Preliminary Site Assessment

1699 Farmville Boulevard

Parcel #12, Vincent Peele Property, LLC

Scotts Cleaners

Greenville, Pitt County, North Carolina

State Project No. U-3315

WBS Element: 35781.1.2

February 22, 2013

Terracon Project No. 70127335

Prepared for:

North Carolina Department of Transportation (NCDOT)

Geotechnical Engineering Unit

Prepared by:

Terracon Consultants, Inc.

Raleigh, North Carolina

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February 22, 2013

North Carolina Department of Transportation
Attention: Mr. Gordon Box, LG
Geotechnical Engineering Unit
1589 Mail Service Center
Raleigh, NC 27699

Re: Preliminary Site Assessment (PSA)
Parcel 12, Vincent Peele Property, LLC
Scotts Cleaners
1699 Farmville Boulevard
Greenville, Pit County, North Carolina
Terracon Project No. 70127335
WBS Element: 35781.1.2

Dear Mr. Box:

Terracon Consultants, Inc. (Terracon) is pleased to submit a Preliminary Site Assessment (PSA) report for the above referenced site. This assessment was performed in accordance with our Proposal for Preliminary Site Assessment (Terracon Proposal No.P70127314) dated August 7, 2012. This report includes the findings of the investigation, and provides our conclusions and recommendations.

Terracon appreciates the opportunity to provide these services to NCDOT. If you have any questions concerning this report or need additional information, please contact us at 919-873-2211.

Sincerely,

Terracon Consultants, Inc.

Prepared by:

Stephen Kerlin
Environmental Professional

Reviewed by:

for Christopher L. Corbitt, PG
Authorized Project Reviewer

Lori Hoffman, PE
Environmental Department Manager

PRELIMINARY SITE ASSESSMENT

PARCEL 12, VINCENT PEELE PROPERTY, LLC
1699 FARMVILLE BOULEVARD
GREENVILLE, PITT COUNTY, NORTH CAROLINA

1.0 INTRODUCTION

1.1 Site Description

Site Name	Parcel 12, Vincent Peele Property, LLC (Scotts Cleaners)
Site Location/Address	1699 Farmville Boulevard, Greenville, North Carolina
General Site Description	The site includes a one-story concrete building that is currently operated as Scotts Cleaners (dry-cleaning operation). The site is further improved with paved access drives and customer parking.

1.2 Site History

According to information provided by NCDOT and collected by Terracon, there are no known facility identification numbers or groundwater incidents associated with the site and the facility is not enrolled within the North Carolina Department of Environment and Natural Resources (NCDENR) DSCA Program. The NCDOT intends to acquire the entire parcel.

1.3 Scope of Work

Terracon has prepared the following Preliminary Site Assessment (PSA) scope of work (SOW) in accordance with the NCDOT's Request for Technical and Cost Proposal dated June 19, 2012 and Terracon's Proposal for Preliminary Site Assessment (Proposal No. P70127314) dated August 7, 2012. The scope of work included a geophysical investigation, the collection of six soil samples and one groundwater sample for laboratory analysis and preparation of a report documenting our environmental investigation activities.

1.4 Standard of Care

Terracon's services were performed in a manner consistent with generally accepted practices of the profession undertaken in similar studies in the same geographical area during the same time period. Terracon makes no warranties, either expressed or implied, regarding the findings, conclusions or recommendations. Please note that Terracon does not warrant the work of laboratories, regulatory agencies or other third parties supplying information used in the preparation of the report. These PSA services were performed in accordance with the scope of work agreed with you, our client, as reflected in our proposal and were not restricted by ASTM E1903-97.

1.5 Additional Scope Limitations

Findings, conclusions and recommendations resulting from these services are based upon information derived from the on-site activities and other services performed under this scope of work; such information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, undetectable or not present during these services; thus, we cannot represent that the site is free of hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during this PSA. Subsurface conditions may vary from those encountered at specific borings or wells or during other surveys, tests, assessments, investigations or exploratory services; the data, interpretations, findings, and our recommendations are based solely upon data obtained at the time and within the scope of these services.

1.6 Reliance

This report has been prepared for the exclusive use of North Carolina Department of Transportation (NCDOT), and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the site) is prohibited without the expressed written authorization of the client and Terracon.

2.0 FIELD ACTIVITIES

The following PSA activities are presented in the order that they were conducted in the field on August 15, 21, and 29, 2012. Exhibit 1 presents the general boundaries and topography of the site on portions of the USGS topographic quadrangle map of Greenville SW, North Carolina dated 1998. Exhibit 2 is a site layout plan that indicates the approximate locations of the site features and soil boring locations.

2.1 Geophysical Survey

On August 15 and 21, 2012, Pyramid Environmental conducted a geophysical investigation at the site in an effort to determine if unknown, metallic underground storage tanks (USTs) were present beneath the proposed right-of-way (ROW) area. The geophysical investigation included an electromagnetic (EM) induction survey using a Geonics EM-61 MK1 metal detection instrument and a ground penetrating radar (GPR) survey using a GSSI SIR-2000 unit.

The geophysical investigation did not reveal metallic USTs or other buried anomalies in the area of investigation identified for this site.

A copy of the geophysical report is included in Appendix B.

2.2 Soil Sampling

Based on the findings of the geophysical investigation, Terracon selected the locations of six (6) soil borings along the exterior of the dry-cleaning operation on August 29, 2012. The borings were advanced by Bridger Drilling Enterprises, Inc., a North Carolina licensed driller using a Geoprobe® rig.

Soil boring B-1 was advanced along the eastern exterior wall of the building. Soil borings B-2, B-3, and B-4 were advanced along the southern exterior wall and soil borings B-5 and B-6 were advanced along the northern exterior wall of the building. A soil boring was not advanced along the western exterior wall of the building due to the unknown location of a buried natural gas utility line.

Soil samples were collected in 5-foot, disposable, acetate sleeves and observed for documentation of soil lithology, color, moisture content, and sensory evidence of impairment. The soil samples were placed in separate resealable plastic bags and set aside for a sufficient amount of time to allow volatilization of organic compounds from the soils. The soil samples were then screened using a *Thermo Electron Corporation TVA-1000* field-portable Photoionization/Flame Ionization Detector (PID/FID) by inserting the probe tip into the headspace of the bag. The PID readings and soil sample depths are included on Table 1 and on individual Boring Logs in Appendix A.

Soil borings B-1, B-2, B-3, and B-5 were advanced to a depth of approximately 10 feet below ground surface (bgs). Soil borings B-4 and B-6 were advanced to approximately 15 feet below bgs. Groundwater levels were measured at depths ranging from 2 and 6 feet bgs. Based on shallow groundwater, soils were only screened above the saturated zone. Soils obtained from the acetate sleeves were separated into two and half foot intervals.

The soil samples were collected and placed in laboratory prepared glassware and packed in ice in a cooler. The sample cooler and completed chain-of-custody forms were relinquished to SGS North American Inc. in Wilington, North Carolina.

2.3 Groundwater Sampling

Following soil sampling activities, soil boring B-4, located in the apparent down-gradient position of the site at the southwestern corner of the building (near a back door) was converted to a temporary groundwater well (TW-1) by driving the direct push probe to approximately 15 feet bgs and installing the well. The temporary monitoring well location is included in the attached Figure, Exhibit 2. The temporary monitoring well was constructed with the following materials:

- 1-inch diameter, 0.010-inch machine slotted PVC well screen with a threaded bottom cap; and,

- 1-inch diameter, threaded, flush-joint PVC riser pipe to surface.

Groundwater was measured in the temporary well at a depth of approximately 2.5 feet bgs. The water that flowed into the temporary screen was purged with a peristaltic pump until turbidity decreased. The water sample collected from the temporary monitoring well was placed into laboratory supplied, pre-preserved sample containers. The sample containers were packed in ice, and along with chain of custody documentation, picked up by a laboratory courier for delivery to the laboratory.

2.4 Subsurface Conditions

The soil samples from ground surface to a depth of 15 feet included silty sands, clayey sands, silty clay, and sandy clay. No petroleum odors were noted in any of the samples screened; however, asphalt odors were detected from the samples collected from the surface at soil borings B-2, B-3, B-4, B-5, and B-6. An organic odor was also detected in soil boring B-5 (2.5-5.0 feet). One soil sample was selected for laboratory analysis from the zone exhibiting the highest PID reading in each boring or most obviously contaminated interval. Samples from a depth of 0 to 2.5 feet bgs were submitted from soil borings B-1, B-2, B-3 and B-4. Samples from a depth of 2.5 to 5.0 feet bgs were submitted from borings B-5 and B-6.

3.0 LABORATORY ANALYSES

The soil and groundwater samples were submitted for laboratory analysis of Volatile Organic Compounds (VOCs) by EPA Method 8260 and Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270. Samples were submitted to SGS North American Inc. in Wilmington, North Carolina for analysis. Please refer to Appendix C for the laboratory analytical reports.

4.0 DATA EVALUATION

4.1 Soil Sample Analytical Results and Interpretation

Laboratory analytical results for soil sample S-1 indicated tetrachloroethene (1.42 mg/kg) and trichchloroethene (0.0393 mg/kg J) were detected above their respective NCDENR – Division of Waste Management (DWM) Protection of Groundwater Preliminary Soil Remediation Goals (PSRGs) of 0.005 mg/kg and 0.018 mg/kg, respectively. The detected concentrations were below their respective Residential PSRGs of 17 mg/kg and 0.88 mg/kg.

Laboratory analytical results for soil sample S-1 also reported benzo(a)anthracene (0.302 mg/kg J) at a concentration above the NCDENR – DWM Protection of Groundwater PSRG of 0.005 mg/kg and the Residential PSRG of 0.18 mg/kg. It should be noted the dilution factor for sample S-1 was 50.

A summary of the soil sampling analytical results are included in Table 1 as an attachment to this report.

4.2 Groundwater Analytical Results and Interpretation

Laboratory analytical results for groundwater sample TW-1 reported methylene chloride (0.2 ug/l J) and toluene (0.51 ug/l J) at concentrations above their respective laboratory method detection limits but below their respective NCAC 2L Groundwater Quality Standards of 5.0 ug/L and 600 ug/L. Methylene chloride is typically used in dry cleaning operations as a primary constituent of spotting agents to remove stains from oils, fats, waxes, grease, cosmetics, paints and plastics. It is also found in stain repellents and detergent maintenance test kits that are commonly used in dry cleaning facilities.

Semi-volatile organic compounds were not detected in groundwater sample TW-1 above laboratory method reporting limits.

A summary of the groundwater sampling analytical results are included in Table 2 as an attachment to this report.

5.0 CONCLUSIONS

The findings of this investigation are discussed below.

- The geophysical investigation did not reveal probable metallic USTs or other buried anomalies in the area of investigation identified for this site.

- Six soil borings were advanced to depths of approximately 10 to 15 feet bgs.

- Tetrachloroethene (1.42 mg/kg) and trichchloroethene (0.0393 mg/kg J) were detected in soils from boring B-1 above their respective Protection of Groundwater PSRGs of 0.005 mg/kg and 0.018 mg/kg, but below their respective Residential PSRGs of 17 mg/kg and 0.88 mg/kg.

- Benzo(a)anthracene (0.302 mg/kg J) was detected in soils from boring B-1 at a concentration above the Protection of Groundwater PSRG of 0.005 mg/kg and Residential PSRG of 0.18 mg/kg.

- Contamination of soils appears to be localized. An estimated weight of impacted soil in the vicinity of soil sample S-1 is 11.5 tons or 7.4 cubic yards. This calculation assumes an area of 10 ft long by 10 ft wide by 2 feet deep (the groundwater level measured in the temporary groundwater monitoring well within the proposed project area was approximately 2.5 feet bgs). The extent of impacted soil can only be determined after

excavation of impacted soils or by additional assessment at the site.

- Groundwater was measured in temporary groundwater monitoring well TW-1 at a depth of approximately 2.5 feet bgs.

- Methylene chloride (0.2 ug/l J) and toluene (0.51 ug/l J) were detected in the groundwater at concentrations above their respective laboratory method detection limits but below their respective NCAC 2L Groundwater Quality Standards of 5.0 ug/L and 600 ug/L. Methylene chloride is typically used in dry cleaning operations as a primary constituent of spotting agents to remove stains from oils, fats, waxes, grease, cosmetics, paints and plastics. It is also found in stain repellents and detergent maintenance test kits that are commonly used in dry cleaning facilities.

- Based on the analytical results, the soils (sample S-1) at the site have been impacted by known dry cleaning solvents. Similar dry cleaning constituents have been detected in the groundwater on the adjacent property to the east (Parcel #13). The presence of constituents related to dry cleaning operations in on-site soils and groundwater on an adjacent parcel to the east indicates a release may have occurred at the on-site dry cleaners. It should also be noted that during our site reconnaissance, the apparent on-site dry cleaning operations were located in the eastern portion of the building near boring B-1/sample S-1.

- Based on information provided by NCDOT, Terracon estimates a total of 66 yd^3 or 99 tons of contaminated soil be used for estimating quantities to be removed from Parcel 12 during construction. The actual amount of impacted soil can only be determined after excavation or by advancing additional borings at the site to further delineate the extent of contamination. This is based on the following assumptions:

  <u>Roadway Excavation</u>
  - From Sta. 24+60, 34' Rt to 76' Rt, cross-section area of 52 ft^2
  - From Sta. 24+99 , 34' Rt to 76' Rt, cross-section area of 39 ft^2

  (52 ft^2 x 20 ft) + (39 ft^2 x 19 ft) = 1781 ft^3 or 66 yd^3

  <u>Utility and Drainage Excavation</u>
  Not anticipated for Parcel 12

TABLES

Table 1 - Soil Sampling Analytical Results Summary
Table 2 – Groundwater Sampling Analytical Results Summary

Table 1
Soil Sampling Analytical Results Summary
Parcel #12, Vincent Peele Property, LLC
Greenville, Pitt County, North Carolina

				Sample ID	S-1	S-2	S-3	S-4	S-5	S-6
				Sample Depth	0-2.5 FT	0-2.5 FT	0-2.5 FT	0-2.5 FT	0-2.5 FT	0-2.5 FT
Method	Parameter	Units	NCDENR IHSB Residential Health Based PSRGs (mg/kg)	NCDENR IHSB Protection of Groundwater PSRGs (mg/kg)	Value	Value	Value	Value	Value	Value
8260B	2-Butanone (MEK)	mg/kg	56,000	16	<0.0302	0.0125 J	0.00778 J	0.00528 J	<0.00274	<0.0025
	Acetone	mg/kg	12,000	24	<0.0361	0.084	0.0577	0.045	0.0133 J	0.0089 J
	Carbon Disulfide	mg/kg	160	3.8	<0.00443	1.7 J	<0.0004	0.00322 J	<0.000423	<0.000387
	Tetrachloroethene	mg/kg	17	0.005	1.42	<0.000607	<0.000575	<0.000571	<0.000608	<0.000555
	Toluene	mg/kg	820	5.5	<0.00556	0.000946 J	0.00106 J	<0.000523	<0.000557	<0.000508
	Trichloroethene	mg/kg	0.88	0.018	0.0393 J	<0.000681	<0.000645	<0.00064	<0.000682	<0.000622
	cis-1,2-Dichloroethene	mg/kg	NE	NE	0.0318 J	<0.000494	<0.000468	<0.000465	<0.000495	<0.000452
8270C	Benzo(a)anthracene	mg/kg	0.15	0.18	0.302 J	<0.0191	<0.0192	<0.0188	<0.02	<0.0184
	Benzo(a)pyrene	mg/kg	0.15	0.059	0.0336 J	<0.0197	<0.0197	<0.0193	<0.0206	<0.019
	Benzo(b)fluoranthene	mg/kg	0.15	0.6	0.0504 J	<0.02	<0.0201	<0.0196	<0.0209	<0.0193
	Bis(2-Ethylhexyl)phthalate	mg/kg	35	7.2	0.0504 J	<0.0167	<0.0167	<0.0164	<0.0175	<0.0161
	Chrysene	mg/kg	15	18	0.0537 J	<0.0404	<0.0406	<0.0397	<0.0424	<0.039
	Fluoranthene	mg/kg	460	330	0.134 J	<0.0327	0.0417 J	<0.0321	<0.0342	<0.0315
	Phenanthrene	mg/kg	NE	68	0.0739 J	<0.0229	<0.023	<0.0225	<0.024	<0.0221
	Pyrene	mg/kg	340	220	0.111 J	<0.0147	0.0417 J	0.0307 J	<0.0154	<0.0142

Notes:
Samples collected on August 29, 2012
NE = Not established
mg/kg = milligrams per kilogram
Results in bold indicate a reported concentration above the laboratory method detection limit but below the PSRGs
Results in Bold and Highlighed in Yellow indicate a reported concentration above the IHSB Protection of Groundwater PSRGs (Updated May 2012)
Results in Bold, Highlighed in Yellow and outlined in Red indicate a reported concentration above the both IHSB Protection of Groundwater and Health Based PRGs (updated May 2012)
J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
IHSB = Inactive Hazardous Sites Branch
PSRGs = Preliminary Soil Remediation Goals

Table 2
Groundwater Sampling Analytical Results Summary
Parcel #12, Vincent Peele Property, LLC
Greenville, Pitt County, North Carolina

			Sample ID	TW-1
			Depth	2.5 FT
Method	Parameter	Units	NCAC 2L Groundwater Quality Standard	Value
8260B	Methylene Chloride	ug/l	5.0	0.2 J
	Toluene	ug/l	600	0.51 J
8270C	SVOCs	ug/l	No Analytes Detected Above the Laboratory Detection Limits	

Notes:
Sample GW collected on August 29, 2012
NE = Not established
ug/L = micrograms per liter
=Greater than or equal to the NCAC 2L Groundwater Quality Standard

FIGURES

Exhibit 1 – Vicinity Map (Topographic Map)
Exhibit 2 – Site Diagram with Soil Boring Locations and Analytical Data

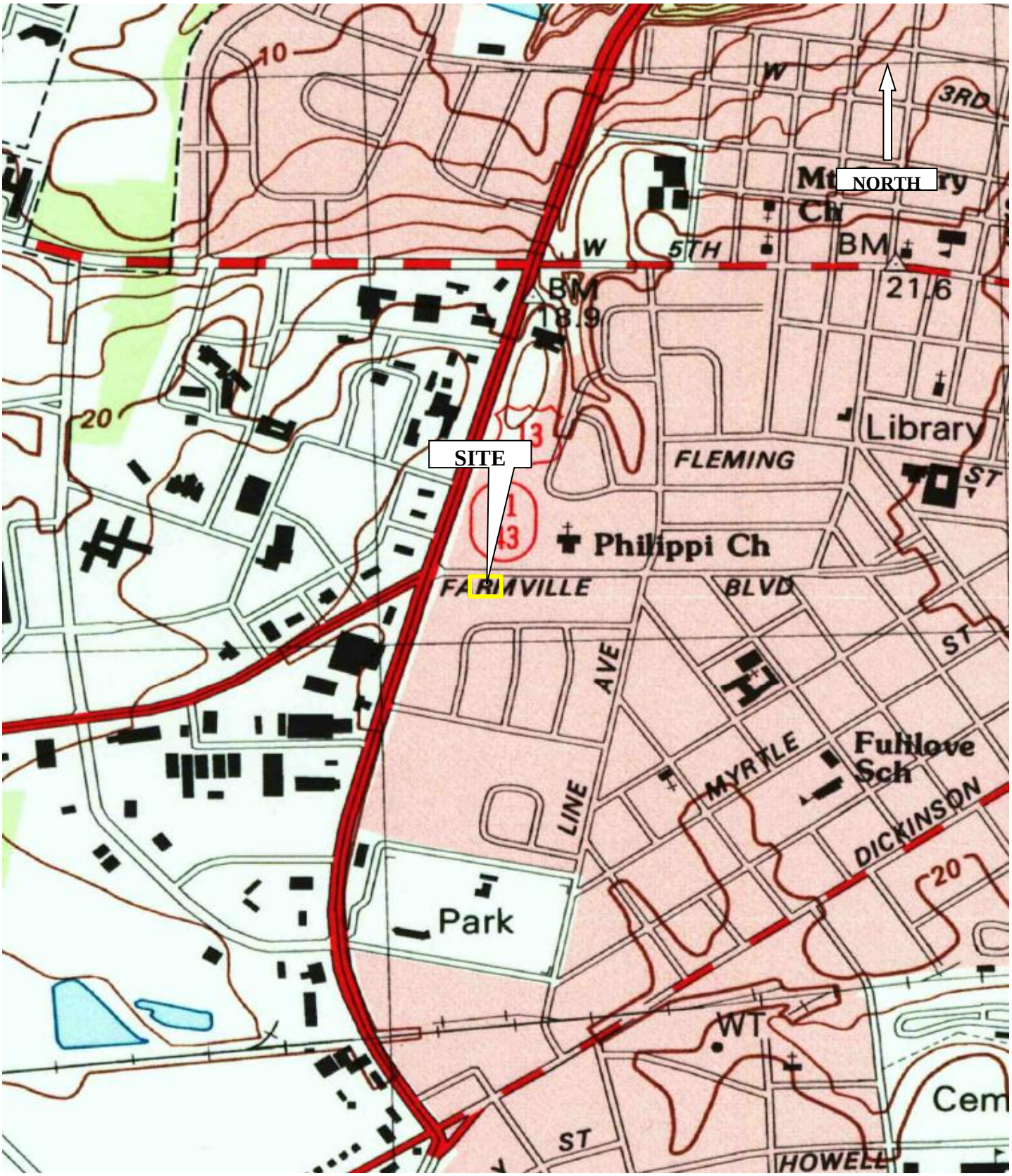


Diagram is for general location only

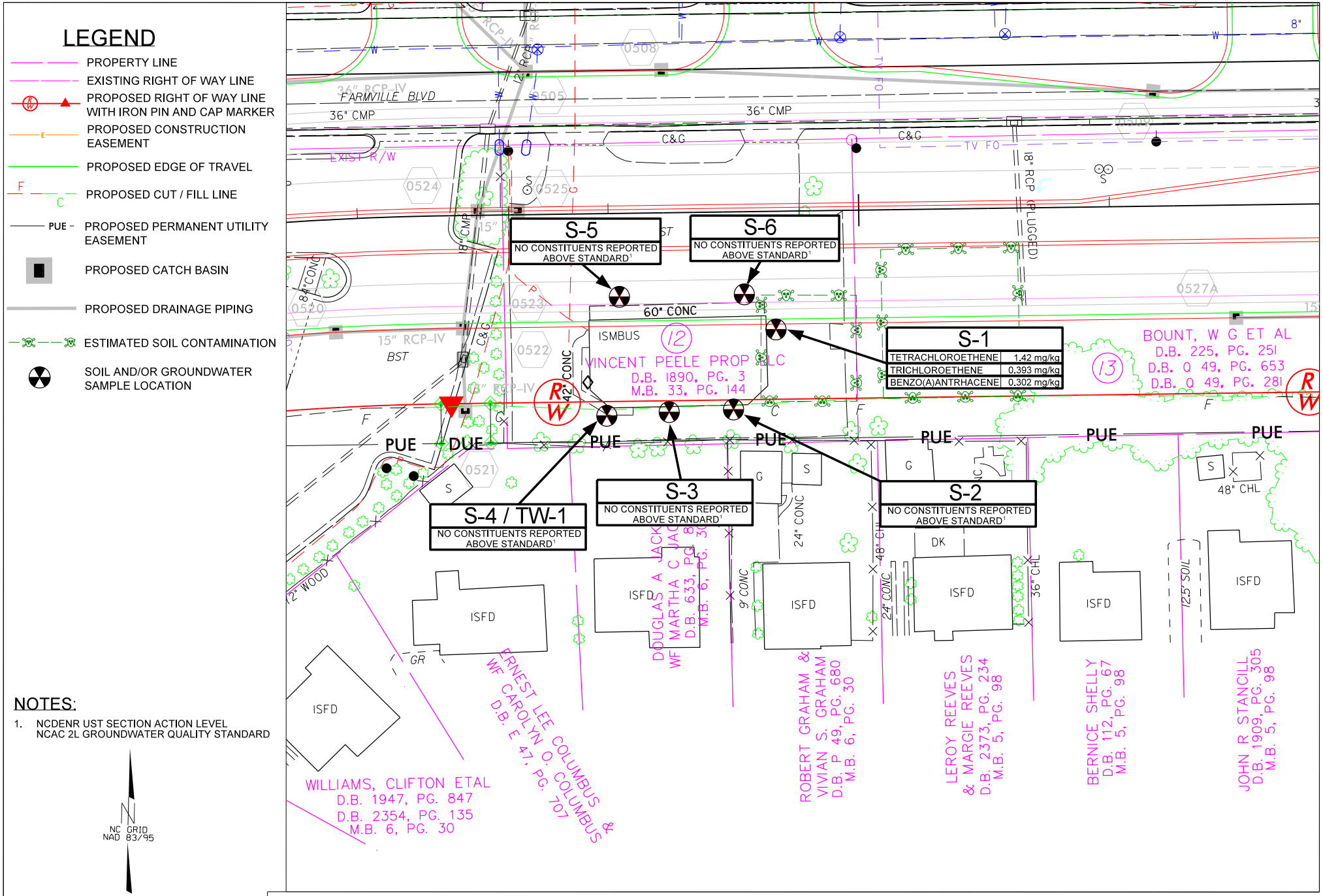
Site Vicinity Map
Parcel # 12
1699 Farmvile Boulevard
Greenville, Pitt County, North Carolina

