Initial Abatement Action Report
Page Distributing Company, Inc. Property
Parcel 169
Cumberland County
Fayetteville, North Carolina

H&H Job No. ROW-312
State Project U-2810C
WBS Element: 34866.3.3

May 2, 2011

Hart & Hickman

2923 South Tryon Street
Suite 100
Charlotte, NC 28203
704-586-0007

3334 Hillsborough Street
Raleigh, NC 27607
919-847-4241

#C-1269 Engineering
#C-245 Geology

Initial Abatement Action Report

A. Site Information

1. Site Identification

Date of Report: May 2, 2011
Facility ID: N/A UST Incident Number: N/A
Site Name: Page Distributing Company Inc. Property - Parcel 169
Site Street Address: 2612 Camden Road
City, Town: Fayetteville Zip Code: 28306 County: Cumberland
Description of Geographical Data Point: Center of property
Location Method: Google Earth
Latitude: 35.017382 Longitude: 78.907696

2. Information about Contacts Associated with the Leaking UST System

UST Owner: Page Distributing Company, Inc.
Address: P.O. Box 15047, Winston-Salem, NC 27113 Tel.: (910) 723-9982
UST Operator: Page Distributing Company, Inc.
Address: P.O. Box 15047, Winston-Salem, NC 27113 Tel.: (910) 723-9982
Property Owner: Page Distributing Company, Inc.
Address: P.O. Box 15047, Winston-Salem, NC 27113 Tel.: (910) 723-9982
Property Occupant Jason's Auto Sales
Address: 2612 Camden Road, Fayetteville, NC 28306 Tel.:(910) 486-4300
Consultant/Contractor: Hart & Hickman, PC
Address: 2923 South Tryon Street, Suite 100, Charlotte, NC 28203
Tel.: 704-586-0007
Analytical Laboratory: SGS North America, Inc. State Cert. No. 481
Address: 5500 Business Dr, Wilmington, NC 28405 Tel.: (910) 350-1903

3. Information About Release

Date Discovered: December 19, 2008
Estimated Quantity of Release: unknown
Cause of Release: unknown
Source of Release: One 1,000-gallon heating oil UST
Sizes and contents of UST system: One 1,000-gallon UST (heating oil)

4. Certification

I, Matt Bramblett, PE, a Professional Engineer for Hart & Hickman, PC, do certify that the information contained in this report is correct and accurate to the best of my knowledge.

NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER SEAL 25069 MATTHEW V. BRAMBLETT 5/2/11

Hart & Hickman, PC is licensed to practice geology/engineering in North Carolina. The certification numbers of the company are C-245/C-1269.

B. Site History and Characterization

1. UST Owner and Operator Information:

UST ID Number	N/A	**Facility ID Number**	N/A
Name of Owner		**Dates of Ownership**	
Page Distributing Company, Inc.		unknown	
Street Address			
P.O. Box 15047			
City	**State**	**Zip**	**Telephone Number**
Winston-Salem	NC	27113	(910) 723-9982
Name of Operator		**Dates of Operation**	
Page Distributing Company, Inc.		unknown	
Street Address			
P.O. Box 15047			
City	**State**	**Zip**	**Telephone Number**
Winston-Salem	NC	27113	(910) 723-9982

2. UST/AST Information:

UST ID Number	Current/Last Contents	Previous Contents	Capacity (gallons)	Construction Details	Tank Dimensions	Description of Associated Piping and Pumps	Date Tank Installed	Status of UST	Was release associated with the UST System?
Tank-1	Heating Oil	Heating Oil	1,000	Steel/single-walled	4 ft X 10.5ft	6 ft of piping removed	Unknown	Removed 2/18/11	Yes, Confirmed

AST ID Number	Current/Last Contents	Previous Contents	Capacity (gallons)	Construction Details	Tank Dimensions	Description of Associated Piping and Pumps	Date Tank Installed	Status of AST	Was release associated with the AST System?
None									

3. **Non-UST spills at the site:**
   There are no non-UST spills known to be associated with the Page Distributing Company, Inc property (Parcel 169).

4. **Description of release:**
   The North Carolina Department of Transportation (NC DOT) is conducting road improvements activities near the intersection of Camden Road and Owen Drive near the subject site. A site location map is presented as Figure 1 and a site map is presented as Figure 2. In December 2008, Hart & Hickman (H&H) conducted Preliminary Site Assessment (PSA) activities at the site on behalf of NC DOT. One potential UST was identified during a ground penetrating radar (GPR) survey conducted at the site as part of the PSA. The potential UST was identified in the NC DOT proposed right of way near an old building foundation in the northeastern portion of the subject site.

