		X	X
1,2,4-Trichlorobenzene	SW8260B	X	X		X
1,2,4-Trichlorobenzene	SW8260B	X		X	X
1,2,4-Trimethylbenzene	SW8260B	X	X		X
1,2,4-Trimethylbenzene	SW8260B	X		X	X
1,2-Dibromo-3-chloropropane (DBCP)	SW8260B	X	X		X
1,2-Dibromo-3-chloropropane (DBCP)	SW8260B	X		X	X
1,2-Dibromoethane (EDB)	SW8260B	X	X		X
1,2-Dibromoethane (EDB)	SW8260B	X		X	X
1,2-Dichlorobenzene	SW8260B	X	X		X
1,2-Dichlorobenzene	SW8260B	X		X	X
1,2-Dichloroethane	SW8260B	X	X		X
1,2-Dichloroethane	SW8260B	X		X	X
1,2-Dichloropropane	SW8260B	X	X		X
1,2-Dichloropropane	SW8260B	X		X	X
1,3,5-Trimethylbenzene	SW8260B	X	X		X
1,3,5-Trimethylbenzene	SW8260B	X		X	X
1,3-Dichlorobenzene	SW8260B	X	X		X



Analysis Certifications Report

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 Submitted To: John Kosloski

Date Issued: 06/27/2012

Order ID: 12060335

Parameter	Method	NC	VA-NP	VA-SO	WVA
1,3-Dichlorobenzene	SW8260B	X		X	X
1,3-Dichloropropane	SW8260B	X	X		X
1,3-Dichloropropane	SW8260B	X		X	X
1,4-Dichlorobenzene	SW8260B	X	X		X
1,4-Dichlorobenzene	SW8260B	X		X	X
2,2-Dichloropropane	SW8260B	X	X		X
2,2-Dichloropropane	SW8260B	X		X	X
2-Butanone (MEK)	SW8260B	X	X		X
2-Butanone (MEK)	SW8260B	X		X	X
2-Chlorotoluene	SW8260B	X		X	X
2-Chlorotoluene	SW8260B	X	X		X
2-Hexanone (MBK)	SW8260B	X		X	X
2-Hexanone (MBK)	SW8260B	X	X		X
4-Chlorotoluene	SW8260B	X		X	X
4-Chlorotoluene	SW8260B	X	X		X
4-Methyl-2-pentanone (MIBK)	SW8260B	X		X	X
4-Methyl-2-pentanone (MIBK)	SW8260B	X	X		X
Acetone	SW8260B	X		X	X
Acetone	SW8260B	X	X		X
Benzene	SW8260B	X		X	X
Benzene	SW8260B	X	X		X
Bromobenzene	SW8260B	X	X		X
Bromobenzene	SW8260B	X		X	X
Bromochloromethane	SW8260B	X	X		X
Bromochloromethane	SW8260B	X		X	X
Bromodichloromethane	SW8260B	X		X	X
Bromodichloromethane	SW8260B	X	X		X
Bromoform	SW8260B	X	X		X
Bromoform	SW8260B	X		X	X
Bromomethane	SW8260B	X		X	X
Bromomethane	SW8260B	X	X		X
Carbon disulfide	SW8260B	X		X	X
Carbon disulfide	SW8260B	X	X		X
Carbon tetrachloride	SW8260B	X		X	X
Carbon tetrachloride	SW8260B	X	X		X
Chlorobenzene	SW8260B	X		X	X