Reference: Greenville SW, NC USGS Quadrangle

Dated Year: 1998

Terracon

PROJECT NO.:	70127335
DATE: 10/2/12	CONTOUR INT: 2 meters
DRAWN: MDP	CHECK: LCH
SCALE: NTS	



SCALE:	1:50
DATE:	FEBRUARY 2013
DRAWN BY:	MJA
APPROVED BY:	LCH / BWS
PROJ. REFERENCE NUMBER:	35781.1.2
TIP NUMBER:	U-3315
COUNTY:	PITT
TERRACON PROJECT:	70127335

Terracon
5240 GREEN'S DAIRY ROAD RALEIGH, NC 27616
PH. (919) 873-2211 FAX. (919) 873-9555

SITE DIAGRAM WITH SOIL BORING LOCATIONS AND ANALYTICAL DATA

VINCENT PEELE PROP LLC PROPERTY - PARCEL 12
-L- STATION 24+25
1699 FARMVILLE BOULEVARD
GREENVILLE, PITT COUNTY, NORTH CAROLINA

EXHIBIT 2

APPENDIX A

Boring Logs

SOIL BORING LOG

PROJECT NAME: Stantonsburg/Tenth Street Connector	SOIL BORING I.D.: B-1
PROJECT NO.: 70127335	DATE(S) DRILLED: August 29, 2012
PROJECT LOCATION: Parcel #12, 514 North Watauga Avenue Greenville, North Carolina	DRILLING CONTR.: Bridger Drilling Enterprises, Inc. DRILL METHOD: Geoprobe BORING DIAMETER: 2 inches
CLIENT: NCDOT Geoenvironmental	SAMPLING METHOD/INTERVAL: 5-Foot
LOGGED BY: Ben Swift	REMARKS: BGS = below grade surface

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	Odors	DEPTH (FT)	DESCRIPTION OF SOIL
0-2.5*		NA	11.00	No petroleum odors	0.0	Asphalt
					0.5	Black silty sand
					1.0	Orange, tan silty sand
					1.5	
					2.0	
2.5 - 5.0		NA	9.75		2.5	
					3.0	Orange, tan silty sand/moist
					3.5	
					4.0	
					4.5	
5.0 - 7.5		NA	7.92		5.0	Grey, tan silty sand/wet
					5.5	
					6.0	Water table at 6 feet bgs
					6.5	
					7.0	
7.5 - 10.0		NA	8.88		7.5	
					8.0	
					8.5	
					9.0	
					9.5	
					10.0	Boring terminated at 10.0 feet bgs
					10.5	
					11.0	
					11.5	
					12.0	
					12.5	
					13.0	
					13.5	
					14.0	
					14.5	
					15.0	
					15.5	
					16.0	
					16.5	
					17.0	
					17.5	
					18.0	
					18.5	
					19.0	
					19.5	
					20.0	
					20.5	
					21.0	
					21.5	

DRILLING METHODS
AR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE
GP - GEOPROBE

* - Sample collected for analysis
ND = <1 ppm

Terracon

SOIL BORING LOG

PROJECT NAME: Stantonsburg/Tenth Street Connector	SOIL BORING I.D.: B-2
PROJECT NO.: 70127335	DATE(S) DRILLED: August 29, 2012
PROJECT LOCATION: Parcel #12, 514 North Watauga Avenue Greenville, North Carolina	DRILLING CONTR.: Bridger Drilling Enterprises, Inc. DRILL METHOD: Geoprobe BORING DIAMETER: 2 inches
CLIENT: NCDOT Geoenvironmental	SAMPLING METHOD/INTERVAL: 5-Foot
LOGGED BY: Ben Swift	REMARKS: BGS = below grade surface

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	Odors	DEPTH (FT)	DESCRIPTION OF SOIL
0-2.5*		NA	14.56	Yes	0.0	Asphalt
					0.5	Black silty sand
					1.0	Orange, tan silty sand
					1.5	
					2.0	
2.5 - 5.0		NA	13.25	No odors	2.5	Orange, grey clayey silt/moist
					3.0	
					3.5	
					4.0	
					4.5	
5.0 - 7.5		NA	8.93		5.0	
					5.5	
					6.0	Grey, tan silty sand
					6.5	
					7.0	Tan, orange clayey silty sand
7.5 - 10.0		NA	11.60		7.5	
					8.0	
					8.5	
					9.0	
					9.5	
					10.0	Boring terminated at 10.0 feet bgs
					10.5	
					11.0	
					11.5	
					12.0	
					12.5	
					13.0	
					13.5	
					14.0	
					14.5	
					15.0	
					15.5	
					16.0	
					16.5	
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					18.0	
					18.5	
					19.0	
					19.5	
					20.0	
					20.5	
					21.0	
					21.5	

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SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE
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* - Sample collected for analysis
ND = <1 ppm

Terracon

SOIL BORING LOG

PROJECT NAME: Stantonsburg/Tenth Street Connector	SOIL BORING I.D.: B-3
PROJECT NO.: 70127335	DATE(S) DRILLED: August 29, 2012
PROJECT LOCATION: Parcel #12, 514 North Watauga Avenue Greenville, North Carolina	DRILLING CONTR.: Bridger Drilling Enterprises, Inc. DRILL METHOD: Geoprobe BORING DIAMETER: 2 inches
CLIENT: NCDOT Geoenvironmental	SAMPLING METHOD/INTERVAL: 5-Foot
LOGGED BY: Ben Swift	REMARKS: BGS = below grade surface

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	Odors	DEPTH (FT)	DESCRIPTION OF SOIL
0-2.5*		NA	13.05	Yes	0.0	Asphalt
					0.5	Black silty sand
					1.0	Tan, orange silty clay/moist
					1.5	
					2.0	
2.5 - 5.0		NA	8.40	No odors	2.5	
					3.0	
					3.5	
					4.0	
					4.5	
5.0 - 7.5		NA	7.20		5.0	Grey silty sand
					5.5	
					6.0	
					6.5	
					7.0	
7.5 - 10.0		NA	6.76		7.5	
					8.0	Tan, orange silty clay
					8.5	
					9.0	
					9.5	
					10.0	Boring terminated at 10.0 feet bgs
					10.5	
					11.0	
					11.5	
					12.0	
					12.5	
					13.0	
					13.5	
					14.0	
					14.5	
					15.0	
					15.5	
					16.0	
					16.5	
					17.0	
					17.5	
					18.0	
					18.5	
					19.0	
					19.5	
					20.0	
					20.5	
					21.0	
					21.5	

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SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE
GP - GEOPROBE

* - Sample collected for analysis
ND = <1 ppm

Terracon

SOIL BORING LOG

PROJECT NAME: Stantonsburg/Tenth Street Connector	SOIL BORING I.D.: B-4
PROJECT NO.: 70127335	DATE(S) DRILLED: August 29, 2012
PROJECT LOCATION: Parcel #12, 514 North Watauga Avenue Greenville, North Carolina	DRILLING CONTR.: Bridger Drilling Enterprises, Inc. DRILL METHOD: Geoprobe BORING DIAMETER: 2 inches
CLIENT: NCDOT Geoenvironmental	SAMPLING METHOD/INTERVAL: 5-Foot
LOGGED BY: Ben Swift	REMARKS: BGS = below grade surface

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	Odors	DEPTH (FT)	DESCRIPTION OF SOIL
0-2.5*		NA	8.69	Yes	0.0	Ashpalt
					0.5	Black silty sand
					1.0	
					1.5	Grey, tan silty clay
					2.0	
2.5 - 5.0		NA	9.08	No odors	2.5	
					3.0	
					3.5	
					4.0	
					4.5	
5.0 - 7.5		NA	7.45		5.0	
					5.5	
					6.0	Grey, tan sandy clay
					6.5	
					7.0	Grey, orange clay
7.5 - 10.0		NA	7.56		7.5	
					8.0	
					8.5	
					9.0	
					9.5	
10.0 - 12.5		NA	5.50		10.0	
					10.5	
					11.0	
					11.5	
					12.0	
12.5 - 15.0		NA	5.33		12.5	
					13.0	
					13.5	
					14.0	
					14.5	
					15.0	Boring terminated at 15.0 feet bgs
					15.5	
					16.0	
					16.5	
					17.0	
					17.5	
					18.0	
					18.5	
					19.0	
					19.5	
					20.0	
					20.5	
					21.0	
					21.5	

DRILLING METHODS
AR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE
GP - GEOPROBE

* - Sample collected for analysis
ND = <1 ppm

Terracon

SOIL BORING LOG

PROJECT NAME: Stantonsburg/Tenth Street Connector	SOIL BORING I.D.: B-5
PROJECT NO.: 70127335	DATE(S) DRILLED: August 29, 2012
PROJECT LOCATION: Parcel #12, 514 North Watauga Avenue Greenville, North Carolina	DRILLING CONTR.: Bridger Drilling Enterprises, Inc. DRILL METHOD: Geoprobe BORING DIAMETER: 2 inches
CLIENT: NCDOT Geoenvironmental	SAMPLING METHOD/INTERVAL: 5-Foot
LOGGED BY: Ben Swift	REMARKS: BGS = below grade surface

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	Odors	DEPTH (FT)	DESCRIPTION OF SOIL
0-2.5		NA	3.35	Yes	0.0	Asphalt
					0.5	Black silty sand
					1.0	
					1.5	Tan, grey silty clay/moist
					2.0	
2.5 - 5.0*		NA	3.43		2.5	
					3.0	
					3.5	
					4.0	Tan, orange clay
					4.5	
5.0 - 7.5		NA	NA	No odors	5.0	
					5.5	
					6.0	Orange, grey silty clay
					6.5	
					7.0	
7.5 - 10.0		NA	NA		7.5	
					8.0	Orange, grey clay
					8.5	
					9.0	
					9.5	
					10.0	Boring terminated at 10.0 feet bgs
					10.5	
					11.0	
					11.5	
					12.0	
					12.5	
					13.0	
					13.5	
					14.0	
					14.5	
					15.0	
					15.5	
					16.0	
					16.5	
					17.0	
					17.5	
					18.0	
					18.5	
					19.0	
					19.5	
					20.0	
					20.5	
					21.0	
					21.5	

DRILLING METHODS
AR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE
GP - GEOPROBE

* - Sample collected for analysis
ND = <1 ppm

Terracon

SOIL BORING LOG

PROJECT NAME: Stantonsburg/Tenth Street Connector	SOIL BORING I.D.: B-6
PROJECT NO.: 70127335	DATE(S) DRILLED: August 29, 2012
PROJECT LOCATION: Parcel #12, 514 North Watauga Avenue Greenville, North Carolina	DRILLING CONTR.: Bridger Drilling Enterprises, Inc. DRILL METHOD: Geoprobe BORING DIAMETER: 2 inches
CLIENT: NCDOT Geoenvironmental	SAMPLING METHOD/INTERVAL: 5-Foot
LOGGED BY: Ben Swift	REMARKS: BGS = below grade surface

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	Odors	DEPTH (FT)	DESCRIPTION OF SOIL
0-2.5		NA	3.32	Slight odor	0.0	Asphalt
					0.5	Tan silty sand
					1.0	
					1.5	
					2.0	Tan, orange clayey sand/moist
2.5 - 5.0*		NA	3.44	No odor	2.5	
					3.0	
					3.5	
					4.0	
					4.5	
5.0 - 7.5		NA	3.45		5.0	Grey, tan silty sand/wet
					5.5	
					6.0	
					6.5	
					7.0	Orange, grey clay/hard to stiff
7.5 - 10.0		NA	3.36		7.5	
					8.0	
					8.5	
					9.0	
					9.5	
10.0 - 12.5		NA	3.33		10.0	Grey, black clay/hard to stiff
					10.5	
					11.0	
					11.5	
					12.0	
					12.5	Boring terminated at 12.5 feet bgs
					13.0	
					13.5	
					14.0	
					14.5	
					15.0	
					15.5	
					16.0	
					16.5	
					17.0	
					17.5	
					18.0	
					18.5	
					19.0	
					19.5	
					20.0	
					20.5	
					21.0	
					21.5	

DRILLING METHODS
AR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
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SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE
GP - GEOPROBE

* - Sample collected for analysis
ND = <1 ppm

Terracon

APPENDIX B

Geophysical Survey Report

Pyramid Project # 2012212

GEOPHYSICAL INVESTIGATION REPORT

EM61 & GPR SURVEYS

VINCENT PEELE, LLC PROPERTY (PARCEL 12)
1699 Farmville Boulevard
Greenville, North Carolina

September 24, 2012

Report prepared for: **Lori C. Hoffman, PE**
Stephen J. Kerlin
Terracon
5240 Green's Dairy Road
Raleigh, North Carolina 27616

Prepared by: _____
Mark J. Denil, P.G.

PYRAMID ENVIRONMENTAL & ENGINEERING, P.C.
P.O. Box 16265
GREENSBORO, NC 27416-0265
(336) 335-3174

Terracon
GEOPHYSICAL INVESTIGATION REPORT
VINCENT PEELE, LLC PROPERTY (PARCEL 12)
1699 Farmville Boulevard
Greenville, North Carolina

TABLE OF CONTENTS PAGE

FIGURES

1.0 INTRODUCTION

Pyramid Environmental conducted a geophysical investigation for Terracon across the Vincent Peele LLC property (Parcel 12) located at 1699 Farmville Boulevard in Greenville, North Carolina. Conducted on August 15 and 21, 2012, the geophysical investigation was performed as part of the North Carolina Department of Transportation (NCDOT) preliminary site assessment for state project number U-3315 (WBS Element 35781.1.2) to determine if unknown, metallic, underground storage tanks (USTs) were present beneath the site.

The Vincent Peele LLC property consists of an active laundromat facility. The site consists of the laundromat building surrounded primarily by asphalt pavement. Farmville Boulevard runs along the northern perimeter of the property. The geophysical survey area has a maximum length and width of 153 feet and 125 feet, respectively.

Terracon representatives Mr. Stephen Kerlin and Ms. Lori Hoffman, PE provided information and maps identifying the geophysical survey area to Mark Denil, PG prior to conducting the investigation. Photographs of the geophysical equipment used in this investigation and the northern portion of the property are shown in **Figure 1**.

2.0 FIELD METHODOLOGY

Prior to conducting the geophysical investigation, a 10-foot by 20-foot survey grid was established across the geophysical survey (proposed ROW) area using measuring tapes, pin flags and water-based marking paint. These grid marks were used as X-Y coordinates for location control when collecting the geophysical data and establishing base maps for the geophysical results.

The geophysical investigation consisted of electromagnetic (EM) induction-metal detection surveys and ground penetrating radar (GPR) surveys. The EM survey was performed using a Geonics EM61-MK1 metal detection instrument. According to the instrument specifications, the EM61 can detect a metal drum down to a maximum depth of approximately 8 feet. Smaller objects (1-foot or less in

size) can be detected to a maximum depth of 4 to 5 feet. All of the EM61 data were digitally collected at approximately 0.8 foot intervals along northerly-southerly or easterly-westerly trending, parallel survey lines spaced five feet apart. All of the data were downloaded to a computer and reviewed in the field and office using the Geonics DAT61W and Surfer for Windows Version 7.0 software programs.

The GPR investigation was conducted across selected EM61 differential anomalies using a GSSI SIR-2000 unit equipped with a 400 MHz antenna. Data were digitally collected in a continuous mode along X-axis and/or Y-axis survey lines, spaced 2.5 to 5.0 feet apart using a vertical scan of 512 samples, at a rate of 48 scans per second. A 70 MHz high pass filter and an 800 MHz low pass filter were used during data acquisition with the 400 MHz antenna. GPR data were collected down to a maximum depth of approximately 5 feet, based on an estimated two-way travel time of 8 nanoseconds per foot.

Verbal, preliminary geophysical results obtained from the site were provided to Mr. Kerlin or Ms Hoffman during the week of August 27, 2012.

3.0 DISCUSSION OF RESULTS

Contour plots of the EM61 bottom coil and differential results are presented in **Figures 2 and 3**, respectively**.** The bottom coil results represent the most sensitive component of the EM61 instrument and detect metal objects regardless of size. The bottom coil response can be used to delineate metal conduits or utility lines, small, isolated metal objects, and areas containing insignificant metal debris. The differential results are obtained from the difference between the top and bottom coils of the EM61 instrument. The differential results focus on the larger metal objects such as drum and UST-size objects and ignore the smaller insignificant metal objects.

The linear, EM61 bottom coil anomalies intersecting grid coordinates X=18 Y=137 and X=100 Y=150 are probably in response to buried utility lines that run along or adjacent to the southern edge

of Farmville Boulevard. The linear, bottom coil anomaly intersecting grid coordinates X=75 Y=40 is probably in response to a buried metallic conduit.

GPR data suggest the high amplitude EM61 differential anomalies centered near grid coordinates X=27 Y=134 and X=138 Y=130 are in response to known surface objects such as a metal sign pole, dumpster and donation bin. GPR data also suggest that the EM61 differential anomalies recorded around portions of the building are in response to a metal sign, utility line-related boxes or meters and the building. GPR data suggest the small EM61 differential anomaly centered near grid coordinates X=129 Y=55 is in response to a buried, miscellaneous, metal object.

The remaining EM61 anomalies shown in Figures 2 and 3 are probably in response to known surface objects, conduits or to small, insignificant metal debris/objects. The geophysical investigation suggests that Parcel 12 does not contain metallic USTs within the surveyed portion of the site.

4.0 SUMMARY & CONCLUSIONS

Our evaluation of the EM61 and GPR data collected across the Vincent Peele LLC property (Parcel 12) located at 1699 Farmville Boulevard in Greenville, North Carolina, provides the following summary and conclusions:

- The EM61 and GPR surveys provided reliable results for the detection of metallic USTs within the surveyed portion of the site.

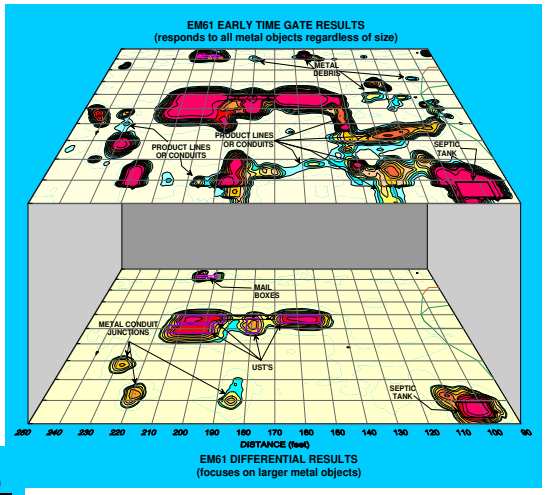
- The linear, EM61 bottom coil anomalies intersecting grid coordinates X=18 Y=137 and X=100 Y=150 are probably in response to buried utility lines that run along or adjacent to the southern edge of Farmville Boulevard.

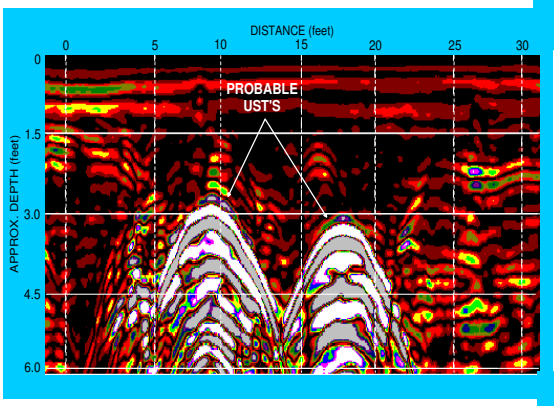
- GPR data suggest the high amplitude EM61 differential anomalies centered near grid coordinates X=27 Y=134 and X=138 Y=130 are in response to known surface objects such as a metal sign pole, dumpster and donation bin.

- The geophysical investigation suggests that Parcel 12 does not contain metallic USTs within the surveyed portion of the site.

5.0 LIMITATIONS

EM61 and GPR surveys have been performed and this report prepared for Terracon Consultants, Inc. in accordance with generally accepted guidelines for EM61 and GPR surveys. It is generally recognized that the results of the EM61 and GPR are non-unique and may not represent actual subsurface conditions. The EM61 and GPR results obtained for this project have not conclusively determined that the area of interest does not contain buried, metallic USTs, but that none were detected.