   During PSA activities, H&H collected ten soil samples from ten soil borings (169-1 through 169-10) advanced in the NC DOT proposed right of way near the potential UST and at typical gas station source locations. The soil samples were analyzed for total petroleum hydrocarbons (TPH) as gasoline-range organics (GRO) and diesel-range organics (DRO) by EPA Method 8015B. Concentrations of TPH DRO (13.4 mg/kg and 32.9 mg/kg) above the North Carolina Department of Environment and Natural Resources (DENR) Action Level (10 mg/kg) were detected in soil samples 169-2 (0 to 2 ft) and 169-5 (2 ft to 4 ft) collected near the potential UST and near a potential dispenser island, respectively. A summary of analytical results included in Table 1 from the PSA report is included in Appendix A. The PSA analytical results are also depicted on Figure 3.

   NC DOT contracted H&H to remove the potential UST and impacted soils identified during PSA activities. On February 18, 2011, H&H mobilized to the site to conduct impacted soil excavation and potential UST removal activities. H&H contracted EVO Corporation (EVO) of Winston-Salem, North Carolina to perform the excavation activities. One approximate 1,000-gallon heating oil UST and associated piping were identified adjacent to the old building foundation in the northeastern portion of the property. After UST removal, soil samples were collected under the UST and associated piping and submitted for laboratory analysis of TPH DRO and GRO using EPA Method 8015B. Based on photoionization detector (PID) readings, there were no indications of impacts in the UST excavation.

   Based on laboratory analytical results of soil sample 169-2 collected during PSA activities near the northeastern end of the UST, impacted soil, including soil beneath the product piping area, was removed from the northeastern end of the UST excavation. Confirmation soil samples SW-1, SW-2, SW-3, SW-4, and Base-1 were collected from the sidewalls and base of the excavation, respectively. In addition, impacted soil near boring 169-5 was excavated and removed from the potential dispenser island area. Confirmation samples EX-1, EX-2, EX-3, EX-4, and EX-Base were collected from the sidewalls and base of the excavation, respectively. Approximately 13 tons of impacted

soil was excavated and manifested for off-site transport and disposal at EVO's treatment and disposal facility.

A release was confirmed from the UST excavation piping area on March 17, 2011 upon receipt of laboratory analytical data. A concentration of TPH-DRO (2,320 mg/kg) was detected in closure soil sample T1-L1 collected beneath the piping above the DENR Action Level (10 mg/kg). As mentioned above, soil was removed from this area during excavation activities. No concentrations of target petroleum constituents were detected above the DENR Soil-to-Groundwater and Residential Maximum Soil Contaminant Concentrations (MSCCs) in confirmation soil samples collected in the UST excavation and the excavation near the potential dispenser island.

Site characteristics:

The Page Distributing Company, Inc. property (Parcel 169) is currently an auto sales and maintenance shop. According to information provided by NC DOT, the site may have previously operated as a gas station at some time in the past. The site is located in a commercial and residential area in Fayetteville, North Carolina (Figure 1).

The site is located at an approximate elevation of 200 ft above mean sea level. Topography at the site is generally flat. Based on topography in the area, H&H anticipates that the groundwater flow direction at the site is to the northeast.

Visual observations during excavation activities indicated that the soil in the area of the excavations consists of brown and tan silty sand to a depth of approximately 7 ft below ground surface (bgs). No groundwater or bedrock was encountered during the UST removal activities.

The subject property is located in the Inner Costal Plain Physiographic Province of North Carolina. According to the *Geologic Map of North Carolina* dated 1985, the subject property lies within the Black Creek Formation. In the site area, soils consist of fine grained micaceous sand with thick lenses of cross bedded sand and fossiliferous clayey sand lenses in the upper part.

A water supply well survey was not conducted at the site. No surface waters were identified on the site property.

5. Initial abatement actions, assessment activities, and corrective actions performed to date:

As mentioned above, H&H conducted PSA activities at the site in December 2008 on behalf of the NC DOT. With the exception of the initial abatement actions discussed in Section D below, no other known assessment or corrective actions have been conducted at the site.

C. Site Check Report

A site check report is not required for this site.

