

Preliminary Site Assessment

Grande Avenue and Dickenson Avenue

Parcel #81, Corey, Herbert S.

Greenville, Pitt County, North Carolina

State Project No. U-3315

WBS Element: 35781.1.2

February 20, 2013

Terracon Project No. 70127335



Prepared for:

North Carolina Department of Transportation (NCDOT)
Geotechnical Engineering Unit

Prepared by:

Terracon Consultants, Inc.
Raleigh, North Carolina

Offices Nationwide
Employee-Owned

Established in 1965
terracon.com

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Geotechnical



Environmental



Construction Materials



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Appendix B: Geophysical Survey Report

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February 20, 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 81, Corey, Herbert S.
Grande Avenue and Dickenson Avenue
Greenville, Pitt 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 February 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



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Geotechnical



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Facilities

PRELIMINARY SITE ASSESSMENT

**PARCEL 81, COREY, HERBERT S.
GRANDE AVENUE AND DICKENSON AVENUE
GREENVILLE, PITT COUNTY, NORTH CAROLINA**

1.0 INTRODUCTION

1.1 Site Description

Site Name	Parcel 81, Corey, Herbert S. (Dry cleaners, storage lots, miscellaneous)
Site Location/Address	West of the intersection of Grande Avenue and Dickenson Avenue in Greenville, North Carolina
General Site Description	The site includes five contiguous parcels that were previously utilized as a dry cleaners, storage lots, and miscellaneous buildings.

1.2 Site History

According to information provided by the NCDOT and collected by Terracon, there are no known release incidents associated with the site. The former dry cleaning facility is not enrolled within the North Carolina Department of Environment and Natural Resources (NCDENR) DSCA Program. Terracon reviewed Sanborn maps to determine the site history. The site was depicted on the 1911, 1916, and 1923 maps as two residential structures. From 1929 to 1958, the maps depict two residential structures with the addition of a filling station and several gas tanks. The NCDOT intends to acquire the entire parcel as part of their proposed road construction activities.

1.3 Scope of Work

Terracon has prepared the following Preliminary Site Assessment (PSA) scope of work 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 nine 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 authorized by you and were not conducted in accordance with 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 the North Carolina Department of Transportation (NCDOT). Authorization for use or reliance by another 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 22, 23, 29, and September 6 and 7, 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 depicts the approximate locations of the site features and soil boring locations.

2.1 Geophysical Survey

On August 22, 23 and 29, 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 site. 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 within 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 provided oversight of the advancement of nine (9) soil borings (B-1 through B-9) within the interior of the site and along the north and east sides of the former dry-cleaning facility on August 31, 2012 and September 6 and 7, 2012. The borings were completed by Bridger Drilling Enterprises, Inc., a North Carolina licensed driller using a Geoprobe® rig.

Soil borings B-1 through B-7 were advanced in the southern portion of the site where a former storage lot was located. Soil borings B-8 and B-9 were advanced along Grande Avenue and Chestnut Street, respectively in areas near the former dry cleaning facility in the northern portion of the site. Soil borings B-8 and B-9 were located outside of the building footprint due to access issues and potential structural integrity issues.

Soil samples were collected in 5-foot, disposable, acetate sleeves to document soil lithology, color, moisture content, and sensory evidence of impairment. The soil samples were placed in resealable plastic bags 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 each 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 through B-9 were each advanced to a depth of approximately 15 feet below ground surface (bgs). Groundwater levels ranged from approximately six and 14 feet bgs in the borings. Since the apparent depth to groundwater was variable in the borings, soils were only screened at depths above the saturated zone. Soils obtained from the acetate sleeves were separated into two and half foot intervals.

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

2.3 Groundwater Sampling

A previously installed on-site monitoring well (MW-1) was sampled on September 6, 2012. Groundwater was measured in monitoring well MW-1 at a depth of approximately 13.9 feet bgs. The monitoring well was purged by removing three times its water column volume with a peristaltic pump prior to sampling. A water sample was collected from the monitoring well and placed into laboratory supplied, pre-preserved sample containers. The ice-packed sample

container and chain of custody documentation were picked up by a 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 the samples; however, asphalt odors were detected in the surface sample from soil boring B-2. Soil samples from the interval exhibiting the highest PID readings or most obvious evidence of contamination were submitted for laboratory analysis.

3.0 LABORATORY ANALYSES

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 detected tetrachloroethene (PCE) at a concentration of 0.00514 milligrams/kilogram (mg/kg) in soil sample S-5 which is above the NCDENR Inactive Hazardous Sites Branch (IHSB) Protection of Groundwater Preliminary Soil Remediation Goal (PSRG) of 0.005 mg/kg but below the IHSB Residential PSRG of 17 mg/kg.

SVOC compounds were not detected in the soil samples above their laboratory method reporting limits.

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

4.2 Groundwater Analytical Results and Interpretation

Laboratory analytical results for groundwater sample MW-1 reported tetrachloroethene (5.94 ug/L) at a concentration that exceeds the NCAC 2L Groundwater Quality Standard of 0.7 ug/L.

SVOC compounds were not detected in the groundwater sample from well MW-1 above laboratory method reporting limits.

A summary of the groundwater sampling analytical results is 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.
- Nine soil borings were each advanced to a depth of approximately 15 feet bgs.
- Laboratory analytical results detected PCE at a concentration of 0.00514 mg/kg in soil sample S-5 which is above the IHSB Protection of Groundwater Preliminary Soil Remediation Goal of 0.005 mg/kg but below the IHSB Residential PSRG of 17 mg/kg. SVOC compounds were not detected in the soil samples above their laboratory method reporting limits.

Contamination of soils appears to be localized; however, the extent of contamination could not be determined due to access issues and potential structural integrity issues at the site. The detection of PCE in soil sample S-5 may be an indication that additional soils are impacted under the remaining on-site structures. The extent of impacted soil can only be determined by additional assessment activities at the site after demolition of the remaining on-site buildings.

- Based on information provided by the NCDOT, Terracon understands that piles are planned for the bridge foundation at soil sample S-5; therefore, excavation of contaminated soils would not be necessary.
- The depth to groundwater was measured in well MW-1 at approximately 13.9 feet bgs.
- Laboratory analytical results for groundwater sample MW-1 reported PCE (5.94 ug/L) at a concentration that exceeds the NCAC 2L Groundwater Quality Standard of 0.7 ug/L. SVOC compounds were not detected in the groundwater sample from well MW-1 above laboratory method reporting limits.
- Based on the analytical results, the soils and groundwater at the site have apparently been impacted by past dry cleaning operations. Similar dry cleaning constituents have also been detected in the groundwater on the adjacent properties to the east-northeast, south and southeast (Parcels 82, 187 and 186). The presence of chlorinated constituents related to dry cleaning operations in on-site soils and groundwater indicates a release may have occurred at the former dry cleaning facility located in the northern portion of the site.

TABLES

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

Table 1
Soil Sampling Analytical Results Summary
Parcel #81, Corey, Herbert S. Property
Greenville, Pitt County, North Carolina
Terracon Project No, 70127335

Method	Parameter	Units	NCDENR IHSB Residential Health Based PSRGs (mg/kg)	NCDENR IHSB Protection of Groundwater PSRGs (mg/kg)	Sample ID		S-1	S-2	S-3	S-4	S-5	S-6	S-7	S-8	S-9
					Depth	2.5-5.0 FT	12.5-15.0 FT	12.5-15.0 FT	5.0-7.5 FT	0-2.5 FT	0-2.5 FT	12.5-15.0 FT	5.0-7.5 FT	5.0-7.5 FT	
8260B	Tetrachloroethene	mg/kg	1.7	0.005		<0.0042	<0.00504	<0.00528	<0.00451	0.00514	<0.00487	<0.00463	<0.00533	<0.00472	
8270C	SVOCs	mg/kg			No Analytes Detected Above the Laboratory Detection Limits										

Notes:

Samples collected on August 31, 2012 and September 6th and 7th, 2012

NE = Not established

units = mg/kg - sample analyte compound concentrations measured in milligrams per kilogram

Results in **Bold and Highlighted in Yellow** indicate a reported concentration above the IHSB Protection of Groundwater PSRGs (Updated May 2012)

IHSB = Inactive Hazardous Sites Branch

PSRGs = Preliminary Soil Remediation Goals

= Due to sample interference and laboratory instrumentation limitations, the laboratory method detection limits were adjusted to a concentration above the IHSB Protection of Groundwater PSRGs (Updated May 2012)

Table 1
Soil Sampling Analytical Results Summary
Parcel #81, Corey, Herbert S. Property
Greenville, Pitt County, North Carolina
Terracon Project No, 70127335



				Sample ID MW-1
				Depth 13.9 FT
Method	Parameter	Units	NCAC 2L Groundwater Quality Standard	Value
8260B	Tetrachloroethene	ug/l	0.7	5.94
8270C	SVOCs	ug/l	No Analytes Detected Above the Laboratory Detection Limits	

Notes:

Sample GW collected on August 29, 2012

NE = Not established

units = ug/L - sample analyte compound concentrations measured in micrograms per liter

Bold and highlighted concentrations were reported above the laboratory method detection limits and the NCAC 2L Groundwater Quality Standard.

FIGURES

Exhibit 1 – Site Vicinity Map (Topographic Map)

Exhibit 2 – Site Diagram with Soil Boring Locations and Analytical Data

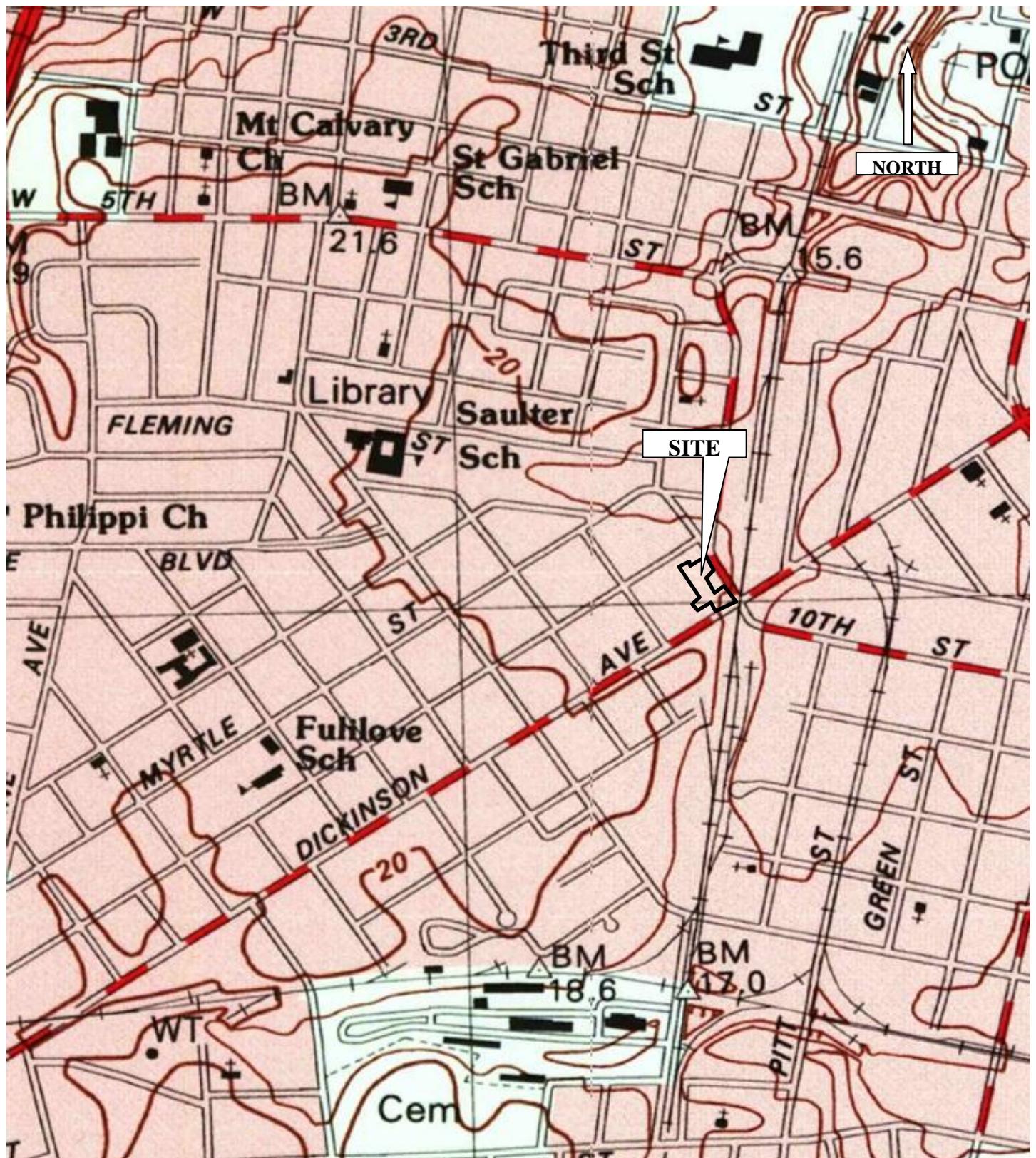


Diagram is for general location only

**Site Vicinity Map
Parcel # 81**

**West of Grande Av. And Dickinson Av.
Greenville, Pitt County, North Carolina**

Reference: Greenville SW, NC USGS Quadrangle

Dated Year: 1998

Terracon

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

LEGEND

- PROPERTY LINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE WITH IRON PIN AND CAP MARKER
- PROPOSED CONTROL OF ACCESS
- PROPOSED CONSTRUCTION EASEMENT
- PROPOSED EDGE OF TRAVEL
- PROPOSED CUT / FILL LINE
- PUE - PROPOSED PERMANENT UTILITY EASEMENT
- PROPOSED CATCH BASIN
- PROPOSED DRAINAGE PIPING
- ESTIMATED SOIL CONTAMINATION
- SOIL SAMPLE LOCATION
- MONITORING WELL LOCATION

NOTES:

1. MAXIMUM SOIL CONTAMINATION CONCENTRATION LEVELS (MSCCs)
NCAC 2L GROUNDWATER QUALITY STANDARD



0 25 50
FEET

SCALE:	1:50
PROJ. REFERENCE NUMBER:	35781.1.2
DATE:	FEBRUARY 2013
DRAWN BY:	MJA
APPROVED BY:	LCH / SJK
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
HERBERT S. COREY & WF JO ANNE W. COREY PROPERTY - PARCEL 81
-L- STATION 64+00
1000 DICKENSON AVENUE
GREENVILLE, PITT COUNTY, NORTH CAROLINA

EXHIBIT 2

APPENDICES

Appendix A – Boring Logs

Appendix B – Geophysical Survey Report

Appendix C – Laboratory Analytical Reports and Chain of Custody

SOIL BORING LOG

PROJECT NAME: Stantonburg/Tenth Street Connector				SOIL BORING I.D.: B-1		
PROJECT NO.: 70127335				DATE(S) DRILLED: August 31, 2012		
PROJECT LOCATION: West of intersection of Grande Avenue and Dickinson 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	0.9	No petroleum odors	0.0	Asphalt
					0.5	Tan, orange sandy clay
					1.0	
					1.5	
					2.0	Whit, tan sandy clay
2.5 - 5.0*		NA	1.0		2.5	
					3.0	
					3.5	
					4.0	Orange, tan sandy clay
					4.5	
5.0 - 7.5		NA	0.2		5.0	
					5.5	
					6.0	Moist at 6 feet bgs
					6.5	
					7.0	
7.5 - 10.0		NA	0.1		7.5	
					8.0	
					8.5	
					9.0	
10.0 - 12.5		NA	0.1		9.5	
					10.0	
					10.5	
12.5 - 15		NA	0.1		11.0	
					11.5	
					12.0	Tan, fine to medium sand
					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			SAMPLING METHODS			
AR - AIR ROTARY			SS - SPLIT SPOON			
CFA - CONTINUOUS FLIGHT AUGER			ST - SHELBY TUBE			
DC - DRIVEN CASING			GP - GEOPROBE			
HA - HAND AUGER						
HSA - HOLLOW STEM AUGER						
MD - MUD DRILLING						
RC - ROCK CORING						
WR - WATER ROTARY						
			* - Sample collected for analysis ND = <1 ppm			
Terracon						

SOIL BORING LOG

PROJECT NAME: Stantonburg/Tenth Street Connector				SOIL BORING I.D.: B-2			
PROJECT NO.: 70127335				DATE(S) DRILLED: August 31, 2012			
PROJECT LOCATION: West of intersection of Grande Avenue and Dickinson Avenue Greenville, North Carolina				DRILLING CONTR.: Bridger Drilling Enterprises, Inc.			
CLIENT: NCDOT Geoenvironmental				DRILL METHOD: Geoprobe			
LOGGED BY: Ben Swift				BORING DIAMETER: 2 inches			
				SAMPLING METHOD/INTERVAL: 5-Foot			
				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	0.2		Petroleum odor	0.0	Asphalt	
					0.5	Tan clayey sand	
					1.0		
					1.5		
					2.0		
2.5 - 5.0	NA	0.2			No petroleum odor	2.5	
						3.0	
						3.5	
						4.0	
						4.5	
5.0 - 7.5	NA	0.2				5.0	
						5.5	
						6.0	
						6.5	
						7.0	Tan silty sand
7.5 - 10.0	NA	0.2				7.5	
						8.0	
						8.5	
						9.0	
						9.5	
10.0 - 12.5	NA	0.0				10.0	
						10.5	
						11.0	
						11.5	
						12.0	
12.5 - 15*	NA	0.6			Slight petroleum odor	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			

SOIL BORING LOG

PROJECT NAME: Stantonburg/Tenth Street Connector				SOIL BORING I.D.: B-3		
PROJECT NO.: 70127335				DATE(S) DRILLED: August 31, 2012		
PROJECT LOCATION: West of intersection of Grande Avenue and Dickinson 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	0.0	No Petroleum odors	0.0	Asphalt
					0.5	Tan sand
					1.0	Tan, orange sandy clay
					1.5	
					2.0	
					2.5	
					3.0	
					3.5	
					4.0	
					4.5	
					5.0	
					5.5	
					6.0	
					6.5	
					7.0	
					7.5	
7.5 - 10.0		NA	0.0		8.0	Tan silty sand
					8.5	
					9.0	
					9.5	
10.0 - 12.5		NA	0.3		10.0	
					10.5	
					11.0	
					11.5	
					12.0	
12.5 - 15*		NA	0.7		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			SAMPLING METHODS			
AR - AIR ROTARY			SS - SPLIT SPOON			
CFA - CONTINUOUS FLIGHT AUGER			ST - SHELBY TUBE			
DC - DRIVEN CASING			GP - GEOPROBE			
HA - HAND AUGER						
HSA - HOLLOW STEM AUGER						
MD - MUD DRILLING						
RC - ROCK CORING						
WR - WATER ROTARY						
			* - Sample collected for analysis ND = <1 ppm			
Terracon						

SOIL BORING LOG

PROJECT NAME: Stantonburg/Tenth Street Connector				SOIL BORING I.D.: B-4		
PROJECT NO.: 70127335				DATE(S) DRILLED: August 31, 2012		
PROJECT LOCATION: West of intersection of Grande Avenue and Dickinson 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	0.3	No Petroleum odors	0.0	Asphalt
					0.5	Tan, orange sandy clay/moist
					1.0	
					1.5	
					2.0	
2.5 - 5.0		NA	0.8		2.5	
					3.0	
					3.5	
					4.0	
					4.5	
5.0 - 7.5*		NA	1.3		5.0	
					5.5	
					6.0	
					6.5	
					7.0	Tan orange sand/moist
7.5 - 10.0		NA	0.4		7.5	
					8.0	
					8.5	
					9.0	
					9.5	
10.0 - 12.5		NA	0.0		10.0	
					10.5	
					11.0	
					11.5	
					12.0	Tan orange clayey sand/moist
12.5 - 15		NA	0.0		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			SAMPLING METHODS			
AR - AIR ROTARY			SS - SPLIT SPOON			
CFA - CONTINUOUS FLIGHT AUGER			ST - SHELBY TUBE			
DC - DRIVEN CASING			GP - GEOPROBE			
HA - HAND AUGER						
HSA - HOLLOW STEM AUGER						
MD - MUD DRILLING						
RC - ROCK CORING						
WR - WATER ROTARY						
			* - Sample collected for analysis ND = <1 ppm			
Terracon						

SOIL BORING LOG

PROJECT NAME: Stantonburg/Tenth Street Connector				SOIL BORING I.D.: B-5		
PROJECT NO.: 70127335				DATE(S) DRILLED: August 31, 2012		
PROJECT LOCATION: West of intersection of Grande Avenue and Dickinson 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	0.1	No Petroleum odors	0.0	Asphalt
					0.5	Tan, orange clayey sand
					1.0	
					1.5	
					2.0	
2.5 - 5.0		NA	0.0		2.5	
					3.0	
					3.5	
					4.0	
					4.5	
5.0 - 7.5		NA	0.0		5.0	
					5.5	
					6.0	
					6.5	
					7.0	
7.5 - 10.0		NA	0.0		7.5	
					8.0	Tan, fine to medium sand
					8.5	
					9.0	
					9.5	
10.0 - 12.5		NA	0.0	Orange, fine to medium Sand	10.0	Orange, fine to medium Sand
					10.5	
					11.0	
					11.5	
					12.0	
12.5 - 15		NA	0.0		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			SAMPLING METHODS			
AR - AIR ROTARY			SS - SPLIT SPOON			
CFA - CONTINUOUS FLIGHT AUGER			ST - SHELBY TUBE			
DC - DRIVEN CASING			GP - GEOPROBE			
HA - HAND AUGER						
HSA - HOLLOW STEM AUGER						
MD - MUD DRILLING						
RC - ROCK CORING						
WR - WATER ROTARY						
			* - Sample collected for analysis ND = <1 ppm			
Terracon						

SOIL BORING LOG

PROJECT NAME: Stantonburg/Tenth Street Connector				SOIL BORING I.D.: B-6		
PROJECT NO.: 70127335				DATE(S) DRILLED: August 31, 2012		
PROJECT LOCATION: West of intersection of Grande Avenue and Dickinson 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	0.0	No Petroleum odors	0.0	Asphalt
					0.5	Grey, orange sandy clay
					1.0	
					1.5	
					2.0	
					2.5	
					3.0	
					3.5	
					4.0	Orange, fine to medium Sand
					4.5	
					5.0	
					5.5	
					6.0	
					6.5	
					7.0	
					7.5	
				White, tan fine to medium Sand	8.0	
					8.5	
					9.0	
					9.5	
					10.0	
					10.5	
					11.0	Tan, orange fine to medium sand
					11.5	
					12.0	Moist at 12 feet
					12.5	
					13.0	
					13.5	
					14.0	
					14.5	
				Boring terminated at 15.0 feet bgs	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			SAMPLING METHODS			
AR - AIR ROTARY			SS - SPLIT SPOON			
CFA - CONTINUOUS FLIGHT AUGER			ST - SHELBY TUBE			
DC - DRIVEN CASING			GP - GEOPROBE			
HA - HAND AUGER						
HSA - HOLLOW STEM AUGER						
MD - MUD DRILLING						
RC - ROCK CORING						
WR - WATER ROTARY						
			* - Sample collected for analysis ND = <1 ppm			
Terracon						

SOIL BORING LOG

PROJECT NAME: Stantonburg/Tenth Street Connector				SOIL BORING I.D.: B-7		
PROJECT NO.: 70127335				DATE(S) DRILLED: August 31, 2012		
PROJECT LOCATION: West of intersection of Grande Avenue and Dickinson 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	0.0	No Petroleum odors	0.0	Asphalt
					0.5	Grey, orange sandy clay
					1.0	
					1.5	
					2.0	
					2.5	
2.5 - 5.0		NA	0.0		3.0	Orange, grey sandy clay
					3.5	
					4.0	
					4.5	
5.0 - 7.5		NA	0.0		5.0	
					5.5	
					6.0	Grey orange sand/moist
					6.5	
					7.0	
7.5 - 10.0		NA	0.0		7.5	
					8.0	
					8.5	
					9.0	
10.0 - 12.5		NA	0.0		9.5	
					10.0	
					10.5	
12.5 - 15		NA	0.0		11.0	
					11.5	
					12.0	Grey, tan clay
					12.5	
					13.0	White, tan fine to medium sand
					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			SAMPLING METHODS			
AR - AIR ROTARY			SS - SPLIT SPOON			
CFA - CONTINUOUS FLIGHT AUGER			ST - SHELBY TUBE			
DC - DRIVEN CASING			GP - GEOPROBE			
HA - HAND AUGER						
HSA - HOLLOW STEM AUGER						
MD - MUD DRILLING						
RC - ROCK CORING						
WR - WATER ROTARY						
			* - Sample collected for analysis ND = <1 ppm			
Terracon						

SOIL BORING LOG

PROJECT NAME: Stantonburg/Tenth Street Connector				SOIL BORING I.D.: B-8	
PROJECT NO.: 70127335				DATE(S) DRILLED: September 6, 2012	
PROJECT LOCATION: West of intersection of Grande Avenue and Dickinson 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)
0-2.5		NA	0.0	No Petroleum odors	0.0
					0.5
					1.0
					1.5
					2.0
2.5 - 5.0		NA	0.0		2.5
					3.0
					3.5
					4.0
					4.5
5.0 - 7.5		NA	0.0		5.0
					5.5
					6.0
					6.5
7.5 - 10.0		NA	0.0		7.0
					7.5
10.0 - 12.5		NA	0.0		8.0
					8.5
					9.0
					9.5
12.5 - 15*		NA	0.4		10.0
					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: Stantonburg/Tenth Street Connector				SOIL BORING I.D.: B-9		
PROJECT NO.: 70127335				DATE(S) DRILLED: August 31, 2012		
PROJECT LOCATION: West of intersection of Grande Avenue and Dickinson 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: Stever Kerlin				REMARKS: BGS = below grade surface		
DESCRIPTIVE LOG						
SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	Odors	DEPTH (FT)	
0-2.5		NA	0.0	No Petroleum odors	0.0	
					0.5	
					1.0	
					1.5	
					2.0	
2.5 - 5.0		NA	0.0			2.5
						3.0
						3.5
						4.0
						4.5
5.0 - 7.5*		NA	0.0			5.0
						5.5
						6.0
						6.5
						7.0
7.5 - 10.0		NA	0.0		7.5	
					8.0	
					8.5	
					9.0	
					9.5	
10.0 - 12.5		NA	0.0		10.0	
					10.5	
					11.0	
					11.5	
					12.0	
12.5 - 15		NA	NA		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						

GEOPHYSICAL INVESTIGATION REPORT

EM61 & GPR SURVEYS

**CORY, HANNAN, GATLIN & HOLLMAN PROPERTIES
(PARCELS 79, 80, 81, 82, 187, & 188)**

**Dickinson Avenue
Greenville, North Carolina**

September 27, 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
COREY, HANNAN, GATLIN & HOLLOMAN PROPERTIES
(PARCELS 79, 80, 81, 82, 187, & 188)
Dickinson Avenue
Greenville, North Carolina

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FIGURES

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| Figure 2 | Geophysical Survey Line Locations |
| Figure 3 | EM61 Metal Detection - Bottom Coil Results |
| Figure 4 | EM61 Metal Detection - Differential Results |

1.0 INTRODUCTION

Pyramid Environmental conducted a geophysical investigation for Terracon across portions of six different parcels of properties located adjacent to the intersection of Dickinson Avenue and Grande Avenue in Greenville, North Carolina. Conducted on August 22, 23 and 29, 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 proposed ROW areas of the six properties. The following are the six properties:

Herbert S. Corey Properties (Parcels 79, 81 & 82)	1000 Dickinson Avenue
James E. Hannan Property (Parcel 80)	1008 Dickinson Avenue
Wilton Lee Gatlin Property (Parcel 187)	1006 Dickinson Avenue
Oscar Holloman Property (Parcel 188)	1003 Dickinson Avenue

The Herbert S. Corey properties consist of three separate but contiguous parcels with several miscellaneous buildings. The properties previous operated as storage lots and a filling station. The geophysical survey area encompassed the open asphalt pavement of the properties and a 10 to 20-foot buffer along the northerly, southerly and westerly sides of the buildings. The James E. Hannan property consists of a commercial building with steel reinforced concrete pavement (parking area) adjacent to the easterly side of the building. The geophysical survey area encompassed a 10 to 20-foot buffer around the northerly, southerly and easterly sides of the building.