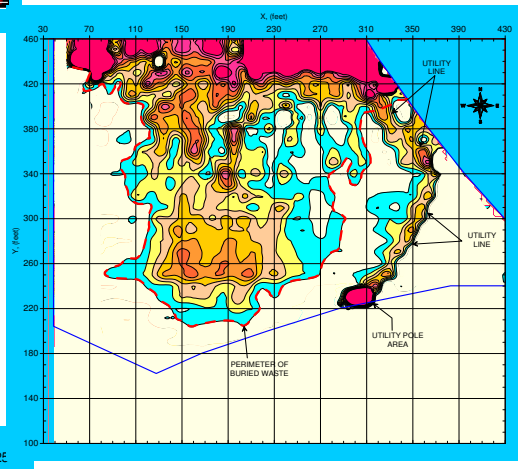


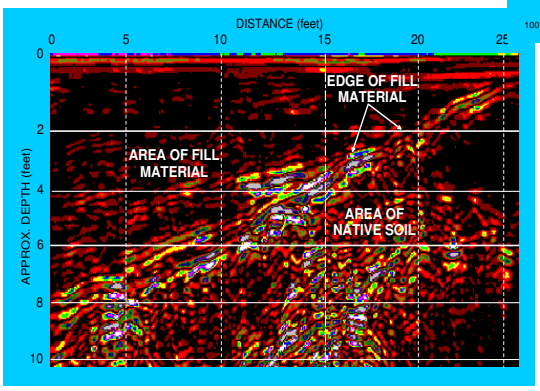


FIGURES

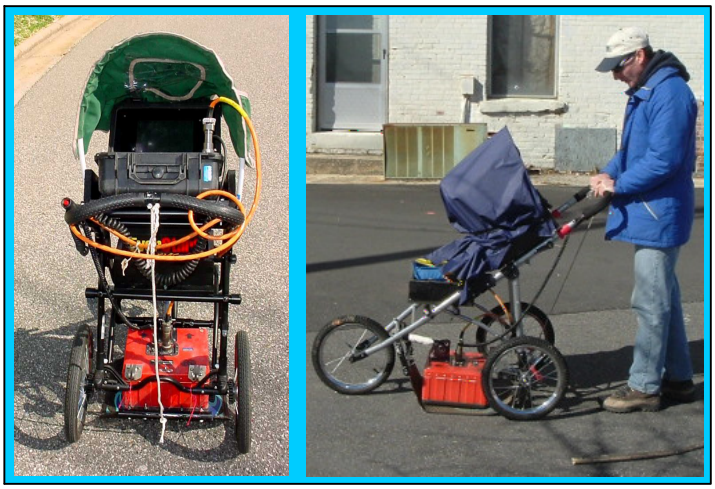
(on the following pages)

Figures shown on this page are for esthetic purposes only and are not related to the geophysical results discussed in this report.





The photograph shows the Geonics EM61 metal detector that was used to conduct the metal detection survey across the Vincent Peele, LLC property (Parcel 12) on August 15, 2012.



The photographs show the SIR-2000 GPR system equipped with a 400 MHz antenna that were used to conduct the ground penetrating radar investigation across selected EM61 differential anomalies at the Parcel 12 site on August 21, 2012.

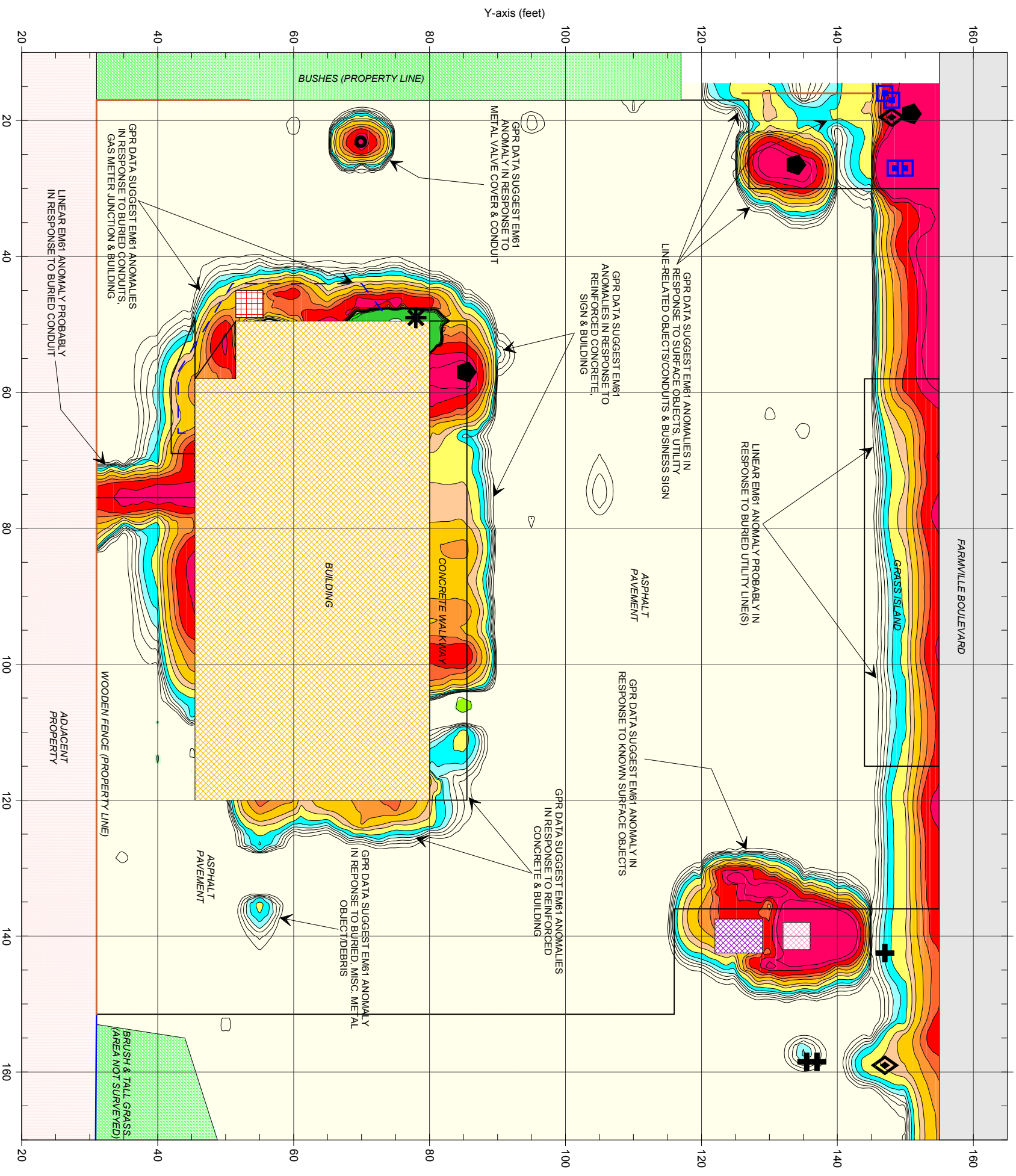
The photograph shows the Vinceet Peele LLC property (Parcel 12) located at 1699 Farmville Boulevard in Greenville, North Carolina. The photograph is viewed in a southerly direction.

PYRAMID
ENVIRONMENTAL & ENGINEERING, P.C.

CLIENT	TERRACON CONSULTANTS, INC.		DATE 09/24/12	DRWN MJD	
SITE	VINCENT PEELE, LLC PROPERTY (PARCEL 12)		LAY	CHKD	
CITY	GREENVILLE	STATE NORTH CAROLINA	DWG		
TITLE	GEOPHYSICAL RESULTS		J NO 2012-212	FIGURE	

GEOPHYSICAL EQUIPMENT & SITE PHOTOGRAPHS

FIGURE 1



The contour plot shows the bottom coil (most sensitive) response of the EM61 instrument in millivolts (mV). The bottom coil response shows buried metallic objects regardless of size. The EM61 survey was conducted on August 15, 2012 using a Geonics EM61 instrument. Ground penetrating radar (GPR) scans were conducted across areas containing steel reinforced concrete and selected EM61 anomalies on August 21, 2012 using a Geophysical Survey Systems SIR 2000 instrument with a 400 MHz antenna.

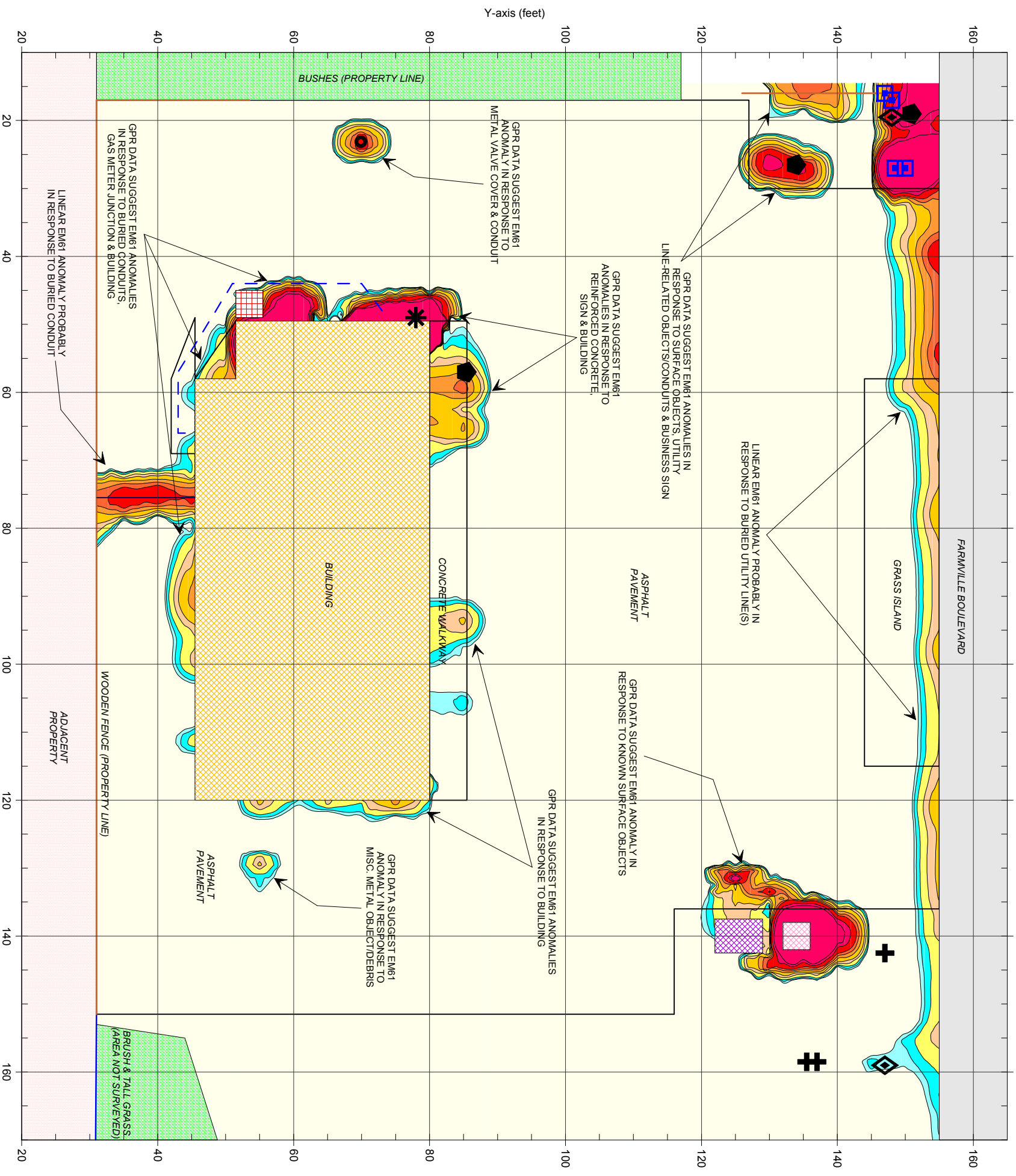
PYRAMID
ENVIRONMENTAL & ENGINEERING, P.C.

CLIENT	TERRACON CONSULTANTS, INC.	DATE	09/24/12	DRWN	MJD
SITE	VINCENT PEELE, LLC PROPERTY (PARCEL 12)	LAY		CHKD	
CITY	GREENVILLE	STATE	NORTH CAROLINA	DWG	
TITLE	GEOPHYSICAL RESULTS	J.N.O.	2012-212	FIGURE	

GRAPHIC SCALE IN FEET

EM61 METAL DETECTION
(BOTTOM COIL RESULTS)

FIGURE 2



Note: The contour plot shows the differential response between the bottom and top coils of the EM61 instrument in millivolts (mV). The differential response focuses on larger, buried metallic objects such as drums and USTs and ignores smaller miscellaneous, buried, metal debris. The EM61 survey was conducted on August 15, 2012 using a Geonics EM61 instrument. Ground penetrating radar (GPR) scans were conducted across areas containing steel reinforced concrete and selected EM61 anomalies on August 21, 2012 using a Geophysical Survey Systems SIR 2000 instrument with a 400 MHz antenna.

PYRAMID
ENVIRONMENTAL & ENGINEERING, P.C.

CLIENT	TERRACON CONSULTANTS, INC.	DATE	09/24/12	DRWN	MJD
SITE	VINCENT PEELE, LLC PROPERTY (PARCEL 12)	LAY		CHKD	
CITY	GREENVILLE	STATE	NORTH CAROLINA	DWG	
TITLE	GEOPHYSICAL RESULTS	J.N.O.	2012-212	FIGURE	

GRAPHIC SCALE IN FEET

EM61 METAL DETECTION
(DIFFERENTIAL RESULTS)

FIGURE 3

APPENDIX C

Laboratory Analytical Reports and Chain of Custody

Laboratory Report of Analysis

To: Steve Kerlin
Terracon
5240 Greens Dairy Rd
Raleigh, NC 27616

Report Number: **31202771**

Client Project: **70127335 U-3315 #12**

Dear Steve Kerlin,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or services performed during this project, please call Michael D. Page at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,
SGS North America Inc.

_____

Michael D. Page Date

Print Date: 09/10/2012 N.C. Certification # 481

Laboratory Qualifiers

Report Definitions

DL	Method, Instrument, or Estimated Detection Limit per Analytical Method
CL	Control Limits for the recovery result of a parameter
LOQ	Reporting Limit
DF	Dilution Factor
RPD	Relative Percent Difference
LCS(D)	Laboratory Control Spike (Duplicate)
MS(D)	Matrix Spike (Duplicate)
MB	Method Blank

Qualifier Definitions

*	Recovery or RPD outside of control limits
B	Analyte was detected in the Lab Method Blank at a level above the LOQ
U	Undetected (Reported as ND or < DL)
V	Recovery is below quality control limit. The data has been validated based on a favorable signal-to-noise and detection limit
A	Amount detected is less than the Lower Method Calibration Limit
J	Estimated Concentration.
O	The recovery of this analyte in the OPR is above the Method QC Limits and the reported concentration in the sample may be biased high
E	Amount detected is greater than the Upper Calibration Limit
S	The amount of analyte present has saturated the detector. This situation results in an underestimation of the affected analyte(s)
Q	Indicates the presence of a quantitative interference. This situation may result in an underestimation of the affected analyte(s)
I	Indicates the presence of a qualitative interference that could cause a false positive or an overestimation of the affected analyte(s)
DPE	Indicates the presence of a peak in the polychlorinated diphenylether channel that could cause a false positive or an overestimation of the affected analyte(s)
TIC	Tentatively Identified Compound
EMPC	Estimated Maximum possible Concentration due to ion ratio failure
ND	Not Detected
K	Result is estimated due to ion ratio failure in High Resolution PCB Analysis
P	RPD > 40% between results of dual columns
D	Spike or surrogate was diluted out in order to achieve a parameter result within instrument calibration range

Samples requiring manual integrations for various congeners and/or standards are marked and dated by the analyst. A code definition is provided below:

M1	Mis-identified peak

Note Results pages that include a value for "Solids (%)" have been adjusted for moisture content.

Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
S-1	31202771001	08/29/2012 09:20	08/30/2012 15:30	Soil-Solid as dry weight
S-2	31202771002	08/29/2012 10:15	08/30/2012 15:30	Soil-Solid as dry weight
S-3	31202771003	08/29/2012 10:25	08/30/2012 15:30	Soil-Solid as dry weight
S-4	31202771004	08/29/2012 10:30	08/30/2012 15:30	Soil-Solid as dry weight
S-5	31202771005	08/29/2012 10:46	08/30/2012 15:30	Soil-Solid as dry weight
S-6	31202771006	08/29/2012 11:51	08/30/2012 15:30	Soil-Solid as dry weight
TW-1	31202771007	08/29/2012 11:58	08/30/2012 15:30	Water

Results of **S-1**

Client Sample ID: **S-1**
Client Project ID: **70127335 U-3315 #12**
Lab Sample ID: 31202771001-D
Lab Project ID: 31202771

Collection Date: 08/29/2012 09:20
Received Date: 08/30/2012 15:30
Matrix: Soil-Solid as dry weight
Solids (%): 88.90

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	4.35	41.8	ug/Kg	50	09/5/2012 15:13
1,1,1-Trichloroethane	ND	U	5.15	41.8	ug/Kg	50	09/5/2012 15:13
1,1,2,2-Tetrachloroethane	ND	U	6.53	41.8	ug/Kg	50	09/5/2012 15:13
1,1,2-Trichloroethane	ND	U	5.27	41.8	ug/Kg	50	09/5/2012 15:13
1,1-Dichloroethane	ND	U	6.90	41.8	ug/Kg	50	09/5/2012 15:13
1,1-Dichloroethene	ND	U	8.87	41.8	ug/Kg	50	09/5/2012 15:13
1,1-Dichloropropene	ND	U	3.61	41.8	ug/Kg	50	09/5/2012 15:13
1,2,3-Trichlorobenzene	ND	U	4.60	41.8	ug/Kg	50	09/5/2012 15:13
1,2,3-Trichloropropane	ND	U	8.87	41.8	ug/Kg	50	09/5/2012 15:13
1,2,4-Trichlorobenzene	ND	U	3.82	41.8	ug/Kg	50	09/5/2012 15:13
1,2,4-Trimethylbenzene	ND	U	4.02	41.8	ug/Kg	50	09/5/2012 15:13
1,2-Dibromo-3-chloropropane	ND	U	31.3	209	ug/Kg	50	09/5/2012 15:13
1,2-Dibromoethane	ND	U	5.02	41.8	ug/Kg	50	09/5/2012 15:13
1,2-Dichlorobenzene	ND	U	5.73	41.8	ug/Kg	50	09/5/2012 15:13
1,2-Dichloroethane	ND	U	6.99	41.8	ug/Kg	50	09/5/2012 15:13
1,2-Dichloropropane	ND	U	6.82	41.8	ug/Kg	50	09/5/2012 15:13
1,3,5-Trimethylbenzene	ND	U	4.73	41.8	ug/Kg	50	09/5/2012 15:13
1,3-Dichlorobenzene	ND	U	4.31	41.8	ug/Kg	50	09/5/2012 15:13
1,3-Dichloropropane	ND	U	5.44	41.8	ug/Kg	50	09/5/2012 15:13
1,4-Dichlorobenzene	ND	U	5.44	41.8	ug/Kg	50	09/5/2012 15:13
2,2-Dichloropropane	ND	U	16.4	41.8	ug/Kg	50	09/5/2012 15:13
2-Butanone	ND	U	30.2	1050	ug/Kg	50	09/5/2012 15:13
2-Chlorotoluene	ND	U	4.73	41.8	ug/Kg	50	09/5/2012 15:13
2-Hexanone	ND	U	30.5	209	ug/Kg	50	09/5/2012 15:13
4-Chlorotoluene	ND	U	5.23	41.8	ug/Kg	50	09/5/2012 15:13
4-Isopropyltoluene	ND	U	3.22	41.8	ug/Kg	50	09/5/2012 15:13
4-Methyl-2-pentanone	ND	U	23.3	209	ug/Kg	50	09/5/2012 15:13
Acetone	ND	U	36.1	1050	ug/Kg	50	09/5/2012 15:13
Benzene	ND	U	4.73	41.8	ug/Kg	50	09/5/2012 15:13
Bromobenzene	ND	U	4.60	41.8	ug/Kg	50	09/5/2012 15:13
Bromochloromethane	ND	U	8.83	41.8	ug/Kg	50	09/5/2012 15:13
Bromodichloromethane	ND	U	4.60	41.8	ug/Kg	50	09/5/2012 15:13
Bromoform	ND	U	4.07	41.8	ug/Kg	50	09/5/2012 15:13
Bromomethane	ND	U	9.91	41.8	ug/Kg	50	09/5/2012 15:13
n-Butylbenzene	ND	U	3.22	41.8	ug/Kg	50	09/5/2012 15:13
Carbon disulfide	ND	U	4.43	41.8	ug/Kg	50	09/5/2012 15:13
Carbon tetrachloride	ND	U	4.23	41.8	ug/Kg	50	09/5/2012 15:13
Chlorobenzene	ND	U	4.85	41.8	ug/Kg	50	09/5/2012 15:13
Chloroethane	ND	U	13.0	41.8	ug/Kg	50	09/5/2012 15:13
Chloroform	ND	U	5.82	41.8	ug/Kg	50	09/5/2012 15:13
Chloromethane	ND	U	18.7	41.8	ug/Kg	50	09/5/2012 15:13
Dibromochloromethane	ND	U	5.61	41.8	ug/Kg	50	09/5/2012 15:13
Dibromomethane	ND	U	7.03	41.8	ug/Kg	50	09/5/2012 15:13

Print Date: 09/10/2012

N.C. Certification # 481

Results of **S-1**

Client Sample ID: **S-1**
Client Project ID: **70127335 U-3315 #12**
Lab Sample ID: 31202771001-D
Lab Project ID: 31202771

Collection Date: 08/29/2012 09:20
Received Date: 08/30/2012 15:30
Matrix: Soil-Solid as dry weight
Solids (%): 88.90

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	7.15	209	ug/Kg	50	09/5/2012 15:13
cis-1,3-Dichloropropene	ND	U	3.21	41.8	ug/Kg	50	09/5/2012 15:13
trans-1,3-Dichloropropene	ND	U	3.61	41.8	ug/Kg	50	09/5/2012 15:13
Diisopropyl Ether	ND	U	12.3	41.8	ug/Kg	50	09/5/2012 15:13
Ethyl Benzene	ND	U	3.67	41.8	ug/Kg	50	09/5/2012 15:13
Hexachlorobutadiene	ND	U	3.31	41.8	ug/Kg	50	09/5/2012 15:13
Isopropylbenzene (Cumene)	ND	U	3.64	41.8	ug/Kg	50	09/5/2012 15:13
Methyl iodide	ND	U	4.81	41.8	ug/Kg	50	09/5/2012 15:13
Methylene chloride	ND	U	6.36	209	ug/Kg	50	09/5/2012 15:13
Naphthalene	ND	U	3.58	41.8	ug/Kg	50	09/5/2012 15:13
Styrene	ND	U	4.27	41.8	ug/Kg	50	09/5/2012 15:13
Tetrachloroethene	**1420**		6.48	41.8	ug/Kg	50	09/5/2012 15:13
Toluene	ND	U	5.56	41.8	ug/Kg	50	09/5/2012 15:13
Trichloroethene	**39.3**	J	5.23	41.8	ug/Kg	50	09/5/2012 15:13
Trichlorofluoromethane	ND	U	5.73	41.8	ug/Kg	50	09/5/2012 15:13
Vinyl chloride	ND	U	5.19	41.8	ug/Kg	50	09/5/2012 15:13
Xylene (total)	ND	U	7.61	83.7	ug/Kg	50	09/5/2012 15:13
cis-1,2-Dichloroethene	**31.8**	J	5.69	41.8	ug/Kg	50	09/5/2012 15:13
m,p-Xylene	ND	U	7.61	83.7	ug/Kg	50	09/5/2012 15:13
n-Propylbenzene	ND	U	4.73	41.8	ug/Kg	50	09/5/2012 15:13
o-Xylene	ND	U	3.66	41.8	ug/Kg	50	09/5/2012 15:13
sec-Butylbenzene	ND	U	4.69	41.8	ug/Kg	50	09/5/2012 15:13
tert-Butyl methyl ether (MTBE)	ND	U	6.02	41.8	ug/Kg	50	09/5/2012 15:13
tert-Butylbenzene	ND	U	3.58	41.8	ug/Kg	50	09/5/2012 15:13
trans-1,2-Dichloroethene	ND	U	9.33	41.8	ug/Kg	50	09/5/2012 15:13
trans-1,4-Dichloro-2-butene	ND	U	17.3	209	ug/Kg	50	09/5/2012 15:13
Surrogates							
1,2-Dichloroethane-d4	105			55.0-173	%	50	09/5/2012 15:13
4-Bromofluorobenzene	102			23.0-141	%	50	09/5/2012 15:13
Toluene d8	90.0			57.0-134	%	50	09/5/2012 15:13