D. UST Closure Report following UST-12 format and Site Investigation Report for Permanent Closure or Change-in-Service of UST (UST-2 Form)

1. Preparations for closure including the steps taken to notify authorities, permits obtained and the steps taken to clean and purge the tanks:

As mentioned above, one potential UST was previously identified at the subject site by GPR survey. The product in the potential UST was unknown prior to the UST removal. On February 18, 2011, EVO mobilized to the site to conduct an exploratory excavation and remove the potential UST. One approximate 1,000-gallon heating oil UST (and associated piping) was identified in the excavation in the NC DOT proposed right of way near an old building foundation in the northeastern portion of the site. Prior to closure activities, H&H submitted a Notice of Intent: UST Permanent Closure or Change in Service form (UST-3 form) to the DENR – Raleigh Central Office and Fayetteville Regional Office on February 3, 2011 on behalf of the NC DOT. A copy of this form is provided in Appendix B. A Fire Department permit was submitted to the Fayetteville Fire Department and approved on February 8, 2011. A copy of the permit is included in Appendix C.

Approximately 140 gallons of residual liquids (heating oil) were pumped from the UST into a vacuum truck by EVO prior to UST removal. The certificate of disposal and non-hazardous materials manifest for removed residual liquids is included in Appendix D. Following removal of the residual liquids, a lower explosion level (LEL) meter was utilized to monitor for explosive atmospheres until readings within the tank were less than 10% of the LEL.

2. Closure procedures:

Initially, soil was removed from the top and sides of the UST with a mini-excavator so that the tank could be removed from the ground. Soils encountered during the excavation were evaluated in the field for the presence of odors, staining, and organic vapor readings as detected with a PID. The PID was calibrated prior to its use against an isobutylene standard.

Following removal, the UST was inspected for evidence of holes, pitting, and corrosion. The tank was constructed of steel and appeared to be in good condition with some minor pitting observed on the underside of the UST. A short length (approximately 6 ft) of piping was identified near the northeastern end of the UST that terminated near the concrete building foundation (see Figure 2).

After UST removal, closure soil samples were collected in accordance with the DENR UST Section *Guidelines for Site Checks, Tank Closure, and Initial Response and Abatement for UST Releases*, March 1, 2007 Version, Change 3, Effective December 1, 2008 (*Guidelines*).

After sampling and over excavation of impacted soil near the northern end of the UST and near a potential dispenser island where impacted soil was previously detected, the excavations were backfilled with clean soil from the 401 Sand Company in Raeford, North Carolina.

H&H submitted a Site Investigation Report for Permanent Closure or Change-in-Service of UST (UST-2 Form) to the DENR – Raleigh Central Office and Fayetteville Regional Office on May 2, 2011 on behalf of the NC DOT. A copy of this form is included in Appendix E.

No ground water was encountered during UST closure activities.

3. Note the amount of residual material pumped from the tank and describe the storage, sampling and disposal of the residual material and the disposal of the tank, pumps and piping:

As stated above, approximately 140 gallons of residual liquids (heating oil) were pumped from the UST into a vacuum truck by EVO prior to closure. The certificate of disposal and non-hazardous materials manifest for removed residual liquids is included in Appendix D. The steel UST was transported off-site by EVO to OmniSource Southeast in Winston-Salem, North Carolina for proper disposal and recycling. The Tank Disposal Certificate is included in Appendix F. No UST pump was encountered during the tank removal. The piping was also transported to OmniSource for proper disposal and recycling.

4. Initial response actions and initial abatement actions:
Initial abatement actions are discussed in the following section.

5. Soil excavation activities:
As mentioned above, a potential UST exploratory excavation and excavation of impacted soil was conducted in the NC DOT proposed right of way near an old building foundation and near a potential dispenser island in the northeastern portion of the site. One approximate 1,000-gallon heating oil UST (and associated piping) was identified and removed from the potential UST excavation. Impacted soil was also removed from the northeastern end of the UST excavation. In addition, impacted soil was also excavated and removed near a potential dispenser island located in the northeastern portion of the site. Approximately 13 tons of impacted soil were transported to EVO's facility in Winston-Salem, NC for treatment and disposal. Copies of the certificate of disposal, non-hazardous materials manifest, and certified weight ticket for the impacted soil are included in Appendix G. Visual observations indicated that the soil excavations consist of brown and tan silty sand to a depth of approximately 7 ft. The approximate extents of the identified UST and impacted soil excavations are shown on Figures 3 and 4.