The Wilton Lee Gatlin property contains a commercial building that was previously used as a dry cleaning facility. The building is surrounded by steel reinforced pavement (parking area). The geophysical survey area encompassed the entire parcel. The Oscar Holloman property is occupied by a partially failed building and at the time of the geophysical investigation, nearly half of the building footprint was a debris pile as a result of the structural failure. The geophysical survey area encompassed a 5 to 10-foot buffer along the northerly and easterly sides of the building.

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 a portion of the six parcels are shown in **Figure 1**.

2.0 FIELD METHODOLOGY

Prior to conducting the geophysical investigation, a 20-foot by 20-foot survey grid was established across the geophysical surveys area using measuring tapes 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.

At Parcels 79 and 81, 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 northwesterly-southeasterly or northeasterly-southwesterly 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 the areas containing steel reinforced concrete and 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.

Due to the steel reinforced concrete pavement encountered within the areas of interest at Parcels 80, 82, 187, and 188, the geophysical investigation was limited to GPR surveys. GPR data were continuously collected along X-axis and Y-axis survey lines spaced 5 feet apart across the specified areas at each parcel using the same GPR equipment and settings that were discussed above. Locations of the EM61 metal detection survey lines and the GPR survey lines for the six parcels are shown as red dots and purple lines, respectively in **Figure 2**. Each red dot represents an EM61 data point.

Verbal, preliminary geophysical results obtained from the site were provided to Mr. Kerlin or Ms Hoffman during the week of September 3, 2012.

3.0 DISCUSSION OF RESULTS

Contour plots of the EM61 bottom coil and differential results obtained from Parcels 79, 81 and 82 are presented in **Figures 3 and 4**, 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=15 Y=20, X=30 Y=92, X=30 Y=115, X=210 Y=110, and X=300 Y=165 are probably in response to buried utility lines or conduits. The linear, bottom coil anomalies intersecting grid coordinates X=30 Y=80, X=30 Y=138 and X=100 Y=28 are probably in response to buildings and buried lines. The linear, bottom coil anomalies intersecting grid coordinates X=220 Y=66, X=240 Y=118 and X=345 Y=160 are probably in response to the metal fence line that runs along the perimeter of Parcel 81. The linear, bottom coil anomaly intersecting grid coordinates X=182 Y=120 is probably in response to the building.

GPR data suggest the EM61 differential anomalies centered near grid coordinates X=290 Y=190, X=310 Y=210, X=315 Y=160, and X=334 Y=185 are in response to buried, miscellaneous metal objects or to portions of buried conduits.

GPR data acquired across the steel reinforced concrete pavement at Parcels 80, 187 and 188 did not detect buried metallic USTs. Although GPR scans detected a number of buried lines/conduits beneath the sidewalks running along Chestnut Street, Grande Avenue and Dickinson Avenue, the GPR data suggest the surveyed areas of interest do not contain buried metallic USTs.

The geophysical investigation conducted across the accessible portions of Parcels 79, 80, 81, 82, 187, and 188 suggest the areas do not contain buried metallic USTs.

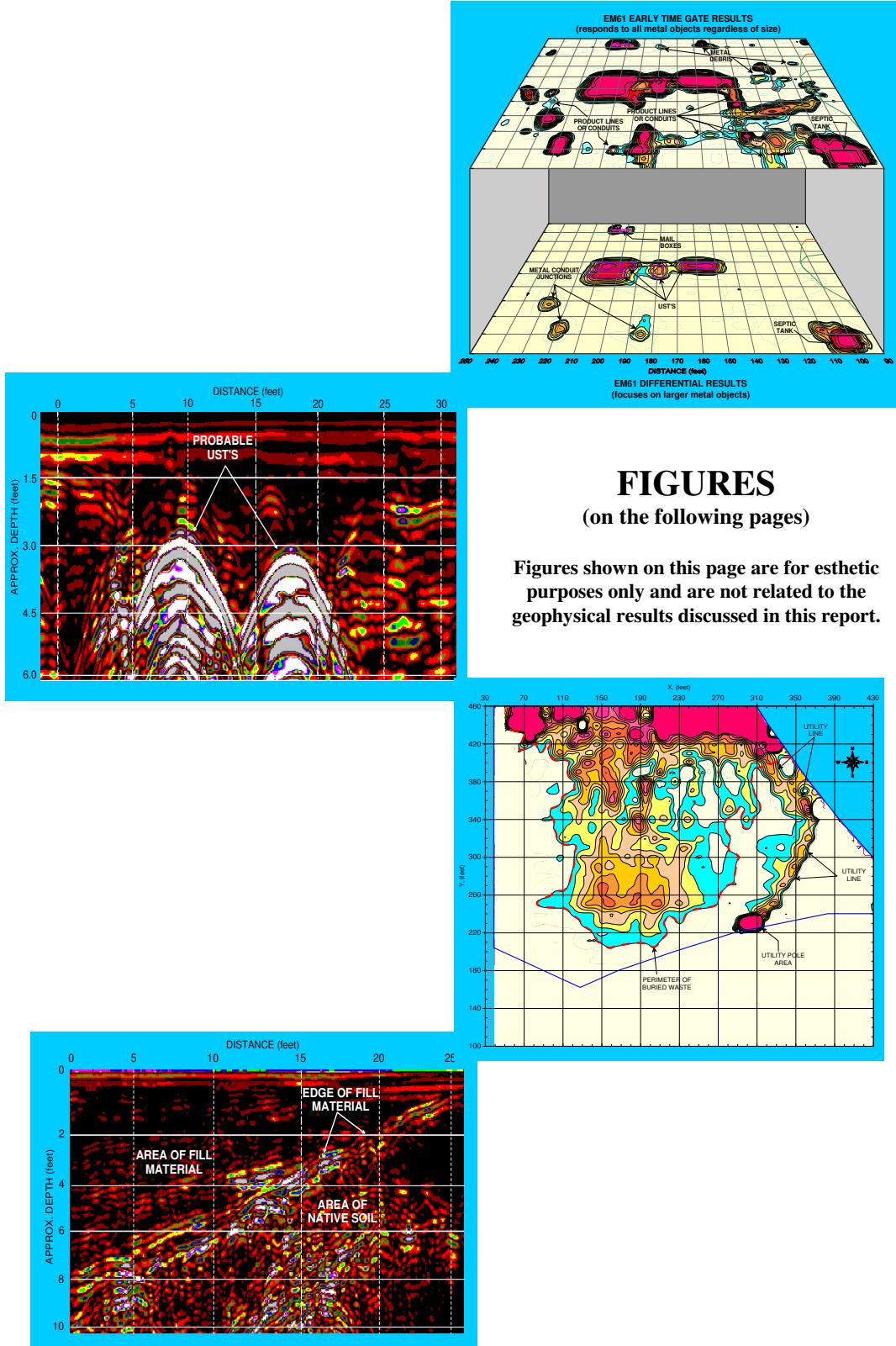
4.0 SUMMARY & CONCLUSIONS

Our evaluation of the EM61 and GPR data collected across the accessible portions of Parcels 79, 80, 81, 82, 187, and 188 located adjacent to the intersection of Dickinson Avenue and Grande Avenue 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=15 Y=20, X=30 Y=92, X=30 Y=115, X=210 Y=110, and X=300 Y=165 are probably in response to buried utility lines or conduits.
- GPR data suggest the EM61 differential anomalies centered near grid coordinates X=290 Y=190, X=310 Y=210, X=315 Y=160, and X=334 Y=185 are in response to buried, miscellaneous metal objects or to portions of buried conduits.
- The geophysical investigation conducted across the accessible portions of Parcels 79, 80, 81, 82, 187, and 188 suggest the areas do not contain buried metallic USTs.

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 areas of interest do not contain buried, metallic USTs, but that none were detected.



The photograph shows the Geonics EM61 metal detector that was used to conduct the metal detection survey across the Herbert Corey properties (Parcels 79, 81 & 82) on August 22, 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 the areas containing steel reinforced concrete and selected EM61 differential anomalies at Parcels, 79, 80, 81, 82, 187, & 188 on August 23 & 29, 2012.



The photograph shows the eastern portions of the Corey, Hannan, Gatlin and Holloman properties located adjacent to the intersection of Dickinson Avenue and Grande Avenue in Greenville, North Carolina. The photograph is viewed in a northwesterly direction.

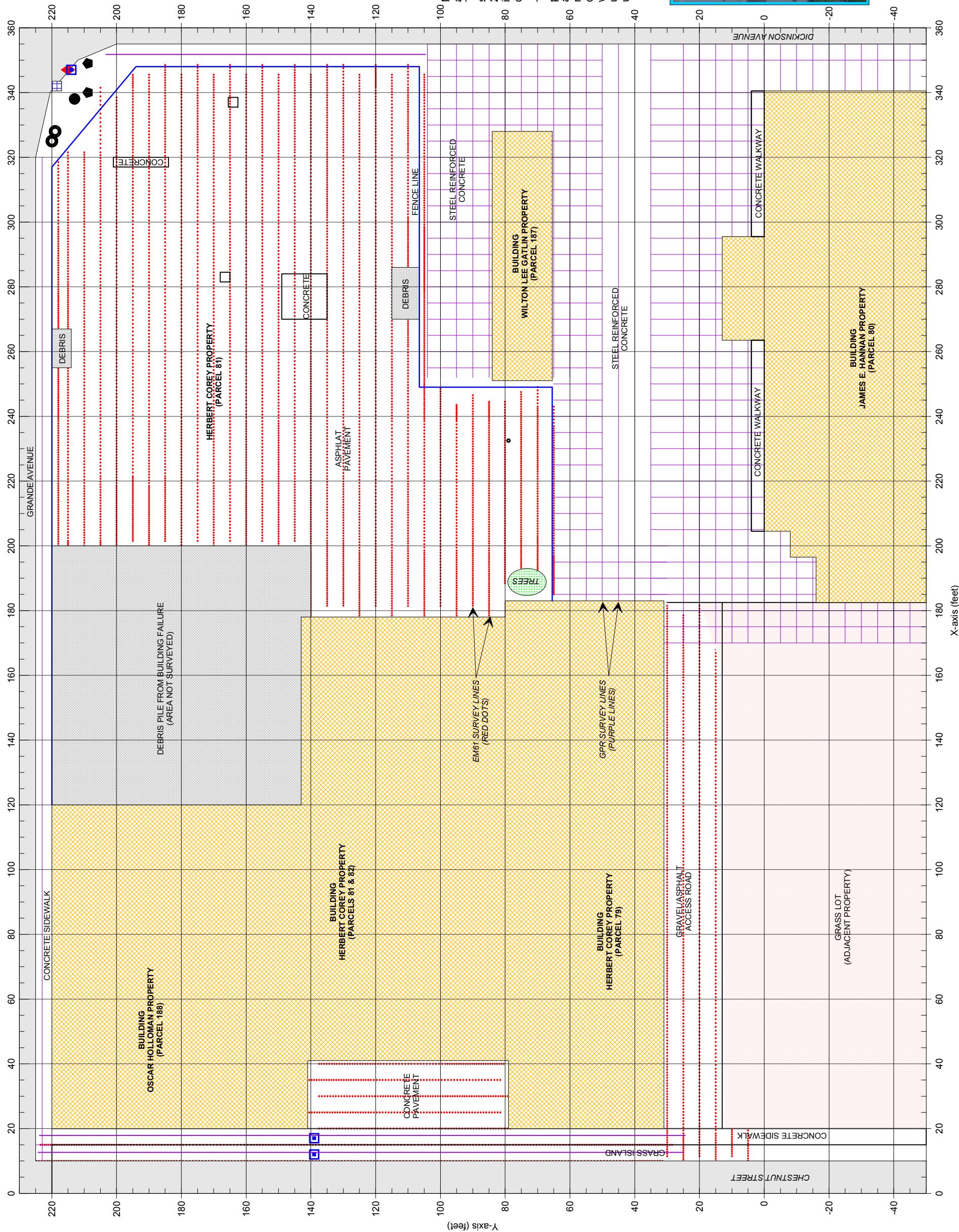
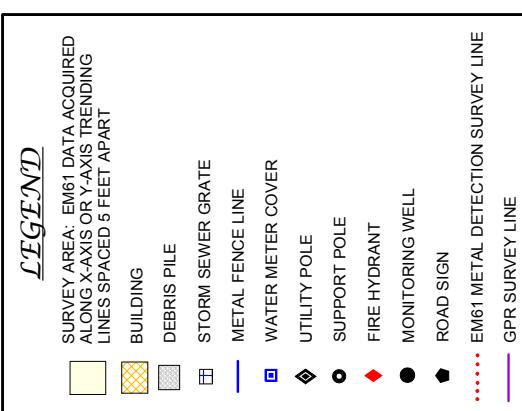
FIGURE 2

GEOPHYSICAL SURVEY

LINE LOCATIONS

GEOPHYSICAL RESULTS

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The red polygon in the aerial photograph represents the approximate outer perimeter of the geophysical survey at the subject parcels.

FIGURE 3

EM61 MEIAL DELEGEIION (BOTTOM COIL RESULTS)

GEOPHYSICAL RESULTS

ENVIRONMENTAL & ENGINEERING, P.C.

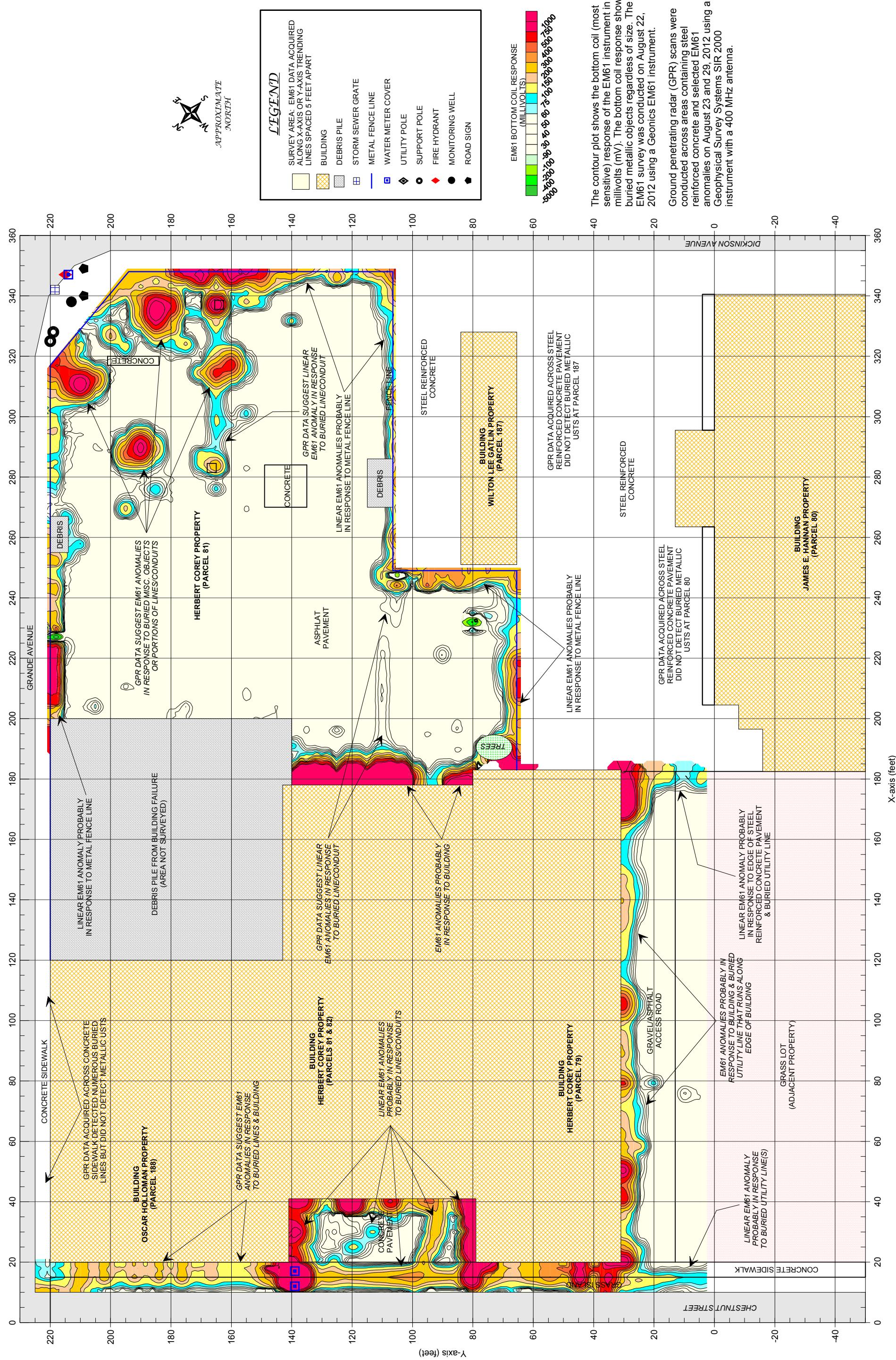
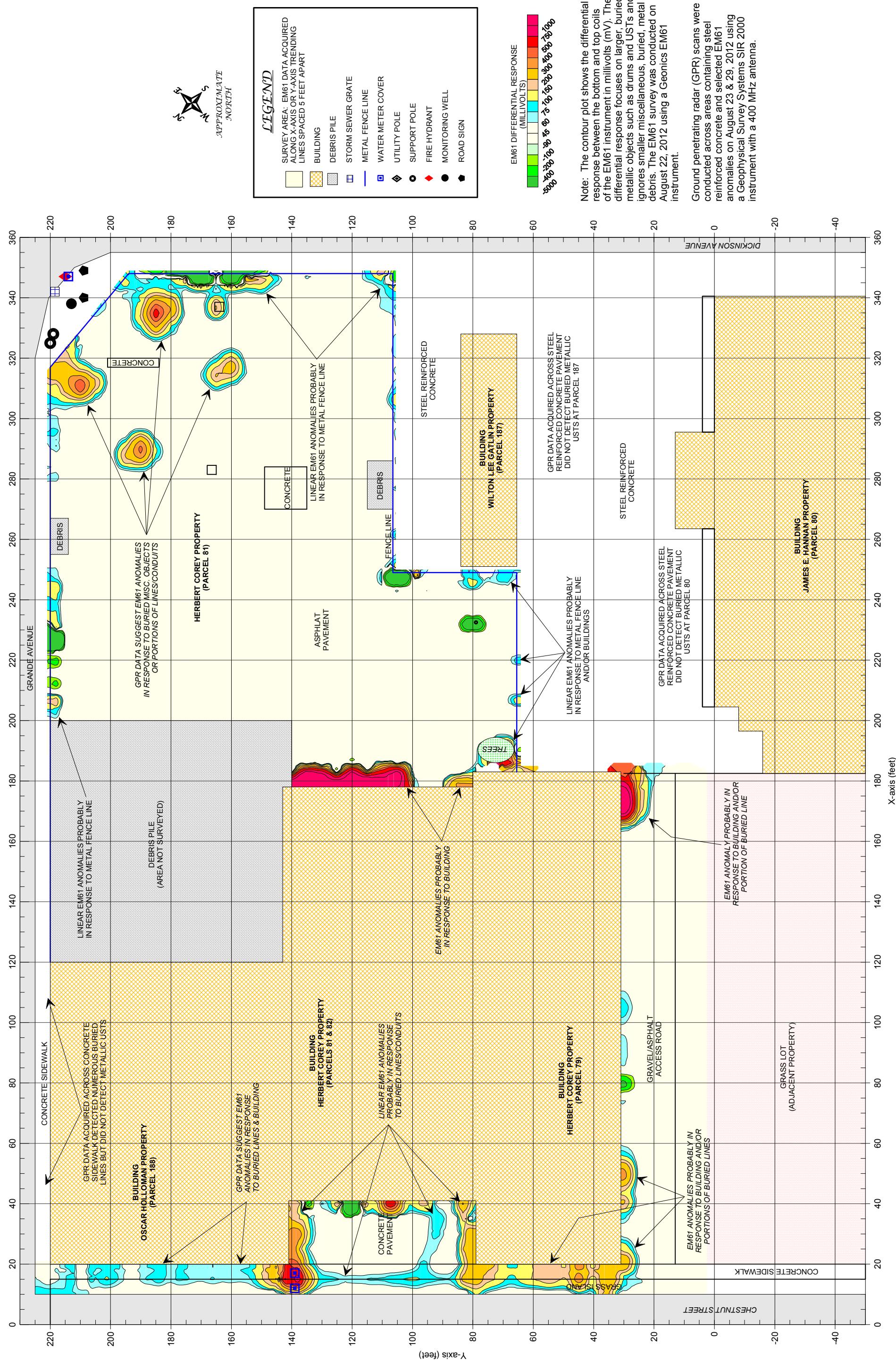


FIGURE 4

EM61 MEASURED DELEGECTION (DIFFERENTIAL RESULTS)

GEOPHYSICAL RESULTS

ENVIRONMENTAL & ENGINEERING, P.C.