Batch Information

Analytical Batch: **VMS2528**
Analytical Method: **SW-846 8260B**
Instrument: **MSD8**
Analyst: **BWS**

Prep Batch: **VXX3953**
Prep Method: **SW-846 5035 SM**
Prep Date/Time: **08/30/2012 16:37**
Prep Initial Wt./Vol.: **6.72 g**
Prep Extract Vol: **5 mL**

Print Date: 09/10/2012

N.C. Certification # 481

Results of **S-1**

Client Sample ID: **S-1**
Client Project ID: **70127335 U-3315 #12**
Lab Sample ID: 31202771001-E
Lab Project ID: 31202771

Collection Date: 08/29/2012 09:20
Received Date: 08/30/2012 15:30
Matrix: Soil-Solid as dry weight
Solids (%): 88.90

Results by **SW-846 8270D**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,2,4-Trichlorobenzene	ND	U	29.7	337	ug/Kg	1	08/31/2012 16:38
1,2-Dichlorobenzene	ND	U	16.8	337	ug/Kg	1	08/31/2012 16:38
1,3-Dichlorobenzene	ND	U	22.7	337	ug/Kg	1	08/31/2012 16:38
1,4-Dichlorobenzene	ND	U	23.8	337	ug/Kg	1	08/31/2012 16:38
2,4,5-Trichlorophenol	ND	U	22.5	337	ug/Kg	1	08/31/2012 16:38
2,4,6-Trichlorophenol	ND	U	22.8	337	ug/Kg	1	08/31/2012 16:38
2,4-Dichlorophenol	ND	U	19.5	337	ug/Kg	1	08/31/2012 16:38
2,4-Dinitrophenol	ND	U	31.2	672	ug/Kg	1	08/31/2012 16:38
2,4-Dinitrotoluene	ND	U	17.0	337	ug/Kg	1	08/31/2012 16:38
2,6-Dinitrotoluene	ND	U	24.1	337	ug/Kg	1	08/31/2012 16:38
2-Chloronaphthalene	ND	U	19.8	337	ug/Kg	1	08/31/2012 16:38
2-Chlorophenol	ND	U	17.9	337	ug/Kg	1	08/31/2012 16:38
2-Methylnaphthalene	ND	U	27.2	337	ug/Kg	1	08/31/2012 16:38
2-Methylphenol	ND	U	18.6	337	ug/Kg	1	08/31/2012 16:38
2-Nitroaniline	ND	U	22.2	337	ug/Kg	1	08/31/2012 16:38
2-Nitrophenol	ND	U	16.1	337	ug/Kg	1	08/31/2012 16:38
3 and/or 4-Methylphenol	ND	U	21.8	337	ug/Kg	1	08/31/2012 16:38
3,3'-Dichlorobenzidine	ND	U	16.1	337	ug/Kg	1	08/31/2012 16:38
3-Nitroaniline	ND	U	15.2	337	ug/Kg	1	08/31/2012 16:38
4,6-Dinitro-2-methylphenol	ND	U	15.8	337	ug/Kg	1	08/31/2012 16:38
4-Chloro-3-methylphenol	ND	U	16.8	337	ug/Kg	1	08/31/2012 16:38
4-Chloroaniline	ND	U	26.9	337	ug/Kg	1	08/31/2012 16:38
4-Chlorophenyl phenyl ether	ND	U	35.9	337	ug/Kg	1	08/31/2012 16:38
Acenaphthene	ND	U	15.3	337	ug/Kg	1	08/31/2012 16:38
Acenaphthylene	ND	U	14.2	337	ug/Kg	1	08/31/2012 16:38
Anthracene	ND	U	15.0	337	ug/Kg	1	08/31/2012 16:38
Benzo(a)anthracene	**30.2**	J	18.5	337	ug/Kg	1	08/31/2012 16:38
Benzo(a)pyrene	**33.6**	J	19.0	337	ug/Kg	1	08/31/2012 16:38
Benzo(b)fluoranthene	**50.4**	J	19.4	337	ug/Kg	1	08/31/2012 16:38
Benzo(g,h,i)perylene	ND	U	53.6	337	ug/Kg	1	08/31/2012 16:38
Benzo(k)fluoranthene	ND	U	40.3	337	ug/Kg	1	08/31/2012 16:38
Benzoic acid	ND	U	7.47	337	ug/Kg	1	08/31/2012 16:38
Bis(2-Chloroethoxy)methane	ND	U	15.2	337	ug/Kg	1	08/31/2012 16:38
Bis(2-Chloroethyl)ether	ND	U	31.4	337	ug/Kg	1	08/31/2012 16:38
Bis(2-Chloroisopropyl)ether	ND	U	29.4	337	ug/Kg	1	08/31/2012 16:38
Bis(2-Ethylhexyl)phthalate	**50.4**	J	16.1	337	ug/Kg	1	08/31/2012 16:38
4-Bromophenyl phenyl ether	ND	U	22.2	337	ug/Kg	1	08/31/2012 16:38
Butyl benzyl phthalate	ND	U	29.3	337	ug/Kg	1	08/31/2012 16:38
Chrysene	**53.7**	J	39.2	337	ug/Kg	1	08/31/2012 16:38
Di-n-butyl phthalate	ND	U	15.9	337	ug/Kg	1	08/31/2012 16:38
Di-n-octyl phthalate	ND	U	18.6	337	ug/Kg	1	08/31/2012 16:38
Dibenz(a,h)anthracene	ND	U	15.2	337	ug/Kg	1	08/31/2012 16:38
Dibenzofuran	ND	U	26.4	337	ug/Kg	1	08/31/2012 16:38

Print Date: 09/10/2012

N.C. Certification # 481

Results of **S-1**

Client Sample ID: **S-1**
Client Project ID: **70127335 U-3315 #12**
Lab Sample ID: 31202771001-E
Lab Project ID: 31202771

Collection Date: 08/29/2012 09:20
Received Date: 08/30/2012 15:30
Matrix: Soil-Solid as dry weight
Solids (%): 88.90

Results by **SW-846 8270D**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Diethyl phthalate	ND	U	18.2	337	ug/Kg	1	08/31/2012 16:38
Dimethyl phthalate	ND	U	25.8	337	ug/Kg	1	08/31/2012 16:38
2,4-Dimethylphenol	ND	U	24.6	337	ug/Kg	1	08/31/2012 16:38
Diphenylamine	ND	U	15.2	337	ug/Kg	1	08/31/2012 16:38
Fluoranthene	**134**	J	31.6	337	ug/Kg	1	08/31/2012 16:38
Fluorene	ND	U	17.9	337	ug/Kg	1	08/31/2012 16:38
Hexachlorobenzene	ND	U	31.8	337	ug/Kg	1	08/31/2012 16:38
Hexachlorobutadiene	ND	U	20.1	337	ug/Kg	1	08/31/2012 16:38
Hexachlorocyclopentadiene	ND	U	102	337	ug/Kg	1	08/31/2012 16:38
Hexachloroethane	ND	U	19.4	337	ug/Kg	1	08/31/2012 16:38
Indeno(1,2,3-cd)pyrene	ND	U	26.2	337	ug/Kg	1	08/31/2012 16:38
Isophorone	ND	U	15.3	337	ug/Kg	1	08/31/2012 16:38
Naphthalene	ND	U	29.0	337	ug/Kg	1	08/31/2012 16:38
4-Nitroaniline	ND	U	19.4	337	ug/Kg	1	08/31/2012 16:38
Nitrobenzene	ND	U	19.4	337	ug/Kg	1	08/31/2012 16:38
4-Nitrophenol	ND	U	33.1	337	ug/Kg	1	08/31/2012 16:38
Pentachlorophenol	ND	U	26.9	337	ug/Kg	1	08/31/2012 16:38
Phenanthrene	**73.9**	J	22.2	337	ug/Kg	1	08/31/2012 16:38
Phenol	ND	U	31.4	337	ug/Kg	1	08/31/2012 16:38
Pyrene	**111**	J	14.2	337	ug/Kg	1	08/31/2012 16:38
n-Nitrosodi-n-propylamine	ND	U	96.4	337	ug/Kg	1	08/31/2012 16:38
Surrogates							
2,4,6-Tribromophenol	98.0			41.0-129	%	1	08/31/2012 16:38
2-Fluorobiphenyl	98.0			48.0-123	%	1	08/31/2012 16:38
2-Fluorophenol	84.0			42.0-123	%	1	08/31/2012 16:38
Nitrobenzene-d5	98.0			46.0-117	%	1	08/31/2012 16:38
Phenol-d6	96.0			48.0-125	%	1	08/31/2012 16:38
Terphenyl-d14	101			44.0-140	%	1	08/31/2012 16:38

Batch Information

Analytical Batch: **XMS1656**
Analytical Method: **SW-846 8270D**
Instrument: **MSD10**
Analyst: **CMP**

Prep Batch: **XXX3001**
Prep Method: **SW-846 3541**
Prep Date/Time: **08/31/2012 09:05**
Prep Initial Wt./Vol.: **33.45 g**
Prep Extract Vol: **10 mL**

Print Date: 09/10/2012

N.C. Certification # 481

Results of **S-2**

Client Sample ID: **S-2**
Client Project ID: **70127335 U-3315 #12**
Lab Sample ID: 31202771002-A
Lab Project ID: 31202771

Collection Date: 08/29/2012 10:15
Received Date: 08/30/2012 15:30
Matrix: Soil-Solid as dry weight
Solids (%): 86.90

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	0.573	4.04	ug/Kg	1	09/4/2012 17:39
1,1,1-Trichloroethane	ND	U	0.610	4.04	ug/Kg	1	09/4/2012 17:39
1,1,2,2-Tetrachloroethane	ND	U	0.946	4.04	ug/Kg	1	09/4/2012 17:39
1,1,2-Trichloroethane	ND	U	0.841	4.04	ug/Kg	1	09/4/2012 17:39
1,1-Dichloroethane	ND	U	0.435	4.04	ug/Kg	1	09/4/2012 17:39
1,1-Dichloroethene	ND	U	0.938	4.04	ug/Kg	1	09/4/2012 17:39
1,1-Dichloropropene	ND	U	0.546	4.04	ug/Kg	1	09/4/2012 17:39
1,2,3-Trichlorobenzene	ND	U	0.673	4.04	ug/Kg	1	09/4/2012 17:39
1,2,3-Trichloropropane	ND	U	0.833	4.04	ug/Kg	1	09/4/2012 17:39
1,2,4-Trichlorobenzene	ND	U	0.589	4.04	ug/Kg	1	09/4/2012 17:39
1,2,4-Trimethylbenzene	ND	U	0.515	4.04	ug/Kg	1	09/4/2012 17:39
1,2-Dibromo-3-chloropropane	ND	U	5.99	24.3	ug/Kg	1	09/4/2012 17:39
1,2-Dibromoethane	ND	U	1.06	4.04	ug/Kg	1	09/4/2012 17:39
1,2-Dichlorobenzene	ND	U	0.575	4.04	ug/Kg	1	09/4/2012 17:39
1,2-Dichloroethane	ND	U	0.738	4.04	ug/Kg	1	09/4/2012 17:39
1,2-Dichloropropane	ND	U	0.930	4.04	ug/Kg	1	09/4/2012 17:39
1,3,5-Trimethylbenzene	ND	U	0.492	4.04	ug/Kg	1	09/4/2012 17:39
1,3-Dichlorobenzene	ND	U	0.581	4.04	ug/Kg	1	09/4/2012 17:39
1,3-Dichloropropane	ND	U	0.711	4.04	ug/Kg	1	09/4/2012 17:39
1,4-Dichlorobenzene	ND	U	0.546	4.04	ug/Kg	1	09/4/2012 17:39
2,2-Dichloropropane	ND	U	0.597	4.04	ug/Kg	1	09/4/2012 17:39
2-Butanone	**12.5**	J	2.73	20.2	ug/Kg	1	09/4/2012 17:39
2-Chlorotoluene	ND	U	0.757	4.04	ug/Kg	1	09/4/2012 17:39
2-Hexanone	ND	U	2.60	10.1	ug/Kg	1	09/4/2012 17:39
4-Chlorotoluene	ND	U	0.611	4.04	ug/Kg	1	09/4/2012 17:39
4-Isopropyltoluene	ND	U	0.521	4.04	ug/Kg	1	09/4/2012 17:39
4-Methyl-2-pentanone	ND	U	3.02	10.1	ug/Kg	1	09/4/2012 17:39
Acetone	**84.0**		3.24	40.4	ug/Kg	1	09/4/2012 17:39
Benzene	ND	U	0.575	4.04	ug/Kg	1	09/4/2012 17:39
Bromobenzene	ND	U	0.563	4.04	ug/Kg	1	09/4/2012 17:39
Bromochloromethane	ND	U	0.760	4.04	ug/Kg	1	09/4/2012 17:39
Bromodichloromethane	ND	U	0.569	4.04	ug/Kg	1	09/4/2012 17:39
Bromoform	ND	U	0.585	4.04	ug/Kg	1	09/4/2012 17:39
Bromomethane	ND	U	1.17	4.04	ug/Kg	1	09/4/2012 17:39
n-Butylbenzene	ND	U	0.531	4.04	ug/Kg	1	09/4/2012 17:39
Carbon disulfide	**1.27**	J	0.423	4.04	ug/Kg	1	09/4/2012 17:39
Carbon tetrachloride	ND	U	0.460	4.04	ug/Kg	1	09/4/2012 17:39
Chlorobenzene	ND	U	0.564	4.04	ug/Kg	1	09/4/2012 17:39
Chloroethane	ND	U	0.808	4.04	ug/Kg	1	09/4/2012 17:39
Chloroform	ND	U	0.515	4.04	ug/Kg	1	09/4/2012 17:39
Chloromethane	ND	U	1.16	4.04	ug/Kg	1	09/4/2012 17:39
Dibromochloromethane	ND	U	0.897	4.04	ug/Kg	1	09/4/2012 17:39
Dibromomethane	ND	U	0.713	4.04	ug/Kg	1	09/4/2012 17:39

Print Date: 09/10/2012

N.C. Certification # 481

Results of **S-2**

Client Sample ID: **S-2**
Client Project ID: **70127335 U-3315 #12**
Lab Sample ID: 31202771002-A
Lab Project ID: 31202771

Collection Date: 08/29/2012 10:15
Received Date: 08/30/2012 15:30
Matrix: Soil-Solid as dry weight
Solids (%): 86.90

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	0.849	4.04	ug/Kg	1	09/4/2012 17:39
cis-1,3-Dichloropropene	ND	U	0.833	4.04	ug/Kg	1	09/4/2012 17:39
trans-1,3-Dichloropropene	ND	U	0.763	4.04	ug/Kg	1	09/4/2012 17:39
Diisopropyl Ether	ND	U	0.664	4.04	ug/Kg	1	09/4/2012 17:39
Ethyl Benzene	ND	U	0.570	4.04	ug/Kg	1	09/4/2012 17:39
Hexachlorobutadiene	ND	U	0.555	4.04	ug/Kg	1	09/4/2012 17:39
Isopropylbenzene (Cumene)	ND	U	0.503	4.04	ug/Kg	1	09/4/2012 17:39
Methyl iodide	ND	U	0.619	4.04	ug/Kg	1	09/4/2012 17:39
Methylene chloride	ND	U	0.849	16.2	ug/Kg	1	09/4/2012 17:39
Naphthalene	ND	U	0.735	4.04	ug/Kg	1	09/4/2012 17:39
Styrene	ND	U	0.466	4.04	ug/Kg	1	09/4/2012 17:39
Tetrachloroethene	ND	U	0.607	4.04	ug/Kg	1	09/4/2012 17:39
Toluene	**0.946**	J	0.556	4.04	ug/Kg	1	09/4/2012 17:39
Trichloroethene	ND	U	0.681	4.04	ug/Kg	1	09/4/2012 17:39
Trichlorofluoromethane	ND	U	0.816	4.04	ug/Kg	1	09/4/2012 17:39
Vinyl chloride	ND	U	0.768	4.04	ug/Kg	1	09/4/2012 17:39
Xylene (total)	ND	U	1.43	8.08	ug/Kg	1	09/4/2012 17:39
cis-1,2-Dichloroethene	ND	U	0.494	4.04	ug/Kg	1	09/4/2012 17:39
m,p-Xylene	ND	U	1.37	8.08	ug/Kg	1	09/4/2012 17:39
n-Propylbenzene	ND	U	0.592	4.04	ug/Kg	1	09/4/2012 17:39
o-Xylene	ND	U	0.619	4.04	ug/Kg	1	09/4/2012 17:39
sec-Butylbenzene	ND	U	0.485	4.04	ug/Kg	1	09/4/2012 17:39
tert-Butyl methyl ether (MTBE)	ND	U	0.643	4.04	ug/Kg	1	09/4/2012 17:39
tert-Butylbenzene	ND	U	0.544	4.04	ug/Kg	1	09/4/2012 17:39
trans-1,2-Dichloroethene	ND	U	0.590	4.04	ug/Kg	1	09/4/2012 17:39
trans-1,4-Dichloro-2-butene	ND	U	3.40	20.2	ug/Kg	1	09/4/2012 17:39
Surrogates							
1,2-Dichloroethane-d4	114			55.0-173	%	1	09/4/2012 17:39
4-Bromofluorobenzene	88.0			23.0-141	%	1	09/4/2012 17:39
Toluene d8	99.0			57.0-134	%	1	09/4/2012 17:39

Batch Information

Analytical Batch: **VMS2523**
Analytical Method: **SW-846 8260B**
Instrument: **MSD9**
Analyst: **DVO**

Prep Batch: **VXX3945**
Prep Method: **SW-846 5035 SL**
Prep Date/Time: **08/30/2012 16:38**
Prep Initial Wt./Vol.: **7.12 g**
Prep Extract Vol: **5 mL**

Print Date: 09/10/2012

N.C. Certification # 481

Results of **S-2**

Client Sample ID: **S-2**
Client Project ID: **70127335 U-3315 #12**
Lab Sample ID: 31202771002-E
Lab Project ID: 31202771

Collection Date: 08/29/2012 10:15
Received Date: 08/30/2012 15:30
Matrix: Soil-Solid as dry weight
Solids (%): 86.90

Results by **SW-846 8270D**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,2,4-Trichlorobenzene	ND	U	30.7	348	ug/Kg	1	08/31/2012 17:46
1,2-Dichlorobenzene	ND	U	17.3	348	ug/Kg	1	08/31/2012 17:46
1,3-Dichlorobenzene	ND	U	23.4	348	ug/Kg	1	08/31/2012 17:46
1,4-Dichlorobenzene	ND	U	24.6	348	ug/Kg	1	08/31/2012 17:46
2,4,5-Trichlorophenol	ND	U	23.2	348	ug/Kg	1	08/31/2012 17:46
2,4,6-Trichlorophenol	ND	U	23.6	348	ug/Kg	1	08/31/2012 17:46
2,4-Dichlorophenol	ND	U	20.1	348	ug/Kg	1	08/31/2012 17:46
2,4-Dinitrophenol	ND	U	32.2	695	ug/Kg	1	08/31/2012 17:46
2,4-Dinitrotoluene	ND	U	17.6	348	ug/Kg	1	08/31/2012 17:46
2,6-Dinitrotoluene	ND	U	24.9	348	ug/Kg	1	08/31/2012 17:46
2-Chloronaphthalene	ND	U	20.4	348	ug/Kg	1	08/31/2012 17:46
2-Chlorophenol	ND	U	18.4	348	ug/Kg	1	08/31/2012 17:46
2-Methylnaphthalene	ND	U	28.1	348	ug/Kg	1	08/31/2012 17:46
2-Methylphenol	ND	U	19.2	348	ug/Kg	1	08/31/2012 17:46
2-Nitroaniline	ND	U	22.9	348	ug/Kg	1	08/31/2012 17:46
2-Nitrophenol	ND	U	16.7	348	ug/Kg	1	08/31/2012 17:46
3 and/or 4-Methylphenol	ND	U	22.6	348	ug/Kg	1	08/31/2012 17:46
3,3'-Dichlorobenzidine	ND	U	16.7	348	ug/Kg	1	08/31/2012 17:46
3-Nitroaniline	ND	U	15.7	348	ug/Kg	1	08/31/2012 17:46
4,6-Dinitro-2-methylphenol	ND	U	16.3	348	ug/Kg	1	08/31/2012 17:46
4-Chloro-3-methylphenol	ND	U	17.3	348	ug/Kg	1	08/31/2012 17:46
4-Chloroaniline	ND	U	27.8	348	ug/Kg	1	08/31/2012 17:46
4-Chlorophenyl phenyl ether	ND	U	37.1	348	ug/Kg	1	08/31/2012 17:46
Acenaphthene	ND	U	15.8	348	ug/Kg	1	08/31/2012 17:46
Acenaphthylene	ND	U	14.7	348	ug/Kg	1	08/31/2012 17:46
Anthracene	ND	U	15.4	348	ug/Kg	1	08/31/2012 17:46
Benzo(a)anthracene	ND	U	19.1	348	ug/Kg	1	08/31/2012 17:46
Benzo(a)pyrene	ND	U	19.7	348	ug/Kg	1	08/31/2012 17:46
Benzo(b)fluoranthene	ND	U	20.0	348	ug/Kg	1	08/31/2012 17:46
Benzo(g,h,i)perylene	ND	U	55.3	348	ug/Kg	1	08/31/2012 17:46
Benzo(k)fluoranthene	ND	U	41.7	348	ug/Kg	1	08/31/2012 17:46
Benzoic acid	ND	U	7.71	348	ug/Kg	1	08/31/2012 17:46
Bis(2-Chloroethoxy)methane	ND	U	15.7	348	ug/Kg	1	08/31/2012 17:46
Bis(2-Chloroethyl)ether	ND	U	32.4	348	ug/Kg	1	08/31/2012 17:46
Bis(2-Chloroisopropyl)ether	ND	U	30.3	348	ug/Kg	1	08/31/2012 17:46
Bis(2-Ethylhexyl)phthalate	ND	U	16.7	348	ug/Kg	1	08/31/2012 17:46
4-Bromophenyl phenyl ether	ND	U	22.9	348	ug/Kg	1	08/31/2012 17:46
Butyl benzyl phthalate	ND	U	30.2	348	ug/Kg	1	08/31/2012 17:46
Chrysene	ND	U	40.4	348	ug/Kg	1	08/31/2012 17:46
Di-n-butyl phthalate	ND	U	16.4	348	ug/Kg	1	08/31/2012 17:46
Di-n-octyl phthalate	ND	U	19.2	348	ug/Kg	1	08/31/2012 17:46
Dibenz(a,h)anthracene	ND	U	15.7	348	ug/Kg	1	08/31/2012 17:46
Dibenzofuran	ND	U	27.2	348	ug/Kg	1	08/31/2012 17:46