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Parameter	Method	NC	VA-NP	VA-SO	WVA
Chlorobenzene	SW8260B	X	X		X
Chloroethane	SW8260B	X		X	X
Chloroethane	SW8260B	X	X		X
Chloroform	SW8260B	X	X		X
Chloroform	SW8260B	X		X	X
Chloromethane	SW8260B	X	X		X
Chloromethane	SW8260B	X		X	X
cis-1,2-Dichloroethylene	SW8260B	X	X		X
cis-1,2-Dichloroethylene	SW8260B	X		X	X
cis-1,3-Dichloropropene	SW8260B	X		X	X
cis-1,3-Dichloropropene	SW8260B	X	X		X
Dibromochloromethane	SW8260B	X		X	X
Dibromochloromethane	SW8260B	X	X		X
Dibromomethane	SW8260B	X		X	X
Dibromomethane	SW8260B	X	X		X
Dichlorodifluoromethane	SW8260B	X		X	X
Dichlorodifluoromethane	SW8260B	X	X		X
Di-isopropyl ether (DIPE)	SW8260B	X		X	X
Di-isopropyl ether (DIPE)	SW8260B	X	X		X
Ethylbenzene	SW8260B	X		X	X
Ethylbenzene	SW8260B	X	X		X
Hexachlorobutadiene	SW8260B	X		X	X
Hexachlorobutadiene	SW8260B	X	X		X
Iodomethane	SW8260B	X	X		X
Iodomethane	SW8260B	X		X	X
Isopropylbenzene	SW8260B	X		X	X
Isopropylbenzene	SW8260B	X	X		X
m,p-Xylenes	SW8260B	X		X	X
m,p-Xylenes	SW8260B	X	X		X
Methylene chloride	SW8260B	X	X		X
Methylene chloride	SW8260B	X		X	X
MTBE	SW8260B	X	X		X
MTBE	SW8260B	X		X	X
Naphthalene	SW8260B	X	X		X
Naphthalene	SW8260B	X		X	X
n-Butylbenzene	SW8260B	X	X		X



Analysis Certifications Report

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Parameter	Method	NC	VA-NP	VA-SO	WVA
n-Butylbenzene	SW8260B	X		X	X
n-Propylbenzene	SW8260B	X	X		X
n-Propylbenzene	SW8260B	X		X	X
o-Xylene	SW8260B	X	X		X
o-Xylene	SW8260B	X		X	X
p-Isopropyltoluene	SW8260B	X		X	X
p-Isopropyltoluene	SW8260B	X	X		X
sec-Butylbenzene	SW8260B	X		X	X
sec-Butylbenzene	SW8260B	X	X		X
Styrene	SW8260B	X	X		X
Styrene	SW8260B	X		X	X
tert-Butylbenzene	SW8260B	X	X		X
tert-Butylbenzene	SW8260B	X		X	X
Tetrachloroethylene (PCE)	SW8260B	X		X	X
Tetrachloroethylene (PCE)	SW8260B	X	X		X
Toluene	SW8260B	X	X		X
Toluene	SW8260B	X		X	X
TPH-Semi-Volatiles (DRO)	SW8015C	X		X	X
TPH-Volatiles (GRO)	SW8015C	X		X	X
trans-1,2-Dichloroethylene	SW8260B	X	X		X
trans-1,2-Dichloroethylene	SW8260B	X		X	X
trans-1,3-Dichloropropene	SW8260B	X	X		X
trans-1,3-Dichloropropene	SW8260B	X		X	X
Trichloroethylene	SW8260B	X	X		X
Trichloroethylene	SW8260B	X		X	X
Trichlorofluoromethane	SW8260B	X	X		X
Trichlorofluoromethane	SW8260B	X		X	X
Vinyl acetate	SW8260B	X	X		X
Vinyl acetate	SW8260B	X		X	X
Vinyl chloride	SW8260B	X	X		X
Vinyl chloride	SW8260B	X		X	X
Xylenes, Total	SW8260B	X		X	X
Xylenes, Total	SW8260B	X	X		X



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Analysis Certifications Report

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Client Site ID: Veterans-Najoles
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Parameter	Method	NC	VA-NP	VA-SO	WVA
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"X" denotes that the associated parameter is certified or accredited under the program indicated in the column header.