Laboratory Report of Analysis

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

Report Number: **31202790**

Client Project: **70127335 U-3315 #81**

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

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

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

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Collected</u>	<u>Received</u>	<u>Matrix</u>
S-1	31202790001	08/31/2012 08:31	09/04/2012 08:00	Soil-Solid as dry weight
S-2	31202790002	08/31/2012 10:15	09/04/2012 08:00	Soil-Solid as dry weight
S-3	31202790003	08/31/2012 10:25	09/04/2012 08:00	Soil-Solid as dry weight
S-4	31202790004	08/31/2012 10:35	09/04/2012 08:00	Soil-Solid as dry weight
S-5	31202790005	08/31/2012 11:05	09/04/2012 08:00	Soil-Solid as dry weight
S-6	31202790006	08/31/2012 11:33	09/04/2012 08:00	Soil-Solid as dry weight
S-7	31202790007	08/31/2012 11:50	09/04/2012 08:00	Soil-Solid as dry weight
GW-1	31202790008	09/06/2012 12:30	09/10/2012 14:45	Water

Results of S-1

Client Sample ID: **S-1**
Client Project ID: **70127335 U-3315 #81**
Lab Sample ID: 31202790001-A
Lab Project ID: 31202790

Collection Date: 08/31/2012 08:31
Received Date: 09/04/2012 08:00
Matrix: Soil-Solid as dry weight
Solids (%): 87.10

Results by SW-846 8260B

Parameter	Result	Qual	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND		4.20	ug/Kg	1	09/5/2012 15:03
1,1,1-Trichloroethane	ND		4.20	ug/Kg	1	09/5/2012 15:03
1,1,2,2-Tetrachloroethane	ND		4.20	ug/Kg	1	09/5/2012 15:03
1,1,2-Trichloroethane	ND		4.20	ug/Kg	1	09/5/2012 15:03
1,1-Dichloroethane	ND		4.20	ug/Kg	1	09/5/2012 15:03
1,1-Dichloroethene	ND		4.20	ug/Kg	1	09/5/2012 15:03
1,1-Dichloropropene	ND		4.20	ug/Kg	1	09/5/2012 15:03
1,2,3-Trichlorobenzene	ND		4.20	ug/Kg	1	09/5/2012 15:03
1,2,3-Trichloropropane	ND		4.20	ug/Kg	1	09/5/2012 15:03
1,2,4-Trichlorobenzene	ND		4.20	ug/Kg	1	09/5/2012 15:03
1,2,4-Trimethylbenzene	ND		4.20	ug/Kg	1	09/5/2012 15:03
1,2-Dibromo-3-chloropropane	ND		25.2	ug/Kg	1	09/5/2012 15:03
1,2-Dibromoethane	ND		4.20	ug/Kg	1	09/5/2012 15:03
1,2-Dichlorobenzene	ND		4.20	ug/Kg	1	09/5/2012 15:03
1,2-Dichloroethane	ND		4.20	ug/Kg	1	09/5/2012 15:03
1,2-Dichloropropane	ND		4.20	ug/Kg	1	09/5/2012 15:03
1,3,5-Trimethylbenzene	ND		4.20	ug/Kg	1	09/5/2012 15:03
1,3-Dichlorobenzene	ND		4.20	ug/Kg	1	09/5/2012 15:03
1,3-Dichloropropane	ND		4.20	ug/Kg	1	09/5/2012 15:03
1,4-Dichlorobenzene	ND		4.20	ug/Kg	1	09/5/2012 15:03
2,2-Dichloropropane	ND		4.20	ug/Kg	1	09/5/2012 15:03
2-Butanone	ND		21.0	ug/Kg	1	09/5/2012 15:03
2-Chlorotoluene	ND		4.20	ug/Kg	1	09/5/2012 15:03
2-Hexanone	ND		10.5	ug/Kg	1	09/5/2012 15:03
4-Chlorotoluene	ND		4.20	ug/Kg	1	09/5/2012 15:03
4-Isopropyltoluene	ND		4.20	ug/Kg	1	09/5/2012 15:03
4-Methyl-2-pentanone	ND		10.5	ug/Kg	1	09/5/2012 15:03
Acetone	ND		42.0	ug/Kg	1	09/5/2012 15:03
Benzene	ND		4.20	ug/Kg	1	09/5/2012 15:03
Bromobenzene	ND		4.20	ug/Kg	1	09/5/2012 15:03
Bromochloromethane	ND		4.20	ug/Kg	1	09/5/2012 15:03
Bromodichloromethane	ND		4.20	ug/Kg	1	09/5/2012 15:03
Bromoform	ND		4.20	ug/Kg	1	09/5/2012 15:03
Bromomethane	ND		4.20	ug/Kg	1	09/5/2012 15:03
n-Butylbenzene	ND		4.20	ug/Kg	1	09/5/2012 15:03
Carbon disulfide	ND		4.20	ug/Kg	1	09/5/2012 15:03
Carbon tetrachloride	ND		4.20	ug/Kg	1	09/5/2012 15:03
Chlorobenzene	ND		4.20	ug/Kg	1	09/5/2012 15:03
Chloroethane	ND		4.20	ug/Kg	1	09/5/2012 15:03
Chloroform	ND		4.20	ug/Kg	1	09/5/2012 15:03
Chloromethane	ND		4.20	ug/Kg	1	09/5/2012 15:03
Dibromochloromethane	ND		4.20	ug/Kg	1	09/5/2012 15:03
Dibromomethane	ND		4.20	ug/Kg	1	09/5/2012 15:03

Results of S-1

Client Sample ID: **S-1**
 Client Project ID: **70127335 U-3315 #81**
 Lab Sample ID: 31202790001-A
 Lab Project ID: 31202790

Collection Date: 08/31/2012 08:31
 Received Date: 09/04/2012 08:00
 Matrix: Soil-Solid as dry weight
 Solids (%): 87.10

Results by SW-846 8260B

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Dichlorodifluoromethane	ND		4.20	ug/Kg	1	09/5/2012 15:03
cis-1,3-Dichloropropene	ND		4.20	ug/Kg	1	09/5/2012 15:03
trans-1,3-Dichloropropene	ND		4.20	ug/Kg	1	09/5/2012 15:03
Diisopropyl Ether	ND		4.20	ug/Kg	1	09/5/2012 15:03
Ethyl Benzene	ND		4.20	ug/Kg	1	09/5/2012 15:03
Hexachlorobutadiene	ND		4.20	ug/Kg	1	09/5/2012 15:03
Isopropylbenzene (Cumene)	ND		4.20	ug/Kg	1	09/5/2012 15:03
Methyl iodide	ND		4.20	ug/Kg	1	09/5/2012 15:03
Methylene chloride	ND		16.8	ug/Kg	1	09/5/2012 15:03
Naphthalene	ND		4.20	ug/Kg	1	09/5/2012 15:03
Styrene	ND		4.20	ug/Kg	1	09/5/2012 15:03
Tetrachloroethene	ND		4.20	ug/Kg	1	09/5/2012 15:03
Toluene	ND		4.20	ug/Kg	1	09/5/2012 15:03
Trichloroethene	ND		4.20	ug/Kg	1	09/5/2012 15:03
Trichlorofluoromethane	ND		4.20	ug/Kg	1	09/5/2012 15:03
Vinyl chloride	ND		4.20	ug/Kg	1	09/5/2012 15:03
Xylene (total)	ND		8.39	ug/Kg	1	09/5/2012 15:03
cis-1,2-Dichloroethene	ND		4.20	ug/Kg	1	09/5/2012 15:03
m,p-Xylene	ND		8.39	ug/Kg	1	09/5/2012 15:03
n-Propylbenzene	ND		4.20	ug/Kg	1	09/5/2012 15:03
o-Xylene	ND		4.20	ug/Kg	1	09/5/2012 15:03
sec-Butylbenzene	ND		4.20	ug/Kg	1	09/5/2012 15:03
tert-Butyl methyl ether (MTBE)	ND		4.20	ug/Kg	1	09/5/2012 15:03
tert-Butylbenzene	ND		4.20	ug/Kg	1	09/5/2012 15:03
trans-1,2-Dichloroethene	ND		4.20	ug/Kg	1	09/5/2012 15:03
trans-1,4-Dichloro-2-butene	ND		21.0	ug/Kg	1	09/5/2012 15:03

Surrogates

1,2-Dichloroethane-d4	113	55.0-173	%	1	09/5/2012 15:03
4-Bromofluorobenzene	98.0	23.0-141	%	1	09/5/2012 15:03
Toluene d8	99.0	57.0-134	%	1	09/5/2012 15:03

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: **09/04/2012 13:53**
 Prep Initial Wt./Vol.: **6.84 g**
 Prep Extract Vol: **5 mL**

Results of S-1

Client Sample ID: **S-1**
Client Project ID: **70127335 U-3315 #81**
Lab Sample ID: 31202790001-E
Lab Project ID: 31202790

Collection Date: 08/31/2012 08:31
Received Date: 09/04/2012 08:00
Matrix: Soil-Solid as dry weight
Solids (%): 87.10

Results by SW-846 8270D

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
1,2,4-Trichlorobenzene	ND		367	ug/Kg	1	09/7/2012 14:40
1,2-Dichlorobenzene	ND		367	ug/Kg	1	09/7/2012 14:40
1,3-Dichlorobenzene	ND		367	ug/Kg	1	09/7/2012 14:40
1,4-Dichlorobenzene	ND		367	ug/Kg	1	09/7/2012 14:40
2,4,5-Trichlorophenol	ND		367	ug/Kg	1	09/7/2012 14:40
2,4,6-Trichlorophenol	ND		367	ug/Kg	1	09/7/2012 14:40
2,4-Dichlorophenol	ND		367	ug/Kg	1	09/7/2012 14:40
2,4-Dinitrophenol	ND		1840	ug/Kg	1	09/7/2012 14:40
2,4-Dinitrotoluene	ND		367	ug/Kg	1	09/7/2012 14:40
2,6-Dinitrotoluene	ND		367	ug/Kg	1	09/7/2012 14:40
2-Chloronaphthalene	ND		367	ug/Kg	1	09/7/2012 14:40
2-Chlorophenol	ND		367	ug/Kg	1	09/7/2012 14:40
2-Methylnaphthalene	ND		367	ug/Kg	1	09/7/2012 14:40
2-Methylphenol	ND		367	ug/Kg	1	09/7/2012 14:40
2-Nitroaniline	ND		367	ug/Kg	1	09/7/2012 14:40
2-Nitrophenol	ND		367	ug/Kg	1	09/7/2012 14:40
3 and/or 4-Methylphenol	ND		367	ug/Kg	1	09/7/2012 14:40
3,3'-Dichlorobenzidine	ND		734	ug/Kg	1	09/7/2012 14:40
3-Nitroaniline	ND		1840	ug/Kg	1	09/7/2012 14:40
4,6-Dinitro-2-methylphenol	ND		1840	ug/Kg	1	09/7/2012 14:40
4-Chloro-3-methylphenol	ND		367	ug/Kg	1	09/7/2012 14:40
4-Chloroaniline	ND		367	ug/Kg	1	09/7/2012 14:40
4-Chlorophenyl phenyl ether	ND		367	ug/Kg	1	09/7/2012 14:40
Acenaphthene	ND		367	ug/Kg	1	09/7/2012 14:40
Acenaphthylene	ND		367	ug/Kg	1	09/7/2012 14:40
Anthracene	ND		367	ug/Kg	1	09/7/2012 14:40
Benzo(a)anthracene	ND		367	ug/Kg	1	09/7/2012 14:40
Benzo(a)pyrene	ND		367	ug/Kg	1	09/7/2012 14:40
Benzo(b)fluoranthene	ND		367	ug/Kg	1	09/7/2012 14:40
Benzo(g,h,i)perylene	ND		367	ug/Kg	1	09/7/2012 14:40
Benzo(k)fluoranthene	ND		367	ug/Kg	1	09/7/2012 14:40
Benzoic acid	ND		1840	ug/Kg	1	09/7/2012 14:40
Bis(2-Chloroethoxy)methane	ND		367	ug/Kg	1	09/7/2012 14:40
Bis(2-Chloroethyl)ether	ND		367	ug/Kg	1	09/7/2012 14:40
Bis(2-Chloroisopropyl)ether	ND		367	ug/Kg	1	09/7/2012 14:40
Bis(2-Ethylhexyl)phthalate	ND		367	ug/Kg	1	09/7/2012 14:40
4-Bromophenyl phenyl ether	ND		367	ug/Kg	1	09/7/2012 14:40
Butyl benzyl phthalate	ND		367	ug/Kg	1	09/7/2012 14:40
Chrysene	ND		367	ug/Kg	1	09/7/2012 14:40
Di-n-butyl phthalate	ND		367	ug/Kg	1	09/7/2012 14:40
Di-n-octyl phthalate	ND		367	ug/Kg	1	09/7/2012 14:40
Dibenz(a,h)anthracene	ND		367	ug/Kg	1	09/7/2012 14:40
Dibenzofuran	ND		367	ug/Kg	1	09/7/2012 14:40

Results of S-1

Client Sample ID: **S-1**
 Client Project ID: **70127335 U-3315 #81**
 Lab Sample ID: 31202790001-E
 Lab Project ID: 31202790

Collection Date: 08/31/2012 08:31
 Received Date: 09/04/2012 08:00
 Matrix: Soil-Solid as dry weight
 Solids (%): 87.10

Results by SW-846 8270D

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Diethyl phthalate	ND		367	ug/Kg	1	09/7/2012 14:40
Dimethyl phthalate	ND		367	ug/Kg	1	09/7/2012 14:40
2,4-Dimethylphenol	ND		367	ug/Kg	1	09/7/2012 14:40
Diphenylamine	ND		367	ug/Kg	1	09/7/2012 14:40
Fluoranthene	ND		367	ug/Kg	1	09/7/2012 14:40
Fluorene	ND		367	ug/Kg	1	09/7/2012 14:40
Hexachlorobenzene	ND		1840	ug/Kg	1	09/7/2012 14:40
Hexachlorobutadiene	ND		367	ug/Kg	1	09/7/2012 14:40
Hexachlorocyclopentadiene	ND		734	ug/Kg	1	09/7/2012 14:40
Hexachloroethane	ND		367	ug/Kg	1	09/7/2012 14:40
Indeno(1,2,3-cd)pyrene	ND		367	ug/Kg	1	09/7/2012 14:40
Isophorone	ND		367	ug/Kg	1	09/7/2012 14:40
Naphthalene	ND		367	ug/Kg	1	09/7/2012 14:40
4-Nitroaniline	ND		1840	ug/Kg	1	09/7/2012 14:40
Nitrobenzene	ND		367	ug/Kg	1	09/7/2012 14:40
4-Nitrophenol	ND		1840	ug/Kg	1	09/7/2012 14:40
Pentachlorophenol	ND		1840	ug/Kg	1	09/7/2012 14:40
Phenanthrene	ND		367	ug/Kg	1	09/7/2012 14:40
Phenol	ND		367	ug/Kg	1	09/7/2012 14:40
Pyrene	ND		367	ug/Kg	1	09/7/2012 14:40
n-Nitrosodi-n-propylamine	ND		367	ug/Kg	1	09/7/2012 14:40

Surrogates

2,4,6-Tribromophenol	89.0	41.0-129	%	1	09/7/2012 14:40
2-Fluorobiphenyl	87.0	48.0-123	%	1	09/7/2012 14:40
2-Fluorophenol	72.0	42.0-123	%	1	09/7/2012 14:40
Nitrobenzene-d5	87.0	46.0-117	%	1	09/7/2012 14:40
Phenol-d6	85.0	48.0-125	%	1	09/7/2012 14:40
Terphenyl-d14	94.0	44.0-140	%	1	09/7/2012 14:40

Batch Information

Analytical Batch: **XMS1658**
 Analytical Method: **SW-846 8270D**
 Instrument: **MSD10**
 Analyst: **CMP**

Prep Batch: **XXX3006**
 Prep Method: **SW-846 3541**
 Prep Date/Time: **09/05/2012 10:25**
 Prep Initial Wt./Vol.: **31.31 g**
 Prep Extract Vol: **10 mL**

Results of S-2

Client Sample ID: **S-2**
Client Project ID: **70127335 U-3315 #81**
Lab Sample ID: 31202790002-A
Lab Project ID: 31202790

Collection Date: 08/31/2012 10:15
Received Date: 09/04/2012 08:00
Matrix: Soil-Solid as dry weight
Solids (%): 90.50

Results by SW-846 8260B

Parameter	Result	Qual	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND		5.04	ug/Kg	1	09/5/2012 15:30
1,1,1-Trichloroethane	ND		5.04	ug/Kg	1	09/5/2012 15:30
1,1,2,2-Tetrachloroethane	ND		5.04	ug/Kg	1	09/5/2012 15:30
1,1,2-Trichloroethane	ND		5.04	ug/Kg	1	09/5/2012 15:30
1,1-Dichloroethane	ND		5.04	ug/Kg	1	09/5/2012 15:30
1,1-Dichloroethene	ND		5.04	ug/Kg	1	09/5/2012 15:30
1,1-Dichloropropene	ND		5.04	ug/Kg	1	09/5/2012 15:30
1,2,3-Trichlorobenzene	ND		5.04	ug/Kg	1	09/5/2012 15:30
1,2,3-Trichloropropane	ND		5.04	ug/Kg	1	09/5/2012 15:30
1,2,4-Trichlorobenzene	ND		5.04	ug/Kg	1	09/5/2012 15:30
1,2,4-Trimethylbenzene	ND		5.04	ug/Kg	1	09/5/2012 15:30
1,2-Dibromo-3-chloropropane	ND		30.3	ug/Kg	1	09/5/2012 15:30
1,2-Dibromoethane	ND		5.04	ug/Kg	1	09/5/2012 15:30
1,2-Dichlorobenzene	ND		5.04	ug/Kg	1	09/5/2012 15:30
1,2-Dichloroethane	ND		5.04	ug/Kg	1	09/5/2012 15:30
1,2-Dichloropropane	ND		5.04	ug/Kg	1	09/5/2012 15:30
1,3,5-Trimethylbenzene	ND		5.04	ug/Kg	1	09/5/2012 15:30
1,3-Dichlorobenzene	ND		5.04	ug/Kg	1	09/5/2012 15:30
1,3-Dichloropropane	ND		5.04	ug/Kg	1	09/5/2012 15:30
1,4-Dichlorobenzene	ND		5.04	ug/Kg	1	09/5/2012 15:30
2,2-Dichloropropane	ND		5.04	ug/Kg	1	09/5/2012 15:30
2-Butanone	ND		25.2	ug/Kg	1	09/5/2012 15:30
2-Chlorotoluene	ND		5.04	ug/Kg	1	09/5/2012 15:30
2-Hexanone	ND		12.6	ug/Kg	1	09/5/2012 15:30
4-Chlorotoluene	ND		5.04	ug/Kg	1	09/5/2012 15:30
4-Isopropyltoluene	ND		5.04	ug/Kg	1	09/5/2012 15:30
4-Methyl-2-pentanone	ND		12.6	ug/Kg	1	09/5/2012 15:30
Acetone	ND		50.4	ug/Kg	1	09/5/2012 15:30
Benzene	ND		5.04	ug/Kg	1	09/5/2012 15:30
Bromobenzene	ND		5.04	ug/Kg	1	09/5/2012 15:30
Bromochloromethane	ND		5.04	ug/Kg	1	09/5/2012 15:30
Bromodichloromethane	ND		5.04	ug/Kg	1	09/5/2012 15:30
Bromoform	ND		5.04	ug/Kg	1	09/5/2012 15:30
Bromomethane	ND		5.04	ug/Kg	1	09/5/2012 15:30
n-Butylbenzene	ND		5.04	ug/Kg	1	09/5/2012 15:30
Carbon disulfide	ND		5.04	ug/Kg	1	09/5/2012 15:30
Carbon tetrachloride	ND		5.04	ug/Kg	1	09/5/2012 15:30
Chlorobenzene	ND		5.04	ug/Kg	1	09/5/2012 15:30
Chloroethane	ND		5.04	ug/Kg	1	09/5/2012 15:30
Chloroform	ND		5.04	ug/Kg	1	09/5/2012 15:30
Chloromethane	ND		5.04	ug/Kg	1	09/5/2012 15:30
Dibromochloromethane	ND		5.04	ug/Kg	1	09/5/2012 15:30
Dibromomethane	ND		5.04	ug/Kg	1	09/5/2012 15:30

Results of S-2

Client Sample ID: **S-2**
 Client Project ID: **70127335 U-3315 #81**
 Lab Sample ID: 31202790002-A
 Lab Project ID: 31202790

Collection Date: 08/31/2012 10:15
 Received Date: 09/04/2012 08:00
 Matrix: Soil-Solid as dry weight
 Solids (%): 90.50

Results by SW-846 8260B

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Dichlorodifluoromethane	ND		5.04	ug/Kg	1	09/5/2012 15:30
cis-1,3-Dichloropropene	ND		5.04	ug/Kg	1	09/5/2012 15:30
trans-1,3-Dichloropropene	ND		5.04	ug/Kg	1	09/5/2012 15:30
Diisopropyl Ether	ND		5.04	ug/Kg	1	09/5/2012 15:30
Ethyl Benzene	ND		5.04	ug/Kg	1	09/5/2012 15:30
Hexachlorobutadiene	ND		5.04	ug/Kg	1	09/5/2012 15:30
Isopropylbenzene (Cumene)	ND		5.04	ug/Kg	1	09/5/2012 15:30
Methyl iodide	ND		5.04	ug/Kg	1	09/5/2012 15:30
Methylene chloride	ND		20.2	ug/Kg	1	09/5/2012 15:30
Naphthalene	ND		5.04	ug/Kg	1	09/5/2012 15:30
Styrene	ND		5.04	ug/Kg	1	09/5/2012 15:30
Tetrachloroethene	ND		5.04	ug/Kg	1	09/5/2012 15:30
Toluene	ND		5.04	ug/Kg	1	09/5/2012 15:30
Trichloroethene	ND		5.04	ug/Kg	1	09/5/2012 15:30
Trichlorofluoromethane	ND		5.04	ug/Kg	1	09/5/2012 15:30
Vinyl chloride	ND		5.04	ug/Kg	1	09/5/2012 15:30
Xylene (total)	ND		10.1	ug/Kg	1	09/5/2012 15:30
cis-1,2-Dichloroethene	ND		5.04	ug/Kg	1	09/5/2012 15:30
m,p-Xylene	ND		10.1	ug/Kg	1	09/5/2012 15:30
n-Propylbenzene	ND		5.04	ug/Kg	1	09/5/2012 15:30
o-Xylene	ND		5.04	ug/Kg	1	09/5/2012 15:30
sec-Butylbenzene	ND		5.04	ug/Kg	1	09/5/2012 15:30
tert-Butyl methyl ether (MTBE)	ND		5.04	ug/Kg	1	09/5/2012 15:30
tert-Butylbenzene	ND		5.04	ug/Kg	1	09/5/2012 15:30
trans-1,2-Dichloroethene	ND		5.04	ug/Kg	1	09/5/2012 15:30
trans-1,4-Dichloro-2-butene	ND		25.2	ug/Kg	1	09/5/2012 15:30

Surrogates

1,2-Dichloroethane-d4	112	55.0-173	%	1	09/5/2012 15:30
4-Bromofluorobenzene	96.0	23.0-141	%	1	09/5/2012 15:30
Toluene d8	98.0	57.0-134	%	1	09/5/2012 15:30

Batch InformationAnalytical Batch: **VMS2526**Analytical Method: **SW-846 8260B**Instrument: **MSD9**Analyst: **DVO**Prep Batch: **VXX3946**Prep Method: **SW-846 5035 SL**Prep Date/Time: **09/04/2012 13:56**Prep Initial Wt./Vol.: **5.48 g**Prep Extract Vol: **5 mL**

Results of S-2

Client Sample ID: **S-2**
Client Project ID: **70127335 U-3315 #81**
Lab Sample ID: 31202790002-E
Lab Project ID: 31202790

Collection Date: 08/31/2012 10:15
Received Date: 09/04/2012 08:00
Matrix: Soil-Solid as dry weight
Solids (%): 90.50

Results by SW-846 8270D

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
1,2,4-Trichlorobenzene	ND		352	ug/Kg	1	09/7/2012 15:03
1,2-Dichlorobenzene	ND		352	ug/Kg	1	09/7/2012 15:03
1,3-Dichlorobenzene	ND		352	ug/Kg	1	09/7/2012 15:03
1,4-Dichlorobenzene	ND		352	ug/Kg	1	09/7/2012 15:03
2,4,5-Trichlorophenol	ND		352	ug/Kg	1	09/7/2012 15:03
2,4,6-Trichlorophenol	ND		352	ug/Kg	1	09/7/2012 15:03
2,4-Dichlorophenol	ND		352	ug/Kg	1	09/7/2012 15:03
2,4-Dinitrophenol	ND		1760	ug/Kg	1	09/7/2012 15:03
2,4-Dinitrotoluene	ND		352	ug/Kg	1	09/7/2012 15:03
2,6-Dinitrotoluene	ND		352	ug/Kg	1	09/7/2012 15:03
2-Chloronaphthalene	ND		352	ug/Kg	1	09/7/2012 15:03
2-Chlorophenol	ND		352	ug/Kg	1	09/7/2012 15:03
2-Methylnaphthalene	ND		352	ug/Kg	1	09/7/2012 15:03
2-Methylphenol	ND		352	ug/Kg	1	09/7/2012 15:03
2-Nitroaniline	ND		352	ug/Kg	1	09/7/2012 15:03
2-Nitrophenol	ND		352	ug/Kg	1	09/7/2012 15:03
3 and/or 4-Methylphenol	ND		352	ug/Kg	1	09/7/2012 15:03
3,3'-Dichlorobenzidine	ND		703	ug/Kg	1	09/7/2012 15:03
3-Nitroaniline	ND		1760	ug/Kg	1	09/7/2012 15:03
4,6-Dinitro-2-methylphenol	ND		1760	ug/Kg	1	09/7/2012 15:03
4-Chloro-3-methylphenol	ND		352	ug/Kg	1	09/7/2012 15:03
4-Chloroaniline	ND		352	ug/Kg	1	09/7/2012 15:03
4-Chlorophenyl phenyl ether	ND		352	ug/Kg	1	09/7/2012 15:03
Acenaphthene	ND		352	ug/Kg	1	09/7/2012 15:03
Acenaphthylene	ND		352	ug/Kg	1	09/7/2012 15:03
Anthracene	ND		352	ug/Kg	1	09/7/2012 15:03
Benzo(a)anthracene	ND		352	ug/Kg	1	09/7/2012 15:03
Benzo(a)pyrene	ND		352	ug/Kg	1	09/7/2012 15:03
Benzo(b)fluoranthene	ND		352	ug/Kg	1	09/7/2012 15:03
Benzo(g,h,i)perylene	ND		352	ug/Kg	1	09/7/2012 15:03
Benzo(k)fluoranthene	ND		352	ug/Kg	1	09/7/2012 15:03
Benzoic acid	ND		1760	ug/Kg	1	09/7/2012 15:03
Bis(2-Chloroethoxy)methane	ND		352	ug/Kg	1	09/7/2012 15:03
Bis(2-Chloroethyl)ether	ND		352	ug/Kg	1	09/7/2012 15:03
Bis(2-Chloroisopropyl)ether	ND		352	ug/Kg	1	09/7/2012 15:03
Bis(2-Ethylhexyl)phthalate	ND		352	ug/Kg	1	09/7/2012 15:03
4-Bromophenyl phenyl ether	ND		352	ug/Kg	1	09/7/2012 15:03
Butyl benzyl phthalate	ND		352	ug/Kg	1	09/7/2012 15:03
Chrysene	ND		352	ug/Kg	1	09/7/2012 15:03
Di-n-butyl phthalate	ND		352	ug/Kg	1	09/7/2012 15:03
Di-n-octyl phthalate	ND		352	ug/Kg	1	09/7/2012 15:03
Dibenz(a,h)anthracene	ND		352	ug/Kg	1	09/7/2012 15:03
Dibenzofuran	ND		352	ug/Kg	1	09/7/2012 15:03

Results of S-2

Client Sample ID: **S-2**
 Client Project ID: **70127335 U-3315 #81**
 Lab Sample ID: 31202790002-E
 Lab Project ID: 31202790

Collection Date: 08/31/2012 10:15
 Received Date: 09/04/2012 08:00
 Matrix: Soil-Solid as dry weight
 Solids (%): 90.50

Results by SW-846 8270D

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Diethyl phthalate	ND		352	ug/Kg	1	09/7/2012 15:03
Dimethyl phthalate	ND		352	ug/Kg	1	09/7/2012 15:03
2,4-Dimethylphenol	ND		352	ug/Kg	1	09/7/2012 15:03
Diphenylamine	ND		352	ug/Kg	1	09/7/2012 15:03
Fluoranthene	ND		352	ug/Kg	1	09/7/2012 15:03
Fluorene	ND		352	ug/Kg	1	09/7/2012 15:03
Hexachlorobenzene	ND		1760	ug/Kg	1	09/7/2012 15:03
Hexachlorobutadiene	ND		352	ug/Kg	1	09/7/2012 15:03
Hexachlorocyclopentadiene	ND		703	ug/Kg	1	09/7/2012 15:03
Hexachloroethane	ND		352	ug/Kg	1	09/7/2012 15:03
Indeno(1,2,3-cd)pyrene	ND		352	ug/Kg	1	09/7/2012 15:03
Isophorone	ND		352	ug/Kg	1	09/7/2012 15:03
Naphthalene	ND		352	ug/Kg	1	09/7/2012 15:03
4-Nitroaniline	ND		1760	ug/Kg	1	09/7/2012 15:03
Nitrobenzene	ND		352	ug/Kg	1	09/7/2012 15:03
4-Nitrophenol	ND		1760	ug/Kg	1	09/7/2012 15:03
Pentachlorophenol	ND		1760	ug/Kg	1	09/7/2012 15:03
Phenanthrene	ND		352	ug/Kg	1	09/7/2012 15:03
Phenol	ND		352	ug/Kg	1	09/7/2012 15:03
Pyrene	ND		352	ug/Kg	1	09/7/2012 15:03
n-Nitrosodi-n-propylamine	ND		352	ug/Kg	1	09/7/2012 15:03