Print Date: 09/10/2012

N.C. Certification # 481

Results of **S-2**

Client Sample ID: **S-2**
Client Project ID: **70127335 U-3315 #12**
Lab Sample ID: 31202771002-E
Lab Project ID: 31202771

Collection Date: 08/29/2012 10:15
Received Date: 08/30/2012 15:30
Matrix: Soil-Solid as dry weight
Solids (%): 86.90

Results by **SW-846 8270D**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Diethyl phthalate	ND	U	18.8	348	ug/Kg	1	08/31/2012 17:46
Dimethyl phthalate	ND	U	26.7	348	ug/Kg	1	08/31/2012 17:46
2,4-Dimethylphenol	ND	U	25.4	348	ug/Kg	1	08/31/2012 17:46
Diphenylamine	ND	U	15.7	348	ug/Kg	1	08/31/2012 17:46
Fluoranthene	ND	U	32.7	348	ug/Kg	1	08/31/2012 17:46
Fluorene	ND	U	18.4	348	ug/Kg	1	08/31/2012 17:46
Hexachlorobenzene	ND	U	32.9	348	ug/Kg	1	08/31/2012 17:46
Hexachlorobutadiene	ND	U	20.8	348	ug/Kg	1	08/31/2012 17:46
Hexachlorocyclopentadiene	ND	U	105	348	ug/Kg	1	08/31/2012 17:46
Hexachloroethane	ND	U	20.0	348	ug/Kg	1	08/31/2012 17:46
Indeno(1,2,3-cd)pyrene	ND	U	27.1	348	ug/Kg	1	08/31/2012 17:46
Isophorone	ND	U	15.8	348	ug/Kg	1	08/31/2012 17:46
Naphthalene	ND	U	30.0	348	ug/Kg	1	08/31/2012 17:46
4-Nitroaniline	ND	U	20.0	348	ug/Kg	1	08/31/2012 17:46
Nitrobenzene	ND	U	20.0	348	ug/Kg	1	08/31/2012 17:46
4-Nitrophenol	ND	U	34.2	348	ug/Kg	1	08/31/2012 17:46
Pentachlorophenol	ND	U	27.8	348	ug/Kg	1	08/31/2012 17:46
Phenanthrene	ND	U	22.9	348	ug/Kg	1	08/31/2012 17:46
Phenol	ND	U	32.4	348	ug/Kg	1	08/31/2012 17:46
Pyrene	ND	U	14.7	348	ug/Kg	1	08/31/2012 17:46
n-Nitrosodi-n-propylamine	ND	U	99.6	348	ug/Kg	1	08/31/2012 17:46
Surrogates							
2,4,6-Tribromophenol	99.0			41.0-129	%	1	08/31/2012 17:46
2-Fluorobiphenyl	95.0			48.0-123	%	1	08/31/2012 17:46
2-Fluorophenol	82.0			42.0-123	%	1	08/31/2012 17:46
Nitrobenzene-d5	95.0			46.0-117	%	1	08/31/2012 17:46
Phenol-d6	95.0			48.0-125	%	1	08/31/2012 17:46
Terphenyl-d14	100			44.0-140	%	1	08/31/2012 17:46

Batch Information

Analytical Batch: **XMS1656**
Analytical Method: **SW-846 8270D**
Instrument: **MSD10**
Analyst: **CMP**

Prep Batch: **XXX3001**
Prep Method: **SW-846 3541**
Prep Date/Time: **08/31/2012 09:05**
Prep Initial Wt./Vol.: **33.15 g**
Prep Extract Vol: **10 mL**

Print Date: 09/10/2012

N.C. Certification # 481

Results of **S-3**

Client Sample ID: **S-3**
Client Project ID: **70127335 U-3315 #12**
Lab Sample ID: 31202771003-A
Lab Project ID: 31202771

Collection Date: 08/29/2012 10:25
Received Date: 08/30/2012 15:30
Matrix: Soil-Solid as dry weight
Solids (%): 86.60

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	0.543	3.83	ug/Kg	1	09/4/2012 18:06
1,1,1-Trichloroethane	ND	U	0.577	3.83	ug/Kg	1	09/4/2012 18:06
1,1,2,2-Tetrachloroethane	ND	U	0.896	3.83	ug/Kg	1	09/4/2012 18:06
1,1,2-Trichloroethane	ND	U	0.796	3.83	ug/Kg	1	09/4/2012 18:06
1,1-Dichloroethane	ND	U	0.412	3.83	ug/Kg	1	09/4/2012 18:06
1,1-Dichloroethene	ND	U	0.888	3.83	ug/Kg	1	09/4/2012 18:06
1,1-Dichloropropene	ND	U	0.518	3.83	ug/Kg	1	09/4/2012 18:06
1,2,3-Trichlorobenzene	ND	U	0.637	3.83	ug/Kg	1	09/4/2012 18:06
1,2,3-Trichloropropane	ND	U	0.789	3.83	ug/Kg	1	09/4/2012 18:06
1,2,4-Trichlorobenzene	ND	U	0.558	3.83	ug/Kg	1	09/4/2012 18:06
1,2,4-Trimethylbenzene	ND	U	0.488	3.83	ug/Kg	1	09/4/2012 18:06
1,2-Dibromo-3-chloropropane	ND	U	5.67	23.0	ug/Kg	1	09/4/2012 18:06
1,2-Dibromoethane	ND	U	1.00	3.83	ug/Kg	1	09/4/2012 18:06
1,2-Dichlorobenzene	ND	U	0.544	3.83	ug/Kg	1	09/4/2012 18:06
1,2-Dichloroethane	ND	U	0.699	3.83	ug/Kg	1	09/4/2012 18:06
1,2-Dichloropropane	ND	U	0.881	3.83	ug/Kg	1	09/4/2012 18:06
1,3,5-Trimethylbenzene	ND	U	0.466	3.83	ug/Kg	1	09/4/2012 18:06
1,3-Dichlorobenzene	ND	U	0.551	3.83	ug/Kg	1	09/4/2012 18:06
1,3-Dichloropropane	ND	U	0.673	3.83	ug/Kg	1	09/4/2012 18:06
1,4-Dichlorobenzene	ND	U	0.517	3.83	ug/Kg	1	09/4/2012 18:06
2,2-Dichloropropane	ND	U	0.565	3.83	ug/Kg	1	09/4/2012 18:06
2-Butanone	**7.78**	J	2.59	19.1	ug/Kg	1	09/4/2012 18:06
2-Chlorotoluene	ND	U	0.717	3.83	ug/Kg	1	09/4/2012 18:06
2-Hexanone	ND	U	2.47	9.57	ug/Kg	1	09/4/2012 18:06
4-Chlorotoluene	ND	U	0.579	3.83	ug/Kg	1	09/4/2012 18:06
4-Isopropyltoluene	ND	U	0.494	3.83	ug/Kg	1	09/4/2012 18:06
4-Methyl-2-pentanone	ND	U	2.86	9.57	ug/Kg	1	09/4/2012 18:06
Acetone	**57.7**		3.07	38.3	ug/Kg	1	09/4/2012 18:06
Benzene	ND	U	0.544	3.83	ug/Kg	1	09/4/2012 18:06
Bromobenzene	ND	U	0.534	3.83	ug/Kg	1	09/4/2012 18:06
Bromochloromethane	ND	U	0.720	3.83	ug/Kg	1	09/4/2012 18:06
Bromodichloromethane	ND	U	0.539	3.83	ug/Kg	1	09/4/2012 18:06
Bromoform	ND	U	0.554	3.83	ug/Kg	1	09/4/2012 18:06
Bromomethane	ND	U	1.11	3.83	ug/Kg	1	09/4/2012 18:06
n-Butylbenzene	ND	U	0.503	3.83	ug/Kg	1	09/4/2012 18:06
Carbon disulfide	ND	U	0.400	3.83	ug/Kg	1	09/4/2012 18:06
Carbon tetrachloride	ND	U	0.436	3.83	ug/Kg	1	09/4/2012 18:06
Chlorobenzene	ND	U	0.534	3.83	ug/Kg	1	09/4/2012 18:06
Chloroethane	ND	U	0.766	3.83	ug/Kg	1	09/4/2012 18:06
Chloroform	ND	U	0.488	3.83	ug/Kg	1	09/4/2012 18:06
Chloromethane	ND	U	1.09	3.83	ug/Kg	1	09/4/2012 18:06
Dibromochloromethane	ND	U	0.850	3.83	ug/Kg	1	09/4/2012 18:06
Dibromomethane	ND	U	0.675	3.83	ug/Kg	1	09/4/2012 18:06

Print Date: 09/10/2012

N.C. Certification # 481

Results of **S-3**

Client Sample ID: **S-3**
Client Project ID: **70127335 U-3315 #12**
Lab Sample ID: 31202771003-A
Lab Project ID: 31202771

Collection Date: 08/29/2012 10:25
Received Date: 08/30/2012 15:30
Matrix: Soil-Solid as dry weight
Solids (%): 86.60

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	0.804	3.83	ug/Kg	1	09/4/2012 18:06
cis-1,3-Dichloropropene	ND	U	0.789	3.83	ug/Kg	1	09/4/2012 18:06
trans-1,3-Dichloropropene	ND	U	0.723	3.83	ug/Kg	1	09/4/2012 18:06
Diisopropyl Ether	ND	U	0.629	3.83	ug/Kg	1	09/4/2012 18:06
Ethyl Benzene	ND	U	0.540	3.83	ug/Kg	1	09/4/2012 18:06
Hexachlorobutadiene	ND	U	0.526	3.83	ug/Kg	1	09/4/2012 18:06
Isopropylbenzene (Cumene)	ND	U	0.476	3.83	ug/Kg	1	09/4/2012 18:06
Methyl iodide	ND	U	0.587	3.83	ug/Kg	1	09/4/2012 18:06
Methylene chloride	ND	U	0.804	15.3	ug/Kg	1	09/4/2012 18:06
Naphthalene	ND	U	0.696	3.83	ug/Kg	1	09/4/2012 18:06
Styrene	ND	U	0.441	3.83	ug/Kg	1	09/4/2012 18:06
Tetrachloroethene	ND	U	0.575	3.83	ug/Kg	1	09/4/2012 18:06
Toluene	**1.06**	J	0.527	3.83	ug/Kg	1	09/4/2012 18:06
Trichloroethene	ND	U	0.645	3.83	ug/Kg	1	09/4/2012 18:06
Trichlorofluoromethane	ND	U	0.773	3.83	ug/Kg	1	09/4/2012 18:06
Vinyl chloride	ND	U	0.727	3.83	ug/Kg	1	09/4/2012 18:06
Xylene (total)	ND	U	1.36	7.66	ug/Kg	1	09/4/2012 18:06
cis-1,2-Dichloroethene	ND	U	0.468	3.83	ug/Kg	1	09/4/2012 18:06
m,p-Xylene	ND	U	1.29	7.66	ug/Kg	1	09/4/2012 18:06
n-Propylbenzene	ND	U	0.560	3.83	ug/Kg	1	09/4/2012 18:06
o-Xylene	ND	U	0.587	3.83	ug/Kg	1	09/4/2012 18:06
sec-Butylbenzene	ND	U	0.459	3.83	ug/Kg	1	09/4/2012 18:06
tert-Butyl methyl ether (MTBE)	ND	U	0.609	3.83	ug/Kg	1	09/4/2012 18:06
tert-Butylbenzene	ND	U	0.515	3.83	ug/Kg	1	09/4/2012 18:06
trans-1,2-Dichloroethene	ND	U	0.559	3.83	ug/Kg	1	09/4/2012 18:06
trans-1,4-Dichloro-2-butene	ND	U	3.22	19.1	ug/Kg	1	09/4/2012 18:06
Surrogates							
1,2-Dichloroethane-d4	113			55.0-173	%	1	09/4/2012 18:06
4-Bromofluorobenzene	88.0			23.0-141	%	1	09/4/2012 18:06
Toluene d8	98.0			57.0-134	%	1	09/4/2012 18:06

Batch Information

Analytical Batch: **VMS2523**
Analytical Method: **SW-846 8260B**
Instrument: **MSD9**
Analyst: **DVO**

Prep Batch: **VXX3945**
Prep Method: **SW-846 5035 SL**
Prep Date/Time: **08/30/2012 16:39**
Prep Initial Wt./Vol.: **7.54 g**
Prep Extract Vol: **5 mL**

Print Date: 09/10/2012

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Results of **S-3**

Client Sample ID: **S-3**
Client Project ID: **70127335 U-3315 #12**
Lab Sample ID: 31202771003-E
Lab Project ID: 31202771

Collection Date: 08/29/2012 10:25
Received Date: 08/30/2012 15:30
Matrix: Soil-Solid as dry weight
Solids (%): 86.60

Results by **SW-846 8270D**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,2,4-Trichlorobenzene	ND	U	30.8	349	ug/Kg	1	08/31/2012 18:09
1,2-Dichlorobenzene	ND	U	17.4	349	ug/Kg	1	08/31/2012 18:09
1,3-Dichlorobenzene	ND	U	23.5	349	ug/Kg	1	08/31/2012 18:09
1,4-Dichlorobenzene	ND	U	24.6	349	ug/Kg	1	08/31/2012 18:09
2,4,5-Trichlorophenol	ND	U	23.3	349	ug/Kg	1	08/31/2012 18:09
2,4,6-Trichlorophenol	ND	U	23.6	349	ug/Kg	1	08/31/2012 18:09
2,4-Dichlorophenol	ND	U	20.2	349	ug/Kg	1	08/31/2012 18:09
2,4-Dinitrophenol	ND	U	32.3	696	ug/Kg	1	08/31/2012 18:09
2,4-Dinitrotoluene	ND	U	17.6	349	ug/Kg	1	08/31/2012 18:09
2,6-Dinitrotoluene	ND	U	25.0	349	ug/Kg	1	08/31/2012 18:09
2-Chloronaphthalene	ND	U	20.5	349	ug/Kg	1	08/31/2012 18:09
2-Chlorophenol	ND	U	18.5	349	ug/Kg	1	08/31/2012 18:09
2-Methylnaphthalene	ND	U	28.2	349	ug/Kg	1	08/31/2012 18:09
2-Methylphenol	ND	U	19.3	349	ug/Kg	1	08/31/2012 18:09
2-Nitroaniline	ND	U	23.0	349	ug/Kg	1	08/31/2012 18:09
2-Nitrophenol	ND	U	16.7	349	ug/Kg	1	08/31/2012 18:09
3 and/or 4-Methylphenol	ND	U	22.6	349	ug/Kg	1	08/31/2012 18:09
3,3'-Dichlorobenzidine	ND	U	16.7	349	ug/Kg	1	08/31/2012 18:09
3-Nitroaniline	ND	U	15.7	349	ug/Kg	1	08/31/2012 18:09
4,6-Dinitro-2-methylphenol	ND	U	16.4	349	ug/Kg	1	08/31/2012 18:09
4-Chloro-3-methylphenol	ND	U	17.4	349	ug/Kg	1	08/31/2012 18:09
4-Chloroaniline	ND	U	27.9	349	ug/Kg	1	08/31/2012 18:09
4-Chlorophenyl phenyl ether	ND	U	37.2	349	ug/Kg	1	08/31/2012 18:09
Acenaphthene	ND	U	15.8	349	ug/Kg	1	08/31/2012 18:09
Acenaphthylene	ND	U	14.7	349	ug/Kg	1	08/31/2012 18:09
Anthracene	ND	U	15.5	349	ug/Kg	1	08/31/2012 18:09
Benzo(a)anthracene	ND	U	19.2	349	ug/Kg	1	08/31/2012 18:09
Benzo(a)pyrene	ND	U	19.7	349	ug/Kg	1	08/31/2012 18:09
Benzo(b)fluoranthene	ND	U	20.1	349	ug/Kg	1	08/31/2012 18:09
Benzo(g,h,i)perylene	ND	U	55.5	349	ug/Kg	1	08/31/2012 18:09
Benzo(k)fluoranthene	ND	U	41.8	349	ug/Kg	1	08/31/2012 18:09
Benzoic acid	ND	U	7.73	349	ug/Kg	1	08/31/2012 18:09
Bis(2-Chloroethoxy)methane	ND	U	15.7	349	ug/Kg	1	08/31/2012 18:09
Bis(2-Chloroethyl)ether	ND	U	32.5	349	ug/Kg	1	08/31/2012 18:09
Bis(2-Chloroisopropyl)ether	ND	U	30.4	349	ug/Kg	1	08/31/2012 18:09
Bis(2-Ethylhexyl)phthalate	ND	U	16.7	349	ug/Kg	1	08/31/2012 18:09
4-Bromophenyl phenyl ether	ND	U	23.0	349	ug/Kg	1	08/31/2012 18:09
Butyl benzyl phthalate	ND	U	30.3	349	ug/Kg	1	08/31/2012 18:09
Chrysene	ND	U	40.6	349	ug/Kg	1	08/31/2012 18:09
Di-n-butyl phthalate	ND	U	16.5	349	ug/Kg	1	08/31/2012 18:09
Di-n-octyl phthalate	ND	U	19.3	349	ug/Kg	1	08/31/2012 18:09
Dibenz(a,h)anthracene	ND	U	15.7	349	ug/Kg	1	08/31/2012 18:09
Dibenzofuran	ND	U	27.3	349	ug/Kg	1	08/31/2012 18:09

Print Date: 09/10/2012

N.C. Certification # 481

Results of **S-3**

Client Sample ID: **S-3**
Client Project ID: **70127335 U-3315 #12**
Lab Sample ID: 31202771003-E
Lab Project ID: 31202771

Collection Date: 08/29/2012 10:25
Received Date: 08/30/2012 15:30
Matrix: Soil-Solid as dry weight
Solids (%): 86.60

Results by **SW-846 8270D**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Diethyl phthalate	ND	U	18.8	349	ug/Kg	1	08/31/2012 18:09
Dimethyl phthalate	ND	U	26.7	349	ug/Kg	1	08/31/2012 18:09
2,4-Dimethylphenol	ND	U	25.5	349	ug/Kg	1	08/31/2012 18:09
Diphenylamine	ND	U	15.7	349	ug/Kg	1	08/31/2012 18:09
Fluoranthene	**41.7**	J	32.8	349	ug/Kg	1	08/31/2012 18:09
Fluorene	ND	U	18.5	349	ug/Kg	1	08/31/2012 18:09
Hexachlorobenzene	ND	U	33.0	349	ug/Kg	1	08/31/2012 18:09
Hexachlorobutadiene	ND	U	20.8	349	ug/Kg	1	08/31/2012 18:09
Hexachlorocyclopentadiene	ND	U	106	349	ug/Kg	1	08/31/2012 18:09
Hexachloroethane	ND	U	20.1	349	ug/Kg	1	08/31/2012 18:09
Indeno(1,2,3-cd)pyrene	ND	U	27.2	349	ug/Kg	1	08/31/2012 18:09
Isophorone	ND	U	15.8	349	ug/Kg	1	08/31/2012 18:09
Naphthalene	ND	U	30.1	349	ug/Kg	1	08/31/2012 18:09
4-Nitroaniline	ND	U	20.1	349	ug/Kg	1	08/31/2012 18:09
Nitrobenzene	ND	U	20.1	349	ug/Kg	1	08/31/2012 18:09
4-Nitrophenol	ND	U	34.3	349	ug/Kg	1	08/31/2012 18:09
Pentachlorophenol	ND	U	27.9	349	ug/Kg	1	08/31/2012 18:09
Phenanthrene	ND	U	23.0	349	ug/Kg	1	08/31/2012 18:09
Phenol	ND	U	32.5	349	ug/Kg	1	08/31/2012 18:09
Pyrene	**41.7**	J	14.7	349	ug/Kg	1	08/31/2012 18:09
n-Nitrosodi-n-propylamine	ND	U	99.8	349	ug/Kg	1	08/31/2012 18:09
Surrogates							
2,4,6-Tribromophenol	95.0			41.0-129	%	1	08/31/2012 18:09
2-Fluorobiphenyl	92.0			48.0-123	%	1	08/31/2012 18:09
2-Fluorophenol	78.0			42.0-123	%	1	08/31/2012 18:09
Nitrobenzene-d5	91.0			46.0-117	%	1	08/31/2012 18:09
Phenol-d6	92.0			48.0-125	%	1	08/31/2012 18:09
Terphenyl-d14	100			44.0-140	%	1	08/31/2012 18:09

Batch Information

Analytical Batch: **XMS1656**
Analytical Method: **SW-846 8270D**
Instrument: **MSD10**
Analyst: **CMP**

Prep Batch: **XXX3001**
Prep Method: **SW-846 3541**
Prep Date/Time: **08/31/2012 09:05**
Prep Initial Wt./Vol.: **33.16 g**
Prep Extract Vol: **10 mL**

Print Date: 09/10/2012

N.C. Certification # 481

Results of **S-4**

Client Sample ID: **S-4**
Client Project ID: **70127335 U-3315 #12**
Lab Sample ID: 31202771004-A
Lab Project ID: 31202771

Collection Date: 08/29/2012 10:30
Received Date: 08/30/2012 15:30
Matrix: Soil-Solid as dry weight
Solids (%): 88.40