Upon completion of excavation activities, the excavation areas were backfilled with clean imported fill and compacted in one foot lifts using the mini-excavator. At the direction of DOT, no geotechnical testing was conducted during backfilling of the excavations.

6. Site investigation:

Sample Collection

After removal of the 1,000-gallon heating oil UST, closure soil samples (T1-S1, T1-S2, and T1-L1) were collected in accordance with DENR UST Section *Guidelines* using the mini-excavator bucket. Soil samples T1-S1 and T1-S2 were collected beneath the UST and soil sample T1-L1 was collected beneath the associated piping and submitted for laboratory analysis of TPH DRO and GRO by EPA Method 8015B. The approximate locations of UST closure soil samples are depicted on Figure 3.

After tank removal and over excavation of impacted soil near the northeastern end of the UST (including beneath the piping area) and excavation of impacted soil near the potential dispenser island area, confirmation soil samples were collected in accordance with DENR UST Section *Guidelines*. Confirmation samples SW-1, SW-2, SW-3, SW-4, and Base-1 were collected from the sidewalls and base of the UST excavation and samples EX-1, EX-2, EX-3, EX-4, and EX-Base were collected from the sidewalls and base of the excavation near the potential dispenser island. Confirmation samples were analyzed for volatile organic compounds (VOCs) by EPA Method 8260, semi-VOCs (SVOCs) by EPA Method 8270, and volatile petroleum hydrocarbons (VPH) and extractable petroleum hydrocarbons (EPH) by Massachusetts Department of Environmental Protection (MADEP) methods. Post excavation confirmation sample locations are shown on Figure 4.

Soil samples were collected using the excavator bucket and a nitrile glove-covered hand. The soil samples were collected from the center of the excavator bucket from soil not in direct contact with the bucket. Each sample was placed into laboratory-supplied sample containers and then labeled as to content, analyses requested, sample date and time, and sampler's name. The samples were placed in a cooler with ice upon collection and submitted to SGS North America, Inc. of Wilmington, NC under chain-of-custody protocol.

Soil Sample Results

Target constituents were detected in soil samples collected at the site. A concentration of TPH DRO (2,320 mg/kg) was detected in closure soil sample T1-L1 collected beneath the UST piping. This concentration of TPH DRO is above the DENR Action Level (10 mg/kg).

Concentrations of C9-C12 aliphatics (up to 16.4 mg/kg) and C9-C10 aromatics (up to 14.5 mg/kg) were detected in confirmation soil samples SW-1, SW-2, SW-3, SW-4, and/or Base-1 collected from the UST excavation area. In addition, a concentration (26.1 mg/kg) of C19-C36 aliphatics was detected in soil sample Base-1 collected from the base of the UST excavation. Concentrations of C9-C12 aliphatics (8.03 mg/kg) and C9-C10

aromatics (5.35 mg/kg) were detected in confirmation soil sample EX-Base collected from the base of the excavation near the potential dispenser island. These concentrations are below the DENR Soil-to-Groundwater and Residential MSCCs. No other target petroleum constituents were detected above the MSCCs in soil samples collected from the sidewalls and base of the UST excavation and the excavation near the potential dispenser island.

Soil sample analytical results, analytical methods, and sample depths are summarized in Table 1. The laboratory analytical data report and chain-of-custody record are provided in Appendix H.

7. Conclusions and Recommendations:

Based on the post-excavation soil sample analytical data, no petroleum impacts above DENR MSCCs remain in the sidewalls and base of the former 1,000-gallon heating oil UST excavation or the excavation conducted near the potential dispenser island area.

E. Free Product Investigation and Recovery Report

Not Applicable

F. Groundwater and Surface Water Investigation

Not Applicable

G. Initial Response and Abatement Activities

See Section D.

H. Excavation of Contaminated Soil

See Section D.

I. Conclusions

As part of PSA activities conducted at the site in December 2008 on behalf of the NC DOT, one potential UST was identified via GPR survey in the northeastern portion of the property in proposed NC DOT work areas. Analytical results of soil samples collected at the site in December 2008 indicate that soils impacted with TPH DRO above DENR Action Level were located near the northeastern end of the potential UST and near a potential dispenser island also located in the northeastern portion of the property. One approximate 1,000-gallon heating oil UST (and associated piping) was identified in the potential UST location during a recent UST exploratory excavation conducted at the site.