Surrogates

2,4,6-Tribromophenol	94.0	41.0-129	%	1	09/7/2012 15:03
2-Fluorobiphenyl	93.0	48.0-123	%	1	09/7/2012 15:03
2-Fluorophenol	77.0	42.0-123	%	1	09/7/2012 15:03
Nitrobenzene-d5	93.0	46.0-117	%	1	09/7/2012 15:03
Phenol-d6	92.0	48.0-125	%	1	09/7/2012 15:03
Terphenyl-d14	98.0	44.0-140	%	1	09/7/2012 15:03

Batch Information

Analytical Batch: **XMS1658**
 Analytical Method: **SW-846 8270D**
 Instrument: **MSD10**
 Analyst: **CMP**

Prep Batch: **XXX3006**
 Prep Method: **SW-846 3541**
 Prep Date/Time: **09/05/2012 10:25**
 Prep Initial Wt./Vol.: **31.49 g**
 Prep Extract Vol: **10 mL**

Results of S-3

Client Sample ID: **S-3**
Client Project ID: **70127335 U-3315 #81**
Lab Sample ID: 31202790003-C
Lab Project ID: 31202790

Collection Date: 08/31/2012 10:25
Received Date: 09/04/2012 08:00
Matrix: Soil-Solid as dry weight
Solids (%): 85.40

Results by SW-846 8260B

Parameter	Result	Qual	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND		5.28	ug/Kg	1	09/5/2012 15:57
1,1,1-Trichloroethane	ND		5.28	ug/Kg	1	09/5/2012 15:57
1,1,2,2-Tetrachloroethane	ND		5.28	ug/Kg	1	09/5/2012 15:57
1,1,2-Trichloroethane	ND		5.28	ug/Kg	1	09/5/2012 15:57
1,1-Dichloroethane	ND		5.28	ug/Kg	1	09/5/2012 15:57
1,1-Dichloroethene	ND		5.28	ug/Kg	1	09/5/2012 15:57
1,1-Dichloropropene	ND		5.28	ug/Kg	1	09/5/2012 15:57
1,2,3-Trichlorobenzene	ND		5.28	ug/Kg	1	09/5/2012 15:57
1,2,3-Trichloropropane	ND		5.28	ug/Kg	1	09/5/2012 15:57
1,2,4-Trichlorobenzene	ND		5.28	ug/Kg	1	09/5/2012 15:57
1,2,4-Trimethylbenzene	ND		5.28	ug/Kg	1	09/5/2012 15:57
1,2-Dibromo-3-chloropropane	ND		31.7	ug/Kg	1	09/5/2012 15:57
1,2-Dibromoethane	ND		5.28	ug/Kg	1	09/5/2012 15:57
1,2-Dichlorobenzene	ND		5.28	ug/Kg	1	09/5/2012 15:57
1,2-Dichloroethane	ND		5.28	ug/Kg	1	09/5/2012 15:57
1,2-Dichloropropane	ND		5.28	ug/Kg	1	09/5/2012 15:57
1,3,5-Trimethylbenzene	ND		5.28	ug/Kg	1	09/5/2012 15:57
1,3-Dichlorobenzene	ND		5.28	ug/Kg	1	09/5/2012 15:57
1,3-Dichloropropane	ND		5.28	ug/Kg	1	09/5/2012 15:57
1,4-Dichlorobenzene	ND		5.28	ug/Kg	1	09/5/2012 15:57
2,2-Dichloropropane	ND		5.28	ug/Kg	1	09/5/2012 15:57
2-Butanone	ND		26.4	ug/Kg	1	09/5/2012 15:57
2-Chlorotoluene	ND		5.28	ug/Kg	1	09/5/2012 15:57
2-Hexanone	ND		13.2	ug/Kg	1	09/5/2012 15:57
4-Chlorotoluene	ND		5.28	ug/Kg	1	09/5/2012 15:57
4-Isopropyltoluene	ND		5.28	ug/Kg	1	09/5/2012 15:57
4-Methyl-2-pentanone	ND		13.2	ug/Kg	1	09/5/2012 15:57
Acetone	ND		52.8	ug/Kg	1	09/5/2012 15:57
Benzene	ND		5.28	ug/Kg	1	09/5/2012 15:57
Bromobenzene	ND		5.28	ug/Kg	1	09/5/2012 15:57
Bromochloromethane	ND		5.28	ug/Kg	1	09/5/2012 15:57
Bromodichloromethane	ND		5.28	ug/Kg	1	09/5/2012 15:57
Bromoform	ND		5.28	ug/Kg	1	09/5/2012 15:57
Bromomethane	ND		5.28	ug/Kg	1	09/5/2012 15:57
n-Butylbenzene	ND		5.28	ug/Kg	1	09/5/2012 15:57
Carbon disulfide	ND		5.28	ug/Kg	1	09/5/2012 15:57
Carbon tetrachloride	ND		5.28	ug/Kg	1	09/5/2012 15:57
Chlorobenzene	ND		5.28	ug/Kg	1	09/5/2012 15:57
Chloroethane	ND		5.28	ug/Kg	1	09/5/2012 15:57
Chloroform	ND		5.28	ug/Kg	1	09/5/2012 15:57
Chloromethane	ND		5.28	ug/Kg	1	09/5/2012 15:57
Dibromochloromethane	ND		5.28	ug/Kg	1	09/5/2012 15:57
Dibromomethane	ND		5.28	ug/Kg	1	09/5/2012 15:57

Results of S-3

Client Sample ID: **S-3**
 Client Project ID: **70127335 U-3315 #81**
 Lab Sample ID: 31202790003-C
 Lab Project ID: 31202790

Collection Date: 08/31/2012 10:25
 Received Date: 09/04/2012 08:00
 Matrix: Soil-Solid as dry weight
 Solids (%): 85.40

Results by SW-846 8260B

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Dichlorodifluoromethane	ND		5.28	ug/Kg	1	09/5/2012 15:57
cis-1,3-Dichloropropene	ND		5.28	ug/Kg	1	09/5/2012 15:57
trans-1,3-Dichloropropene	ND		5.28	ug/Kg	1	09/5/2012 15:57
Diisopropyl Ether	ND		5.28	ug/Kg	1	09/5/2012 15:57
Ethyl Benzene	ND		5.28	ug/Kg	1	09/5/2012 15:57
Hexachlorobutadiene	ND		5.28	ug/Kg	1	09/5/2012 15:57
Isopropylbenzene (Cumene)	ND		5.28	ug/Kg	1	09/5/2012 15:57
Methyl iodide	ND		5.28	ug/Kg	1	09/5/2012 15:57
Methylene chloride	ND		21.1	ug/Kg	1	09/5/2012 15:57
Naphthalene	ND		5.28	ug/Kg	1	09/5/2012 15:57
Styrene	ND		5.28	ug/Kg	1	09/5/2012 15:57
Tetrachloroethene	ND		5.28	ug/Kg	1	09/5/2012 15:57
Toluene	ND		5.28	ug/Kg	1	09/5/2012 15:57
Trichloroethene	ND		5.28	ug/Kg	1	09/5/2012 15:57
Trichlorofluoromethane	ND		5.28	ug/Kg	1	09/5/2012 15:57
Vinyl chloride	ND		5.28	ug/Kg	1	09/5/2012 15:57
Xylene (total)	ND		10.6	ug/Kg	1	09/5/2012 15:57
cis-1,2-Dichloroethene	ND		5.28	ug/Kg	1	09/5/2012 15:57
m,p-Xylene	ND		10.6	ug/Kg	1	09/5/2012 15:57
n-Propylbenzene	ND		5.28	ug/Kg	1	09/5/2012 15:57
o-Xylene	ND		5.28	ug/Kg	1	09/5/2012 15:57
sec-Butylbenzene	ND		5.28	ug/Kg	1	09/5/2012 15:57
tert-Butyl methyl ether (MTBE)	ND		5.28	ug/Kg	1	09/5/2012 15:57
tert-Butylbenzene	ND		5.28	ug/Kg	1	09/5/2012 15:57
trans-1,2-Dichloroethene	ND		5.28	ug/Kg	1	09/5/2012 15:57
trans-1,4-Dichloro-2-butene	ND		26.4	ug/Kg	1	09/5/2012 15:57

Surrogates

1,2-Dichloroethane-d4	112	55.0-173	%	1	09/5/2012 15:57
4-Bromofluorobenzene	97.0	23.0-141	%	1	09/5/2012 15:57
Toluene d8	98.0	57.0-134	%	1	09/5/2012 15:57

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: **09/04/2012 13:58**
 Prep Initial Wt./Vol.: **5.55 g**
 Prep Extract Vol: **5 mL**

Results of S-3

Client Sample ID: **S-3**
Client Project ID: **70127335 U-3315 #81**
Lab Sample ID: 31202790003-E
Lab Project ID: 31202790

Collection Date: 08/31/2012 10:25
Received Date: 09/04/2012 08:00
Matrix: Soil-Solid as dry weight
Solids (%): 85.40

Results by SW-846 8270D

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
1,2,4-Trichlorobenzene	ND		354	ug/Kg	1	09/7/2012 15:26
1,2-Dichlorobenzene	ND		354	ug/Kg	1	09/7/2012 15:26
1,3-Dichlorobenzene	ND		354	ug/Kg	1	09/7/2012 15:26
1,4-Dichlorobenzene	ND		354	ug/Kg	1	09/7/2012 15:26
2,4,5-Trichlorophenol	ND		354	ug/Kg	1	09/7/2012 15:26
2,4,6-Trichlorophenol	ND		354	ug/Kg	1	09/7/2012 15:26
2,4-Dichlorophenol	ND		354	ug/Kg	1	09/7/2012 15:26
2,4-Dinitrophenol	ND		1770	ug/Kg	1	09/7/2012 15:26
2,4-Dinitrotoluene	ND		354	ug/Kg	1	09/7/2012 15:26
2,6-Dinitrotoluene	ND		354	ug/Kg	1	09/7/2012 15:26
2-Chloronaphthalene	ND		354	ug/Kg	1	09/7/2012 15:26
2-Chlorophenol	ND		354	ug/Kg	1	09/7/2012 15:26
2-Methylnaphthalene	ND		354	ug/Kg	1	09/7/2012 15:26
2-Methylphenol	ND		354	ug/Kg	1	09/7/2012 15:26
2-Nitroaniline	ND		354	ug/Kg	1	09/7/2012 15:26
2-Nitrophenol	ND		354	ug/Kg	1	09/7/2012 15:26
3 and/or 4-Methylphenol	ND		354	ug/Kg	1	09/7/2012 15:26
3,3'-Dichlorobenzidine	ND		709	ug/Kg	1	09/7/2012 15:26
3-Nitroaniline	ND		1770	ug/Kg	1	09/7/2012 15:26
4,6-Dinitro-2-methylphenol	ND		1770	ug/Kg	1	09/7/2012 15:26
4-Chloro-3-methylphenol	ND		354	ug/Kg	1	09/7/2012 15:26
4-Chloroaniline	ND		354	ug/Kg	1	09/7/2012 15:26
4-Chlorophenyl phenyl ether	ND		354	ug/Kg	1	09/7/2012 15:26
Acenaphthene	ND		354	ug/Kg	1	09/7/2012 15:26
Acenaphthylene	ND		354	ug/Kg	1	09/7/2012 15:26
Anthracene	ND		354	ug/Kg	1	09/7/2012 15:26
Benzo(a)anthracene	ND		354	ug/Kg	1	09/7/2012 15:26
Benzo(a)pyrene	ND		354	ug/Kg	1	09/7/2012 15:26
Benzo(b)fluoranthene	ND		354	ug/Kg	1	09/7/2012 15:26
Benzo(g,h,i)perylene	ND		354	ug/Kg	1	09/7/2012 15:26
Benzo(k)fluoranthene	ND		354	ug/Kg	1	09/7/2012 15:26
Benzoic acid	ND		1770	ug/Kg	1	09/7/2012 15:26
Bis(2-Chloroethoxy)methane	ND		354	ug/Kg	1	09/7/2012 15:26
Bis(2-Chloroethyl)ether	ND		354	ug/Kg	1	09/7/2012 15:26
Bis(2-Chloroisopropyl)ether	ND		354	ug/Kg	1	09/7/2012 15:26
Bis(2-Ethylhexyl)phthalate	ND		354	ug/Kg	1	09/7/2012 15:26
4-Bromophenyl phenyl ether	ND		354	ug/Kg	1	09/7/2012 15:26
Butyl benzyl phthalate	ND		354	ug/Kg	1	09/7/2012 15:26
Chrysene	ND		354	ug/Kg	1	09/7/2012 15:26
Di-n-butyl phthalate	ND		354	ug/Kg	1	09/7/2012 15:26
Di-n-octyl phthalate	ND		354	ug/Kg	1	09/7/2012 15:26
Dibenz(a,h)anthracene	ND		354	ug/Kg	1	09/7/2012 15:26
Dibenzofuran	ND		354	ug/Kg	1	09/7/2012 15:26

Results of S-3

Client Sample ID: **S-3**
 Client Project ID: **70127335 U-3315 #81**
 Lab Sample ID: 31202790003-E
 Lab Project ID: 31202790

Collection Date: 08/31/2012 10:25
 Received Date: 09/04/2012 08:00
 Matrix: Soil-Solid as dry weight
 Solids (%): 85.40

Results by SW-846 8270D

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Diethyl phthalate	ND		354	ug/Kg	1	09/7/2012 15:26
Dimethyl phthalate	ND		354	ug/Kg	1	09/7/2012 15:26
2,4-Dimethylphenol	ND		354	ug/Kg	1	09/7/2012 15:26
Diphenylamine	ND		354	ug/Kg	1	09/7/2012 15:26
Fluoranthene	ND		354	ug/Kg	1	09/7/2012 15:26
Fluorene	ND		354	ug/Kg	1	09/7/2012 15:26
Hexachlorobenzene	ND		1770	ug/Kg	1	09/7/2012 15:26
Hexachlorobutadiene	ND		354	ug/Kg	1	09/7/2012 15:26
Hexachlorocyclopentadiene	ND		709	ug/Kg	1	09/7/2012 15:26
Hexachloroethane	ND		354	ug/Kg	1	09/7/2012 15:26
Indeno(1,2,3-cd)pyrene	ND		354	ug/Kg	1	09/7/2012 15:26
Isophorone	ND		354	ug/Kg	1	09/7/2012 15:26
Naphthalene	ND		354	ug/Kg	1	09/7/2012 15:26
4-Nitroaniline	ND		1770	ug/Kg	1	09/7/2012 15:26
Nitrobenzene	ND		354	ug/Kg	1	09/7/2012 15:26
4-Nitrophenol	ND		1770	ug/Kg	1	09/7/2012 15:26
Pentachlorophenol	ND		1770	ug/Kg	1	09/7/2012 15:26
Phenanthrene	ND		354	ug/Kg	1	09/7/2012 15:26
Phenol	ND		354	ug/Kg	1	09/7/2012 15:26
Pyrene	ND		354	ug/Kg	1	09/7/2012 15:26
n-Nitrosodi-n-propylamine	ND		354	ug/Kg	1	09/7/2012 15:26

Surrogates

2,4,6-Tribromophenol	82.0	41.0-129	%	1	09/7/2012 15:26
2-Fluorobiphenyl	77.0	48.0-123	%	1	09/7/2012 15:26
2-Fluorophenol	72.0	42.0-123	%	1	09/7/2012 15:26
Nitrobenzene-d5	85.0	46.0-117	%	1	09/7/2012 15:26
Phenol-d6	88.0	48.0-125	%	1	09/7/2012 15:26
Terphenyl-d14	86.0	44.0-140	%	1	09/7/2012 15:26

Batch Information

Analytical Batch: **XMS1658**
 Analytical Method: **SW-846 8270D**
 Instrument: **MSD10**
 Analyst: **CMP**

Prep Batch: **XXX3006**
 Prep Method: **SW-846 3541**
 Prep Date/Time: **09/05/2012 10:25**
 Prep Initial Wt./Vol.: **33.11 g**
 Prep Extract Vol: **10 mL**

Results of S-4

Client Sample ID: **S-4**
Client Project ID: **70127335 U-3315 #81**
Lab Sample ID: 31202790004-A
Lab Project ID: 31202790

Collection Date: 08/31/2012 10:35
Received Date: 09/04/2012 08:00
Matrix: Soil-Solid as dry weight
Solids (%): 88.80

Results by SW-846 8260B

Parameter	Result	Qual	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND		4.51	ug/Kg	1	09/5/2012 16:23
1,1,1-Trichloroethane	ND		4.51	ug/Kg	1	09/5/2012 16:23
1,1,2,2-Tetrachloroethane	ND		4.51	ug/Kg	1	09/5/2012 16:23
1,1,2-Trichloroethane	ND		4.51	ug/Kg	1	09/5/2012 16:23
1,1-Dichloroethane	ND		4.51	ug/Kg	1	09/5/2012 16:23
1,1-Dichloroethene	ND		4.51	ug/Kg	1	09/5/2012 16:23
1,1-Dichloropropene	ND		4.51	ug/Kg	1	09/5/2012 16:23
1,2,3-Trichlorobenzene	ND		4.51	ug/Kg	1	09/5/2012 16:23
1,2,3-Trichloropropane	ND		4.51	ug/Kg	1	09/5/2012 16:23
1,2,4-Trichlorobenzene	ND		4.51	ug/Kg	1	09/5/2012 16:23
1,2,4-Trimethylbenzene	ND		4.51	ug/Kg	1	09/5/2012 16:23
1,2-Dibromo-3-chloropropane	ND		27.1	ug/Kg	1	09/5/2012 16:23
1,2-Dibromoethane	ND		4.51	ug/Kg	1	09/5/2012 16:23
1,2-Dichlorobenzene	ND		4.51	ug/Kg	1	09/5/2012 16:23
1,2-Dichloroethane	ND		4.51	ug/Kg	1	09/5/2012 16:23
1,2-Dichloropropane	ND		4.51	ug/Kg	1	09/5/2012 16:23
1,3,5-Trimethylbenzene	ND		4.51	ug/Kg	1	09/5/2012 16:23
1,3-Dichlorobenzene	ND		4.51	ug/Kg	1	09/5/2012 16:23
1,3-Dichloropropane	ND		4.51	ug/Kg	1	09/5/2012 16:23
1,4-Dichlorobenzene	ND		4.51	ug/Kg	1	09/5/2012 16:23
2,2-Dichloropropane	ND		4.51	ug/Kg	1	09/5/2012 16:23
2-Butanone	ND		22.6	ug/Kg	1	09/5/2012 16:23
2-Chlorotoluene	ND		4.51	ug/Kg	1	09/5/2012 16:23
2-Hexanone	ND		11.3	ug/Kg	1	09/5/2012 16:23
4-Chlorotoluene	ND		4.51	ug/Kg	1	09/5/2012 16:23
4-Isopropyltoluene	ND		4.51	ug/Kg	1	09/5/2012 16:23
4-Methyl-2-pentanone	ND		11.3	ug/Kg	1	09/5/2012 16:23
Acetone	ND		45.1	ug/Kg	1	09/5/2012 16:23
Benzene	ND		4.51	ug/Kg	1	09/5/2012 16:23
Bromobenzene	ND		4.51	ug/Kg	1	09/5/2012 16:23
Bromochloromethane	ND		4.51	ug/Kg	1	09/5/2012 16:23
Bromodichloromethane	ND		4.51	ug/Kg	1	09/5/2012 16:23
Bromoform	ND		4.51	ug/Kg	1	09/5/2012 16:23
Bromomethane	ND		4.51	ug/Kg	1	09/5/2012 16:23
n-Butylbenzene	ND		4.51	ug/Kg	1	09/5/2012 16:23
Carbon disulfide	ND		4.51	ug/Kg	1	09/5/2012 16:23
Carbon tetrachloride	ND		4.51	ug/Kg	1	09/5/2012 16:23
Chlorobenzene	ND		4.51	ug/Kg	1	09/5/2012 16:23
Chloroethane	ND		4.51	ug/Kg	1	09/5/2012 16:23
Chloroform	ND		4.51	ug/Kg	1	09/5/2012 16:23
Chloromethane	ND		4.51	ug/Kg	1	09/5/2012 16:23
Dibromochloromethane	ND		4.51	ug/Kg	1	09/5/2012 16:23
Dibromomethane	ND		4.51	ug/Kg	1	09/5/2012 16:23

Results of S-4

Client Sample ID: **S-4**
 Client Project ID: **70127335 U-3315 #81**
 Lab Sample ID: 31202790004-A
 Lab Project ID: 31202790

Collection Date: 08/31/2012 10:35
 Received Date: 09/04/2012 08:00
 Matrix: Soil-Solid as dry weight
 Solids (%): 88.80

Results by SW-846 8260B

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Dichlorodifluoromethane	ND		4.51	ug/Kg	1	09/5/2012 16:23
cis-1,3-Dichloropropene	ND		4.51	ug/Kg	1	09/5/2012 16:23
trans-1,3-Dichloropropene	ND		4.51	ug/Kg	1	09/5/2012 16:23
Diisopropyl Ether	ND		4.51	ug/Kg	1	09/5/2012 16:23
Ethyl Benzene	ND		4.51	ug/Kg	1	09/5/2012 16:23
Hexachlorobutadiene	ND		4.51	ug/Kg	1	09/5/2012 16:23
Isopropylbenzene (Cumene)	ND		4.51	ug/Kg	1	09/5/2012 16:23
Methyl iodide	ND		4.51	ug/Kg	1	09/5/2012 16:23
Methylene chloride	ND		18.0	ug/Kg	1	09/5/2012 16:23
Naphthalene	ND		4.51	ug/Kg	1	09/5/2012 16:23
Styrene	ND		4.51	ug/Kg	1	09/5/2012 16:23
Tetrachloroethene	ND		4.51	ug/Kg	1	09/5/2012 16:23
Toluene	ND		4.51	ug/Kg	1	09/5/2012 16:23
Trichloroethene	ND		4.51	ug/Kg	1	09/5/2012 16:23
Trichlorofluoromethane	ND		4.51	ug/Kg	1	09/5/2012 16:23
Vinyl chloride	ND		4.51	ug/Kg	1	09/5/2012 16:23
Xylene (total)	ND		9.02	ug/Kg	1	09/5/2012 16:23
cis-1,2-Dichloroethene	ND		4.51	ug/Kg	1	09/5/2012 16:23
m,p-Xylene	ND		9.02	ug/Kg	1	09/5/2012 16:23
n-Propylbenzene	ND		4.51	ug/Kg	1	09/5/2012 16:23
o-Xylene	ND		4.51	ug/Kg	1	09/5/2012 16:23
sec-Butylbenzene	ND		4.51	ug/Kg	1	09/5/2012 16:23
tert-Butyl methyl ether (MTBE)	ND		4.51	ug/Kg	1	09/5/2012 16:23
tert-Butylbenzene	ND		4.51	ug/Kg	1	09/5/2012 16:23
trans-1,2-Dichloroethene	ND		4.51	ug/Kg	1	09/5/2012 16:23
trans-1,4-Dichloro-2-butene	ND		22.6	ug/Kg	1	09/5/2012 16:23

Surrogates

1,2-Dichloroethane-d4	99.0	55.0-173	%	1	09/5/2012 16:23
4-Bromofluorobenzene	104	23.0-141	%	1	09/5/2012 16:23
Toluene d8	93.0	57.0-134	%	1	09/5/2012 16:23

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: **09/04/2012 13:59**
 Prep Initial Wt./Vol.: **6.24 g**
 Prep Extract Vol: **5 mL**

Results of S-4

Client Sample ID: **S-4**
Client Project ID: **70127335 U-3315 #81**
Lab Sample ID: 31202790004-E
Lab Project ID: 31202790

Collection Date: 08/31/2012 10:35
Received Date: 09/04/2012 08:00
Matrix: Soil-Solid as dry weight
Solids (%): 88.80