VA-NP = VELAP Non-Potable Water: Virginia DGS Division of Consolidated Laboratory Services(460021); VA-SOLIDS = VELAP Solids: Virginia DGS Division of Consolidated Laboratory Services(460021); VA-SOLIDS = VELAP Solids: North Carolina(495); WVA: West Virginia Department of Environmental Protection(350); NC: North Carolina(495)

CHAIN OF CUSTODY

PAGE 1 OF 1

COMPANY NAME: CGS	INVOICE TO: John Kosloski	PROJECT NAME/Quote #: ARRAST
CONTACT: John Kosloski	INVOICE CONTACT: Maria Colazzo	SITE NAME: Veterans - Najoles
ADDRESS: 5405 Twin Knolls Rd, Ste 1	INVOICE ADDRESS: Columbia, MD 21045	PROJECT NUMBER: CG-09-0525.06
PHONE #: (410) 740-1911 X 108	INVOICE PHONE #: (410) 740-1911 X 100	P.O. #: CG09052506 MS
FAX #: (410) 740-3299	EMAIL: jkosloski@cg-us.com	Pretreatment Program: NA
Is sample for compliance reporting? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	Is sample from a chlorinated supply? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	PWS I.D. #:
SAMPLER NAME (PRINT): Mag Staines	SAMPLER SIGNATURE: <i>Mag Staines</i>	Turn Around Time: 14 Day(s)

Matrix Codes: WW=Water Water GW=Ground Water DW=Drinking Water S=Soil/Solids OR=Organic A=Air WP=Wipe OT=Other

CLIENT SAMPLE I.D.	Grab	Composite	Field Filtered (Dissolved Metals)	Composite Start Date	Composite Start Time	Grab Date or Composite Stop Date	Grab Time or Composite Stop Time	Time Preserved	Matrix (See Codes)	Number of Containers	ANALYSIS / (PRESERVATIVE)				COMMENTS
											VOCs 8260/Soil	TPH-DR0 8015/ Cool 4°C	TPH-GRO 8015/ Cool 4°C	VOCs 8260/ HCL pH <2-water	
1) B-DUP	X					6/15/12			S	5	X	X	X		Terracore
2) FB-VN	X						9:00	9:00	GW	3				X	sample kits
3) B-11-GW	X						9:30	9:30	GW	3				X	have 4 con-
4) B-6 (25.5')	X						11:45	11:45	GW	5	X	X	X		tainers and 3
5) B-8 (26')	X						14:15	14:15	GW	5	X	X	X		preservatives =
6) B-5 (21.5')	X						16:35	16:35	GW	5	X	X	X		(1) Cool 4°C (2) mets
7) B-6-GW	X						12:30	12:30	GW	3				X	(2) CH ₄ O
8) B-8-GW	X						14:40	14:40	GW	3				X	(3) NaHSO ₄
9) B-5-GW	X					V	16:55	16:55	GW	3				X	

RELINQUISHED: <i>Mag Staines</i>	DATE / TIME: 6/18/12 17:30	RECEIVED: UPS	DATE / TIME: 6/18/12 17:30	QC Data Package	LAB USE ONLY	COOLER TEMP 9.4 °C ON ICE
RELINQUISHED: <i>CGS</i>	DATE / TIME:	RECEIVED: <i>Lafal</i>	DATE / TIME: 19 JUNE 2012 11:22	Level I <input type="checkbox"/>	CGI Veterans-Najoles 	12060335 DUE: 10 Days Recd: 06/19/12
RELINQUISHED:	DATE / TIME:	RECEIVED:	DATE / TIME:	Level II <input checked="" type="checkbox"/>		
RELINQUISHED:	DATE / TIME:	RECEIVED:	DATE / TIME:	Level III <input type="checkbox"/>		
RELINQUISHED:	DATE / TIME:	RECEIVED:	DATE / TIME:	Level IV <input type="checkbox"/>		

TERMS & CONDITIONS

Where a purchaser (Client) places an order for laboratory, consulting or sampling services from Air Water & Soil Laboratories, Inc., a Virginia corporation (referred to as "Air Water & Soil"), Air Water & Soil shall provide the ordered services pursuant to these Terms and Conditions, and the related Quotation or Price Schedule, or as agreed in a negotiated contract. In the absence of a written agreement to the contrary, the Order constitutes an acceptance by the Client of Air Water & Soil's offer to do business under these Terms and Conditions, and an agreement to be bound by these Terms and Conditions. No contrary or additional terms and conditions expressed in a Client's document shall be deemed to become a part of the contract created upon acceptance of these Terms and Conditions, unless accepted by Air Water & Soil in writing.