On February 18, 2011, the 1,000 gallon heating oil UST and associated piping were removed from the site. Approximately 140 gallons of residual liquids (heating oil) were removed from the UST. Concentrations of TPH DRO were detected in the closure soil sample collected from beneath UST piping above DENR Action Levels. Approximately 13 tons of impacted soil were excavated from the northeastern end of the UST excavation area (including beneath the piping area) and near the potential dispenser island. Impacted soils were transported off-site for proper disposal. No target petroleum constituents above DENR MSCCs were detected in confirmation soil samples collected from the sidewalls and

base of the UST excavation and the excavation conducted near the potential dispenser island.

Tables

Figures

Appendices

Table 1
Summary of Soil Sampling Analytical Results
Page Distributing Company, Inc (Parcel 169)
Fayetteville, Cumberland County, North Carolina
H&H Job No. ROW-312

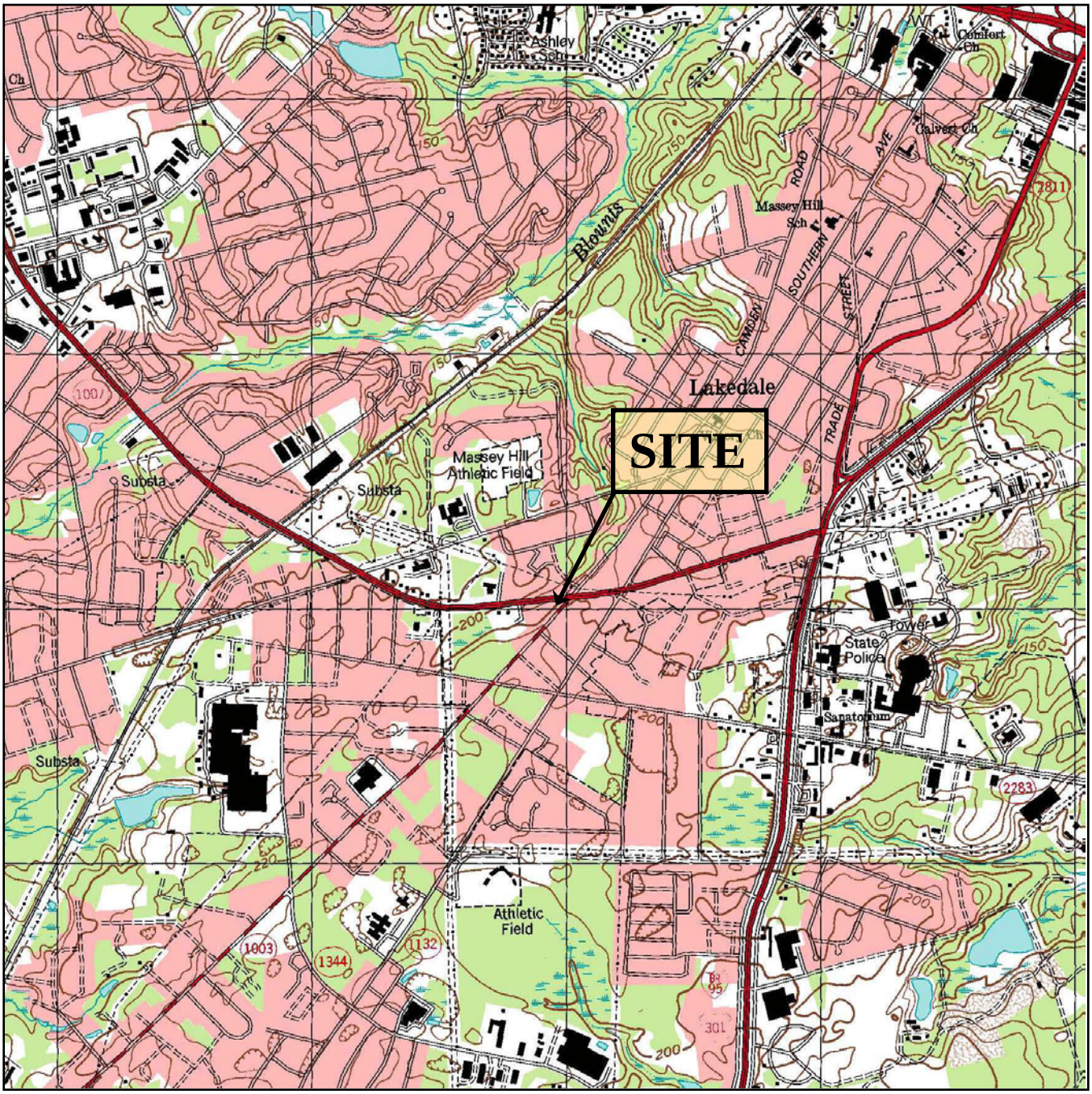
Analytical Method					TPH-GRO/DRO (8015C)		8260B	8270D	MADEP EPH & VPH							
Contaminant of Concern (mg/kg)					Diesel-Range Organics (DRO)	Gasoline-Range Organics (GRO)	All Compounds	All Compounds	VPH C5-C8 Aliphatics	VPH C9-C12 Aliphatics	EPH C9-C18 Aliphatics	Total C9-C18 Aliphatics	EPH C19-C36 Aliphatics	VPH C9-C10 Aromatics	EPH C11-C22 Aromatics	Total C9-C22 Aromatics
Sample ID	**Date Collected**	**Sample Area**	**Sample Depth (ft)**	**Incident Phase**												
T1-S1	02/18/11	Former UST	7.5	Closure	<6.69	<3.87	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
T1-S2	02/18/11	Former UST	7.5	Closure	<6.57	<3.97	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