Results by SW-846 8270D

Parameter	Result	Qual	LOQ/CL	Units	DF	Date Analyzed
1,2,4-Trichlorobenzene	ND		352	ug/Kg	1	09/7/2012 15:49
1,2-Dichlorobenzene	ND		352	ug/Kg	1	09/7/2012 15:49
1,3-Dichlorobenzene	ND		352	ug/Kg	1	09/7/2012 15:49
1,4-Dichlorobenzene	ND		352	ug/Kg	1	09/7/2012 15:49
2,4,5-Trichlorophenol	ND		352	ug/Kg	1	09/7/2012 15:49
2,4,6-Trichlorophenol	ND		352	ug/Kg	1	09/7/2012 15:49
2,4-Dichlorophenol	ND		352	ug/Kg	1	09/7/2012 15:49
2,4-Dinitrophenol	ND		1760	ug/Kg	1	09/7/2012 15:49
2,4-Dinitrotoluene	ND		352	ug/Kg	1	09/7/2012 15:49
2,6-Dinitrotoluene	ND		352	ug/Kg	1	09/7/2012 15:49
2-Chloronaphthalene	ND		352	ug/Kg	1	09/7/2012 15:49
2-Chlorophenol	ND		352	ug/Kg	1	09/7/2012 15:49
2-Methylnaphthalene	ND		352	ug/Kg	1	09/7/2012 15:49
2-Methylphenol	ND		352	ug/Kg	1	09/7/2012 15:49
2-Nitroaniline	ND		352	ug/Kg	1	09/7/2012 15:49
2-Nitrophenol	ND		352	ug/Kg	1	09/7/2012 15:49
3 and/or 4-Methylphenol	ND		352	ug/Kg	1	09/7/2012 15:49
3,3'-Dichlorobenzidine	ND		704	ug/Kg	1	09/7/2012 15:49
3-Nitroaniline	ND		1760	ug/Kg	1	09/7/2012 15:49
4,6-Dinitro-2-methylphenol	ND		1760	ug/Kg	1	09/7/2012 15:49
4-Chloro-3-methylphenol	ND		352	ug/Kg	1	09/7/2012 15:49
4-Chloroaniline	ND		352	ug/Kg	1	09/7/2012 15:49
4-Chlorophenyl phenyl ether	ND		352	ug/Kg	1	09/7/2012 15:49
Acenaphthene	ND		352	ug/Kg	1	09/7/2012 15:49
Acenaphthylene	ND		352	ug/Kg	1	09/7/2012 15:49
Anthracene	ND		352	ug/Kg	1	09/7/2012 15:49
Benzo(a)anthracene	ND		352	ug/Kg	1	09/7/2012 15:49
Benzo(a)pyrene	ND		352	ug/Kg	1	09/7/2012 15:49
Benzo(b)fluoranthene	ND		352	ug/Kg	1	09/7/2012 15:49
Benzo(g,h,i)perylene	ND		352	ug/Kg	1	09/7/2012 15:49
Benzo(k)fluoranthene	ND		352	ug/Kg	1	09/7/2012 15:49
Benzoic acid	ND		1760	ug/Kg	1	09/7/2012 15:49
Bis(2-Chloroethoxy)methane	ND		352	ug/Kg	1	09/7/2012 15:49
Bis(2-Chloroethyl)ether	ND		352	ug/Kg	1	09/7/2012 15:49
Bis(2-Chloroisopropyl)ether	ND		352	ug/Kg	1	09/7/2012 15:49
Bis(2-Ethylhexyl)phthalate	ND		352	ug/Kg	1	09/7/2012 15:49
4-Bromophenyl phenyl ether	ND		352	ug/Kg	1	09/7/2012 15:49
Butyl benzyl phthalate	ND		352	ug/Kg	1	09/7/2012 15:49
Chrysene	ND		352	ug/Kg	1	09/7/2012 15:49
Di-n-butyl phthalate	ND		352	ug/Kg	1	09/7/2012 15:49
Di-n-octyl phthalate	ND		352	ug/Kg	1	09/7/2012 15:49
Dibenz(a,h)anthracene	ND		352	ug/Kg	1	09/7/2012 15:49
Dibenzofuran	ND		352	ug/Kg	1	09/7/2012 15:49

Results of S-4

Client Sample ID: **S-4**
 Client Project ID: **70127335 U-3315 #81**
 Lab Sample ID: 31202790004-E
 Lab Project ID: 31202790

Collection Date: 08/31/2012 10:35
 Received Date: 09/04/2012 08:00
 Matrix: Soil-Solid as dry weight
 Solids (%): 88.80

Results by SW-846 8270D

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Diethyl phthalate	ND		352	ug/Kg	1	09/7/2012 15:49
Dimethyl phthalate	ND		352	ug/Kg	1	09/7/2012 15:49
2,4-Dimethylphenol	ND		352	ug/Kg	1	09/7/2012 15:49
Diphenylamine	ND		352	ug/Kg	1	09/7/2012 15:49
Fluoranthene	ND		352	ug/Kg	1	09/7/2012 15:49
Fluorene	ND		352	ug/Kg	1	09/7/2012 15:49
Hexachlorobenzene	ND		1760	ug/Kg	1	09/7/2012 15:49
Hexachlorobutadiene	ND		352	ug/Kg	1	09/7/2012 15:49
Hexachlorocyclopentadiene	ND		704	ug/Kg	1	09/7/2012 15:49
Hexachloroethane	ND		352	ug/Kg	1	09/7/2012 15:49
Indeno(1,2,3-cd)pyrene	ND		352	ug/Kg	1	09/7/2012 15:49
Isophorone	ND		352	ug/Kg	1	09/7/2012 15:49
Naphthalene	ND		352	ug/Kg	1	09/7/2012 15:49
4-Nitroaniline	ND		1760	ug/Kg	1	09/7/2012 15:49
Nitrobenzene	ND		352	ug/Kg	1	09/7/2012 15:49
4-Nitrophenol	ND		1760	ug/Kg	1	09/7/2012 15:49
Pentachlorophenol	ND		1760	ug/Kg	1	09/7/2012 15:49
Phenanthrene	ND		352	ug/Kg	1	09/7/2012 15:49
Phenol	ND		352	ug/Kg	1	09/7/2012 15:49
Pyrene	ND		352	ug/Kg	1	09/7/2012 15:49
n-Nitrosodi-n-propylamine	ND		352	ug/Kg	1	09/7/2012 15:49

Surrogates

2,4,6-Tribromophenol	85.0	41.0-129	%	1	09/7/2012 15:49
2-Fluorobiphenyl	86.0	48.0-123	%	1	09/7/2012 15:49
2-Fluorophenol	79.0	42.0-123	%	1	09/7/2012 15:49
Nitrobenzene-d5	92.0	46.0-117	%	1	09/7/2012 15:49
Phenol-d6	92.0	48.0-125	%	1	09/7/2012 15:49
Terphenyl-d14	96.0	44.0-140	%	1	09/7/2012 15:49

Batch Information

Analytical Batch: **XMS1658**
 Analytical Method: **SW-846 8270D**
 Instrument: **MSD10**
 Analyst: **CMP**

Prep Batch: **XXX3006**
 Prep Method: **SW-846 3541**
 Prep Date/Time: **09/05/2012 10:25**
 Prep Initial Wt./Vol.: **32.03 g**
 Prep Extract Vol: **10 mL**

Results of S-5

Client Sample ID: **S-5**
Client Project ID: **70127335 U-3315 #81**
Lab Sample ID: 31202790005-B
Lab Project ID: 31202790

Collection Date: 08/31/2012 11:05
Received Date: 09/04/2012 08:00
Matrix: Soil-Solid as dry weight
Solids (%): 83.10

Results by SW-846 8260B

Parameter	Result	Qual	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND		4.27	ug/Kg	1	09/10/2012 14:33
1,1,1-Trichloroethane	ND		4.27	ug/Kg	1	09/10/2012 14:33
1,1,2,2-Tetrachloroethane	ND		4.27	ug/Kg	1	09/10/2012 14:33
1,1,2-Trichloroethane	ND		4.27	ug/Kg	1	09/10/2012 14:33
1,1-Dichloroethane	ND		4.27	ug/Kg	1	09/10/2012 14:33
1,1-Dichloroethene	ND		4.27	ug/Kg	1	09/10/2012 14:33
1,1-Dichloropropene	ND		4.27	ug/Kg	1	09/10/2012 14:33
1,2,3-Trichlorobenzene	ND		4.27	ug/Kg	1	09/10/2012 14:33
1,2,3-Trichloropropane	ND		4.27	ug/Kg	1	09/10/2012 14:33
1,2,4-Trichlorobenzene	ND		4.27	ug/Kg	1	09/10/2012 14:33
1,2,4-Trimethylbenzene	ND		4.27	ug/Kg	1	09/10/2012 14:33
1,2-Dibromo-3-chloropropane	ND		25.6	ug/Kg	1	09/10/2012 14:33
1,2-Dibromoethane	ND		4.27	ug/Kg	1	09/10/2012 14:33
1,2-Dichlorobenzene	ND		4.27	ug/Kg	1	09/10/2012 14:33
1,2-Dichloroethane	ND		4.27	ug/Kg	1	09/10/2012 14:33
1,2-Dichloropropane	ND		4.27	ug/Kg	1	09/10/2012 14:33
1,3,5-Trimethylbenzene	ND		4.27	ug/Kg	1	09/10/2012 14:33
1,3-Dichlorobenzene	ND		4.27	ug/Kg	1	09/10/2012 14:33
1,3-Dichloropropane	ND		4.27	ug/Kg	1	09/10/2012 14:33
1,4-Dichlorobenzene	ND		4.27	ug/Kg	1	09/10/2012 14:33
2,2-Dichloropropane	ND		4.27	ug/Kg	1	09/10/2012 14:33
2-Butanone	ND		21.3	ug/Kg	1	09/10/2012 14:33
2-Chlorotoluene	ND		4.27	ug/Kg	1	09/10/2012 14:33
2-Hexanone	ND		10.7	ug/Kg	1	09/10/2012 14:33
4-Chlorotoluene	ND		4.27	ug/Kg	1	09/10/2012 14:33
4-Isopropyltoluene	ND		4.27	ug/Kg	1	09/10/2012 14:33
4-Methyl-2-pentanone	ND		10.7	ug/Kg	1	09/10/2012 14:33
Acetone	ND		42.7	ug/Kg	1	09/10/2012 14:33
Benzene	ND		4.27	ug/Kg	1	09/10/2012 14:33
Bromobenzene	ND		4.27	ug/Kg	1	09/10/2012 14:33
Bromochloromethane	ND		4.27	ug/Kg	1	09/10/2012 14:33
Bromodichloromethane	ND		4.27	ug/Kg	1	09/10/2012 14:33
Bromoform	ND		4.27	ug/Kg	1	09/10/2012 14:33
Bromomethane	ND		4.27	ug/Kg	1	09/10/2012 14:33
n-Butylbenzene	ND		4.27	ug/Kg	1	09/10/2012 14:33
Carbon disulfide	ND		4.27	ug/Kg	1	09/10/2012 14:33
Carbon tetrachloride	ND		4.27	ug/Kg	1	09/10/2012 14:33
Chlorobenzene	ND		4.27	ug/Kg	1	09/10/2012 14:33
Chloroethane	ND		4.27	ug/Kg	1	09/10/2012 14:33
Chloroform	ND		4.27	ug/Kg	1	09/10/2012 14:33
Chloromethane	ND		4.27	ug/Kg	1	09/10/2012 14:33
Dibromochloromethane	ND		4.27	ug/Kg	1	09/10/2012 14:33
Dibromomethane	ND		4.27	ug/Kg	1	09/10/2012 14:33

Results of S-5

Client Sample ID: **S-5**
 Client Project ID: **70127335 U-3315 #81**
 Lab Sample ID: 31202790005-B
 Lab Project ID: 31202790

Collection Date: 08/31/2012 11:05
 Received Date: 09/04/2012 08:00
 Matrix: Soil-Solid as dry weight
 Solids (%): 83.10

Results by SW-846 8260B

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Dichlorodifluoromethane	ND		4.27	ug/Kg	1	09/10/2012 14:33
cis-1,3-Dichloropropene	ND		4.27	ug/Kg	1	09/10/2012 14:33
trans-1,3-Dichloropropene	ND		4.27	ug/Kg	1	09/10/2012 14:33
Diisopropyl Ether	ND		4.27	ug/Kg	1	09/10/2012 14:33
Ethyl Benzene	ND		4.27	ug/Kg	1	09/10/2012 14:33
Hexachlorobutadiene	ND		4.27	ug/Kg	1	09/10/2012 14:33
Isopropylbenzene (Cumene)	ND		4.27	ug/Kg	1	09/10/2012 14:33
Methyl iodide	ND		4.27	ug/Kg	1	09/10/2012 14:33
Methylene chloride	ND		17.1	ug/Kg	1	09/10/2012 14:33
Naphthalene	ND		4.27	ug/Kg	1	09/10/2012 14:33
Styrene	ND		4.27	ug/Kg	1	09/10/2012 14:33
Tetrachloroethene	5.14		4.27	ug/Kg	1	09/10/2012 14:33
Toluene	ND		4.27	ug/Kg	1	09/10/2012 14:33
Trichloroethene	ND		4.27	ug/Kg	1	09/10/2012 14:33
Trichlorofluoromethane	ND		4.27	ug/Kg	1	09/10/2012 14:33
Vinyl chloride	ND		4.27	ug/Kg	1	09/10/2012 14:33
Xylene (total)	ND		8.54	ug/Kg	1	09/10/2012 14:33
cis-1,2-Dichloroethene	ND		4.27	ug/Kg	1	09/10/2012 14:33
m,p-Xylene	ND		8.54	ug/Kg	1	09/10/2012 14:33
n-Propylbenzene	ND		4.27	ug/Kg	1	09/10/2012 14:33
o-Xylene	ND		4.27	ug/Kg	1	09/10/2012 14:33
sec-Butylbenzene	ND		4.27	ug/Kg	1	09/10/2012 14:33
tert-Butyl methyl ether (MTBE)	ND		4.27	ug/Kg	1	09/10/2012 14:33
tert-Butylbenzene	ND		4.27	ug/Kg	1	09/10/2012 14:33
trans-1,2-Dichloroethene	ND		4.27	ug/Kg	1	09/10/2012 14:33
trans-1,4-Dichloro-2-butene	ND		21.3	ug/Kg	1	09/10/2012 14:33

Surrogates

1,2-Dichloroethane-d4	106	55.0-173	%	1	09/10/2012 14:33
4-Bromofluorobenzene	98.0	23.0-141	%	1	09/10/2012 14:33
Toluene d8	101	57.0-134	%	1	09/10/2012 14:33

Batch Information

Analytical Batch: **VMS2539**
 Analytical Method: **SW-846 8260B**
 Instrument: **MSD9**
 Analyst: **DVO**

Prep Batch: **VXX3971**
 Prep Method: **SW-846 5035 SL**
 Prep Date/Time: **09/04/2012 14:01**
 Prep Initial Wt./Vol.: **7.05 g**
 Prep Extract Vol: **5 mL**

Results of S-5

Client Sample ID: **S-5**
Client Project ID: **70127335 U-3315 #81**
Lab Sample ID: 31202790005-E
Lab Project ID: 31202790

Collection Date: 08/31/2012 11:05
Received Date: 09/04/2012 08:00
Matrix: Soil-Solid as dry weight
Solids (%): 83.10

Results by SW-846 8270D

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
1,2,4-Trichlorobenzene	ND		356	ug/Kg	1	09/7/2012 16:12
1,2-Dichlorobenzene	ND		356	ug/Kg	1	09/7/2012 16:12
1,3-Dichlorobenzene	ND		356	ug/Kg	1	09/7/2012 16:12
1,4-Dichlorobenzene	ND		356	ug/Kg	1	09/7/2012 16:12
2,4,5-Trichlorophenol	ND		356	ug/Kg	1	09/7/2012 16:12
2,4,6-Trichlorophenol	ND		356	ug/Kg	1	09/7/2012 16:12
2,4-Dichlorophenol	ND		356	ug/Kg	1	09/7/2012 16:12
2,4-Dinitrophenol	ND		1780	ug/Kg	1	09/7/2012 16:12
2,4-Dinitrotoluene	ND		356	ug/Kg	1	09/7/2012 16:12
2,6-Dinitrotoluene	ND		356	ug/Kg	1	09/7/2012 16:12
2-Chloronaphthalene	ND		356	ug/Kg	1	09/7/2012 16:12
2-Chlorophenol	ND		356	ug/Kg	1	09/7/2012 16:12
2-Methylnaphthalene	ND		356	ug/Kg	1	09/7/2012 16:12
2-Methylphenol	ND		356	ug/Kg	1	09/7/2012 16:12
2-Nitroaniline	ND		356	ug/Kg	1	09/7/2012 16:12
2-Nitrophenol	ND		356	ug/Kg	1	09/7/2012 16:12
3 and/or 4-Methylphenol	ND		356	ug/Kg	1	09/7/2012 16:12
3,3'-Dichlorobenzidine	ND		713	ug/Kg	1	09/7/2012 16:12
3-Nitroaniline	ND		1780	ug/Kg	1	09/7/2012 16:12
4,6-Dinitro-2-methylphenol	ND		1780	ug/Kg	1	09/7/2012 16:12
4-Chloro-3-methylphenol	ND		356	ug/Kg	1	09/7/2012 16:12
4-Chloroaniline	ND		356	ug/Kg	1	09/7/2012 16:12
4-Chlorophenyl phenyl ether	ND		356	ug/Kg	1	09/7/2012 16:12
Acenaphthene	ND		356	ug/Kg	1	09/7/2012 16:12
Acenaphthylene	ND		356	ug/Kg	1	09/7/2012 16:12
Anthracene	ND		356	ug/Kg	1	09/7/2012 16:12
Benzo(a)anthracene	ND		356	ug/Kg	1	09/7/2012 16:12
Benzo(a)pyrene	ND		356	ug/Kg	1	09/7/2012 16:12
Benzo(b)fluoranthene	ND		356	ug/Kg	1	09/7/2012 16:12
Benzo(g,h,i)perylene	ND		356	ug/Kg	1	09/7/2012 16:12
Benzo(k)fluoranthene	ND		356	ug/Kg	1	09/7/2012 16:12
Benzoic acid	ND		1780	ug/Kg	1	09/7/2012 16:12
Bis(2-Chloroethoxy)methane	ND		356	ug/Kg	1	09/7/2012 16:12
Bis(2-Chloroethyl)ether	ND		356	ug/Kg	1	09/7/2012 16:12
Bis(2-Chloroisopropyl)ether	ND		356	ug/Kg	1	09/7/2012 16:12
Bis(2-Ethylhexyl)phthalate	ND		356	ug/Kg	1	09/7/2012 16:12
4-Bromophenyl phenyl ether	ND		356	ug/Kg	1	09/7/2012 16:12
Butyl benzyl phthalate	ND		356	ug/Kg	1	09/7/2012 16:12
Chrysene	ND		356	ug/Kg	1	09/7/2012 16:12
Di-n-butyl phthalate	ND		356	ug/Kg	1	09/7/2012 16:12
Di-n-octyl phthalate	ND		356	ug/Kg	1	09/7/2012 16:12
Dibenz(a,h)anthracene	ND		356	ug/Kg	1	09/7/2012 16:12
Dibenzofuran	ND		356	ug/Kg	1	09/7/2012 16:12

Results of S-5

Client Sample ID: **S-5**
 Client Project ID: **70127335 U-3315 #81**
 Lab Sample ID: 31202790005-E
 Lab Project ID: 31202790

Collection Date: 08/31/2012 11:05
 Received Date: 09/04/2012 08:00
 Matrix: Soil-Solid as dry weight
 Solids (%): 83.10

Results by SW-846 8270D

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Diethyl phthalate	ND		356	ug/Kg	1	09/7/2012 16:12
Dimethyl phthalate	ND		356	ug/Kg	1	09/7/2012 16:12
2,4-Dimethylphenol	ND		356	ug/Kg	1	09/7/2012 16:12
Diphenylamine	ND		356	ug/Kg	1	09/7/2012 16:12
Fluoranthene	ND		356	ug/Kg	1	09/7/2012 16:12
Fluorene	ND		356	ug/Kg	1	09/7/2012 16:12
Hexachlorobenzene	ND		1780	ug/Kg	1	09/7/2012 16:12
Hexachlorobutadiene	ND		356	ug/Kg	1	09/7/2012 16:12
Hexachlorocyclopentadiene	ND		713	ug/Kg	1	09/7/2012 16:12
Hexachloroethane	ND		356	ug/Kg	1	09/7/2012 16:12
Indeno(1,2,3-cd)pyrene	ND		356	ug/Kg	1	09/7/2012 16:12
Isophorone	ND		356	ug/Kg	1	09/7/2012 16:12
Naphthalene	ND		356	ug/Kg	1	09/7/2012 16:12
4-Nitroaniline	ND		1780	ug/Kg	1	09/7/2012 16:12
Nitrobenzene	ND		356	ug/Kg	1	09/7/2012 16:12
4-Nitrophenol	ND		1780	ug/Kg	1	09/7/2012 16:12
Pentachlorophenol	ND		1780	ug/Kg	1	09/7/2012 16:12
Phenanthrene	ND		356	ug/Kg	1	09/7/2012 16:12
Phenol	ND		356	ug/Kg	1	09/7/2012 16:12
Pyrene	ND		356	ug/Kg	1	09/7/2012 16:12
n-Nitrosodi-n-propylamine	ND		356	ug/Kg	1	09/7/2012 16:12

Surrogates

2,4,6-Tribromophenol	83.0	41.0-129	%	1	09/7/2012 16:12
2-Fluorobiphenyl	83.0	48.0-123	%	1	09/7/2012 16:12
2-Fluorophenol	71.0	42.0-123	%	1	09/7/2012 16:12
Nitrobenzene-d5	83.0	46.0-117	%	1	09/7/2012 16:12
Phenol-d6	82.0	48.0-125	%	1	09/7/2012 16:12
Terphenyl-d14	93.0	44.0-140	%	1	09/7/2012 16:12

Batch Information

Analytical Batch: **XMS1658**
 Analytical Method: **SW-846 8270D**
 Instrument: **MSD10**
 Analyst: **CMP**

Prep Batch: **XXX3006**
 Prep Method: **SW-846 3541**
 Prep Date/Time: **09/05/2012 10:25**
 Prep Initial Wt./Vol.: **33.82 g**
 Prep Extract Vol: **10 mL**

Results of S-6

Client Sample ID: **S-6**
Client Project ID: **70127335 U-3315 #81**
Lab Sample ID: 31202790006-A
Lab Project ID: 31202790

Collection Date: 08/31/2012 11:33
Received Date: 09/04/2012 08:00
Matrix: Soil-Solid as dry weight
Solids (%): 91.70

Results by SW-846 8260B

Parameter	Result	Qual	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND		4.87	ug/Kg	1	09/5/2012 17:17
1,1,1-Trichloroethane	ND		4.87	ug/Kg	1	09/5/2012 17:17
1,1,2,2-Tetrachloroethane	ND		4.87	ug/Kg	1	09/5/2012 17:17
1,1,2-Trichloroethane	ND		4.87	ug/Kg	1	09/5/2012 17:17
1,1-Dichloroethane	ND		4.87	ug/Kg	1	09/5/2012 17:17
1,1-Dichloroethene	ND		4.87	ug/Kg	1	09/5/2012 17:17
1,1-Dichloropropene	ND		4.87	ug/Kg	1	09/5/2012 17:17
1,2,3-Trichlorobenzene	ND		4.87	ug/Kg	1	09/5/2012 17:17
1,2,3-Trichloropropane	ND		4.87	ug/Kg	1	09/5/2012 17:17
1,2,4-Trichlorobenzene	ND		4.87	ug/Kg	1	09/5/2012 17:17
1,2,4-Trimethylbenzene	ND		4.87	ug/Kg	1	09/5/2012 17:17
1,2-Dibromo-3-chloropropane	ND		29.2	ug/Kg	1	09/5/2012 17:17
1,2-Dibromoethane	ND		4.87	ug/Kg	1	09/5/2012 17:17
1,2-Dichlorobenzene	ND		4.87	ug/Kg	1	09/5/2012 17:17
1,2-Dichloroethane	ND		4.87	ug/Kg	1	09/5/2012 17:17
1,2-Dichloropropane	ND		4.87	ug/Kg	1	09/5/2012 17:17
1,3,5-Trimethylbenzene	ND		4.87	ug/Kg	1	09/5/2012 17:17
1,3-Dichlorobenzene	ND		4.87	ug/Kg	1	09/5/2012 17:17
1,3-Dichloropropane	ND		4.87	ug/Kg	1	09/5/2012 17:17
1,4-Dichlorobenzene	ND		4.87	ug/Kg	1	09/5/2012 17:17
2,2-Dichloropropane	ND		4.87	ug/Kg	1	09/5/2012 17:17
2-Butanone	ND		24.4	ug/Kg	1	09/5/2012 17:17
2-Chlorotoluene	ND		4.87	ug/Kg	1	09/5/2012 17:17
2-Hexanone	ND		12.2	ug/Kg	1	09/5/2012 17:17
4-Chlorotoluene	ND		4.87	ug/Kg	1	09/5/2012 17:17
4-Isopropyltoluene	ND		4.87	ug/Kg	1	09/5/2012 17:17
4-Methyl-2-pentanone	ND		12.2	ug/Kg	1	09/5/2012 17:17
Acetone	ND		48.7	ug/Kg	1	09/5/2012 17:17
Benzene	ND		4.87	ug/Kg	1	09/5/2012 17:17
Bromobenzene	ND		4.87	ug/Kg	1	09/5/2012 17:17
Bromochloromethane	ND		4.87	ug/Kg	1	09/5/2012 17:17
Bromodichloromethane	ND		4.87	ug/Kg	1	09/5/2012 17:17
Bromoform	ND		4.87	ug/Kg	1	09/5/2012 17:17
Bromomethane	ND		4.87	ug/Kg	1	09/5/2012 17:17
n-Butylbenzene	ND		4.87	ug/Kg	1	09/5/2012 17:17
Carbon disulfide	ND		4.87	ug/Kg	1	09/5/2012 17:17
Carbon tetrachloride	ND		4.87	ug/Kg	1	09/5/2012 17:17
Chlorobenzene	ND		4.87	ug/Kg	1	09/5/2012 17:17
Chloroethane	ND		4.87	ug/Kg	1	09/5/2012 17:17
Chloroform	ND		4.87	ug/Kg	1	09/5/2012 17:17
Chloromethane	ND		4.87	ug/Kg	1	09/5/2012 17:17
Dibromochloromethane	ND		4.87	ug/Kg	1	09/5/2012 17:17
Dibromomethane	ND		4.87	ug/Kg	1	09/5/2012 17:17

Results of S-6

Client Sample ID: **S-6**
 Client Project ID: **70127335 U-3315 #81**
 Lab Sample ID: 31202790006-A
 Lab Project ID: 31202790

Collection Date: 08/31/2012 11:33
 Received Date: 09/04/2012 08:00
 Matrix: Soil-Solid as dry weight
 Solids (%): 91.70