1. ORDERS AND RECEIPT OF SAMPLES

1.1 The Client may place the Order (i.e., specify a Scope of Work) either by submitting a purchase order to Air Water & Soil in writing or by telephone subsequently confirmed in writing, or by negotiated contract (i.e. Chain of Custody). Whichever option the Client selects for placing the Order, the Order shall not be valid unless it contains sufficient specification to enable Air Water & Soil to carry out the Client's requirements. In particular, samples must be accompanied by: a) adequate instruction on type of analysis requested, and b) complete written disclosure of the known or suspected presence of any hazardous substances, as defined by applicable federal or state law. Where any samples which were not accompanied by the required disclosure, cause interruptions in the lab's ability to process work due to contamination of instruments or work areas, the Client will be responsible for the costs of clean up and recovery.

1.2 The Client shall provide one week's advance notice of the sample delivery schedule, or any changes to the schedule, whenever possible. Upon timely delivery of samples, Air Water & Soil will use its best efforts to meet mutually agreed turnaround times. All turnaround times are based on business days and will be calculated from the point in time when Air Water & Soil has determined that it can proceed with defined work following receipt, inspection of samples, and resolution of any discrepancies in Chain-of-Custody forms and project guidance regarding work to be done (Sample Delivery Acceptance). In the event of any changes in the sample delivery schedule by the Client, prior to Sample Delivery Acceptance, Air Water & Soil reserves the right to modify its turnaround time commitment, to change the date upon which Air Water & Soil will accept samples, or refuse Sample Delivery Acceptance for the affected samples.

1.2.1 Turn around times are defined as follows: Any sample group requiring a turnaround time of less than five(5) business days will be considered a "Rush Turn Around Time". Rush Turnaround samples received after 3:00pm will be considered as received on the next business day.

1.2.2 Air Water & Soil defines "standard turnaround" as Five (5) business days with exception made for Full TCLP analyses.

1.3 Air Water & Soil reserves the right, exercisable at any time, to refuse or revoke Sample Delivery Acceptance for any sample which in the sole judgment of Air Water & Soil: a) is of unsuitable volume; b) may pose a risk or become unsuitable for handling, transport, or processing for any health, safety, environmental or other reason, whether or not due to the presence in the sample of any hazardous substance and whether or not such presence has been disclosed to Air Water & Soil by the Client; or c) holding times cannot be met, due to passage of more than 48 hours from the time of sampling or 1/2 the holding time for the requested test, whichever is less.

1.4 Prior to Sample Delivery Acceptance, the entire risk of loss or damage to samples remains with the Client, except where Air Water & Soil provides courier services. In no event will Air Water & Soil have any responsibility or liability for the action or inaction of any carrier shipping or delivering any sample to or from Air Water & Soil's premises. Client is responsible to assure that any sample containing any hazardous substance which is to be delivered to Air Water & Soil's premises will be packaged, labeled, transported and delivered properly and in accordance with applicable laws.

2. PAYMENT TERMS

2.1 Services performed by Air Water & Soil will be in accordance with prices quoted and later confirmed in writing or as stated in the Price Schedule. Quoted prices do not include sales tax. Applicable sales tax will be added to invoices where required by law. An Environmental Management Fee of 5% of the invoice value will also be applied, at Air Water & Soil's discretion.