T1-L1	02/18/11	Former Piping	2.5	Closure	**2,320**	<4.57	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW-1	02/18/11	Northwest Sidewall	5.0	IAA	NA	NA	BRL	BRL	<2.43	2.82	<5.01	2.82	<6.72	1.28	<14.0	1.28
SW-2	02/18/11	Northeast Sidewall	5.0	IAA	NA	NA	BRL	BRL	<2.45	16.4	<5.43	16.4	<7.27	14.5	<15.2	14.5
SW-3	02/18/11	Southeast Sidewall	5.0	IAA	NA	NA	BRL	BRL	<2.60	3.98	<5.49	3.98	<7.36	3.41	<15.4	3.41
SW-4	02/18/11	Southwest Sidewall	5.0	IAA	NA	NA	BRL	BRL	<2.47	2.30	<5.55	2.30	<7.44	0.958	<15.5	0.958
Base-1	02/18/11	Excavation Base	7.5	IAA	NA	NA	BRL	BRL	<2.40	<1.60	<4.69	<6.29	26.1	0.887	<13.1	0.887
EX-1	02/18/11	Northeast Sidewall	5.0	IAA	NA	NA	BRL	BRL	<5.29	<5.29	<5.31	<10.60	<7.11	<5.29	<14.9	<20.19
EX-2	02/18/11	Northwest Sidewall	5.0	IAA	NA	NA	BRL	BRL	<5.35	<5.35	<5.28	<10.63	<7.08	<5.35	<14.8	<20.15
EX-3	02/18/11	Southwest Sidewall	5.0	IAA	NA	NA	BRL	BRL	<5.18	<5.18	<5.11	<10.29	<6.84	<5.18	<14.3	<19.48
EX-4	02/18/11	Southeast Sidewall	5.0	IAA	NA	NA	BRL	BRL	<5.36	<5.36	<5.32	<10.68	<7.13	<5.36	<14.9	<20.26
EX-Base	02/18/11	Excavation Base	7.0	IAA	NA	NA	BRL	BRL	<2.53	8.03	<5.13	8.03	<6.87	5.35	<14.4	5.35
NC DENR Action Level (mg/kg)					10	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Soil-to-Ground Water MSCC (mg/kg)					N/A	N/A	Varies	Varies	72	NS	NS	3,300	Immobile	NS	NS	34
Residential MSCC (mg/kg)					N/A	N/A	Varies	Varies	939	NS	NS	9,386	93,860	NS	NS	469
Industrial/Commercial MSCC (mg/kg)					N/A	N/A	Varies	Varies	24,528	NS	NS	245,280	>100%	NS	NS	12,264

Notes:

Bold indicates concentration exceeds DENR Action Level or Soil-to-Ground Water Maximum Soil Contaminant Concentration (MSCC).