Results by SW-846 8260B

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Dichlorodifluoromethane	ND		4.87	ug/Kg	1	09/5/2012 17:17
cis-1,3-Dichloropropene	ND		4.87	ug/Kg	1	09/5/2012 17:17
trans-1,3-Dichloropropene	ND		4.87	ug/Kg	1	09/5/2012 17:17
Diisopropyl Ether	ND		4.87	ug/Kg	1	09/5/2012 17:17
Ethyl Benzene	ND		4.87	ug/Kg	1	09/5/2012 17:17
Hexachlorobutadiene	ND		4.87	ug/Kg	1	09/5/2012 17:17
Isopropylbenzene (Cumene)	ND		4.87	ug/Kg	1	09/5/2012 17:17
Methyl iodide	ND		4.87	ug/Kg	1	09/5/2012 17:17
Methylene chloride	ND		19.5	ug/Kg	1	09/5/2012 17:17
Naphthalene	ND		4.87	ug/Kg	1	09/5/2012 17:17
Styrene	ND		4.87	ug/Kg	1	09/5/2012 17:17
Tetrachloroethene	ND		4.87	ug/Kg	1	09/5/2012 17:17
Toluene	ND		4.87	ug/Kg	1	09/5/2012 17:17
Trichloroethene	ND		4.87	ug/Kg	1	09/5/2012 17:17
Trichlorofluoromethane	ND		4.87	ug/Kg	1	09/5/2012 17:17
Vinyl chloride	ND		4.87	ug/Kg	1	09/5/2012 17:17
Xylene (total)	ND		9.74	ug/Kg	1	09/5/2012 17:17
cis-1,2-Dichloroethene	ND		4.87	ug/Kg	1	09/5/2012 17:17
m,p-Xylene	ND		9.74	ug/Kg	1	09/5/2012 17:17
n-Propylbenzene	ND		4.87	ug/Kg	1	09/5/2012 17:17
o-Xylene	ND		4.87	ug/Kg	1	09/5/2012 17:17
sec-Butylbenzene	ND		4.87	ug/Kg	1	09/5/2012 17:17
tert-Butyl methyl ether (MTBE)	ND		4.87	ug/Kg	1	09/5/2012 17:17
tert-Butylbenzene	ND		4.87	ug/Kg	1	09/5/2012 17:17
trans-1,2-Dichloroethene	ND		4.87	ug/Kg	1	09/5/2012 17:17
trans-1,4-Dichloro-2-butene	ND		24.4	ug/Kg	1	09/5/2012 17:17

Surrogates

1,2-Dichloroethane-d4	117	55.0-173	%	1	09/5/2012 17:17
4-Bromofluorobenzene	86.0	23.0-141	%	1	09/5/2012 17:17
Toluene d8	101	57.0-134	%	1	09/5/2012 17:17

Batch InformationAnalytical Batch: **VMS2526**Analytical Method: **SW-846 8260B**Instrument: **MSD9**Analyst: **DVO**Prep Batch: **VXX3946**Prep Method: **SW-846 5035 SL**Prep Date/Time: **09/04/2012 14:02**Prep Initial Wt./Vol.: **5.6 g**Prep Extract Vol: **5 mL**

Results of S-6

Client Sample ID: **S-6**
 Client Project ID: **70127335 U-3315 #81**
 Lab Sample ID: 31202790006-E
 Lab Project ID: 31202790

Collection Date: 08/31/2012 11:33
 Received Date: 09/04/2012 08:00
 Matrix: Soil-Solid as dry weight
 Solids (%): 91.70

Results by SW-846 8270D

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
1,2,4-Trichlorobenzene	ND		350	ug/Kg	1	09/7/2012 16:35
1,2-Dichlorobenzene	ND		350	ug/Kg	1	09/7/2012 16:35
1,3-Dichlorobenzene	ND		350	ug/Kg	1	09/7/2012 16:35
1,4-Dichlorobenzene	ND		350	ug/Kg	1	09/7/2012 16:35
2,4,5-Trichlorophenol	ND		350	ug/Kg	1	09/7/2012 16:35
2,4,6-Trichlorophenol	ND		350	ug/Kg	1	09/7/2012 16:35
2,4-Dichlorophenol	ND		350	ug/Kg	1	09/7/2012 16:35
2,4-Dinitrophenol	ND		1750	ug/Kg	1	09/7/2012 16:35
2,4-Dinitrotoluene	ND		350	ug/Kg	1	09/7/2012 16:35
2,6-Dinitrotoluene	ND		350	ug/Kg	1	09/7/2012 16:35
2-Chloronaphthalene	ND		350	ug/Kg	1	09/7/2012 16:35
2-Chlorophenol	ND		350	ug/Kg	1	09/7/2012 16:35
2-Methylnaphthalene	ND		350	ug/Kg	1	09/7/2012 16:35
2-Methylphenol	ND		350	ug/Kg	1	09/7/2012 16:35
2-Nitroaniline	ND		350	ug/Kg	1	09/7/2012 16:35
2-Nitrophenol	ND		350	ug/Kg	1	09/7/2012 16:35
3 and/or 4-Methylphenol	ND		350	ug/Kg	1	09/7/2012 16:35
3,3'-Dichlorobenzidine	ND		700	ug/Kg	1	09/7/2012 16:35
3-Nitroaniline	ND		1750	ug/Kg	1	09/7/2012 16:35
4,6-Dinitro-2-methylphenol	ND		1750	ug/Kg	1	09/7/2012 16:35
4-Chloro-3-methylphenol	ND		350	ug/Kg	1	09/7/2012 16:35
4-Chloroaniline	ND		350	ug/Kg	1	09/7/2012 16:35
4-Chlorophenyl phenyl ether	ND		350	ug/Kg	1	09/7/2012 16:35
Acenaphthene	ND		350	ug/Kg	1	09/7/2012 16:35
Acenaphthylene	ND		350	ug/Kg	1	09/7/2012 16:35
Anthracene	ND		350	ug/Kg	1	09/7/2012 16:35
Benzo(a)anthracene	ND		350	ug/Kg	1	09/7/2012 16:35
Benzo(a)pyrene	ND		350	ug/Kg	1	09/7/2012 16:35
Benzo(b)fluoranthene	ND		350	ug/Kg	1	09/7/2012 16:35
Benzo(g,h,i)perylene	ND		350	ug/Kg	1	09/7/2012 16:35
Benzo(k)fluoranthene	ND		350	ug/Kg	1	09/7/2012 16:35
Benzoic acid	ND		1750	ug/Kg	1	09/7/2012 16:35
Bis(2-Chloroethoxy)methane	ND		350	ug/Kg	1	09/7/2012 16:35
Bis(2-Chloroethyl)ether	ND		350	ug/Kg	1	09/7/2012 16:35
Bis(2-Chloroisopropyl)ether	ND		350	ug/Kg	1	09/7/2012 16:35
Bis(2-Ethylhexyl)phthalate	ND		350	ug/Kg	1	09/7/2012 16:35
4-Bromophenyl phenyl ether	ND		350	ug/Kg	1	09/7/2012 16:35
Butyl benzyl phthalate	ND		350	ug/Kg	1	09/7/2012 16:35
Chrysene	ND		350	ug/Kg	1	09/7/2012 16:35
Di-n-butyl phthalate	ND		350	ug/Kg	1	09/7/2012 16:35
Di-n-octyl phthalate	ND		350	ug/Kg	1	09/7/2012 16:35
Dibenz(a,h)anthracene	ND		350	ug/Kg	1	09/7/2012 16:35
Dibenzofuran	ND		350	ug/Kg	1	09/7/2012 16:35

Results of S-6

Client Sample ID: **S-6**
 Client Project ID: **70127335 U-3315 #81**
 Lab Sample ID: 31202790006-E
 Lab Project ID: 31202790

Collection Date: 08/31/2012 11:33
 Received Date: 09/04/2012 08:00
 Matrix: Soil-Solid as dry weight
 Solids (%): 91.70

Results by SW-846 8270D

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Diethyl phthalate	ND		350	ug/Kg	1	09/7/2012 16:35
Dimethyl phthalate	ND		350	ug/Kg	1	09/7/2012 16:35
2,4-Dimethylphenol	ND		350	ug/Kg	1	09/7/2012 16:35
Diphenylamine	ND		350	ug/Kg	1	09/7/2012 16:35
Fluoranthene	ND		350	ug/Kg	1	09/7/2012 16:35
Fluorene	ND		350	ug/Kg	1	09/7/2012 16:35
Hexachlorobenzene	ND		1750	ug/Kg	1	09/7/2012 16:35
Hexachlorobutadiene	ND		350	ug/Kg	1	09/7/2012 16:35
Hexachlorocyclopentadiene	ND		700	ug/Kg	1	09/7/2012 16:35
Hexachloroethane	ND		350	ug/Kg	1	09/7/2012 16:35
Indeno(1,2,3-cd)pyrene	ND		350	ug/Kg	1	09/7/2012 16:35
Isophorone	ND		350	ug/Kg	1	09/7/2012 16:35
Naphthalene	ND		350	ug/Kg	1	09/7/2012 16:35
4-Nitroaniline	ND		1750	ug/Kg	1	09/7/2012 16:35
Nitrobenzene	ND		350	ug/Kg	1	09/7/2012 16:35
4-Nitrophenol	ND		1750	ug/Kg	1	09/7/2012 16:35
Pentachlorophenol	ND		1750	ug/Kg	1	09/7/2012 16:35
Phenanthrene	ND		350	ug/Kg	1	09/7/2012 16:35
Phenol	ND		350	ug/Kg	1	09/7/2012 16:35
Pyrene	ND		350	ug/Kg	1	09/7/2012 16:35
n-Nitrosodi-n-propylamine	ND		350	ug/Kg	1	09/7/2012 16:35

Surrogates

2,4,6-Tribromophenol	93.0	41.0-129	%	1	09/7/2012 16:35
2-Fluorobiphenyl	93.0	48.0-123	%	1	09/7/2012 16:35
2-Fluorophenol	75.0	42.0-123	%	1	09/7/2012 16:35
Nitrobenzene-d5	92.0	46.0-117	%	1	09/7/2012 16:35
Phenol-d6	89.0	48.0-125	%	1	09/7/2012 16:35
Terphenyl-d14	100	44.0-140	%	1	09/7/2012 16:35

Batch Information

Analytical Batch: **XMS1658**
 Analytical Method: **SW-846 8270D**
 Instrument: **MSD10**
 Analyst: **CMP**

Prep Batch: **XXX3006**
 Prep Method: **SW-846 3541**
 Prep Date/Time: **09/05/2012 10:25**
 Prep Initial Wt./Vol.: **31.22 g**
 Prep Extract Vol: **10 mL**

Results of S-7

Client Sample ID: **S-7**
Client Project ID: **70127335 U-3315 #81**
Lab Sample ID: 31202790007-A
Lab Project ID: 31202790

Collection Date: 08/31/2012 11:50
Received Date: 09/04/2012 08:00
Matrix: Soil-Solid as dry weight
Solids (%): 81.80

Results by SW-846 8260B

Parameter	Result	Qual	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND		4.63	ug/Kg	1	09/5/2012 17:44
1,1,1-Trichloroethane	ND		4.63	ug/Kg	1	09/5/2012 17:44
1,1,2,2-Tetrachloroethane	ND		4.63	ug/Kg	1	09/5/2012 17:44
1,1,2-Trichloroethane	ND		4.63	ug/Kg	1	09/5/2012 17:44
1,1-Dichloroethane	ND		4.63	ug/Kg	1	09/5/2012 17:44
1,1-Dichloroethene	ND		4.63	ug/Kg	1	09/5/2012 17:44
1,1-Dichloropropene	ND		4.63	ug/Kg	1	09/5/2012 17:44
1,2,3-Trichlorobenzene	ND		4.63	ug/Kg	1	09/5/2012 17:44
1,2,3-Trichloropropane	ND		4.63	ug/Kg	1	09/5/2012 17:44
1,2,4-Trichlorobenzene	ND		4.63	ug/Kg	1	09/5/2012 17:44
1,2,4-Trimethylbenzene	ND		4.63	ug/Kg	1	09/5/2012 17:44
1,2-Dibromo-3-chloropropane	ND		27.8	ug/Kg	1	09/5/2012 17:44
1,2-Dibromoethane	ND		4.63	ug/Kg	1	09/5/2012 17:44
1,2-Dichlorobenzene	ND		4.63	ug/Kg	1	09/5/2012 17:44
1,2-Dichloroethane	ND		4.63	ug/Kg	1	09/5/2012 17:44
1,2-Dichloropropane	ND		4.63	ug/Kg	1	09/5/2012 17:44
1,3,5-Trimethylbenzene	ND		4.63	ug/Kg	1	09/5/2012 17:44
1,3-Dichlorobenzene	ND		4.63	ug/Kg	1	09/5/2012 17:44
1,3-Dichloropropane	ND		4.63	ug/Kg	1	09/5/2012 17:44
1,4-Dichlorobenzene	ND		4.63	ug/Kg	1	09/5/2012 17:44
2,2-Dichloropropane	ND		4.63	ug/Kg	1	09/5/2012 17:44
2-Butanone	ND		23.2	ug/Kg	1	09/5/2012 17:44
2-Chlorotoluene	ND		4.63	ug/Kg	1	09/5/2012 17:44
2-Hexanone	ND		11.6	ug/Kg	1	09/5/2012 17:44
4-Chlorotoluene	ND		4.63	ug/Kg	1	09/5/2012 17:44
4-Isopropyltoluene	ND		4.63	ug/Kg	1	09/5/2012 17:44
4-Methyl-2-pentanone	ND		11.6	ug/Kg	1	09/5/2012 17:44
Acetone	ND		46.3	ug/Kg	1	09/5/2012 17:44
Benzene	ND		4.63	ug/Kg	1	09/5/2012 17:44
Bromobenzene	ND		4.63	ug/Kg	1	09/5/2012 17:44
Bromochloromethane	ND		4.63	ug/Kg	1	09/5/2012 17:44
Bromodichloromethane	ND		4.63	ug/Kg	1	09/5/2012 17:44
Bromoform	ND		4.63	ug/Kg	1	09/5/2012 17:44
Bromomethane	ND		4.63	ug/Kg	1	09/5/2012 17:44
n-Butylbenzene	ND		4.63	ug/Kg	1	09/5/2012 17:44
Carbon disulfide	ND		4.63	ug/Kg	1	09/5/2012 17:44
Carbon tetrachloride	ND		4.63	ug/Kg	1	09/5/2012 17:44
Chlorobenzene	ND		4.63	ug/Kg	1	09/5/2012 17:44
Chloroethane	ND		4.63	ug/Kg	1	09/5/2012 17:44
Chloroform	ND		4.63	ug/Kg	1	09/5/2012 17:44
Chloromethane	ND		4.63	ug/Kg	1	09/5/2012 17:44
Dibromochloromethane	ND		4.63	ug/Kg	1	09/5/2012 17:44
Dibromomethane	ND		4.63	ug/Kg	1	09/5/2012 17:44

Results of S-7

Client Sample ID: **S-7**
 Client Project ID: **70127335 U-3315 #81**
 Lab Sample ID: 31202790007-A
 Lab Project ID: 31202790

Collection Date: 08/31/2012 11:50
 Received Date: 09/04/2012 08:00
 Matrix: Soil-Solid as dry weight
 Solids (%): 81.80

Results by SW-846 8260B

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Dichlorodifluoromethane	ND		4.63	ug/Kg	1	09/5/2012 17:44
cis-1,3-Dichloropropene	ND		4.63	ug/Kg	1	09/5/2012 17:44
trans-1,3-Dichloropropene	ND		4.63	ug/Kg	1	09/5/2012 17:44
Diisopropyl Ether	ND		4.63	ug/Kg	1	09/5/2012 17:44
Ethyl Benzene	ND		4.63	ug/Kg	1	09/5/2012 17:44
Hexachlorobutadiene	ND		4.63	ug/Kg	1	09/5/2012 17:44
Isopropylbenzene (Cumene)	ND		4.63	ug/Kg	1	09/5/2012 17:44
Methyl iodide	ND		4.63	ug/Kg	1	09/5/2012 17:44
Methylene chloride	ND		18.5	ug/Kg	1	09/5/2012 17:44
Naphthalene	ND		4.63	ug/Kg	1	09/5/2012 17:44
Styrene	ND		4.63	ug/Kg	1	09/5/2012 17:44
Tetrachloroethene	ND		4.63	ug/Kg	1	09/5/2012 17:44
Toluene	ND		4.63	ug/Kg	1	09/5/2012 17:44
Trichloroethene	ND		4.63	ug/Kg	1	09/5/2012 17:44
Trichlorofluoromethane	ND		4.63	ug/Kg	1	09/5/2012 17:44
Vinyl chloride	ND		4.63	ug/Kg	1	09/5/2012 17:44
Xylene (total)	ND		9.27	ug/Kg	1	09/5/2012 17:44
cis-1,2-Dichloroethene	ND		4.63	ug/Kg	1	09/5/2012 17:44
m,p-Xylene	ND		9.27	ug/Kg	1	09/5/2012 17:44
n-Propylbenzene	ND		4.63	ug/Kg	1	09/5/2012 17:44
o-Xylene	ND		4.63	ug/Kg	1	09/5/2012 17:44
sec-Butylbenzene	ND		4.63	ug/Kg	1	09/5/2012 17:44
tert-Butyl methyl ether (MTBE)	ND		4.63	ug/Kg	1	09/5/2012 17:44
tert-Butylbenzene	ND		4.63	ug/Kg	1	09/5/2012 17:44
trans-1,2-Dichloroethene	ND		4.63	ug/Kg	1	09/5/2012 17:44
trans-1,4-Dichloro-2-butene	ND		23.2	ug/Kg	1	09/5/2012 17:44

Surrogates

1,2-Dichloroethane-d4	105	55.0-173	%	1	09/5/2012 17:44
4-Bromofluorobenzene	98.0	23.0-141	%	1	09/5/2012 17:44
Toluene d8	96.0	57.0-134	%	1	09/5/2012 17:44

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: **09/04/2012 14:04**
 Prep Initial Wt./Vol.: **6.6 g**
 Prep Extract Vol: **5 mL**

Results of S-7

Client Sample ID: **S-7**
Client Project ID: **70127335 U-3315 #81**
Lab Sample ID: 31202790007-E
Lab Project ID: 31202790

Collection Date: 08/31/2012 11:50
Received Date: 09/04/2012 08:00
Matrix: Soil-Solid as dry weight
Solids (%): 81.80

Results by SW-846 8270D

Parameter	Result	Qual	LOQ/CL	Units	DF	Date Analyzed
1,2,4-Trichlorobenzene	ND		370	ug/Kg	1	09/7/2012 16:58
1,2-Dichlorobenzene	ND		370	ug/Kg	1	09/7/2012 16:58
1,3-Dichlorobenzene	ND		370	ug/Kg	1	09/7/2012 16:58
1,4-Dichlorobenzene	ND		370	ug/Kg	1	09/7/2012 16:58
2,4,5-Trichlorophenol	ND		370	ug/Kg	1	09/7/2012 16:58
2,4,6-Trichlorophenol	ND		370	ug/Kg	1	09/7/2012 16:58
2,4-Dichlorophenol	ND		370	ug/Kg	1	09/7/2012 16:58
2,4-Dinitrophenol	ND		1850	ug/Kg	1	09/7/2012 16:58
2,4-Dinitrotoluene	ND		370	ug/Kg	1	09/7/2012 16:58
2,6-Dinitrotoluene	ND		370	ug/Kg	1	09/7/2012 16:58
2-Chloronaphthalene	ND		370	ug/Kg	1	09/7/2012 16:58
2-Chlorophenol	ND		370	ug/Kg	1	09/7/2012 16:58
2-Methylnaphthalene	ND		370	ug/Kg	1	09/7/2012 16:58
2-Methylphenol	ND		370	ug/Kg	1	09/7/2012 16:58
2-Nitroaniline	ND		370	ug/Kg	1	09/7/2012 16:58
2-Nitrophenol	ND		370	ug/Kg	1	09/7/2012 16:58
3 and/or 4-Methylphenol	ND		370	ug/Kg	1	09/7/2012 16:58
3,3'-Dichlorobenzidine	ND		739	ug/Kg	1	09/7/2012 16:58
3-Nitroaniline	ND		1850	ug/Kg	1	09/7/2012 16:58
4,6-Dinitro-2-methylphenol	ND		1850	ug/Kg	1	09/7/2012 16:58
4-Chloro-3-methylphenol	ND		370	ug/Kg	1	09/7/2012 16:58
4-Chloroaniline	ND		370	ug/Kg	1	09/7/2012 16:58
4-Chlorophenyl phenyl ether	ND		370	ug/Kg	1	09/7/2012 16:58
Acenaphthene	ND		370	ug/Kg	1	09/7/2012 16:58
Acenaphthylene	ND		370	ug/Kg	1	09/7/2012 16:58
Anthracene	ND		370	ug/Kg	1	09/7/2012 16:58
Benzo(a)anthracene	ND		370	ug/Kg	1	09/7/2012 16:58
Benzo(a)pyrene	ND		370	ug/Kg	1	09/7/2012 16:58
Benzo(b)fluoranthene	ND		370	ug/Kg	1	09/7/2012 16:58
Benzo(g,h,i)perylene	ND		370	ug/Kg	1	09/7/2012 16:58
Benzo(k)fluoranthene	ND		370	ug/Kg	1	09/7/2012 16:58
Benzoic acid	ND		1850	ug/Kg	1	09/7/2012 16:58
Bis(2-Chloroethoxy)methane	ND		370	ug/Kg	1	09/7/2012 16:58
Bis(2-Chloroethyl)ether	ND		370	ug/Kg	1	09/7/2012 16:58
Bis(2-Chloroisopropyl)ether	ND		370	ug/Kg	1	09/7/2012 16:58
Bis(2-Ethylhexyl)phthalate	ND		370	ug/Kg	1	09/7/2012 16:58
4-Bromophenyl phenyl ether	ND		370	ug/Kg	1	09/7/2012 16:58
Butyl benzyl phthalate	ND		370	ug/Kg	1	09/7/2012 16:58
Chrysene	ND		370	ug/Kg	1	09/7/2012 16:58
Di-n-butyl phthalate	ND		370	ug/Kg	1	09/7/2012 16:58
Di-n-octyl phthalate	ND		370	ug/Kg	1	09/7/2012 16:58
Dibenz(a,h)anthracene	ND		370	ug/Kg	1	09/7/2012 16:58
Dibenzofuran	ND		370	ug/Kg	1	09/7/2012 16:58

Results of S-7

Client Sample ID: **S-7**
 Client Project ID: **70127335 U-3315 #81**
 Lab Sample ID: 31202790007-E
 Lab Project ID: 31202790

Collection Date: 08/31/2012 11:50
 Received Date: 09/04/2012 08:00
 Matrix: Soil-Solid as dry weight
 Solids (%): 81.80

Results by SW-846 8270D

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Diethyl phthalate	ND		370	ug/Kg	1	09/7/2012 16:58
Dimethyl phthalate	ND		370	ug/Kg	1	09/7/2012 16:58
2,4-Dimethylphenol	ND		370	ug/Kg	1	09/7/2012 16:58
Diphenylamine	ND		370	ug/Kg	1	09/7/2012 16:58
Fluoranthene	ND		370	ug/Kg	1	09/7/2012 16:58
Fluorene	ND		370	ug/Kg	1	09/7/2012 16:58
Hexachlorobenzene	ND		1850	ug/Kg	1	09/7/2012 16:58
Hexachlorobutadiene	ND		370	ug/Kg	1	09/7/2012 16:58
Hexachlorocyclopentadiene	ND		739	ug/Kg	1	09/7/2012 16:58
Hexachloroethane	ND		370	ug/Kg	1	09/7/2012 16:58
Indeno(1,2,3-cd)pyrene	ND		370	ug/Kg	1	09/7/2012 16:58
Isophorone	ND		370	ug/Kg	1	09/7/2012 16:58
Naphthalene	ND		370	ug/Kg	1	09/7/2012 16:58
4-Nitroaniline	ND		1850	ug/Kg	1	09/7/2012 16:58
Nitrobenzene	ND		370	ug/Kg	1	09/7/2012 16:58
4-Nitrophenol	ND		1850	ug/Kg	1	09/7/2012 16:58
Pentachlorophenol	ND		1850	ug/Kg	1	09/7/2012 16:58
Phenanthrene	ND		370	ug/Kg	1	09/7/2012 16:58
Phenol	ND		370	ug/Kg	1	09/7/2012 16:58
Pyrene	ND		370	ug/Kg	1	09/7/2012 16:58
n-Nitrosodi-n-propylamine	ND		370	ug/Kg	1	09/7/2012 16:58

Surrogates

2,4,6-Tribromophenol	90.0	41.0-129	%	1	09/7/2012 16:58
2-Fluorobiphenyl	91.0	48.0-123	%	1	09/7/2012 16:58
2-Fluorophenol	73.0	42.0-123	%	1	09/7/2012 16:58
Nitrobenzene-d5	87.0	46.0-117	%	1	09/7/2012 16:58
Phenol-d6	87.0	48.0-125	%	1	09/7/2012 16:58
Terphenyl-d14	100	44.0-140	%	1	09/7/2012 16:58

Batch Information

Analytical Batch: **XMS1658**
 Analytical Method: **SW-846 8270D**
 Instrument: **MSD10**
 Analyst: **CMP**

Prep Batch: **XXX3006**
 Prep Method: **SW-846 3541**
 Prep Date/Time: **09/05/2012 10:25**
 Prep Initial Wt./Vol.: **33.13 g**
 Prep Extract Vol: **10 mL**

Results of GW-1

Client Sample ID: **GW-1**
Client Project ID: **70127335 U-3315 #81**
Lab Sample ID: 31202790008-A
Lab Project ID: 31202790