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	0.539	3.80	ug/Kg	1	09/4/2012 18:32
1,1,1-Trichloroethane	ND	U	0.573	3.80	ug/Kg	1	09/4/2012 18:32
1,1,2,2-Tetrachloroethane	ND	U	0.890	3.80	ug/Kg	1	09/4/2012 18:32
1,1,2-Trichloroethane	ND	U	0.791	3.80	ug/Kg	1	09/4/2012 18:32
1,1-Dichloroethane	ND	U	0.409	3.80	ug/Kg	1	09/4/2012 18:32
1,1-Dichloroethene	ND	U	0.882	3.80	ug/Kg	1	09/4/2012 18:32
1,1-Dichloropropene	ND	U	0.514	3.80	ug/Kg	1	09/4/2012 18:32
1,2,3-Trichlorobenzene	ND	U	0.633	3.80	ug/Kg	1	09/4/2012 18:32
1,2,3-Trichloropropane	ND	U	0.783	3.80	ug/Kg	1	09/4/2012 18:32
1,2,4-Trichlorobenzene	ND	U	0.554	3.80	ug/Kg	1	09/4/2012 18:32
1,2,4-Trimethylbenzene	ND	U	0.484	3.80	ug/Kg	1	09/4/2012 18:32
1,2-Dibromo-3-chloropropane	ND	U	5.63	22.8	ug/Kg	1	09/4/2012 18:32
1,2-Dibromoethane	ND	U	0.996	3.80	ug/Kg	1	09/4/2012 18:32
1,2-Dichlorobenzene	ND	U	0.541	3.80	ug/Kg	1	09/4/2012 18:32
1,2-Dichloroethane	ND	U	0.694	3.80	ug/Kg	1	09/4/2012 18:32
1,2-Dichloropropane	ND	U	0.874	3.80	ug/Kg	1	09/4/2012 18:32
1,3,5-Trimethylbenzene	ND	U	0.462	3.80	ug/Kg	1	09/4/2012 18:32
1,3-Dichlorobenzene	ND	U	0.547	3.80	ug/Kg	1	09/4/2012 18:32
1,3-Dichloropropane	ND	U	0.668	3.80	ug/Kg	1	09/4/2012 18:32
1,4-Dichlorobenzene	ND	U	0.513	3.80	ug/Kg	1	09/4/2012 18:32
2,2-Dichloropropane	ND	U	0.561	3.80	ug/Kg	1	09/4/2012 18:32
2-Butanone	**5.28**	J	2.57	19.0	ug/Kg	1	09/4/2012 18:32
2-Chlorotoluene	ND	U	0.712	3.80	ug/Kg	1	09/4/2012 18:32
2-Hexanone	ND	U	2.45	9.50	ug/Kg	1	09/4/2012 18:32
4-Chlorotoluene	ND	U	0.575	3.80	ug/Kg	1	09/4/2012 18:32
4-Isopropyltoluene	ND	U	0.490	3.80	ug/Kg	1	09/4/2012 18:32
4-Methyl-2-pentanone	ND	U	2.84	9.50	ug/Kg	1	09/4/2012 18:32
Acetone	**45.0**		3.05	38.0	ug/Kg	1	09/4/2012 18:32
Benzene	ND	U	0.541	3.80	ug/Kg	1	09/4/2012 18:32
Bromobenzene	ND	U	0.530	3.80	ug/Kg	1	09/4/2012 18:32
Bromochloromethane	ND	U	0.715	3.80	ug/Kg	1	09/4/2012 18:32
Bromodichloromethane	ND	U	0.535	3.80	ug/Kg	1	09/4/2012 18:32
Bromoform	ND	U	0.551	3.80	ug/Kg	1	09/4/2012 18:32
Bromomethane	ND	U	1.10	3.80	ug/Kg	1	09/4/2012 18:32
n-Butylbenzene	ND	U	0.500	3.80	ug/Kg	1	09/4/2012 18:32
Carbon disulfide	**3.22**	J	0.398	3.80	ug/Kg	1	09/4/2012 18:32
Carbon tetrachloride	ND	U	0.433	3.80	ug/Kg	1	09/4/2012 18:32
Chlorobenzene	ND	U	0.531	3.80	ug/Kg	1	09/4/2012 18:32
Chloroethane	ND	U	0.760	3.80	ug/Kg	1	09/4/2012 18:32
Chloroform	ND	U	0.484	3.80	ug/Kg	1	09/4/2012 18:32
Chloromethane	ND	U	1.09	3.80	ug/Kg	1	09/4/2012 18:32
Dibromochloromethane	ND	U	0.844	3.80	ug/Kg	1	09/4/2012 18:32
Dibromomethane	ND	U	0.671	3.80	ug/Kg	1	09/4/2012 18:32

Print Date: 09/10/2012

N.C. Certification # 481

Results of **S-4**

Client Sample ID: **S-4**
Client Project ID: **70127335 U-3315 #12**
Lab Sample ID: 31202771004-A
Lab Project ID: 31202771

Collection Date: 08/29/2012 10:30
Received Date: 08/30/2012 15:30
Matrix: Soil-Solid as dry weight
Solids (%): 88.40

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	0.798	3.80	ug/Kg	1	09/4/2012 18:32
cis-1,3-Dichloropropene	ND	U	0.783	3.80	ug/Kg	1	09/4/2012 18:32
trans-1,3-Dichloropropene	ND	U	0.718	3.80	ug/Kg	1	09/4/2012 18:32
Diisopropyl Ether	ND	U	0.624	3.80	ug/Kg	1	09/4/2012 18:32
Ethyl Benzene	ND	U	0.536	3.80	ug/Kg	1	09/4/2012 18:32
Hexachlorobutadiene	ND	U	0.522	3.80	ug/Kg	1	09/4/2012 18:32
Isopropylbenzene (Cumene)	ND	U	0.473	3.80	ug/Kg	1	09/4/2012 18:32
Methyl iodide	ND	U	0.582	3.80	ug/Kg	1	09/4/2012 18:32
Methylene chloride	ND	U	0.798	15.2	ug/Kg	1	09/4/2012 18:32
Naphthalene	ND	U	0.691	3.80	ug/Kg	1	09/4/2012 18:32
Styrene	ND	U	0.438	3.80	ug/Kg	1	09/4/2012 18:32
Tetrachloroethene	ND	U	0.571	3.80	ug/Kg	1	09/4/2012 18:32
Toluene	ND	U	0.523	3.80	ug/Kg	1	09/4/2012 18:32
Trichloroethene	ND	U	0.640	3.80	ug/Kg	1	09/4/2012 18:32
Trichlorofluoromethane	ND	U	0.768	3.80	ug/Kg	1	09/4/2012 18:32
Vinyl chloride	ND	U	0.722	3.80	ug/Kg	1	09/4/2012 18:32
Xylene (total)	ND	U	1.35	7.60	ug/Kg	1	09/4/2012 18:32
cis-1,2-Dichloroethene	ND	U	0.465	3.80	ug/Kg	1	09/4/2012 18:32
m,p-Xylene	ND	U	1.29	7.60	ug/Kg	1	09/4/2012 18:32
n-Propylbenzene	ND	U	0.557	3.80	ug/Kg	1	09/4/2012 18:32
o-Xylene	ND	U	0.582	3.80	ug/Kg	1	09/4/2012 18:32
sec-Butylbenzene	ND	U	0.456	3.80	ug/Kg	1	09/4/2012 18:32
tert-Butyl methyl ether (MTBE)	ND	U	0.604	3.80	ug/Kg	1	09/4/2012 18:32
tert-Butylbenzene	ND	U	0.512	3.80	ug/Kg	1	09/4/2012 18:32
trans-1,2-Dichloroethene	ND	U	0.555	3.80	ug/Kg	1	09/4/2012 18:32
trans-1,4-Dichloro-2-butene	ND	U	3.19	19.0	ug/Kg	1	09/4/2012 18:32
Surrogates							
1,2-Dichloroethane-d4	114			55.0-173	%	1	09/4/2012 18:32
4-Bromofluorobenzene	82.0			23.0-141	%	1	09/4/2012 18:32
Toluene d8	96.0			57.0-134	%	1	09/4/2012 18:32

Batch Information

Analytical Batch: **VMS2523**
Analytical Method: **SW-846 8260B**
Instrument: **MSD9**
Analyst: **DVO**

Prep Batch: **VXX3945**
Prep Method: **SW-846 5035 SL**
Prep Date/Time: **08/30/2012 16:42**
Prep Initial Wt./Vol.: **7.44 g**
Prep Extract Vol: **5 mL**

Print Date: 09/10/2012

N.C. Certification # 481

Results of **S-4**

Client Sample ID: **S-4**
Client Project ID: **70127335 U-3315 #12**
Lab Sample ID: 31202771004-E
Lab Project ID: 31202771

Collection Date: 08/29/2012 10:30
Received Date: 08/30/2012 15:30
Matrix: Soil-Solid as dry weight
Solids (%): 88.40

Results by **SW-846 8270D**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,2,4-Trichlorobenzene	ND	U	30.1	342	ug/Kg	1	08/31/2012 18:32
1,2-Dichlorobenzene	ND	U	17.0	342	ug/Kg	1	08/31/2012 18:32
1,3-Dichlorobenzene	ND	U	23.0	342	ug/Kg	1	08/31/2012 18:32
1,4-Dichlorobenzene	ND	U	24.1	342	ug/Kg	1	08/31/2012 18:32
2,4,5-Trichlorophenol	ND	U	22.8	342	ug/Kg	1	08/31/2012 18:32
2,4,6-Trichlorophenol	ND	U	23.1	342	ug/Kg	1	08/31/2012 18:32
2,4-Dichlorophenol	ND	U	19.8	342	ug/Kg	1	08/31/2012 18:32
2,4-Dinitrophenol	ND	U	31.7	682	ug/Kg	1	08/31/2012 18:32
2,4-Dinitrotoluene	ND	U	17.2	342	ug/Kg	1	08/31/2012 18:32
2,6-Dinitrotoluene	ND	U	24.5	342	ug/Kg	1	08/31/2012 18:32
2-Chloronaphthalene	ND	U	20.1	342	ug/Kg	1	08/31/2012 18:32
2-Chlorophenol	ND	U	18.1	342	ug/Kg	1	08/31/2012 18:32
2-Methylnaphthalene	ND	U	27.6	342	ug/Kg	1	08/31/2012 18:32
2-Methylphenol	ND	U	18.9	342	ug/Kg	1	08/31/2012 18:32
2-Nitroaniline	ND	U	22.5	342	ug/Kg	1	08/31/2012 18:32
2-Nitrophenol	ND	U	16.4	342	ug/Kg	1	08/31/2012 18:32
3 and/or 4-Methylphenol	ND	U	22.2	342	ug/Kg	1	08/31/2012 18:32
3,3'-Dichlorobenzidine	ND	U	16.4	342	ug/Kg	1	08/31/2012 18:32
3-Nitroaniline	ND	U	15.4	342	ug/Kg	1	08/31/2012 18:32
4,6-Dinitro-2-methylphenol	ND	U	16.0	342	ug/Kg	1	08/31/2012 18:32
4-Chloro-3-methylphenol	ND	U	17.0	342	ug/Kg	1	08/31/2012 18:32
4-Chloroaniline	ND	U	27.3	342	ug/Kg	1	08/31/2012 18:32
4-Chlorophenyl phenyl ether	ND	U	36.5	342	ug/Kg	1	08/31/2012 18:32
Acenaphthene	ND	U	15.5	342	ug/Kg	1	08/31/2012 18:32
Acenaphthylene	ND	U	14.4	342	ug/Kg	1	08/31/2012 18:32
Anthracene	ND	U	15.2	342	ug/Kg	1	08/31/2012 18:32
Benzo(a)anthracene	ND	U	18.8	342	ug/Kg	1	08/31/2012 18:32
Benzo(a)pyrene	ND	U	19.3	342	ug/Kg	1	08/31/2012 18:32
Benzo(b)fluoranthene	ND	U	19.6	342	ug/Kg	1	08/31/2012 18:32
Benzo(g,h,i)perylene	ND	U	54.4	342	ug/Kg	1	08/31/2012 18:32
Benzo(k)fluoranthene	ND	U	40.9	342	ug/Kg	1	08/31/2012 18:32
Benzoic acid	ND	U	7.58	342	ug/Kg	1	08/31/2012 18:32
Bis(2-Chloroethoxy)methane	ND	U	15.4	342	ug/Kg	1	08/31/2012 18:32
Bis(2-Chloroethyl)ether	ND	U	31.9	342	ug/Kg	1	08/31/2012 18:32
Bis(2-Chloroisopropyl)ether	ND	U	29.8	342	ug/Kg	1	08/31/2012 18:32
Bis(2-Ethylhexyl)phthalate	ND	U	16.4	342	ug/Kg	1	08/31/2012 18:32
4-Bromophenyl phenyl ether	ND	U	22.5	342	ug/Kg	1	08/31/2012 18:32
Butyl benzyl phthalate	ND	U	29.7	342	ug/Kg	1	08/31/2012 18:32
Chrysene	ND	U	39.7	342	ug/Kg	1	08/31/2012 18:32
Di-n-butyl phthalate	ND	U	16.2	342	ug/Kg	1	08/31/2012 18:32
Di-n-octyl phthalate	ND	U	18.9	342	ug/Kg	1	08/31/2012 18:32
Dibenz(a,h)anthracene	ND	U	15.4	342	ug/Kg	1	08/31/2012 18:32
Dibenzofuran	ND	U	26.7	342	ug/Kg	1	08/31/2012 18:32

Print Date: 09/10/2012

N.C. Certification # 481

Results of **S-4**

Client Sample ID: **S-4**
Client Project ID: **70127335 U-3315 #12**
Lab Sample ID: 31202771004-E
Lab Project ID: 31202771

Collection Date: 08/29/2012 10:30
Received Date: 08/30/2012 15:30
Matrix: Soil-Solid as dry weight
Solids (%): 88.40

Results by **SW-846 8270D**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Diethyl phthalate	ND	U	18.4	342	ug/Kg	1	08/31/2012 18:32
Dimethyl phthalate	ND	U	26.2	342	ug/Kg	1	08/31/2012 18:32
2,4-Dimethylphenol	ND	U	25.0	342	ug/Kg	1	08/31/2012 18:32
Diphenylamine	ND	U	15.4	342	ug/Kg	1	08/31/2012 18:32
Fluoranthene	ND	U	32.1	342	ug/Kg	1	08/31/2012 18:32
Fluorene	ND	U	18.1	342	ug/Kg	1	08/31/2012 18:32
Hexachlorobenzene	ND	U	32.3	342	ug/Kg	1	08/31/2012 18:32
Hexachlorobutadiene	ND	U	20.4	342	ug/Kg	1	08/31/2012 18:32
Hexachlorocyclopentadiene	ND	U	103	342	ug/Kg	1	08/31/2012 18:32
Hexachloroethane	ND	U	19.6	342	ug/Kg	1	08/31/2012 18:32
Indeno(1,2,3-cd)pyrene	ND	U	26.6	342	ug/Kg	1	08/31/2012 18:32
Isophorone	ND	U	15.5	342	ug/Kg	1	08/31/2012 18:32
Naphthalene	ND	U	29.5	342	ug/Kg	1	08/31/2012 18:32
4-Nitroaniline	ND	U	19.6	342	ug/Kg	1	08/31/2012 18:32
Nitrobenzene	ND	U	19.6	342	ug/Kg	1	08/31/2012 18:32
4-Nitrophenol	ND	U	33.6	342	ug/Kg	1	08/31/2012 18:32
Pentachlorophenol	ND	U	27.3	342	ug/Kg	1	08/31/2012 18:32
Phenanthrene	ND	U	22.5	342	ug/Kg	1	08/31/2012 18:32
Phenol	ND	U	31.9	342	ug/Kg	1	08/31/2012 18:32
Pyrene	**30.7**	J	14.4	342	ug/Kg	1	08/31/2012 18:32
n-Nitrosodi-n-propylamine	ND	U	97.8	342	ug/Kg	1	08/31/2012 18:32
Surrogates							
2,4,6-Tribromophenol	98.0			41.0-129	%	1	08/31/2012 18:32
2-Fluorobiphenyl	94.0			48.0-123	%	1	08/31/2012 18:32
2-Fluorophenol	79.0			42.0-123	%	1	08/31/2012 18:32
Nitrobenzene-d5	93.0			46.0-117	%	1	08/31/2012 18:32
Phenol-d6	88.0			48.0-125	%	1	08/31/2012 18:32
Terphenyl-d14	103			44.0-140	%	1	08/31/2012 18:32

Batch Information

Analytical Batch: **XMS1656**
Analytical Method: **SW-846 8270D**
Instrument: **MSD10**
Analyst: **CMP**

Prep Batch: **XXX3001**
Prep Method: **SW-846 3541**
Prep Date/Time: **08/31/2012 09:05**
Prep Initial Wt./Vol.: **33.17 g**
Prep Extract Vol: **10 mL**

Print Date: 09/10/2012

N.C. Certification # 481

Results of **S-5**

Client Sample ID: **S-5**
Client Project ID: **70127335 U-3315 #12**
Lab Sample ID: 31202771005-C
Lab Project ID: 31202771

Collection Date: 08/29/2012 10:46
Received Date: 08/30/2012 15:30
Matrix: Soil-Solid as dry weight
Solids (%): 81.80

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	0.574	4.05	ug/Kg	1	09/4/2012 18:59
1,1,1-Trichloroethane	ND	U	0.610	4.05	ug/Kg	1	09/4/2012 18:59
1,1,2,2-Tetrachloroethane	ND	U	0.947	4.05	ug/Kg	1	09/4/2012 18:59
1,1,2-Trichloroethane	ND	U	0.842	4.05	ug/Kg	1	09/4/2012 18:59
1,1-Dichloroethane	ND	U	0.436	4.05	ug/Kg	1	09/4/2012 18:59
1,1-Dichloroethene	ND	U	0.939	4.05	ug/Kg	1	09/4/2012 18:59
1,1-Dichloropropene	ND	U	0.547	4.05	ug/Kg	1	09/4/2012 18:59
1,2,3-Trichlorobenzene	ND	U	0.674	4.05	ug/Kg	1	09/4/2012 18:59
1,2,3-Trichloropropane	ND	U	0.834	4.05	ug/Kg	1	09/4/2012 18:59
1,2,4-Trichlorobenzene	ND	U	0.590	4.05	ug/Kg	1	09/4/2012 18:59
1,2,4-Trimethylbenzene	ND	U	0.516	4.05	ug/Kg	1	09/4/2012 18:59
1,2-Dibromo-3-chloropropane	ND	U	6.00	24.3	ug/Kg	1	09/4/2012 18:59
1,2-Dibromoethane	ND	U	1.06	4.05	ug/Kg	1	09/4/2012 18:59
1,2-Dichlorobenzene	ND	U	0.576	4.05	ug/Kg	1	09/4/2012 18:59
1,2-Dichloroethane	ND	U	0.739	4.05	ug/Kg	1	09/4/2012 18:59
1,2-Dichloropropane	ND	U	0.931	4.05	ug/Kg	1	09/4/2012 18:59
1,3,5-Trimethylbenzene	ND	U	0.492	4.05	ug/Kg	1	09/4/2012 18:59
1,3-Dichlorobenzene	ND	U	0.582	4.05	ug/Kg	1	09/4/2012 18:59
1,3-Dichloropropane	ND	U	0.712	4.05	ug/Kg	1	09/4/2012 18:59
1,4-Dichlorobenzene	ND	U	0.546	4.05	ug/Kg	1	09/4/2012 18:59
2,2-Dichloropropane	ND	U	0.597	4.05	ug/Kg	1	09/4/2012 18:59
2-Butanone	ND	U	2.74	20.2	ug/Kg	1	09/4/2012 18:59
2-Chlorotoluene	ND	U	0.759	4.05	ug/Kg	1	09/4/2012 18:59
2-Hexanone	ND	U	2.61	10.1	ug/Kg	1	09/4/2012 18:59
4-Chlorotoluene	ND	U	0.612	4.05	ug/Kg	1	09/4/2012 18:59
4-Isopropyltoluene	ND	U	0.522	4.05	ug/Kg	1	09/4/2012 18:59
4-Methyl-2-pentanone	ND	U	3.03	10.1	ug/Kg	1	09/4/2012 18:59
Acetone	**13.3**	J	3.25	40.5	ug/Kg	1	09/4/2012 18:59
Benzene	ND	U	0.576	4.05	ug/Kg	1	09/4/2012 18:59
Bromobenzene	ND	U	0.564	4.05	ug/Kg	1	09/4/2012 18:59
Bromochloromethane	ND	U	0.761	4.05	ug/Kg	1	09/4/2012 18:59
Bromodichloromethane	ND	U	0.570	4.05	ug/Kg	1	09/4/2012 18:59
Bromoform	ND	U	0.586	4.05	ug/Kg	1	09/4/2012 18:59
Bromomethane	ND	U	1.17	4.05	ug/Kg	1	09/4/2012 18:59
n-Butylbenzene	ND	U	0.532	4.05	ug/Kg	1	09/4/2012 18:59
Carbon disulfide	ND	U	0.423	4.05	ug/Kg	1	09/4/2012 18:59
Carbon tetrachloride	ND	U	0.461	4.05	ug/Kg	1	09/4/2012 18:59
Chlorobenzene	ND	U	0.565	4.05	ug/Kg	1	09/4/2012 18:59
Chloroethane	ND	U	0.810	4.05	ug/Kg	1	09/4/2012 18:59
Chloroform	ND	U	0.516	4.05	ug/Kg	1	09/4/2012 18:59
Chloromethane	ND	U	1.16	4.05	ug/Kg	1	09/4/2012 18:59
Dibromochloromethane	ND	U	0.899	4.05	ug/Kg	1	09/4/2012 18:59
Dibromomethane	ND	U	0.714	4.05	ug/Kg	1	09/4/2012 18:59

Print Date: 09/10/2012

N.C. Certification # 481

Results of **S-5**

Client Sample ID: **S-5**
Client Project ID: **70127335 U-3315 #12**
Lab Sample ID: 31202771005-C
Lab Project ID: 31202771

Collection Date: 08/29/2012 10:46
Received Date: 08/30/2012 15:30
Matrix: Soil-Solid as dry weight
Solids (%): 81.80

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	0.850	4.05	ug/Kg	1	09/4/2012 18:59
cis-1,3-Dichloropropene	ND	U	0.834	4.05	ug/Kg	1	09/4/2012 18:59
trans-1,3-Dichloropropene	ND	U	0.764	4.05	ug/Kg	1	09/4/2012 18:59
Diisopropyl Ether	ND	U	0.665	4.05	ug/Kg	1	09/4/2012 18:59
Ethyl Benzene	ND	U	0.571	4.05	ug/Kg	1	09/4/2012 18:59
Hexachlorobutadiene	ND	U	0.556	4.05	ug/Kg	1	09/4/2012 18:59
Isopropylbenzene (Cumene)	ND	U	0.504	4.05	ug/Kg	1	09/4/2012 18:59
Methyl iodide	ND	U	0.620	4.05	ug/Kg	1	09/4/2012 18:59
Methylene chloride	ND	U	0.850	16.2	ug/Kg	1	09/4/2012 18:59
Naphthalene	ND	U	0.736	4.05	ug/Kg	1	09/4/2012 18:59
Styrene	ND	U	0.466	4.05	ug/Kg	1	09/4/2012 18:59
Tetrachloroethene	ND	U	0.608	4.05	ug/Kg	1	09/4/2012 18:59
Toluene	ND	U	0.557	4.05	ug/Kg	1	09/4/2012 18:59
Trichloroethene	ND	U	0.682	4.05	ug/Kg	1	09/4/2012 18:59
Trichlorofluoromethane	ND	U	0.818	4.05	ug/Kg	1	09/4/2012 18:59
Vinyl chloride	ND	U	0.769	4.05	ug/Kg	1	09/4/2012 18:59
Xylene (total)	ND	U	1.43	8.10	ug/Kg	1	09/4/2012 18:59
cis-1,2-Dichloroethene	ND	U	0.495	4.05	ug/Kg	1	09/4/2012 18:59
m,p-Xylene	ND	U	1.37	8.10	ug/Kg	1	09/4/2012 18:59
n-Propylbenzene	ND	U	0.593	4.05	ug/Kg	1	09/4/2012 18:59
o-Xylene	ND	U	0.620	4.05	ug/Kg	1	09/4/2012 18:59
sec-Butylbenzene	ND	U	0.486	4.05	ug/Kg	1	09/4/2012 18:59
tert-Butyl methyl ether (MTBE)	ND	U	0.644	4.05	ug/Kg	1	09/4/2012 18:59
tert-Butylbenzene	ND	U	0.545	4.05	ug/Kg	1	09/4/2012 18:59
trans-1,2-Dichloroethene	ND	U	0.591	4.05	ug/Kg	1	09/4/2012 18:59
trans-1,4-Dichloro-2-butene	ND	U	3.40	20.2	ug/Kg	1	09/4/2012 18:59
Surrogates							
1,2-Dichloroethane-d4	111			55.0-173	%	1	09/4/2012 18:59
4-Bromofluorobenzene	97.0			23.0-141	%	1	09/4/2012 18:59
Toluene d8	100			57.0-134	%	1	09/4/2012 18:59