2.2 Invoices may be submitted to Client upon completion of any sample delivery group. Billing corrections must be requested within 30 days of invoice date. Payment in advance is required for all Clients except those whose credit has been established with Air Water & Soil. For Clients with approved credit, payment terms are net 30 days from the date of invoice by Air Water & Soil. All overdue payments are subject to an additional interest and service charge of one and one half percent (1.5%) (or the maximum rate permissible by law, whichever is lesser) per month or portion thereof from the due date until the date of payment. All fees are charged or billed directly to the Client. The billing of a third party will not be accepted without a statement, signed by the third party, that acknowledges and accepts payment responsibility.

2.3 Air Water & Soil may suspend work and withhold delivery of data under this order at any time in the event Client fails to make timely payment of its invoices. Client shall be responsible for all costs and expenses of collection including reasonable attorney's fees. Air Water & Soil reserves the right to refuse to proceed with work at any time based upon an unfavorable Client credit report.

3. CHANGE ORDERS, TERMINATION

3.1 Changes to the Scope of Work, price, or result delivery date may be initiated by Air Water & Soil after Sample Delivery Acceptance due to any condition which conflicts with analytical, QA or other protocols warranted in these Terms and Conditions. Air Water & Soil will not proceed with such changes until an agreement with the Client is reached on the amount of any cost, schedule change or technical change to the Scope of Work, and such agreement is documented. Email communications are acceptable, telephone conversations however must be followed up with written documentation.

3.2 Changes to the Scope of Work, including but not limited to increasing or decreasing the work, changing test and analysis specification, or acceleration in the performance of the work may be initiated by the Client after sample delivery acceptance. Such a change will be documented in writing and may result in a change in cost and turnaround time commitment. Air Water & Soil's acceptance of such changes is contingent upon technical feasibility and operational capacity.

3.3 Suspension or termination of all or any part of the work may be initiated by the Client. Air Water & Soil will be compensated consistent with Section 2 of these Terms and Conditions. Air Water & Soil will complete all work in progress and be paid in full for all work completed.

4. WARRANTIES AND LIABILITY

4.1 Where applicable, Air Water & Soil will use analytical methodologies which are in substantial conformity with published test methods. Air Water & Soil has implemented these methods in its Laboratory Quality Manual and referenced Standard Operating Procedures and where the nature or composition of the sample requires it, Air Water & Soil reserves the right to deviate from these methodologies as necessary or appropriate, based on the reasonable judgment of Air Water & Soil, which deviations, if any, will be made on a basis consistent with recognized standards of the industry and/or Air Water & Soil's Laboratory Quality Manuals. Client may request that Air Water & Soil perform according to a mutually agreed Quality Assurance Project Plan (QAPP). In the event that samples arrive prior to agreement on a QAPP, Air Water & Soil will proceed with analyses under its standard Quality Manuals then in effect, and Air Water & Soil will not be responsible for any re-sampling or other charges if work must be repeated to comply with a subsequently finalized QAPP.

4.2 Air Water & Soil shall start preparation and/or analysis within holding times provided that Sample Delivery Acceptance occurs within 48 hours of sampling or 1/2 of the holding time for the test, whichever is less. Where resolution of inconsistencies leading to Sample Delivery Acceptance does not occur within this period, Air Water & Soil will use its best efforts to meet holding times and will proceed with the work provided that, in Air Water & Soil's judgment, the chain-of-custody or definition of the Scope of Work provide sufficient guidance. Reanalysis of samples to comply with Air Water & Soil's Quality Manuals will be deemed to have met holding times provided the initial analysis was performed within the applicable holding time. Where reanalysis demonstrates that sample matrix interference is the cause of failure to meet any Quality Manual requirements, the warranty will be deemed to have been met.

4.3 Air Water & Soil warrants that it possesses and maintains all licenses and certifications which are required to perform services under these Terms and Conditions provided that such requirements are specified in writing to Air Water & Soil prior to Sample Delivery Acceptance.

4.4 The warranty obligations set forth in Sections 4.1, 4.2 and 4.3 are the sole and exclusive warranties given by Air Water & Soil in connection with any services performed by Air Water & Soil or any Results generated from such services, and Air Water & Soil gives and makes NO OTHER REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. No representative of Air Water & Soil is authorized to give or make any other representation or warranty or modify this warranty in any way.