Collection Date: 09/06/2012 12:30
Received Date: 09/10/2012 14:45
Matrix: Water

Results by SW-846 8260B

Parameter	Result	Qual	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L	1	09/11/2012 14:34
1,1,1-Trichloroethane	ND		1.00	ug/L	1	09/11/2012 14:34
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L	1	09/11/2012 14:34
1,1,2-Trichloroethane	ND		1.00	ug/L	1	09/11/2012 14:34
1,1-Dichloroethane	ND		1.00	ug/L	1	09/11/2012 14:34
1,1-Dichloroethene	ND		1.00	ug/L	1	09/11/2012 14:34
1,1-Dichloropropene	ND		1.00	ug/L	1	09/11/2012 14:34
1,2,3-Trichlorobenzene	ND		1.00	ug/L	1	09/11/2012 14:34
1,2,3-Trichloropropane	ND		1.00	ug/L	1	09/11/2012 14:34
1,2,4-Trichlorobenzene	ND		1.00	ug/L	1	09/11/2012 14:34
1,2,4-Trimethylbenzene	ND		1.00	ug/L	1	09/11/2012 14:34
1,2-Dibromo-3-chloropropane	ND		5.00	ug/L	1	09/11/2012 14:34
1,2-Dibromoethane	ND		1.00	ug/L	1	09/11/2012 14:34
1,2-Dichlorobenzene	ND		1.00	ug/L	1	09/11/2012 14:34
1,2-Dichloroethane	ND		1.00	ug/L	1	09/11/2012 14:34
1,2-Dichloropropane	ND		1.00	ug/L	1	09/11/2012 14:34
1,3,5-Trimethylbenzene	ND		1.00	ug/L	1	09/11/2012 14:34
1,3-Dichlorobenzene	ND		1.00	ug/L	1	09/11/2012 14:34
1,3-Dichloropropane	ND		1.00	ug/L	1	09/11/2012 14:34
1,4-Dichlorobenzene	ND		1.00	ug/L	1	09/11/2012 14:34
2,2-Dichloropropane	ND		1.00	ug/L	1	09/11/2012 14:34
2-Butanone	ND		25.0	ug/L	1	09/11/2012 14:34
2-Chlorotoluene	ND		1.00	ug/L	1	09/11/2012 14:34
2-Hexanone	ND		5.00	ug/L	1	09/11/2012 14:34
4-Chlorotoluene	ND		1.00	ug/L	1	09/11/2012 14:34
4-Isopropyltoluene	ND		1.00	ug/L	1	09/11/2012 14:34
4-Methyl-2-pentanone	ND		5.00	ug/L	1	09/11/2012 14:34
Acetone	ND		25.0	ug/L	1	09/11/2012 14:34
Benzene	ND		1.00	ug/L	1	09/11/2012 14:34
Bromobenzene	ND		1.00	ug/L	1	09/11/2012 14:34
Bromochloromethane	ND		1.00	ug/L	1	09/11/2012 14:34
Bromodichloromethane	ND		1.00	ug/L	1	09/11/2012 14:34
Bromoform	ND		1.00	ug/L	1	09/11/2012 14:34
Bromomethane	ND		1.00	ug/L	1	09/11/2012 14:34
n-Butylbenzene	ND		1.00	ug/L	1	09/11/2012 14:34
Carbon disulfide	ND		1.00	ug/L	1	09/11/2012 14:34
Carbon tetrachloride	ND		1.00	ug/L	1	09/11/2012 14:34
Chlorobenzene	ND		1.00	ug/L	1	09/11/2012 14:34
Chloroethane	ND		1.00	ug/L	1	09/11/2012 14:34
Chloroform	ND		1.00	ug/L	1	09/11/2012 14:34
Chloromethane	ND		1.00	ug/L	1	09/11/2012 14:34
Dibromochloromethane	ND		1.00	ug/L	1	09/11/2012 14:34
Dibromomethane	ND		1.00	ug/L	1	09/11/2012 14:34

Results of GW-1

Client Sample ID: **GW-1**
 Client Project ID: **70127335 U-3315 #81**
 Lab Sample ID: 31202790008-A
 Lab Project ID: 31202790

Collection Date: 09/06/2012 12:30
 Received Date: 09/10/2012 14:45
 Matrix: Water

Results by SW-846 8260B

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Dichlorodifluoromethane	ND		5.00	ug/L	1	09/11/2012 14:34
cis-1,3-Dichloropropene	ND		1.00	ug/L	1	09/11/2012 14:34
trans-1,3-Dichloropropene	ND		1.00	ug/L	1	09/11/2012 14:34
Diisopropyl Ether	ND		1.00	ug/L	1	09/11/2012 14:34
Ethyl Benzene	ND		1.00	ug/L	1	09/11/2012 14:34
Hexachlorobutadiene	ND		1.00	ug/L	1	09/11/2012 14:34
Isopropylbenzene (Cumene)	ND		1.00	ug/L	1	09/11/2012 14:34
Methyl iodide	ND		1.00	ug/L	1	09/11/2012 14:34
Methylene chloride	ND		5.00	ug/L	1	09/11/2012 14:34
Naphthalene	ND		1.00	ug/L	1	09/11/2012 14:34
Styrene	ND		1.00	ug/L	1	09/11/2012 14:34
Tetrachloroethene	5.94		1.00	ug/L	1	09/11/2012 14:34
Toluene	ND		1.00	ug/L	1	09/11/2012 14:34
Trichloroethene	ND		1.00	ug/L	1	09/11/2012 14:34
Trichlorofluoromethane	ND		1.00	ug/L	1	09/11/2012 14:34
Vinyl chloride	ND		1.00	ug/L	1	09/11/2012 14:34
Xylene (total)	ND		2.00	ug/L	1	09/11/2012 14:34
cis-1,2-Dichloroethene	ND		1.00	ug/L	1	09/11/2012 14:34
m,p-Xylene	ND		2.00	ug/L	1	09/11/2012 14:34
n-Propylbenzene	ND		1.00	ug/L	1	09/11/2012 14:34
o-Xylene	ND		1.00	ug/L	1	09/11/2012 14:34
sec-Butylbenzene	ND		1.00	ug/L	1	09/11/2012 14:34
tert-Butyl methyl ether (MTBE)	ND		1.00	ug/L	1	09/11/2012 14:34
tert-Butylbenzene	ND		1.00	ug/L	1	09/11/2012 14:34
trans-1,2-Dichloroethene	ND		1.00	ug/L	1	09/11/2012 14:34
trans-1,4-Dichloro-2-butene	ND		5.00	ug/L	1	09/11/2012 14:34

Surrogates

1,2-Dichloroethane-d4	105	64.0-140	%	1	09/11/2012 14:34
4-Bromofluorobenzene	101	85.0-115	%	1	09/11/2012 14:34
Toluene d8	102	82.0-117	%	1	09/11/2012 14:34

Batch Information

Analytical Batch: **VMS2543**
 Analytical Method: **SW-846 8260B**
 Instrument: **MSD4**
 Analyst: **BWS**

Prep Batch: **VXX3979**
 Prep Method: **SW-846 5030B**
 Prep Date/Time: **09/11/2012 08:17**
 Prep Initial Wt./Vol.: **40 mL**
 Prep Extract Vol: **40 mL**

Results of GW-1

Client Sample ID: **GW-1**
Client Project ID: **70127335 U-3315 #81**
Lab Sample ID: 31202790008-D
Lab Project ID: 31202790

Collection Date: 09/06/2012 12:30
Received Date: 09/10/2012 14:45
Matrix: Water

Results by SW-846 8270D

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
1,2,4-Trichlorobenzene	ND		5.52	ug/L	1	09/13/2012 19:11
1,2-Dichlorobenzene	ND		5.52	ug/L	1	09/13/2012 19:11
1,3-Dichlorobenzene	ND		5.52	ug/L	1	09/13/2012 19:11
1,4-Dichlorobenzene	ND		5.52	ug/L	1	09/13/2012 19:11
2,4,5-Trichlorophenol	ND		5.52	ug/L	1	09/13/2012 19:11
2,4,6-Trichlorophenol	ND		5.52	ug/L	1	09/13/2012 19:11
2,4-Dichlorophenol	ND		5.52	ug/L	1	09/13/2012 19:11
2,4-Dinitrophenol	ND		27.6	ug/L	1	09/13/2012 19:11
2,4-Dinitrotoluene	ND		5.52	ug/L	1	09/13/2012 19:11
2,6-Dinitrotoluene	ND		5.52	ug/L	1	09/13/2012 19:11
2-Chloronaphthalene	ND		5.52	ug/L	1	09/13/2012 19:11
2-Chlorophenol	ND		5.52	ug/L	1	09/13/2012 19:11
2-Methylnaphthalene	ND		5.52	ug/L	1	09/13/2012 19:11
2-Methylphenol	ND		5.52	ug/L	1	09/13/2012 19:11
2-Nitroaniline	ND		5.52	ug/L	1	09/13/2012 19:11
2-Nitrophenol	ND		5.52	ug/L	1	09/13/2012 19:11
3 and/or 4-Methylphenol	ND		5.52	ug/L	1	09/13/2012 19:11
3,3'-Dichlorobenzidine	ND		11.0	ug/L	1	09/13/2012 19:11
3-Nitroaniline	ND		27.6	ug/L	1	09/13/2012 19:11
4,6-Dinitro-2-methylphenol	ND		27.6	ug/L	1	09/13/2012 19:11
4-Chloro-3-methylphenol	ND		5.52	ug/L	1	09/13/2012 19:11
4-Chloroaniline	ND		27.6	ug/L	1	09/13/2012 19:11
4-Chlorophenyl phenyl ether	ND		5.52	ug/L	1	09/13/2012 19:11
Acenaphthene	ND		5.52	ug/L	1	09/13/2012 19:11
Acenaphthylene	ND		5.52	ug/L	1	09/13/2012 19:11
Anthracene	ND		5.52	ug/L	1	09/13/2012 19:11
Benzo(a)anthracene	ND		5.52	ug/L	1	09/13/2012 19:11
Benzo(a)pyrene	ND		5.52	ug/L	1	09/13/2012 19:11
Benzo(b)fluoranthene	ND		5.52	ug/L	1	09/13/2012 19:11
Benzo(g,h,i)perylene	ND		5.52	ug/L	1	09/13/2012 19:11
Benzo(k)fluoranthene	ND		5.52	ug/L	1	09/13/2012 19:11
Benzoic acid	ND		5.52	ug/L	1	09/13/2012 19:11
Bis(2-Chloroethoxy)methane	ND		5.52	ug/L	1	09/13/2012 19:11
Bis(2-Chloroethyl)ether	ND		5.52	ug/L	1	09/13/2012 19:11
Bis(2-Chloroisopropyl)ether	ND		5.52	ug/L	1	09/13/2012 19:11
Bis(2-Ethylhexyl)phthalate	ND		5.52	ug/L	1	09/13/2012 19:11
4-Bromophenyl phenyl ether	ND		5.52	ug/L	1	09/13/2012 19:11
Butyl benzyl phthalate	ND		5.52	ug/L	1	09/13/2012 19:11
Chrysene	ND		5.52	ug/L	1	09/13/2012 19:11
Di-n-butyl phthalate	ND		5.52	ug/L	1	09/13/2012 19:11
Di-n-octyl phthalate	ND		5.52	ug/L	1	09/13/2012 19:11
Dibenz(a,h)anthracene	ND		5.52	ug/L	1	09/13/2012 19:11
Dibenzofuran	ND		5.52	ug/L	1	09/13/2012 19:11

Results of GW-1

Client Sample ID: **GW-1**
 Client Project ID: **70127335 U-3315 #81**
 Lab Sample ID: 31202790008-D
 Lab Project ID: 31202790

Collection Date: 09/06/2012 12:30
 Received Date: 09/10/2012 14:45
 Matrix: Water

Results by SW-846 8270D

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Diethyl phthalate	ND		5.52	ug/L	1	09/13/2012 19:11
Dimethyl phthalate	ND		5.52	ug/L	1	09/13/2012 19:11
2,4-Dimethylphenol	ND		5.52	ug/L	1	09/13/2012 19:11
Diphenylamine	ND		5.52	ug/L	1	09/13/2012 19:11
Fluoranthene	ND		5.52	ug/L	1	09/13/2012 19:11
Fluorene	ND		5.52	ug/L	1	09/13/2012 19:11
Hexachlorobenzene	ND		5.52	ug/L	1	09/13/2012 19:11
Hexachlorobutadiene	ND		5.52	ug/L	1	09/13/2012 19:11
Hexachlorocyclopentadiene	ND		11.0	ug/L	1	09/13/2012 19:11
Hexachloroethane	ND		5.52	ug/L	1	09/13/2012 19:11
Indeno(1,2,3-cd)pyrene	ND		5.52	ug/L	1	09/13/2012 19:11
Isophorone	ND		5.52	ug/L	1	09/13/2012 19:11
Naphthalene	ND		5.52	ug/L	1	09/13/2012 19:11
4-Nitroaniline	ND		27.6	ug/L	1	09/13/2012 19:11
Nitrobenzene	ND		5.52	ug/L	1	09/13/2012 19:11
4-Nitrophenol	ND		27.6	ug/L	1	09/13/2012 19:11
Pentachlorophenol	ND		27.6	ug/L	1	09/13/2012 19:11
Phenanthrene	ND		5.52	ug/L	1	09/13/2012 19:11
Phenol	ND		5.52	ug/L	1	09/13/2012 19:11
Pyrene	ND		5.52	ug/L	1	09/13/2012 19:11
n-Nitrosodi-n-propylamine	ND		5.52	ug/L	1	09/13/2012 19:11

Surrogates

2,4,6-Tribromophenol	104	29.3-152	%	1	09/13/2012 19:11
2-Fluorobiphenyl	96.0	50.0-107	%	1	09/13/2012 19:11
2-Fluorophenol	74.0	33.1-118	%	1	09/13/2012 19:11
Nitrobenzene-d5	95.0	46.0-118	%	1	09/13/2012 19:11
Phenol-d6	91.0	49.0-120	%	1	09/13/2012 19:11
Terphenyl-d14	100	22.1-142	%	1	09/13/2012 19:11

Batch Information

Analytical Batch: **XMS1663**
 Analytical Method: **SW-846 8270D**
 Instrument: **MSD10**
 Analyst: **CMP**

Prep Batch: **XXX3040**
 Prep Method: **SW-846 3520C**
 Prep Date/Time: **09/13/2012 08:20**
 Prep Initial Wt./Vol.: **906 mL**
 Prep Extract Vol: **5 mL**



CHAIN OF CUSTODY

SGS ANALYTICAL PERSPECTIVES
5500 Business Drive
Wilmington, NC 28405
+1 910 350 1903
www.sgs.com

CLIENT:	TERRACON			SGS Reference #:	90	1	PAGE	1
CONTACT:	BEN SWIFT			PHONE NO.:	(919) 373 - 2211		OF	1
PROJECT:	#012345 SITE / PWNSID / WBS# U-3315			#	31202789			
REPORTS TO:	Lori Hoffman			C	PRESERVATIVE USED			
EMAIL:	l.hoffman@terracon.com			O	NASO4			
INVOICE TO:				N	MEAT			
QUOTE #:				T	ANALYSIS REQUIRED			
NCDOT				A	(828C)			
LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	R	VOLC (828C)			
	5-1	8-31-12	0831	S	VLCS (828C)			
	5-2		1015	E				
	5-3		1025	R				
	5-4		1035	S				
	5-5		1105	E				
	5-6		1133	R				
	5-7		1156	S				
COLLECTED/RELINQUISHED BY: (1)	DATE	TIME	RECEIVED BY:	REPORT LEVEL:				
BEN SWIFT	8-31-12	1741	<i>B. Swift</i>	<input type="checkbox"/> Level I	<input type="checkbox"/> Level II	<input type="checkbox"/> Level IV	<input type="checkbox"/> Rush:	<input checked="" type="checkbox"/> Standard
Relinquished By: (2)	Date	Time	Received By:	SPECIAL DELIVERABLES:				
<i>B. Swift</i>	9/1/12	1700		<input type="checkbox"/> DoD	<input type="checkbox"/> EDD:	State of Origin: _____		
Relinquished By: (3)	Date	Time	Received By:	SPECIAL INSTRUCTIONS:				
Received For Laboratory By:	Date	Time	CoC Seal: INTACT BROKEN <input checked="" type="checkbox"/> ABSENT	Shipping Carrier: _____				
<i>Ben Swift</i>	9/4/12	0800	Sample Receipt Temp: C 0.2	Shipping Ticket No: _____				

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White - Retained by Lab
Yellow - Retained by Client

SGS-00055 (06/12)

SGS North America Inc.

Sample Receipt Checklist (SRC)

Client: NCDOT-Terracon Work Order No.: 31202789 ⁹⁰ ~~100~~ _{9/4/12}

1. Shipped
 Hand Delivered Notes: _____

2. COC Present on Receipt
 No COC
 Additional Transmittal Forms

3. Custody Tape on Container
 No Custody Tape

4. Samples Intact
 Samples Broken / Leaking

5. Chilled on Receipt Actual Temp.(s) in °C: 0.2
 Ambient on Receipt
 Walk-in on Ice; Coming down to temp.
 Received Outside of Temperature Specifications

6. Sufficient Sample Submitted
 Insufficient Sample Submitted

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

8. Received Within Holding Time
 Not Received Within Holding Time

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

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

Comments: _____

Inspected and Logged in by: JJ

Date: Tue-9/4/12 00:00

SGS

CHAIN OF CUSTODY RECORD
SGS North America Inc.

Project Country: Pitt

1 CLIENT: Teracon		CONTACT: Steve Kulin PHONE NO.(719) 873-2211		PROJECT: U-3315 SITE/PWSID# : U-3315/35781.1.2		REPORTS TO: Steve Kulin Sjklelin@teracon.com		INVOICE TO: NC DOT QUOTE #: U-3315/35781.1.2 P.O. NUMBER:		SGS Reference: 31202790		PAGE 1 OF 1							
2 LAB NO.		SAMPLE IDENTIFICATION		DATE		TIME		MATRIX		No		SAMPLE TYPE	Preservatives Used	HCl	N/A	Analysis Required	C O N T A R G A E S	SGS	
601-1		9/6/12		12:30		AM		5 G		C		O	C COMP	(3)	9 2 2 0	9 8	GRAB	PARCEL #81	*
5		Collected/Retained By:(1)		Date		Time		Received By:		Date		9/6/12	15:00	9-6-12 1730	Shipping Carrier:	Samples Received Cold? (Circle YES or NO)			
5		Relinquished By: (2)		Date		Time		Received By:		Date		9/10/12	1445	Received By: <i>John</i>	Shipping Ticket No:	Temperature °C:	67°C		
5		Relinquished By: (3)		Date		Time		Received By:		Date				Special Deliverable Requirements:	Chain of Custody Seal: (Circle)	INTACT	BROKEN	ABSENT	
5		Relinquished By: (4)		Date		Time		Received By:		Date				Special Instructions:					
5														Requested Turnaround Time:					
5														<input type="checkbox"/> RUSH	Date Needed		STD		

Locations Nationwide
 • Alaska
 • New Jersey
 • North Carolina
 • Maryland
 • New York
 • Ohio

www.us.sgs.com

104310

SGS North America Inc.

Sample Receipt Checklist (SRC)

Client: NCDOT-Terracon Work Order No.: 31202790

- | | | |
|-----|--|-------------------------|
| 1. | <input type="checkbox"/> Shipped
<input checked="" type="checkbox"/> Hand Delivered | Notes: _____
_____ |
| 2. | <input checked="" type="checkbox"/> COC Present on Receipt
<input type="checkbox"/> No COC
<input type="checkbox"/> Additional Transmittal Forms | _____

_____ |
| 3. | <input type="checkbox"/> Custody Tape on Container
<input checked="" type="checkbox"/> No Custody Tape | _____
_____ |
| 4. | <input checked="" type="checkbox"/> Samples Intact
<input type="checkbox"/> Samples Broken / Leaking | _____
_____ |
| 5. | <input checked="" type="checkbox"/> Chilled on Receipt Actual Temp.(s) in °C: <u>0.7</u>
<input type="checkbox"/> Ambient on Receipt
<input type="checkbox"/> Walk-in on Ice; Coming down to temp.
<input type="checkbox"/> Received Outside of Temperature Specifications | _____

_____ |
| 6. | <input checked="" type="checkbox"/> Sufficient Sample Submitted
<input type="checkbox"/> Insufficient Sample Submitted | _____
_____ |
| 7. | <input type="checkbox"/> Chlorine absent
<input type="checkbox"/> HNO3 < 2
<input type="checkbox"/> HCL < 2
<input type="checkbox"/> Additional Preservatives verified (see notes) | _____

_____ |
| 8. | <input checked="" type="checkbox"/> Received Within Holding Time
<input type="checkbox"/> Not Received Within Holding Time | _____
_____ |
| 9. | <input checked="" type="checkbox"/> No Discrepancies Noted
<input type="checkbox"/> Discrepancies Noted
<input type="checkbox"/> NCDENR notified of Discrepancies* | _____

_____ |
| 10. | <input checked="" type="checkbox"/> No Headspace present in VOC vials
<input type="checkbox"/> Headspace present in VOC vials >6mm | _____
_____ |

Comments: _____

Inspected and Logged in by: JJ

Date: Mon-9/10/12 00:00

Laboratory Report of Analysis

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

Report Number: **31202864**

Client Project: **70127335 U-3315 Parcel 81**

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
Project Manager
michael.page@sgs.com

Date

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

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

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Collected</u>	<u>Received</u>	<u>Matrix</u>
S-8	31202864001	09/06/2012 16:54	09/10/2012 14:45	Soil-Solid as dry weight
S-9	31202864002	09/07/2012 10:15	09/10/2012 14:45	Soil-Solid as dry weight

Results of S-8Client Sample ID: **S-8**Client Project ID: **70127335 U-3315 Parcel 81**

Lab Sample ID: 31202864001-A

Lab Project ID: 31202864

Collection Date: 09/06/2012 16:54

Received Date: 09/10/2012 14:45

Matrix: Soil-Solid as dry weight

Solids (%): 77.70

Results by SW-846 8260B

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
1,1,1,2-Tetrachloroethane	ND		5.33	ug/Kg	1	09/11/2012 13:46
1,1,1-Trichloroethane	ND		5.33	ug/Kg	1	09/11/2012 13:46
1,1,2,2-Tetrachloroethane	ND		5.33	ug/Kg	1	09/11/2012 13:46
1,1,2-Trichloroethane	ND		5.33	ug/Kg	1	09/11/2012 13:46
1,1-Dichloroethane	ND		5.33	ug/Kg	1	09/11/2012 13:46
1,1-Dichloroethene	ND		5.33	ug/Kg	1	09/11/2012 13:46
1,1-Dichloropropene	ND		5.33	ug/Kg	1	09/11/2012 13:46
1,2,3-Trichlorobenzene	ND		5.33	ug/Kg	1	09/11/2012 13:46
1,2,3-Trichloropropane	ND		5.33	ug/Kg	1	09/11/2012 13:46
1,2,4-Trichlorobenzene	ND		5.33	ug/Kg	1	09/11/2012 13:46
1,2,4-Trimethylbenzene	ND		5.33	ug/Kg	1	09/11/2012 13:46
1,2-Dibromo-3-chloropropane	ND		32.0	ug/Kg	1	09/11/2012 13:46
1,2-Dibromoethane	ND		5.33	ug/Kg	1	09/11/2012 13:46
1,2-Dichlorobenzene	ND		5.33	ug/Kg	1	09/11/2012 13:46
1,2-Dichloroethane	ND		5.33	ug/Kg	1	09/11/2012 13:46
1,2-Dichloropropane	ND		5.33	ug/Kg	1	09/11/2012 13:46
1,3,5-Trimethylbenzene	ND		5.33	ug/Kg	1	09/11/2012 13:46
1,3-Dichlorobenzene	ND		5.33	ug/Kg	1	09/11/2012 13:46
1,3-Dichloropropane	ND		5.33	ug/Kg	1	09/11/2012 13:46
1,4-Dichlorobenzene	ND		5.33	ug/Kg	1	09/11/2012 13:46
2,2-Dichloropropane	ND		5.33	ug/Kg	1	09/11/2012 13:46
2-Butanone	ND		26.7	ug/Kg	1	09/11/2012 13:46
2-Chlorotoluene	ND		5.33	ug/Kg	1	09/11/2012 13:46
2-Hexanone	ND		13.3	ug/Kg	1	09/11/2012 13:46
4-Chlorotoluene	ND		5.33	ug/Kg	1	09/11/2012 13:46
4-Isopropyltoluene	ND		5.33	ug/Kg	1	09/11/2012 13:46
4-Methyl-2-pentanone	ND		13.3	ug/Kg	1	09/11/2012 13:46
Acetone	ND		53.3	ug/Kg	1	09/11/2012 13:46
Benzene	ND		5.33	ug/Kg	1	09/11/2012 13:46
Bromobenzene	ND		5.33	ug/Kg	1	09/11/2012 13:46
Bromochloromethane	ND		5.33	ug/Kg	1	09/11/2012 13:46
Bromodichloromethane	ND		5.33	ug/Kg	1	09/11/2012 13:46
Bromoform	ND		5.33	ug/Kg	1	09/11/2012 13:46
Bromomethane	ND		5.33	ug/Kg	1	09/11/2012 13:46
n-Butylbenzene	ND		5.33	ug/Kg	1	09/11/2012 13:46
Carbon disulfide	ND		5.33	ug/Kg	1	09/11/2012 13:46
Carbon tetrachloride	ND		5.33	ug/Kg	1	09/11/2012 13:46
Chlorobenzene	ND		5.33	ug/Kg	1	09/11/2012 13:46
Chloroethane	ND		5.33	ug/Kg	1	09/11/2012 13:46
Chloroform	ND		5.33	ug/Kg	1	09/11/2012 13:46
Chloromethane	ND		5.33	ug/Kg	1	09/11/2012 13:46
Dibromochloromethane	ND		5.33	ug/Kg	1	09/11/2012 13:46
Dibromomethane	ND		5.33	ug/Kg	1	09/11/2012 13:46

Print Date: 09/17/2012

N.C. Certification # 481

Results of S-8

Client Sample ID: **S-8**
 Client Project ID: **70127335 U-3315 Parcel 81**
 Lab Sample ID: 31202864001-A
 Lab Project ID: 31202864

Collection Date: 09/06/2012 16:54
 Received Date: 09/10/2012 14:45
 Matrix: Soil-Solid as dry weight
 Solids (%): 77.70

Results by SW-846 8260B

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Dichlorodifluoromethane	ND		5.33	ug/Kg	1	09/11/2012 13:46
cis-1,3-Dichloropropene	ND		5.33	ug/Kg	1	09/11/2012 13:46
trans-1,3-Dichloropropene	ND		5.33	ug/Kg	1	09/11/2012 13:46
Diisopropyl Ether	ND		5.33	ug/Kg	1	09/11/2012 13:46
Ethyl Benzene	ND		5.33	ug/Kg	1	09/11/2012 13:46
Hexachlorobutadiene	ND		5.33	ug/Kg	1	09/11/2012 13:46
Isopropylbenzene (Cumene)	ND		5.33	ug/Kg	1	09/11/2012 13:46
Methyl iodide	ND		5.33	ug/Kg	1	09/11/2012 13:46
Methylene chloride	ND		21.3	ug/Kg	1	09/11/2012 13:46
Naphthalene	ND		5.33	ug/Kg	1	09/11/2012 13:46
Styrene	ND		5.33	ug/Kg	1	09/11/2012 13:46
Tetrachloroethene	ND		5.33	ug/Kg	1	09/11/2012 13:46
Toluene	ND		5.33	ug/Kg	1	09/11/2012 13:46
Trichloroethene	ND		5.33	ug/Kg	1	09/11/2012 13:46
Trichlorofluoromethane	ND		5.33	ug/Kg	1	09/11/2012 13:46
Vinyl chloride	ND		5.33	ug/Kg	1	09/11/2012 13:46
Xylene (total)	ND		10.7	ug/Kg	1	09/11/2012 13:46
cis-1,2-Dichloroethene	ND		5.33	ug/Kg	1	09/11/2012 13:46
m,p-Xylene	ND		10.7	ug/Kg	1	09/11/2012 13:46
n-Propylbenzene	ND		5.33	ug/Kg	1	09/11/2012 13:46
o-Xylene	ND		5.33	ug/Kg	1	09/11/2012 13:46
sec-Butylbenzene	ND		5.33	ug/Kg	1	09/11/2012 13:46
tert-Butyl methyl ether (MTBE)	ND		5.33	ug/Kg	1	09/11/2012 13:46
tert-Butylbenzene	ND		5.33	ug/Kg	1	09/11/2012 13:46
trans-1,2-Dichloroethene	ND		5.33	ug/Kg	1	09/11/2012 13:46
trans-1,4-Dichloro-2-butene	ND		26.7	ug/Kg	1	09/11/2012 13:46