Batch Information

Analytical Batch: **VMS2523**
Analytical Method: **SW-846 8260B**
Instrument: **MSD9**
Analyst: **DVO**

Prep Batch: **VXX3945**
Prep Method: **SW-846 5035 SL**
Prep Date/Time: **08/30/2012 16:43**
Prep Initial Wt./Vol.: **7.55 g**
Prep Extract Vol: **5 mL**

Print Date: 09/10/2012

N.C. Certification # 481

Results of **S-5**

Client Sample ID: **S-5**
Client Project ID: **70127335 U-3315 #12**
Lab Sample ID: 31202771005-E
Lab Project ID: 31202771

Collection Date: 08/29/2012 10:46
Received Date: 08/30/2012 15:30
Matrix: Soil-Solid as dry weight
Solids (%): 81.80

Results by **SW-846 8270D**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,2,4-Trichlorobenzene	ND	U	32.1	364	ug/Kg	1	08/31/2012 18:55
1,2-Dichlorobenzene	ND	U	18.2	364	ug/Kg	1	08/31/2012 18:55
1,3-Dichlorobenzene	ND	U	24.6	364	ug/Kg	1	08/31/2012 18:55
1,4-Dichlorobenzene	ND	U	25.7	364	ug/Kg	1	08/31/2012 18:55
2,4,5-Trichlorophenol	ND	U	24.3	364	ug/Kg	1	08/31/2012 18:55
2,4,6-Trichlorophenol	ND	U	24.7	364	ug/Kg	1	08/31/2012 18:55
2,4-Dichlorophenol	ND	U	21.1	364	ug/Kg	1	08/31/2012 18:55
2,4-Dinitrophenol	ND	U	33.8	727	ug/Kg	1	08/31/2012 18:55
2,4-Dinitrotoluene	ND	U	18.4	364	ug/Kg	1	08/31/2012 18:55
2,6-Dinitrotoluene	ND	U	26.1	364	ug/Kg	1	08/31/2012 18:55
2-Chloronaphthalene	ND	U	21.4	364	ug/Kg	1	08/31/2012 18:55
2-Chlorophenol	ND	U	19.3	364	ug/Kg	1	08/31/2012 18:55
2-Methylnaphthalene	ND	U	29.4	364	ug/Kg	1	08/31/2012 18:55
2-Methylphenol	ND	U	20.1	364	ug/Kg	1	08/31/2012 18:55
2-Nitroaniline	ND	U	24.0	364	ug/Kg	1	08/31/2012 18:55
2-Nitrophenol	ND	U	17.5	364	ug/Kg	1	08/31/2012 18:55
3 and/or 4-Methylphenol	ND	U	23.6	364	ug/Kg	1	08/31/2012 18:55
3,3'-Dichlorobenzidine	ND	U	17.5	364	ug/Kg	1	08/31/2012 18:55
3-Nitroaniline	ND	U	16.4	364	ug/Kg	1	08/31/2012 18:55
4,6-Dinitro-2-methylphenol	ND	U	17.1	364	ug/Kg	1	08/31/2012 18:55
4-Chloro-3-methylphenol	ND	U	18.2	364	ug/Kg	1	08/31/2012 18:55
4-Chloroaniline	ND	U	29.1	364	ug/Kg	1	08/31/2012 18:55
4-Chlorophenyl phenyl ether	ND	U	38.9	364	ug/Kg	1	08/31/2012 18:55
Acenaphthene	ND	U	16.5	364	ug/Kg	1	08/31/2012 18:55
Acenaphthylene	ND	U	15.4	364	ug/Kg	1	08/31/2012 18:55
Anthracene	ND	U	16.2	364	ug/Kg	1	08/31/2012 18:55
Benzo(a)anthracene	ND	U	20.0	364	ug/Kg	1	08/31/2012 18:55
Benzo(a)pyrene	ND	U	20.6	364	ug/Kg	1	08/31/2012 18:55
Benzo(b)fluoranthene	ND	U	20.9	364	ug/Kg	1	08/31/2012 18:55
Benzo(g,h,i)perylene	ND	U	58.0	364	ug/Kg	1	08/31/2012 18:55
Benzo(k)fluoranthene	ND	U	43.6	364	ug/Kg	1	08/31/2012 18:55
Benzoic acid	ND	U	8.08	364	ug/Kg	1	08/31/2012 18:55
Bis(2-Chloroethoxy)methane	ND	U	16.4	364	ug/Kg	1	08/31/2012 18:55
Bis(2-Chloroethyl)ether	ND	U	34.0	364	ug/Kg	1	08/31/2012 18:55
Bis(2-Chloroisopropyl)ether	ND	U	31.8	364	ug/Kg	1	08/31/2012 18:55
Bis(2-Ethylhexyl)phthalate	ND	U	17.5	364	ug/Kg	1	08/31/2012 18:55
4-Bromophenyl phenyl ether	ND	U	24.0	364	ug/Kg	1	08/31/2012 18:55
Butyl benzyl phthalate	ND	U	31.7	364	ug/Kg	1	08/31/2012 18:55
Chrysene	ND	U	42.4	364	ug/Kg	1	08/31/2012 18:55
Di-n-butyl phthalate	ND	U	17.2	364	ug/Kg	1	08/31/2012 18:55
Di-n-octyl phthalate	ND	U	20.1	364	ug/Kg	1	08/31/2012 18:55
Dibenz(a,h)anthracene	ND	U	16.4	364	ug/Kg	1	08/31/2012 18:55
Dibenzofuran	ND	U	28.5	364	ug/Kg	1	08/31/2012 18:55

Print Date: 09/10/2012

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Results of **S-5**

Client Sample ID: **S-5**
Client Project ID: **70127335 U-3315 #12**
Lab Sample ID: 31202771005-E
Lab Project ID: 31202771

Collection Date: 08/29/2012 10:46
Received Date: 08/30/2012 15:30
Matrix: Soil-Solid as dry weight
Solids (%): 81.80

Results by **SW-846 8270D**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Diethyl phthalate	ND	U	19.7	364	ug/Kg	1	08/31/2012 18:55
Dimethyl phthalate	ND	U	27.9	364	ug/Kg	1	08/31/2012 18:55
2,4-Dimethylphenol	ND	U	26.7	364	ug/Kg	1	08/31/2012 18:55
Diphenylamine	ND	U	16.4	364	ug/Kg	1	08/31/2012 18:55
Fluoranthene	ND	U	34.2	364	ug/Kg	1	08/31/2012 18:55
Fluorene	ND	U	19.3	364	ug/Kg	1	08/31/2012 18:55
Hexachlorobenzene	ND	U	34.5	364	ug/Kg	1	08/31/2012 18:55
Hexachlorobutadiene	ND	U	21.8	364	ug/Kg	1	08/31/2012 18:55
Hexachlorocyclopentadiene	ND	U	110	364	ug/Kg	1	08/31/2012 18:55
Hexachloroethane	ND	U	20.9	364	ug/Kg	1	08/31/2012 18:55
Indeno(1,2,3-cd)pyrene	ND	U	28.4	364	ug/Kg	1	08/31/2012 18:55
Isophorone	ND	U	16.5	364	ug/Kg	1	08/31/2012 18:55
Naphthalene	ND	U	31.4	364	ug/Kg	1	08/31/2012 18:55
4-Nitroaniline	ND	U	20.9	364	ug/Kg	1	08/31/2012 18:55
Nitrobenzene	ND	U	20.9	364	ug/Kg	1	08/31/2012 18:55
4-Nitrophenol	ND	U	35.8	364	ug/Kg	1	08/31/2012 18:55
Pentachlorophenol	ND	U	29.1	364	ug/Kg	1	08/31/2012 18:55
Phenanthrene	ND	U	24.0	364	ug/Kg	1	08/31/2012 18:55
Phenol	ND	U	34.0	364	ug/Kg	1	08/31/2012 18:55
Pyrene	ND	U	15.4	364	ug/Kg	1	08/31/2012 18:55
n-Nitrosodi-n-propylamine	ND	U	104	364	ug/Kg	1	08/31/2012 18:55
Surrogates							
2,4,6-Tribromophenol	82.0			41.0-129	%	1	08/31/2012 18:55
2-Fluorobiphenyl	80.0			48.0-123	%	1	08/31/2012 18:55
2-Fluorophenol	75.0			42.0-123	%	1	08/31/2012 18:55
Nitrobenzene-d5	83.0			46.0-117	%	1	08/31/2012 18:55
Phenol-d6	86.0			48.0-125	%	1	08/31/2012 18:55
Terphenyl-d14	89.0			44.0-140	%	1	08/31/2012 18:55

Batch Information

Analytical Batch: **XMS1656**
Analytical Method: **SW-846 8270D**
Instrument: **MSD10**
Analyst: **CMP**

Prep Batch: **XXX3001**
Prep Method: **SW-846 3541**
Prep Date/Time: **08/31/2012 09:05**
Prep Initial Wt./Vol.: **33.61 g**
Prep Extract Vol: **10 mL**

Print Date: 09/10/2012

N.C. Certification # 481

Results of **S-6**

Client Sample ID: **S-6**
Client Project ID: **70127335 U-3315 #12**
Lab Sample ID: 31202771006-C
Lab Project ID: 31202771

Collection Date: 08/29/2012 11:51
Received Date: 08/30/2012 15:30
Matrix: Soil-Solid as dry weight
Solids (%): 84.90

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	0.524	3.70	ug/Kg	1	09/5/2012 14:10
1,1,1-Trichloroethane	ND	U	0.557	3.70	ug/Kg	1	09/5/2012 14:10
1,1,2,2-Tetrachloroethane	ND	U	0.865	3.70	ug/Kg	1	09/5/2012 14:10
1,1,2-Trichloroethane	ND	U	0.769	3.70	ug/Kg	1	09/5/2012 14:10
1,1-Dichloroethane	ND	U	0.398	3.70	ug/Kg	1	09/5/2012 14:10
1,1-Dichloroethene	ND	U	0.857	3.70	ug/Kg	1	09/5/2012 14:10
1,1-Dichloropropene	ND	U	0.500	3.70	ug/Kg	1	09/5/2012 14:10
1,2,3-Trichlorobenzene	ND	U	0.615	3.70	ug/Kg	1	09/5/2012 14:10
1,2,3-Trichloropropane	ND	U	0.761	3.70	ug/Kg	1	09/5/2012 14:10
1,2,4-Trichlorobenzene	ND	U	0.539	3.70	ug/Kg	1	09/5/2012 14:10
1,2,4-Trimethylbenzene	ND	U	0.471	3.70	ug/Kg	1	09/5/2012 14:10
1,2-Dibromo-3-chloropropane	ND	U	5.48	22.2	ug/Kg	1	09/5/2012 14:10
1,2-Dibromoethane	ND	U	0.968	3.70	ug/Kg	1	09/5/2012 14:10
1,2-Dichlorobenzene	ND	U	0.525	3.70	ug/Kg	1	09/5/2012 14:10
1,2-Dichloroethane	ND	U	0.675	3.70	ug/Kg	1	09/5/2012 14:10
1,2-Dichloropropane	ND	U	0.850	3.70	ug/Kg	1	09/5/2012 14:10
1,3,5-Trimethylbenzene	ND	U	0.449	3.70	ug/Kg	1	09/5/2012 14:10
1,3-Dichlorobenzene	ND	U	0.531	3.70	ug/Kg	1	09/5/2012 14:10
1,3-Dichloropropane	ND	U	0.650	3.70	ug/Kg	1	09/5/2012 14:10
1,4-Dichlorobenzene	ND	U	0.499	3.70	ug/Kg	1	09/5/2012 14:10
2,2-Dichloropropane	ND	U	0.545	3.70	ug/Kg	1	09/5/2012 14:10
2-Butanone	ND	U	2.50	18.5	ug/Kg	1	09/5/2012 14:10
2-Chlorotoluene	ND	U	0.693	3.70	ug/Kg	1	09/5/2012 14:10
2-Hexanone	ND	U	2.38	9.24	ug/Kg	1	09/5/2012 14:10
4-Chlorotoluene	ND	U	0.559	3.70	ug/Kg	1	09/5/2012 14:10
4-Isopropyltoluene	ND	U	0.477	3.70	ug/Kg	1	09/5/2012 14:10
4-Methyl-2-pentanone	ND	U	2.76	9.24	ug/Kg	1	09/5/2012 14:10
Acetone	**8.90**	J	2.96	37.0	ug/Kg	1	09/5/2012 14:10
Benzene	ND	U	0.525	3.70	ug/Kg	1	09/5/2012 14:10
Bromobenzene	ND	U	0.515	3.70	ug/Kg	1	09/5/2012 14:10
Bromochloromethane	ND	U	0.695	3.70	ug/Kg	1	09/5/2012 14:10
Bromodichloromethane	ND	U	0.520	3.70	ug/Kg	1	09/5/2012 14:10
Bromoform	ND	U	0.535	3.70	ug/Kg	1	09/5/2012 14:10
Bromomethane	ND	U	1.07	3.70	ug/Kg	1	09/5/2012 14:10
n-Butylbenzene	ND	U	0.486	3.70	ug/Kg	1	09/5/2012 14:10
Carbon disulfide	ND	U	0.387	3.70	ug/Kg	1	09/5/2012 14:10
Carbon tetrachloride	ND	U	0.421	3.70	ug/Kg	1	09/5/2012 14:10
Chlorobenzene	ND	U	0.516	3.70	ug/Kg	1	09/5/2012 14:10
Chloroethane	ND	U	0.739	3.70	ug/Kg	1	09/5/2012 14:10
Chloroform	ND	U	0.471	3.70	ug/Kg	1	09/5/2012 14:10
Chloromethane	ND	U	1.06	3.70	ug/Kg	1	09/5/2012 14:10
Dibromochloromethane	ND	U	0.820	3.70	ug/Kg	1	09/5/2012 14:10
Dibromomethane	ND	U	0.652	3.70	ug/Kg	1	09/5/2012 14:10

Print Date: 09/10/2012

N.C. Certification # 481

Results of **S-6**

Client Sample ID: **S-6**
Client Project ID: **70127335 U-3315 #12**
Lab Sample ID: 31202771006-C
Lab Project ID: 31202771

Collection Date: 08/29/2012 11:51
Received Date: 08/30/2012 15:30
Matrix: Soil-Solid as dry weight
Solids (%): 84.90

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	0.776	3.70	ug/Kg	1	09/5/2012 14:10
cis-1,3-Dichloropropene	ND	U	0.761	3.70	ug/Kg	1	09/5/2012 14:10
trans-1,3-Dichloropropene	ND	U	0.698	3.70	ug/Kg	1	09/5/2012 14:10
Diisopropyl Ether	ND	U	0.607	3.70	ug/Kg	1	09/5/2012 14:10
Ethyl Benzene	ND	U	0.521	3.70	ug/Kg	1	09/5/2012 14:10
Hexachlorobutadiene	ND	U	0.508	3.70	ug/Kg	1	09/5/2012 14:10
Isopropylbenzene (Cumene)	ND	U	0.460	3.70	ug/Kg	1	09/5/2012 14:10
Methyl iodide	ND	U	0.566	3.70	ug/Kg	1	09/5/2012 14:10
Methylene chloride	ND	U	0.776	14.8	ug/Kg	1	09/5/2012 14:10
Naphthalene	ND	U	0.672	3.70	ug/Kg	1	09/5/2012 14:10
Styrene	ND	U	0.426	3.70	ug/Kg	1	09/5/2012 14:10
Tetrachloroethene	ND	U	0.555	3.70	ug/Kg	1	09/5/2012 14:10
Toluene	ND	U	0.508	3.70	ug/Kg	1	09/5/2012 14:10
Trichloroethene	ND	U	0.622	3.70	ug/Kg	1	09/5/2012 14:10
Trichlorofluoromethane	ND	U	0.746	3.70	ug/Kg	1	09/5/2012 14:10
Vinyl chloride	ND	U	0.702	3.70	ug/Kg	1	09/5/2012 14:10
Xylene (total)	ND	U	1.31	7.39	ug/Kg	1	09/5/2012 14:10
cis-1,2-Dichloroethene	ND	U	0.452	3.70	ug/Kg	1	09/5/2012 14:10
m,p-Xylene	ND	U	1.25	7.39	ug/Kg	1	09/5/2012 14:10
n-Propylbenzene	ND	U	0.541	3.70	ug/Kg	1	09/5/2012 14:10
o-Xylene	ND	U	0.566	3.70	ug/Kg	1	09/5/2012 14:10
sec-Butylbenzene	ND	U	0.443	3.70	ug/Kg	1	09/5/2012 14:10
tert-Butyl methyl ether (MTBE)	ND	U	0.588	3.70	ug/Kg	1	09/5/2012 14:10
tert-Butylbenzene	ND	U	0.497	3.70	ug/Kg	1	09/5/2012 14:10
trans-1,2-Dichloroethene	ND	U	0.540	3.70	ug/Kg	1	09/5/2012 14:10
trans-1,4-Dichloro-2-butene	ND	U	3.10	18.5	ug/Kg	1	09/5/2012 14:10
Surrogates							
1,2-Dichloroethane-d4	104			55.0-173	%	1	09/5/2012 14:10
4-Bromofluorobenzene	94.0			23.0-141	%	1	09/5/2012 14:10
Toluene d8	98.0			57.0-134	%	1	09/5/2012 14:10

Batch Information

Analytical Batch: **VMS2526**
Analytical Method: **SW-846 8260B**
Instrument: **MSD9**
Analyst: **DVO**

Prep Batch: **VXX3946**
Prep Method: **SW-846 5035 SL**
Prep Date/Time: **08/30/2012 16:45**
Prep Initial Wt./Vol.: **7.97 g**
Prep Extract Vol: **5 mL**

Print Date: 09/10/2012

N.C. Certification # 481

Results of **S-6**

Client Sample ID: **S-6**
Client Project ID: **70127335 U-3315 #12**
Lab Sample ID: 31202771006-E
Lab Project ID: 31202771

Collection Date: 08/29/2012 11:51
Received Date: 08/30/2012 15:30
Matrix: Soil-Solid as dry weight
Solids (%): 84.90

Results by **SW-846 8270D**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,2,4-Trichlorobenzene	ND	U	29.6	336	ug/Kg	1	08/31/2012 19:18
1,2-Dichlorobenzene	ND	U	16.7	336	ug/Kg	1	08/31/2012 19:18
1,3-Dichlorobenzene	ND	U	22.6	336	ug/Kg	1	08/31/2012 19:18
1,4-Dichlorobenzene	ND	U	23.7	336	ug/Kg	1	08/31/2012 19:18
2,4,5-Trichlorophenol	ND	U	22.4	336	ug/Kg	1	08/31/2012 19:18
2,4,6-Trichlorophenol	ND	U	22.7	336	ug/Kg	1	08/31/2012 19:18
2,4-Dichlorophenol	ND	U	19.4	336	ug/Kg	1	08/31/2012 19:18
2,4-Dinitrophenol	ND	U	31.1	670	ug/Kg	1	08/31/2012 19:18
2,4-Dinitrotoluene	ND	U	16.9	336	ug/Kg	1	08/31/2012 19:18
2,6-Dinitrotoluene	ND	U	24.0	336	ug/Kg	1	08/31/2012 19:18
2-Chloronaphthalene	ND	U	19.7	336	ug/Kg	1	08/31/2012 19:18
2-Chlorophenol	ND	U	17.8	336	ug/Kg	1	08/31/2012 19:18
2-Methylnaphthalene	ND	U	27.1	336	ug/Kg	1	08/31/2012 19:18
2-Methylphenol	ND	U	18.6	336	ug/Kg	1	08/31/2012 19:18
2-Nitroaniline	ND	U	22.1	336	ug/Kg	1	08/31/2012 19:18
2-Nitrophenol	ND	U	16.1	336	ug/Kg	1	08/31/2012 19:18
3 and/or 4-Methylphenol	ND	U	21.8	336	ug/Kg	1	08/31/2012 19:18
3,3'-Dichlorobenzidine	ND	U	16.1	336	ug/Kg	1	08/31/2012 19:18
3-Nitroaniline	ND	U	15.1	336	ug/Kg	1	08/31/2012 19:18
4,6-Dinitro-2-methylphenol	ND	U	15.8	336	ug/Kg	1	08/31/2012 19:18
4-Chloro-3-methylphenol	ND	U	16.7	336	ug/Kg	1	08/31/2012 19:18
4-Chloroaniline	ND	U	26.8	336	ug/Kg	1	08/31/2012 19:18
4-Chlorophenyl phenyl ether	ND	U	35.8	336	ug/Kg	1	08/31/2012 19:18
Acenaphthene	ND	U	15.2	336	ug/Kg	1	08/31/2012 19:18
Acenaphthylene	ND	U	14.2	336	ug/Kg	1	08/31/2012 19:18
Anthracene	ND	U	14.9	336	ug/Kg	1	08/31/2012 19:18
Benzo(a)anthracene	ND	U	18.4	336	ug/Kg	1	08/31/2012 19:18
Benzo(a)pyrene	ND	U	19.0	336	ug/Kg	1	08/31/2012 19:18
Benzo(b)fluoranthene	ND	U	19.3	336	ug/Kg	1	08/31/2012 19:18
Benzo(g,h,i)perylene	ND	U	53.4	336	ug/Kg	1	08/31/2012 19:18
Benzo(k)fluoranthene	ND	U	40.2	336	ug/Kg	1	08/31/2012 19:18
Benzoic acid	ND	U	7.44	336	ug/Kg	1	08/31/2012 19:18
Bis(2-Chloroethoxy)methane	ND	U	15.1	336	ug/Kg	1	08/31/2012 19:18
Bis(2-Chloroethyl)ether	ND	U	31.3	336	ug/Kg	1	08/31/2012 19:18
Bis(2-Chloroisopropyl)ether	ND	U	29.3	336	ug/Kg	1	08/31/2012 19:18
Bis(2-Ethylhexyl)phthalate	ND	U	16.1	336	ug/Kg	1	08/31/2012 19:18
4-Bromophenyl phenyl ether	ND	U	22.1	336	ug/Kg	1	08/31/2012 19:18
Butyl benzyl phthalate	ND	U	29.2	336	ug/Kg	1	08/31/2012 19:18
Chrysene	ND	U	39.0	336	ug/Kg	1	08/31/2012 19:18
Di-n-butyl phthalate	ND	U	15.9	336	ug/Kg	1	08/31/2012 19:18
Di-n-octyl phthalate	ND	U	18.6	336	ug/Kg	1	08/31/2012 19:18
Dibenz(a,h)anthracene	ND	U	15.1	336	ug/Kg	1	08/31/2012 19:18
Dibenzofuran	ND	U	26.3	336	ug/Kg	1	08/31/2012 19:18

Print Date: 09/10/2012

N.C. Certification # 481

Results of **S-6**

Client Sample ID: **S-6**
Client Project ID: **70127335 U-3315 #12**
Lab Sample ID: 31202771006-E
Lab Project ID: 31202771

Collection Date: 08/29/2012 11:51
Received Date: 08/30/2012 15:30
Matrix: Soil-Solid as dry weight
Solids (%): 84.90