4.5 Client's sole and exclusive remedy for the breach of warranty in connection with any services performed by Air Water & Soil, will be limited to repeating any services performed, contingent on the Client's providing, at the request of Air Water & Soil and at the Client's expense, additional sample(s) if necessary. Any reanalysis requested by the Client generating Results consistent with the original Results will be at the Client's expense. If re-sampling is necessary, Air Water & Soil's liability for re-sampling costs will be limited to actual cost or one hundred and fifty dollars (\$150) per sample, whichever is less.

4.6 Air Water & Soil's liability for any and all causes of action arising hereunder, whether based in contract, tort, warranty, negligence or otherwise, shall be limited to the lesser amount of compensation for the services performed or \$100,000. All claims, including those for negligence, shall be deemed waived unless suit thereon is filed within one year after Air Water & Soil's completion of the services. Under no circumstances, whether arising in contract, tort (including negligence), or otherwise, shall Air Water & Soil be responsible for loss of use, loss of profits, or for any special, indirect, incidental or consequential damages occasioned by the services performed or by application or use of the reports prepared.

4.7 In no event shall Air Water & Soil have any responsibility or liability to the Client for any failure or delay in performance by Air Water & Soil, which results, directly or indirectly, in whole or in part, from any cause or circumstance beyond the reasonable control of Air Water & Soil. Such causes and circumstances shall include, but not be limited to, acts of God, acts of Client, acts or orders of any governmental authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, equipment breakdown, matrix interference or unknown highly contaminated samples that impact instrument operation, unavailability of supplies from usual suppliers, difficulties or delays in transportation, mail or delivery services, or any other cause beyond Air Water & Soil's reasonable control.

5. RESULTS, WORK PRODUCT

5.1 Data or information provided to Air Water & Soil or generated by services performed under this agreement shall only become the property of the Client upon receipt in full by Air Water & Soil of payment for the whole Order. Ownership of any analytical method, QA/QC protocols, software programs or equipment developed by Air Water & Soil for performance of work will be retained by Air Water & Soil, and Client shall not disclose such information to any third party.

5.2 Data and sample materials provided by Client or at Client's request, and the result obtained by Air Water & Soil shall be held in confidence (unless such information is generally available to the public or is in the public domain or Client has failed to pay Air Water & Soil for all services rendered or is otherwise in breach of these Terms and Conditions), subject to any disclosure required by law or legal process.

5.3 Should the Results delivered by Air Water & Soil be used by the Client or Client's client, even though subsequently determined not to meet the warranties described in these Terms and Conditions, then the compensation will be adjusted based upon mutual agreement. In no case shall the Client unreasonably withhold Air Water & Soil's right to independently defend its data.

5.4 Air Water & Soil reserves the right to subcontract services ordered by the Client to another laboratory or laboratories, if, in Air Water & Soil's sole judgment, it is reasonably necessary, appropriate or advisable to do so. Air Water & Soil will in no way be liable for any subcontracted services except for work performed at laboratories which have been audited and approved by Air Water & Soil.

5.5 Air Water & Soil shall dispose of the Client's samples 30 days after receipt of samples; 15 days after receipt of samples for BOD, CBOD and TSS analyses, unless instructed to store them for an alternate period of time or to return such samples to the Client, in a manner consistent with U.S. Environmental Protection Agency regulations or other applicable federal, state or local requirements. Any samples for projects that are canceled or not accepted, or for which return was requested, will be returned to the Client at his own expense. Air Water & Soil reserves the right to return to the Client any sample or unused portion of a sample that is not within Air Water & Soil's permitted capability or the capabilities of Air Water & Soil's designated waste disposal vendor(s). 5.6 Unless a different time period is agreed to in any order under these Terms and Conditions, Air Water & Soil agrees to retain all records for five (5) years.