Surrogates

1,2-Dichloroethane-d4	113	55.0-173	%	1	09/11/2012 13:46
4-Bromofluorobenzene	97.0	23.0-141	%	1	09/11/2012 13:46
Toluene d8	101	57.0-134	%	1	09/11/2012 13:46

Batch InformationAnalytical Batch: **VMS2542**Analytical Method: **SW-846 8260B**Instrument: **MSD9**Analyst: **DVO**Prep Batch: **VXX3976**Prep Method: **SW-846 5035 SL**Prep Date/Time: **09/11/2012 10:18**Prep Initial Wt./Vol.: **6.03 g**Prep Extract Vol: **5 mL**

Results of S-8

Client Sample ID: **S-8**Client Project ID: **70127335 U-3315 Parcel 81**

Lab Sample ID: 31202864001-E

Lab Project ID: 31202864

Collection Date: 09/06/2012 16:54

Received Date: 09/10/2012 14:45

Matrix: Soil-Solid as dry weight

Solids (%): 77.70

Results by SW-846 8270D

Parameter	Result	Qual	LOQ/CL	Units	DF	Date Analyzed
1,2,4-Trichlorobenzene	ND		379	ug/Kg	1	09/13/2012 22:59
1,2-Dichlorobenzene	ND		379	ug/Kg	1	09/13/2012 22:59
1,3-Dichlorobenzene	ND		379	ug/Kg	1	09/13/2012 22:59
1,4-Dichlorobenzene	ND		379	ug/Kg	1	09/13/2012 22:59
2,4,5-Trichlorophenol	ND		379	ug/Kg	1	09/13/2012 22:59
2,4,6-Trichlorophenol	ND		379	ug/Kg	1	09/13/2012 22:59
2,4-Dichlorophenol	ND		379	ug/Kg	1	09/13/2012 22:59
2,4-Dinitrophenol	ND		1890	ug/Kg	1	09/13/2012 22:59
2,4-Dinitrotoluene	ND		379	ug/Kg	1	09/13/2012 22:59
2,6-Dinitrotoluene	ND		379	ug/Kg	1	09/13/2012 22:59
2-Chloronaphthalene	ND		379	ug/Kg	1	09/13/2012 22:59
2-Chlorophenol	ND		379	ug/Kg	1	09/13/2012 22:59
2-Methylnaphthalene	ND		379	ug/Kg	1	09/13/2012 22:59
2-Methylphenol	ND		379	ug/Kg	1	09/13/2012 22:59
2-Nitroaniline	ND		379	ug/Kg	1	09/13/2012 22:59
2-Nitrophenol	ND		379	ug/Kg	1	09/13/2012 22:59
3 and/or 4-Methylphenol	ND		379	ug/Kg	1	09/13/2012 22:59
3,3'-Dichlorobenzidine	ND		758	ug/Kg	1	09/13/2012 22:59
3-Nitroaniline	ND		1890	ug/Kg	1	09/13/2012 22:59
4,6-Dinitro-2-methylphenol	ND		1890	ug/Kg	1	09/13/2012 22:59
4-Chloro-3-methylphenol	ND		379	ug/Kg	1	09/13/2012 22:59
4-Chloroaniline	ND		379	ug/Kg	1	09/13/2012 22:59
4-Chlorophenyl phenyl ether	ND		379	ug/Kg	1	09/13/2012 22:59
Acenaphthene	ND		379	ug/Kg	1	09/13/2012 22:59
Acenaphthylene	ND		379	ug/Kg	1	09/13/2012 22:59
Anthracene	ND		379	ug/Kg	1	09/13/2012 22:59
Benzo(a)anthracene	ND		379	ug/Kg	1	09/13/2012 22:59
Benzo(a)pyrene	ND		379	ug/Kg	1	09/13/2012 22:59
Benzo(b)fluoranthene	ND		379	ug/Kg	1	09/13/2012 22:59
Benzo(g,h,i)perylene	ND		379	ug/Kg	1	09/13/2012 22:59
Benzo(k)fluoranthene	ND		379	ug/Kg	1	09/13/2012 22:59
Benzoic acid	ND		1890	ug/Kg	1	09/13/2012 22:59
Bis(2-Chloroethoxy)methane	ND		379	ug/Kg	1	09/13/2012 22:59
Bis(2-Chloroethyl)ether	ND		379	ug/Kg	1	09/13/2012 22:59
Bis(2-Chloroisopropyl)ether	ND		379	ug/Kg	1	09/13/2012 22:59
Bis(2-Ethylhexyl)phthalate	ND		379	ug/Kg	1	09/13/2012 22:59
4-Bromophenyl phenyl ether	ND		379	ug/Kg	1	09/13/2012 22:59
Butyl benzyl phthalate	ND		379	ug/Kg	1	09/13/2012 22:59
Chrysene	ND		379	ug/Kg	1	09/13/2012 22:59
Di-n-butyl phthalate	ND		379	ug/Kg	1	09/13/2012 22:59
Di-n-octyl phthalate	ND		379	ug/Kg	1	09/13/2012 22:59
Dibenz(a,h)anthracene	ND		379	ug/Kg	1	09/13/2012 22:59
Dibenzofuran	ND		379	ug/Kg	1	09/13/2012 22:59

Print Date: 09/17/2012

N.C. Certification # 481

Results of S-8

Client Sample ID: **S-8**
 Client Project ID: **70127335 U-3315 Parcel 81**
 Lab Sample ID: 31202864001-E
 Lab Project ID: 31202864

Collection Date: 09/06/2012 16:54
 Received Date: 09/10/2012 14:45
 Matrix: Soil-Solid as dry weight
 Solids (%): 77.70

Results by SW-846 8270D

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Diethyl phthalate	ND		379	ug/Kg	1	09/13/2012 22:59
Dimethyl phthalate	ND		379	ug/Kg	1	09/13/2012 22:59
2,4-Dimethylphenol	ND		379	ug/Kg	1	09/13/2012 22:59
Diphenylamine	ND		379	ug/Kg	1	09/13/2012 22:59
Fluoranthene	ND		379	ug/Kg	1	09/13/2012 22:59
Fluorene	ND		379	ug/Kg	1	09/13/2012 22:59
Hexachlorobenzene	ND		1890	ug/Kg	1	09/13/2012 22:59
Hexachlorobutadiene	ND		379	ug/Kg	1	09/13/2012 22:59
Hexachlorocyclopentadiene	ND		758	ug/Kg	1	09/13/2012 22:59
Hexachloroethane	ND		379	ug/Kg	1	09/13/2012 22:59
Indeno(1,2,3-cd)pyrene	ND		379	ug/Kg	1	09/13/2012 22:59
Isophorone	ND		379	ug/Kg	1	09/13/2012 22:59
Naphthalene	ND		379	ug/Kg	1	09/13/2012 22:59
4-Nitroaniline	ND		1890	ug/Kg	1	09/13/2012 22:59
Nitrobenzene	ND		379	ug/Kg	1	09/13/2012 22:59
4-Nitrophenol	ND		1890	ug/Kg	1	09/13/2012 22:59
Pentachlorophenol	ND		1890	ug/Kg	1	09/13/2012 22:59
Phenanthrene	ND		379	ug/Kg	1	09/13/2012 22:59
Phenol	ND		379	ug/Kg	1	09/13/2012 22:59
Pyrene	ND		379	ug/Kg	1	09/13/2012 22:59
n-Nitrosodi-n-propylamine	ND		379	ug/Kg	1	09/13/2012 22:59

Surrogates

2,4,6-Tribromophenol	67.0	41.0-129	%	1	09/13/2012 22:59
2-Fluorobiphenyl	72.0	48.0-123	%	1	09/13/2012 22:59
2-Fluorophenol	72.0	42.0-123	%	1	09/13/2012 22:59
Nitrobenzene-d5	80.0	46.0-117	%	1	09/13/2012 22:59
Phenol-d6	82.0	48.0-125	%	1	09/13/2012 22:59
Terphenyl-d14	80.0	44.0-140	%	1	09/13/2012 22:59

Batch Information

Analytical Batch: **XMS1663**
 Analytical Method: **SW-846 8270D**
 Instrument: **MSD10**
 Analyst: **CMP**

Prep Batch: **XXX3037**
 Prep Method: **SW-846 3541**
 Prep Date/Time: **09/12/2012 15:32**
 Prep Initial Wt./Vol.: **34.01 g**
 Prep Extract Vol: **10 mL**

Results of S-9

Client Sample ID: **S-9**Client Project ID: **70127335 U-3315 Parcel 81**

Lab Sample ID: 31202864002-A

Lab Project ID: 31202864

Collection Date: 09/07/2012 10:15

Received Date: 09/10/2012 14:45

Matrix: Soil-Solid as dry weight

Solids (%): 82.00

Results by SW-846 8260B

Parameter	Result	Qual	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND		4.72	ug/Kg	1	09/11/2012 14:13
1,1,1-Trichloroethane	ND		4.72	ug/Kg	1	09/11/2012 14:13
1,1,2,2-Tetrachloroethane	ND		4.72	ug/Kg	1	09/11/2012 14:13
1,1,2-Trichloroethane	ND		4.72	ug/Kg	1	09/11/2012 14:13
1,1-Dichloroethane	ND		4.72	ug/Kg	1	09/11/2012 14:13
1,1-Dichloroethene	ND		4.72	ug/Kg	1	09/11/2012 14:13
1,1-Dichloropropene	ND		4.72	ug/Kg	1	09/11/2012 14:13
1,2,3-Trichlorobenzene	ND		4.72	ug/Kg	1	09/11/2012 14:13
1,2,3-Trichloropropane	ND		4.72	ug/Kg	1	09/11/2012 14:13
1,2,4-Trichlorobenzene	ND		4.72	ug/Kg	1	09/11/2012 14:13
1,2,4-Trimethylbenzene	ND		4.72	ug/Kg	1	09/11/2012 14:13
1,2-Dibromo-3-chloropropane	ND		28.3	ug/Kg	1	09/11/2012 14:13
1,2-Dibromoethane	ND		4.72	ug/Kg	1	09/11/2012 14:13
1,2-Dichlorobenzene	ND		4.72	ug/Kg	1	09/11/2012 14:13
1,2-Dichloroethane	ND		4.72	ug/Kg	1	09/11/2012 14:13
1,2-Dichloropropane	ND		4.72	ug/Kg	1	09/11/2012 14:13
1,3,5-Trimethylbenzene	ND		4.72	ug/Kg	1	09/11/2012 14:13
1,3-Dichlorobenzene	ND		4.72	ug/Kg	1	09/11/2012 14:13
1,3-Dichloropropane	ND		4.72	ug/Kg	1	09/11/2012 14:13
1,4-Dichlorobenzene	ND		4.72	ug/Kg	1	09/11/2012 14:13
2,2-Dichloropropane	ND		4.72	ug/Kg	1	09/11/2012 14:13
2-Butanone	ND		23.6	ug/Kg	1	09/11/2012 14:13
2-Chlorotoluene	ND		4.72	ug/Kg	1	09/11/2012 14:13
2-Hexanone	ND		11.8	ug/Kg	1	09/11/2012 14:13
4-Chlorotoluene	ND		4.72	ug/Kg	1	09/11/2012 14:13
4-Isopropyltoluene	ND		4.72	ug/Kg	1	09/11/2012 14:13
4-Methyl-2-pentanone	ND		11.8	ug/Kg	1	09/11/2012 14:13
Acetone	ND		47.2	ug/Kg	1	09/11/2012 14:13
Benzene	ND		4.72	ug/Kg	1	09/11/2012 14:13
Bromobenzene	ND		4.72	ug/Kg	1	09/11/2012 14:13
Bromochloromethane	ND		4.72	ug/Kg	1	09/11/2012 14:13
Bromodichloromethane	ND		4.72	ug/Kg	1	09/11/2012 14:13
Bromoform	ND		4.72	ug/Kg	1	09/11/2012 14:13
Bromomethane	ND		4.72	ug/Kg	1	09/11/2012 14:13
n-Butylbenzene	ND		4.72	ug/Kg	1	09/11/2012 14:13
Carbon disulfide	ND		4.72	ug/Kg	1	09/11/2012 14:13
Carbon tetrachloride	ND		4.72	ug/Kg	1	09/11/2012 14:13
Chlorobenzene	ND		4.72	ug/Kg	1	09/11/2012 14:13
Chloroethane	ND		4.72	ug/Kg	1	09/11/2012 14:13
Chloroform	ND		4.72	ug/Kg	1	09/11/2012 14:13
Chloromethane	ND		4.72	ug/Kg	1	09/11/2012 14:13
Dibromochloromethane	ND		4.72	ug/Kg	1	09/11/2012 14:13
Dibromomethane	ND		4.72	ug/Kg	1	09/11/2012 14:13

Print Date: 09/17/2012

N.C. Certification # 481

Results of S-9

Client Sample ID: **S-9**
 Client Project ID: **70127335 U-3315 Parcel 81**
 Lab Sample ID: 31202864002-A
 Lab Project ID: 31202864

Collection Date: 09/07/2012 10:15
 Received Date: 09/10/2012 14:45
 Matrix: Soil-Solid as dry weight
 Solids (%): 82.00

Results by SW-846 8260B

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Dichlorodifluoromethane	ND		4.72	ug/Kg	1	09/11/2012 14:13
cis-1,3-Dichloropropene	ND		4.72	ug/Kg	1	09/11/2012 14:13
trans-1,3-Dichloropropene	ND		4.72	ug/Kg	1	09/11/2012 14:13
Diisopropyl Ether	ND		4.72	ug/Kg	1	09/11/2012 14:13
Ethyl Benzene	ND		4.72	ug/Kg	1	09/11/2012 14:13
Hexachlorobutadiene	ND		4.72	ug/Kg	1	09/11/2012 14:13
Isopropylbenzene (Cumene)	ND		4.72	ug/Kg	1	09/11/2012 14:13
Methyl iodide	ND		4.72	ug/Kg	1	09/11/2012 14:13
Methylene chloride	ND		18.9	ug/Kg	1	09/11/2012 14:13
Naphthalene	ND		4.72	ug/Kg	1	09/11/2012 14:13
Styrene	ND		4.72	ug/Kg	1	09/11/2012 14:13
Tetrachloroethene	ND		4.72	ug/Kg	1	09/11/2012 14:13
Toluene	ND		4.72	ug/Kg	1	09/11/2012 14:13
Trichloroethene	ND		4.72	ug/Kg	1	09/11/2012 14:13
Trichlorofluoromethane	ND		4.72	ug/Kg	1	09/11/2012 14:13
Vinyl chloride	ND		4.72	ug/Kg	1	09/11/2012 14:13
Xylene (total)	ND		9.44	ug/Kg	1	09/11/2012 14:13
cis-1,2-Dichloroethene	ND		4.72	ug/Kg	1	09/11/2012 14:13
m,p-Xylene	ND		9.44	ug/Kg	1	09/11/2012 14:13
n-Propylbenzene	ND		4.72	ug/Kg	1	09/11/2012 14:13
o-Xylene	ND		4.72	ug/Kg	1	09/11/2012 14:13
sec-Butylbenzene	ND		4.72	ug/Kg	1	09/11/2012 14:13
tert-Butyl methyl ether (MTBE)	ND		4.72	ug/Kg	1	09/11/2012 14:13
tert-Butylbenzene	ND		4.72	ug/Kg	1	09/11/2012 14:13
trans-1,2-Dichloroethene	ND		4.72	ug/Kg	1	09/11/2012 14:13
trans-1,4-Dichloro-2-butene	ND		23.6	ug/Kg	1	09/11/2012 14:13

Surrogates

1,2-Dichloroethane-d4	108	55.0-173	%	1	09/11/2012 14:13
4-Bromofluorobenzene	97.0	23.0-141	%	1	09/11/2012 14:13
Toluene d8	102	57.0-134	%	1	09/11/2012 14:13

Batch InformationAnalytical Batch: **VMS2542**Analytical Method: **SW-846 8260B**Instrument: **MSD9**Analyst: **DVO**Prep Batch: **VXX3976**Prep Method: **SW-846 5035 SL**Prep Date/Time: **09/11/2012 10:21**Prep Initial Wt./Vol.: **6.46 g**Prep Extract Vol: **5 mL**

Results of S-9Client Sample ID: **S-9**Client Project ID: **70127335 U-3315 Parcel 81**

Lab Sample ID: 31202864002-E

Lab Project ID: 31202864

Collection Date: 09/07/2012 10:15

Received Date: 09/10/2012 14:45

Matrix: Soil-Solid as dry weight

Solids (%): 82.00

Results by SW-846 8270D

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
1,2,4-Trichlorobenzene	ND		366	ug/Kg	1	09/13/2012 23:22
1,2-Dichlorobenzene	ND		366	ug/Kg	1	09/13/2012 23:22
1,3-Dichlorobenzene	ND		366	ug/Kg	1	09/13/2012 23:22
1,4-Dichlorobenzene	ND		366	ug/Kg	1	09/13/2012 23:22
2,4,5-Trichlorophenol	ND		366	ug/Kg	1	09/13/2012 23:22
2,4,6-Trichlorophenol	ND		366	ug/Kg	1	09/13/2012 23:22
2,4-Dichlorophenol	ND		366	ug/Kg	1	09/13/2012 23:22
2,4-Dinitrophenol	ND		1830	ug/Kg	1	09/13/2012 23:22
2,4-Dinitrotoluene	ND		366	ug/Kg	1	09/13/2012 23:22
2,6-Dinitrotoluene	ND		366	ug/Kg	1	09/13/2012 23:22
2-Chloronaphthalene	ND		366	ug/Kg	1	09/13/2012 23:22
2-Chlorophenol	ND		366	ug/Kg	1	09/13/2012 23:22
2-Methylnaphthalene	ND		366	ug/Kg	1	09/13/2012 23:22
2-Methylphenol	ND		366	ug/Kg	1	09/13/2012 23:22
2-Nitroaniline	ND		366	ug/Kg	1	09/13/2012 23:22
2-Nitrophenol	ND		366	ug/Kg	1	09/13/2012 23:22
3 and/or 4-Methylphenol	ND		366	ug/Kg	1	09/13/2012 23:22
3,3'-Dichlorobenzidine	ND		732	ug/Kg	1	09/13/2012 23:22
3-Nitroaniline	ND		1830	ug/Kg	1	09/13/2012 23:22
4,6-Dinitro-2-methylphenol	ND		1830	ug/Kg	1	09/13/2012 23:22
4-Chloro-3-methylphenol	ND		366	ug/Kg	1	09/13/2012 23:22
4-Chloroaniline	ND		366	ug/Kg	1	09/13/2012 23:22
4-Chlorophenyl phenyl ether	ND		366	ug/Kg	1	09/13/2012 23:22
Acenaphthene	ND		366	ug/Kg	1	09/13/2012 23:22
Acenaphthylene	ND		366	ug/Kg	1	09/13/2012 23:22
Anthracene	ND		366	ug/Kg	1	09/13/2012 23:22
Benzo(a)anthracene	ND		366	ug/Kg	1	09/13/2012 23:22
Benzo(a)pyrene	ND		366	ug/Kg	1	09/13/2012 23:22
Benzo(b)fluoranthene	ND		366	ug/Kg	1	09/13/2012 23:22
Benzo(g,h,i)perylene	ND		366	ug/Kg	1	09/13/2012 23:22
Benzo(k)fluoranthene	ND		366	ug/Kg	1	09/13/2012 23:22
Benzoic acid	ND		1830	ug/Kg	1	09/13/2012 23:22
Bis(2-Chloroethoxy)methane	ND		366	ug/Kg	1	09/13/2012 23:22
Bis(2-Chloroethyl)ether	ND		366	ug/Kg	1	09/13/2012 23:22
Bis(2-Chloroisopropyl)ether	ND		366	ug/Kg	1	09/13/2012 23:22
Bis(2-Ethylhexyl)phthalate	ND		366	ug/Kg	1	09/13/2012 23:22
4-Bromophenyl phenyl ether	ND		366	ug/Kg	1	09/13/2012 23:22
Butyl benzyl phthalate	ND		366	ug/Kg	1	09/13/2012 23:22
Chrysene	ND		366	ug/Kg	1	09/13/2012 23:22
Di-n-butyl phthalate	ND		366	ug/Kg	1	09/13/2012 23:22
Di-n-octyl phthalate	ND		366	ug/Kg	1	09/13/2012 23:22
Dibenz(a,h)anthracene	ND		366	ug/Kg	1	09/13/2012 23:22
Dibenzofuran	ND		366	ug/Kg	1	09/13/2012 23:22

Print Date: 09/17/2012

N.C. Certification # 481

Results of S-9

Client Sample ID: **S-9**
 Client Project ID: **70127335 U-3315 Parcel 81**
 Lab Sample ID: 31202864002-E
 Lab Project ID: 31202864

Collection Date: 09/07/2012 10:15
 Received Date: 09/10/2012 14:45
 Matrix: Soil-Solid as dry weight
 Solids (%): 82.00

Results by SW-846 8270D

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Diethyl phthalate	ND		366	ug/Kg	1	09/13/2012 23:22
Dimethyl phthalate	ND		366	ug/Kg	1	09/13/2012 23:22
2,4-Dimethylphenol	ND		366	ug/Kg	1	09/13/2012 23:22
Diphenylamine	ND		366	ug/Kg	1	09/13/2012 23:22
Fluoranthene	ND		366	ug/Kg	1	09/13/2012 23:22
Fluorene	ND		366	ug/Kg	1	09/13/2012 23:22
Hexachlorobenzene	ND		1830	ug/Kg	1	09/13/2012 23:22
Hexachlorobutadiene	ND		366	ug/Kg	1	09/13/2012 23:22
Hexachlorocyclopentadiene	ND		732	ug/Kg	1	09/13/2012 23:22
Hexachloroethane	ND		366	ug/Kg	1	09/13/2012 23:22
Indeno(1,2,3-cd)pyrene	ND		366	ug/Kg	1	09/13/2012 23:22
Isophorone	ND		366	ug/Kg	1	09/13/2012 23:22
Naphthalene	ND		366	ug/Kg	1	09/13/2012 23:22
4-Nitroaniline	ND		1830	ug/Kg	1	09/13/2012 23:22
Nitrobenzene	ND		366	ug/Kg	1	09/13/2012 23:22
4-Nitrophenol	ND		1830	ug/Kg	1	09/13/2012 23:22
Pentachlorophenol	ND		1830	ug/Kg	1	09/13/2012 23:22
Phenanthrene	ND		366	ug/Kg	1	09/13/2012 23:22
Phenol	ND		366	ug/Kg	1	09/13/2012 23:22
Pyrene	ND		366	ug/Kg	1	09/13/2012 23:22
n-Nitrosodi-n-propylamine	ND		366	ug/Kg	1	09/13/2012 23:22

Surrogates

2,4,6-Tribromophenol	68.0	41.0-129	%	1	09/13/2012 23:22
2-Fluorobiphenyl	77.0	48.0-123	%	1	09/13/2012 23:22
2-Fluorophenol	77.0	42.0-123	%	1	09/13/2012 23:22
Nitrobenzene-d5	88.0	46.0-117	%	1	09/13/2012 23:22
Phenol-d6	87.0	48.0-125	%	1	09/13/2012 23:22
Terphenyl-d14	82.0	44.0-140	%	1	09/13/2012 23:22

Batch Information

Analytical Batch: **XMS1663**
 Analytical Method: **SW-846 8270D**
 Instrument: **MSD10**
 Analyst: **CMP**

Prep Batch: **XXX3037**
 Prep Method: **SW-846 3541**
 Prep Date/Time: **09/12/2012 15:32**
 Prep Initial Wt./Vol.: **33.39 g**
 Prep Extract Vol: **10 mL**



CHAIN OF CUSTODY RECORD
SGS North America Inc.

Locations Nationwide

- Alaska
- New Jersey
- North Carolina
- Maryland
- New York
- Ohio

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104630

□ 200 W. Potter Drive Anchorage, AK 99518 Tel: (907) 562-2343 Fax: (907) 561-5301
□ 5500 Business Drive Wilmington, NC 28405 Tel: (910) 350-1903 Fax: (910) 350-1557

White - Retained by Lab
Pink - Retained by Client

SGS North America Inc.

Sample Receipt Checklist (SRC)

Client: NCDOT-Terracon Work Order No.: 31202864

1. Shipped Notes: _____
 Hand Delivered _____
2. COC Present on Receipt _____
 No COC _____
 Additional Transmittal Forms _____
3. Custody Tape on Container _____
 No Custody Tape _____
4. Samples Intact _____
 Samples Broken / Leaking _____
5. Chilled on Receipt Actual Temp.(s) in °C: 0.2
 Ambient on Receipt _____
 Walk-in on Ice; Coming down to temp. _____
 Received Outside of Temperature Specifications _____
6. Sufficient Sample Submitted _____
 Insufficient Sample Submitted _____
7. Chlorine absent _____
 HNO₃ < 2 _____
 HCL < 2 _____
 Additional Preservatives verified (see notes) _____
8. Received Within Holding Time _____
 Not Received Within Holding Time _____
9. No Discrepancies Noted _____
 Discrepancies Noted _____
 NCDENR notified of Discrepancies* _____
10. No Headspace present in VOC vials _____
 Headspace present in VOC vials >6mm _____

Comments: _____

Inspected and Logged in by: JJ

Date: Mon-9/10/12 00:00