Results by **SW-846 8270D**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Diethyl phthalate	ND	U	18.1	336	ug/Kg	1	08/31/2012 19:18
Dimethyl phthalate	ND	U	25.7	336	ug/Kg	1	08/31/2012 19:18
2,4-Dimethylphenol	ND	U	24.6	336	ug/Kg	1	08/31/2012 19:18
Diphenylamine	ND	U	15.1	336	ug/Kg	1	08/31/2012 19:18
Fluoranthene	ND	U	31.5	336	ug/Kg	1	08/31/2012 19:18
Fluorene	ND	U	17.8	336	ug/Kg	1	08/31/2012 19:18
Hexachlorobenzene	ND	U	31.7	336	ug/Kg	1	08/31/2012 19:18
Hexachlorobutadiene	ND	U	20.1	336	ug/Kg	1	08/31/2012 19:18
Hexachlorocyclopentadiene	ND	U	102	336	ug/Kg	1	08/31/2012 19:18
Hexachloroethane	ND	U	19.3	336	ug/Kg	1	08/31/2012 19:18
Indeno(1,2,3-cd)pyrene	ND	U	26.2	336	ug/Kg	1	08/31/2012 19:18
Isophorone	ND	U	15.2	336	ug/Kg	1	08/31/2012 19:18
Naphthalene	ND	U	29.0	336	ug/Kg	1	08/31/2012 19:18
4-Nitroaniline	ND	U	19.3	336	ug/Kg	1	08/31/2012 19:18
Nitrobenzene	ND	U	19.3	336	ug/Kg	1	08/31/2012 19:18
4-Nitrophenol	ND	U	33.0	336	ug/Kg	1	08/31/2012 19:18
Pentachlorophenol	ND	U	26.8	336	ug/Kg	1	08/31/2012 19:18
Phenanthrene	ND	U	22.1	336	ug/Kg	1	08/31/2012 19:18
Phenol	ND	U	31.3	336	ug/Kg	1	08/31/2012 19:18
Pyrene	ND	U	14.2	336	ug/Kg	1	08/31/2012 19:18
n-Nitrosodi-n-propylamine	ND	U	96.1	336	ug/Kg	1	08/31/2012 19:18
Surrogates							
2,4,6-Tribromophenol	81.0			41.0-129	%	1	08/31/2012 19:18
2-Fluorobiphenyl	76.0			48.0-123	%	1	08/31/2012 19:18
2-Fluorophenol	74.0			42.0-123	%	1	08/31/2012 19:18
Nitrobenzene-d5	83.0			46.0-117	%	1	08/31/2012 19:18
Phenol-d6	87.0			48.0-125	%	1	08/31/2012 19:18
Terphenyl-d14	86.0			44.0-140	%	1	08/31/2012 19:18

Batch Information

Analytical Batch: **XMS1656**
Analytical Method: **SW-846 8270D**
Instrument: **MSD10**
Analyst: **CMP**

Prep Batch: **XXX3001**
Prep Method: **SW-846 3541**
Prep Date/Time: **08/31/2012 09:05**
Prep Initial Wt./Vol.: **35.15 g**
Prep Extract Vol: **10 mL**

Print Date: 09/10/2012

N.C. Certification # 481

Results of **TW-1**

Client Sample ID: **TW-1**
Client Project ID: **70127335 U-3315 #12**
Lab Sample ID: 31202771007-A
Lab Project ID: 31202771

Collection Date: 08/29/2012 11:58
Received Date: 08/30/2012 15:30
Matrix: Water

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	0.175	1.00	ug/L	1	09/4/2012 14:37
1,1,1-Trichloroethane	ND	U	0.221	1.00	ug/L	1	09/4/2012 14:37
1,1,2,2-Tetrachloroethane	ND	U	0.223	1.00	ug/L	1	09/4/2012 14:37
1,1,2-Trichloroethane	ND	U	0.216	1.00	ug/L	1	09/4/2012 14:37
1,1-Dichloroethane	ND	U	0.162	1.00	ug/L	1	09/4/2012 14:37
1,1-Dichloroethene	ND	U	0.202	1.00	ug/L	1	09/4/2012 14:37
1,1-Dichloropropene	ND	U	0.176	1.00	ug/L	1	09/4/2012 14:37
1,2,3-Trichlorobenzene	ND	U	0.246	1.00	ug/L	1	09/4/2012 14:37
1,2,3-Trichloropropane	ND	U	0.210	1.00	ug/L	1	09/4/2012 14:37
1,2,4-Trichlorobenzene	ND	U	0.220	1.00	ug/L	1	09/4/2012 14:37
1,2,4-Trimethylbenzene	ND	U	0.179	1.00	ug/L	1	09/4/2012 14:37
1,2-Dibromo-3-chloropropane	ND	U	1.88	5.00	ug/L	1	09/4/2012 14:37
1,2-Dibromoethane	ND	U	0.179	1.00	ug/L	1	09/4/2012 14:37
1,2-Dichlorobenzene	ND	U	0.214	1.00	ug/L	1	09/4/2012 14:37
1,2-Dichloroethane	ND	U	0.139	1.00	ug/L	1	09/4/2012 14:37
1,2-Dichloropropane	ND	U	0.158	1.00	ug/L	1	09/4/2012 14:37
1,3,5-Trimethylbenzene	ND	U	0.159	1.00	ug/L	1	09/4/2012 14:37
1,3-Dichlorobenzene	ND	U	0.180	1.00	ug/L	1	09/4/2012 14:37
1,3-Dichloropropane	ND	U	0.198	1.00	ug/L	1	09/4/2012 14:37
1,4-Dichlorobenzene	ND	U	0.243	1.00	ug/L	1	09/4/2012 14:37
2,2-Dichloropropane	ND	U	0.194	1.00	ug/L	1	09/4/2012 14:37
2-Butanone	ND	U	1.39	25.0	ug/L	1	09/4/2012 14:37
2-Chlorotoluene	ND	U	0.160	1.00	ug/L	1	09/4/2012 14:37
2-Hexanone	ND	U	1.39	5.00	ug/L	1	09/4/2012 14:37
4-Chlorotoluene	ND	U	0.259	1.00	ug/L	1	09/4/2012 14:37
4-Isopropyltoluene	ND	U	0.170	1.00	ug/L	1	09/4/2012 14:37
4-Methyl-2-pentanone	ND	U	1.15	5.00	ug/L	1	09/4/2012 14:37
Acetone	ND	U	2.56	25.0	ug/L	1	09/4/2012 14:37
Benzene	ND	U	0.156	1.00	ug/L	1	09/4/2012 14:37
Bromobenzene	ND	U	0.205	1.00	ug/L	1	09/4/2012 14:37
Bromochloromethane	ND	U	0.134	1.00	ug/L	1	09/4/2012 14:37
Bromodichloromethane	ND	U	0.222	1.00	ug/L	1	09/4/2012 14:37
Bromoform	ND	U	0.208	1.00	ug/L	1	09/4/2012 14:37
Bromomethane	ND	U	0.507	1.00	ug/L	1	09/4/2012 14:37
n-Butylbenzene	ND	U	0.168	1.00	ug/L	1	09/4/2012 14:37
Carbon disulfide	ND	U	0.197	1.00	ug/L	1	09/4/2012 14:37
Carbon tetrachloride	ND	U	0.169	1.00	ug/L	1	09/4/2012 14:37
Chlorobenzene	ND	U	0.158	1.00	ug/L	1	09/4/2012 14:37
Chloroethane	ND	U	0.902	1.00	ug/L	1	09/4/2012 14:37
Chloroform	ND	U	0.205	1.00	ug/L	1	09/4/2012 14:37
Chloromethane	ND	U	0.295	1.00	ug/L	1	09/4/2012 14:37
Dibromochloromethane	ND	U	0.173	1.00	ug/L	1	09/4/2012 14:37
Dibromomethane	ND	U	0.171	1.00	ug/L	1	09/4/2012 14:37

Print Date: 09/10/2012

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Results of **TW-1**

Client Sample ID: **TW-1**
Client Project ID: **70127335 U-3315 #12**
Lab Sample ID: 31202771007-A
Lab Project ID: 31202771

Collection Date: 08/29/2012 11:58
Received Date: 08/30/2012 15:30
Matrix: Water

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	0.283	5.00	ug/L	1	09/4/2012 14:37
cis-1,3-Dichloropropene	ND	U	0.185	1.00	ug/L	1	09/4/2012 14:37
trans-1,3-Dichloropropene	ND	U	0.167	1.00	ug/L	1	09/4/2012 14:37
Diisopropyl Ether	ND	U	0.134	1.00	ug/L	1	09/4/2012 14:37
Ethyl Benzene	ND	U	0.186	1.00	ug/L	1	09/4/2012 14:37
Hexachlorobutadiene	ND	U	0.365	1.00	ug/L	1	09/4/2012 14:37
Isopropylbenzene (Cumene)	ND	U	0.196	1.00	ug/L	1	09/4/2012 14:37
Methyl iodide	ND	U	0.247	1.00	ug/L	1	09/4/2012 14:37
Methylene chloride	**0.200**	J	0.199	5.00	ug/L	1	09/4/2012 14:37
Naphthalene	ND	U	0.260	1.00	ug/L	1	09/4/2012 14:37
Styrene	ND	U	0.207	1.00	ug/L	1	09/4/2012 14:37
Tetrachloroethene	ND	U	0.225	1.00	ug/L	1	09/4/2012 14:37
Toluene	**0.510**	J	0.180	1.00	ug/L	1	09/4/2012 14:37
Trichloroethene	ND	U	0.199	1.00	ug/L	1	09/4/2012 14:37
Trichlorofluoromethane	ND	U	0.308	1.00	ug/L	1	09/4/2012 14:37
Vinyl chloride	ND	U	0.386	1.00	ug/L	1	09/4/2012 14:37
Xylene (total)	ND	U	0.602	2.00	ug/L	1	09/4/2012 14:37
cis-1,2-Dichloroethene	ND	U	0.179	1.00	ug/L	1	09/4/2012 14:37
m,p-Xylene	ND	U	0.407	2.00	ug/L	1	09/4/2012 14:37
n-Propylbenzene	ND	U	0.185	1.00	ug/L	1	09/4/2012 14:37
o-Xylene	ND	U	0.195	1.00	ug/L	1	09/4/2012 14:37
sec-Butylbenzene	ND	U	0.151	1.00	ug/L	1	09/4/2012 14:37
tert-Butyl methyl ether (MTBE)	ND	U	0.195	1.00	ug/L	1	09/4/2012 14:37
tert-Butylbenzene	ND	U	0.239	1.00	ug/L	1	09/4/2012 14:37
trans-1,2-Dichloroethene	ND	U	0.247	1.00	ug/L	1	09/4/2012 14:37
trans-1,4-Dichloro-2-butene	ND	U	1.25	5.00	ug/L	1	09/4/2012 14:37
Surrogates							
1,2-Dichloroethane-d4	104			64.0-140	%	1	09/4/2012 14:37
4-Bromofluorobenzene	99.0			85.0-115	%	1	09/4/2012 14:37
Toluene d8	100			82.0-117	%	1	09/4/2012 14:37

Batch Information

Analytical Batch: **VMS2521**
Analytical Method: **SW-846 8260B**
Instrument: **MSD3**
Analyst: **BWS**

Prep Batch: **VXX3941**
Prep Method: **SW-846 5030B**
Prep Date/Time: **09/04/2012 08:46**
Prep Initial Wt./Vol.: **40 mL**
Prep Extract Vol: **40 mL**

Print Date: 09/10/2012

N.C. Certification # 481

Results of **TW-1**

Client Sample ID: **TW-1**
Client Project ID: **70127335 U-3315 #12**
Lab Sample ID: 31202771007-D
Lab Project ID: 31202771

Collection Date: 08/29/2012 11:58
Received Date: 08/30/2012 15:30
Matrix: Water

Results by **SW-846 8270D**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,2,4-Trichlorobenzene	ND	U	1.77	5.12	ug/L	1	09/5/2012 11:43
1,2-Dichlorobenzene	ND	U	1.75	5.12	ug/L	1	09/5/2012 11:43
1,3-Dichlorobenzene	ND	U	1.69	5.12	ug/L	1	09/5/2012 11:43
1,4-Dichlorobenzene	ND	U	1.67	5.12	ug/L	1	09/5/2012 11:43
2,4,5-Trichlorophenol	ND	U	2.13	5.12	ug/L	1	09/5/2012 11:43
2,4,6-Trichlorophenol	ND	U	2.08	5.12	ug/L	1	09/5/2012 11:43
2,4-Dichlorophenol	ND	U	2.11	5.12	ug/L	1	09/5/2012 11:43
2,4-Dinitrophenol	ND	U	0.684	25.6	ug/L	1	09/5/2012 11:43
2,4-Dinitrotoluene	ND	U	1.89	5.12	ug/L	1	09/5/2012 11:43
2,6-Dinitrotoluene	ND	U	1.93	5.12	ug/L	1	09/5/2012 11:43
2-Chloronaphthalene	ND	U	2.05	5.12	ug/L	1	09/5/2012 11:43
2-Chlorophenol	ND	U	2.88	5.12	ug/L	1	09/5/2012 11:43
2-Methylnaphthalene	ND	U	1.99	5.12	ug/L	1	09/5/2012 11:43
2-Methylphenol	ND	U	2.12	5.12	ug/L	1	09/5/2012 11:43
2-Nitroaniline	ND	U	1.73	5.12	ug/L	1	09/5/2012 11:43
2-Nitrophenol	ND	U	2.02	5.12	ug/L	1	09/5/2012 11:43
3 and/or 4-Methylphenol	ND	U	2.30	5.12	ug/L	1	09/5/2012 11:43
3,3'-Dichlorobenzidine	ND	U	1.79	10.2	ug/L	1	09/5/2012 11:43
3-Nitroaniline	ND	U	1.69	25.6	ug/L	1	09/5/2012 11:43
4,6-Dinitro-2-methylphenol	ND	U	0.506	25.6	ug/L	1	09/5/2012 11:43
4-Chloro-3-methylphenol	ND	U	2.03	5.12	ug/L	1	09/5/2012 11:43
4-Chloroaniline	ND	U	1.93	25.6	ug/L	1	09/5/2012 11:43
4-Chlorophenyl phenyl ether	ND	U	2.52	5.12	ug/L	1	09/5/2012 11:43
Acenaphthene	ND	U	2.11	5.12	ug/L	1	09/5/2012 11:43
Acenaphthylene	ND	U	2.05	5.12	ug/L	1	09/5/2012 11:43
Anthracene	ND	U	1.98	5.12	ug/L	1	09/5/2012 11:43
Benzo(a)anthracene	ND	U	2.01	5.12	ug/L	1	09/5/2012 11:43
Benzo(a)pyrene	ND	U	1.91	5.12	ug/L	1	09/5/2012 11:43
Benzo(b)fluoranthene	ND	U	2.01	5.12	ug/L	1	09/5/2012 11:43
Benzo(g,h,i)perylene	ND	U	2.20	5.12	ug/L	1	09/5/2012 11:43
Benzo(k)fluoranthene	ND	U	2.37	5.12	ug/L	1	09/5/2012 11:43
Benzoic acid	ND	U	2.34	5.12	ug/L	1	09/5/2012 11:43
Bis(2-Chloroethoxy)methane	ND	U	2.17	5.12	ug/L	1	09/5/2012 11:43
Bis(2-Chloroethyl)ether	ND	U	2.26	5.12	ug/L	1	09/5/2012 11:43
Bis(2-Chloroisopropyl)ether	ND	U	2.09	5.12	ug/L	1	09/5/2012 11:43
Bis(2-Ethylhexyl)phthalate	ND	U	2.00	5.12	ug/L	1	09/5/2012 11:43
4-Bromophenyl phenyl ether	ND	U	2.09	5.12	ug/L	1	09/5/2012 11:43
Butyl benzyl phthalate	ND	U	1.94	5.12	ug/L	1	09/5/2012 11:43
Chrysene	ND	U	2.25	5.12	ug/L	1	09/5/2012 11:43
Di-n-butyl phthalate	ND	U	1.96	5.12	ug/L	1	09/5/2012 11:43
Di-n-octyl phthalate	ND	U	1.50	5.12	ug/L	1	09/5/2012 11:43
Dibenz(a,h)anthracene	ND	U	2.07	5.12	ug/L	1	09/5/2012 11:43
Dibenzofuran	ND	U	2.27	5.12	ug/L	1	09/5/2012 11:43

Print Date: 09/10/2012

N.C. Certification # 481

Results of **TW-1**

Client Sample ID: **TW-1**
Client Project ID: **70127335 U-3315 #12**
Lab Sample ID: 31202771007-D
Lab Project ID: 31202771

Collection Date: 08/29/2012 11:58
Received Date: 08/30/2012 15:30
Matrix: Water

Results by **SW-846 8270D**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Diethyl phthalate	ND	U	2.15	5.12	ug/L	1	09/5/2012 11:43
Dimethyl phthalate	ND	U	2.19	5.12	ug/L	1	09/5/2012 11:43
2,4-Dimethylphenol	ND	U	2.26	5.12	ug/L	1	09/5/2012 11:43
Diphenylamine	ND	U	2.07	5.12	ug/L	1	09/5/2012 11:43
Fluoranthene	ND	U	2.07	5.12	ug/L	1	09/5/2012 11:43
Fluorene	ND	U	2.50	5.12	ug/L	1	09/5/2012 11:43
Hexachlorobenzene	ND	U	1.98	5.12	ug/L	1	09/5/2012 11:43
Hexachlorobutadiene	ND	U	1.56	5.12	ug/L	1	09/5/2012 11:43
Hexachlorocyclopentadiene	ND	U	0.807	10.2	ug/L	1	09/5/2012 11:43
Hexachloroethane	ND	U	1.43	5.12	ug/L	1	09/5/2012 11:43
Indeno(1,2,3-cd)pyrene	ND	U	2.07	5.12	ug/L	1	09/5/2012 11:43
Isophorone	ND	U	2.14	5.12	ug/L	1	09/5/2012 11:43
Naphthalene	ND	U	1.99	5.12	ug/L	1	09/5/2012 11:43
4-Nitroaniline	ND	U	1.72	25.6	ug/L	1	09/5/2012 11:43
Nitrobenzene	ND	U	2.24	5.12	ug/L	1	09/5/2012 11:43
4-Nitrophenol	ND	U	1.30	25.6	ug/L	1	09/5/2012 11:43
Pentachlorophenol	ND	U	1.59	25.6	ug/L	1	09/5/2012 11:43
Phenanthrene	ND	U	2.04	5.12	ug/L	1	09/5/2012 11:43
Phenol	ND	U	2.42	5.12	ug/L	1	09/5/2012 11:43
Pyrene	ND	U	2.06	5.12	ug/L	1	09/5/2012 11:43
n-Nitrosodi-n-propylamine	ND	U	2.28	5.12	ug/L	1	09/5/2012 11:43
Surrogates							
2,4,6-Tribromophenol	106			29.3-152	%	1	09/5/2012 11:43
2-Fluorobiphenyl	92.0			50.0-107	%	1	09/5/2012 11:43
2-Fluorophenol	62.0			33.1-118	%	1	09/5/2012 11:43
Nitrobenzene-d5	93.0			46.0-118	%	1	09/5/2012 11:43
Phenol-d6	84.0			49.0-120	%	1	09/5/2012 11:43
Terphenyl-d14	107			22.1-142	%	1	09/5/2012 11:43

Batch Information

Analytical Batch: **XMS1657**
Analytical Method: **SW-846 8270D**
Instrument: **MSD10**
Analyst: **CMP**

Prep Batch: **XXX3002**
Prep Method: **SW-846 3520C**
Prep Date/Time: **09/04/2012 09:12**
Prep Initial Wt./Vol.: **976 mL**
Prep Extract Vol: **5 mL**

Print Date: 09/10/2012

N.C. Certification # 481

SGS | Analytical Perspectives

CHAIN OF CUSTODY #12

SGS ANALYTICAL PERSPECTIVES
5500 Business Drive
Wilmington, NC 28405
+1 910 350 1903
WWW.SGS.COM

CLIENT: Terracon / NCDOT
CONTACT: Ben Swift **PHONE NO:** ( )
PROJECT: 70127335 **SITE / PWSID / WBS #:** U-3315 #12
REPORTS TO: lchoffman@terracon.com
EMAIL:
INVOICE TO: NCDOT **QUOTE #** NA **P.O. NUMBER** NA

SGS Reference #: 31202771

PAGE 1 **OF** 1

PRESERVATIVES USED: NaSO4/MeOH; None
ANALYSIS REQUIRED: 8260 (VOCs); 8270 (SVOCs)

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	# CONTAINERS	SAMPLE TYPE (C= COMP, G= GRAB)	8260 (VOCs)	8270 (SVOCs)	REMARKS
1	S-1	8/29/12	0920	G	5		X	X	
2	S-2		1015						
3	S-3		1025						
4	S-4		1030						
5	S-5		1046						
6	S-6		1151						
7	TW-1		1158						

COLLECTED/RELINQUISHED BY: (1)	DATE	TIME	RECEIVED BY:	
Ben Swift	8/30/12	0615	[signature]	8/30/12 1230
Relinquished By: (2) [signature]	Date 8/30/12	Time 1430	Received By: [signature]	8/30/12 15:30
Relinquished By: (3)	Date	Time	Received By:	
Received For Laboratory By:	Date	Time	CoC Seal: INTACT BROKEN (ABSENT) Sample Receipt Temp: C 2.5°C	

REPORT LEVEL: ☐ Level I ☐ Level II ☐ Level IV

REQUESTED TURNAROUND TIME: ☐ Rush:____ ☑ Standard

SPECIAL DELIVERABLES: State of Origin:____ ☐ Trust Fund ☐ DoD ☐ EDD:____ Other:____

SPECIAL INSTRUCTIONS:

Shipping Carrier:
Shipping Ticket No:
Notes:

SGS-00055 (06/12)

ANALYTICAL PERSPECTIVES IS NOW PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.

White - Retained by Lab
Yellow - Retained by Client

SGS North America Inc.

Sample Receipt Checklist (SRC)

Client: **Terracon/NCDOT** Work Order No.: **31202771**

1. ___ Shipped
   X Hand Delivered
   Notes: SGS Courier

2. X COC Present on Receipt
   ___ No COC
   ___ Additional Transmittal Forms

3. ___ Custody Tape on Container
   X No Custody Tape

4. X Samples Intact
   ___ Samples Broken / Leaking

5. X Chilled on Receipt Actual Temp.(s) in °C: 2.5
   ___ Ambient on Receipt
   ___ Walk-in on Ice; Coming down to temp.
   ___ Received Outside of Temperature Specifications

6. X Sufficient Sample Submitted
   ___ Insufficient Sample Submitted

7. ___ Chlorine absent
   ___ HNO3 < 2
   ___ HCL < 2
   ___ Additional Preservatives verified (see notes)

8. X Received Within Holding Time
   ___ Not Received Within Holding Time

9. X No Discrepancies Noted
   ___ Discrepancies Noted
   ___ NCDENR notified of Discrepancies*

10. X No Headspace present in VOC vials
    ___ Headspace present in VOC vials >6mm

Comments:

Inspected and Logged in by: MP/JMM
Date: Thu-8/30/12 00:00

*NCDENR must be notified when collection, holding time or preservation requirements are not met.