5.7 In the event that Air Water & Soil is required to respond to legal process related to services for Client, Client agrees to reimburse Air Water & Soil for hourly charges for personnel involved in the response and attorney fees reasonably incurred in obtaining advice concerning the response, preparation to testify, and appearances related to the legal process, travel and all reasonable expenses associated with the litigation.

6. INSURANCE

6.1 Air Water & Soil shall maintain in force during the performance of services under these Terms and Conditions, Workers' Compensation and Employer's Liability Insurance in accordance with the laws of the states having jurisdiction over Air Water & Soil's employees who are engaged in the performance of the work. Air Water & Soil shall also maintain during such period, Comprehensive General and Contractual Liability (limit of \$1,000,000 per occurrence/ \$2,000,000 aggregate), Comprehensive Automobile Liability, owned and hired, (\$1,000,000 combined single limit), and Professional/Pollution Liability Insurance (limit of \$1,000,000 per occurrence/aggregate).

7. AUDIT

7.1 Upon prior notice to Air Water & Soil, the Client may audit and inspect Air Water & Soil's records and accounts covering reimbursable costs related to work done for the Client, for a period of two (2) years after completion of the work. The purpose of any such audit shall be only for verification of such costs, and Air Water & Soil shall not be required to provide access to cost records where prices are expressed as fixed fees or published unit prices.

8. MISCELLANEOUS PROVISIONS

8.1 These Terms and Conditions, together with any additions or revisions which may be agreed to in writing by Air Water & Soil, embody the whole agreement of the parties and provide the only remedies available. There are no promises, terms, conditions, understandings, obligations or agreements other than those contained herein, and these Terms and Conditions shall supersede all previous communications, representations, or agreements, either verbal or written, between the Client and Air Water & Soil. These Terms and Conditions, and any transactions or agreements to which they apply, shall be governed both as to interpretation and performance by the laws of the state where Air Water & Soil's services are performed.

8.2 The invalidity or unenforceability, in whole or in part of any provision, term or condition hereof shall not affect in any way the validity or enforceability of the remainder of these Terms and Conditions, the intent of the parties being that the provisions be severable. The section headings of these Terms and Conditions are intended solely for convenient reference and shall not define, limit or affect in any way these Terms and Conditions or their interpretations. No waiver by either party of any provision, term or condition hereof or of any obligation of the other party hereunder shall constitute a waiver of any subsequent breach or other obligation.

8.3 The obligations, liabilities, and remedies of the parties, as provided herein, are exclusive and in lieu of any others available at law or in equity. Indemnifications, releases from liability and limitations of liability shall apply, notwithstanding the fault, negligence or strict liability of the party to be indemnified, released, or whose liability is limited, the extent of sole negligence or willful misconduct.



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Sample Conditions Checklist CGI

12060335

Opened by: (Initials) Hm

Lab ID No.:

Veterans-Najoles

DUE: 10 Days



Recd: 06/19/12

Date Cooler Opened:

		YES	NO	N/A
1.	How were samples received? Fed Ex <input type="checkbox"/> UPS <input checked="" type="checkbox"/> Courier <input type="checkbox"/> Walk In <input type="checkbox"/>			
2.	Were custody seals used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.	If yes, are custody seals unbroken and intact at the date and time of arrival?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.	Are the custody papers filled out completely and correctly?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5.	Do all bottle labels agree with custody papers?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6.	Are the samples received on ice?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.	Is the temperature blank or representative sample within acceptable limits? (above freezing to 6°C)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8.	Are all samples within holding time for requested laboratory tests?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9.	Is a sufficient amount of sample provided to perform the tests indicated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10.	Are all samples in proper containers for the analyses requested?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11.	Are all samples appropriately preserved for the analyses requested?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12.	Are all volatile organic containers free of headspace?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

COMMENTS

Samples B-6(25.5'), B-8(26'), AND B-5(21.5') WERE ALL ^{TESTED} LABELLED AS GROUND WATER ON THE COC
WHEN THEY ^{WERE} ARE SOIL SAMPLES IN TERRAZZO BOTS THRU 19 JULIE 2012