IAA = Initial Abatement Action; VPH = Volatile Petroleum Hydrocarbons; EPH = Extractable Petroleum Hydrocarbons;

NA = Not analyzed; N/A = Not Applicable; mg/kg = milligrams per kilogram; NS = Not Specified; BRL = Below Reporting Limit



U.S.G.S. QUADRANGLE MAP

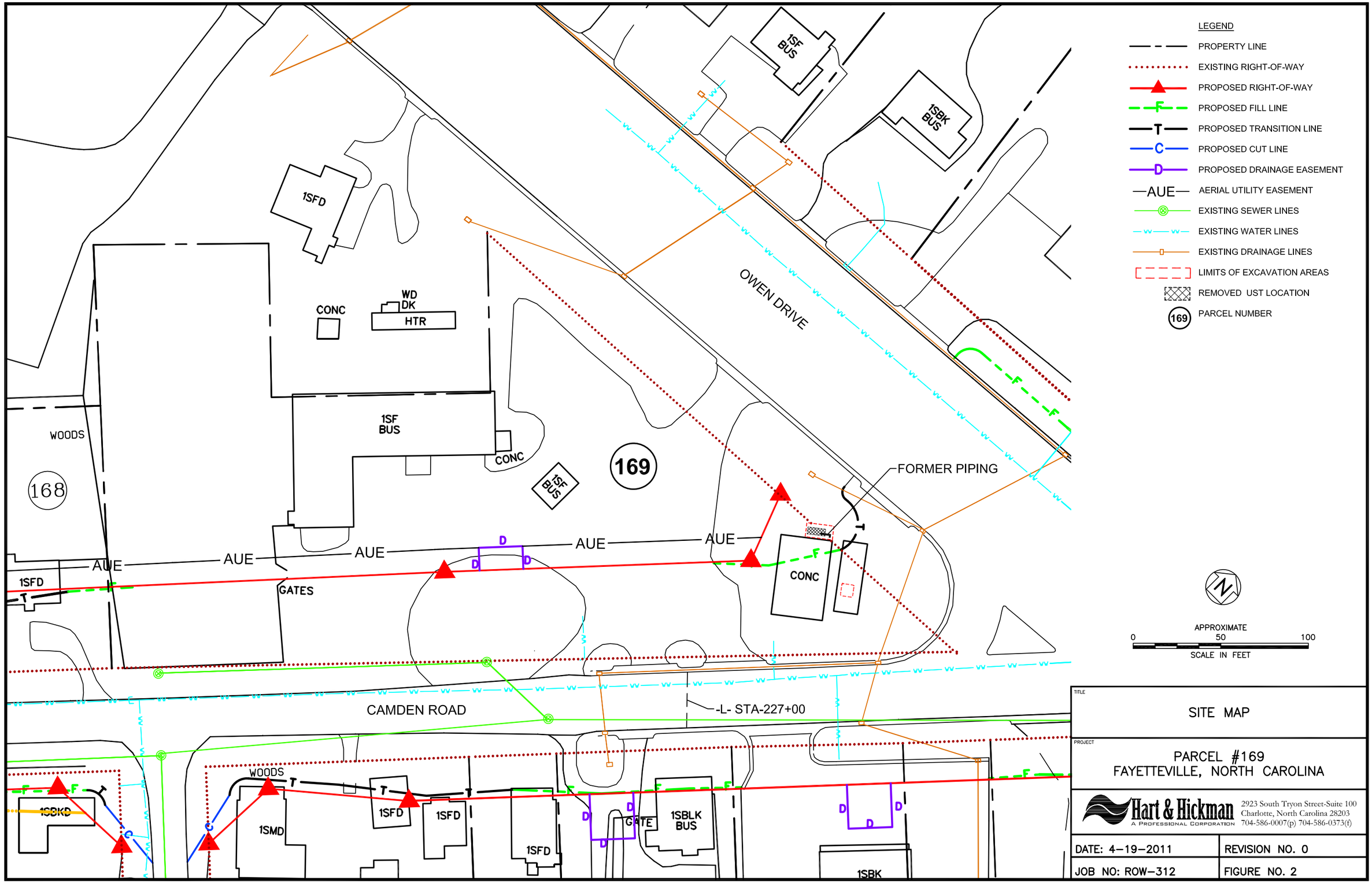
FAYETTEVILLE, NC 1997

QUADRANGLE
7.5 MINUTE SERIES (TOPOGRAPHIC)

TITLE	SITE LOCATION MAP
PROJECT	PARCEL 169 FAYETTEVILLE, NORTH CAROLINA

Hart & Hickman
A Professional Corporation
2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007 (p) 704-586-0373 (f)

DATE:	04-18-11	REVISION NO:	0
JOB NO:	ROW-312	FIGURE:	1



TITLE

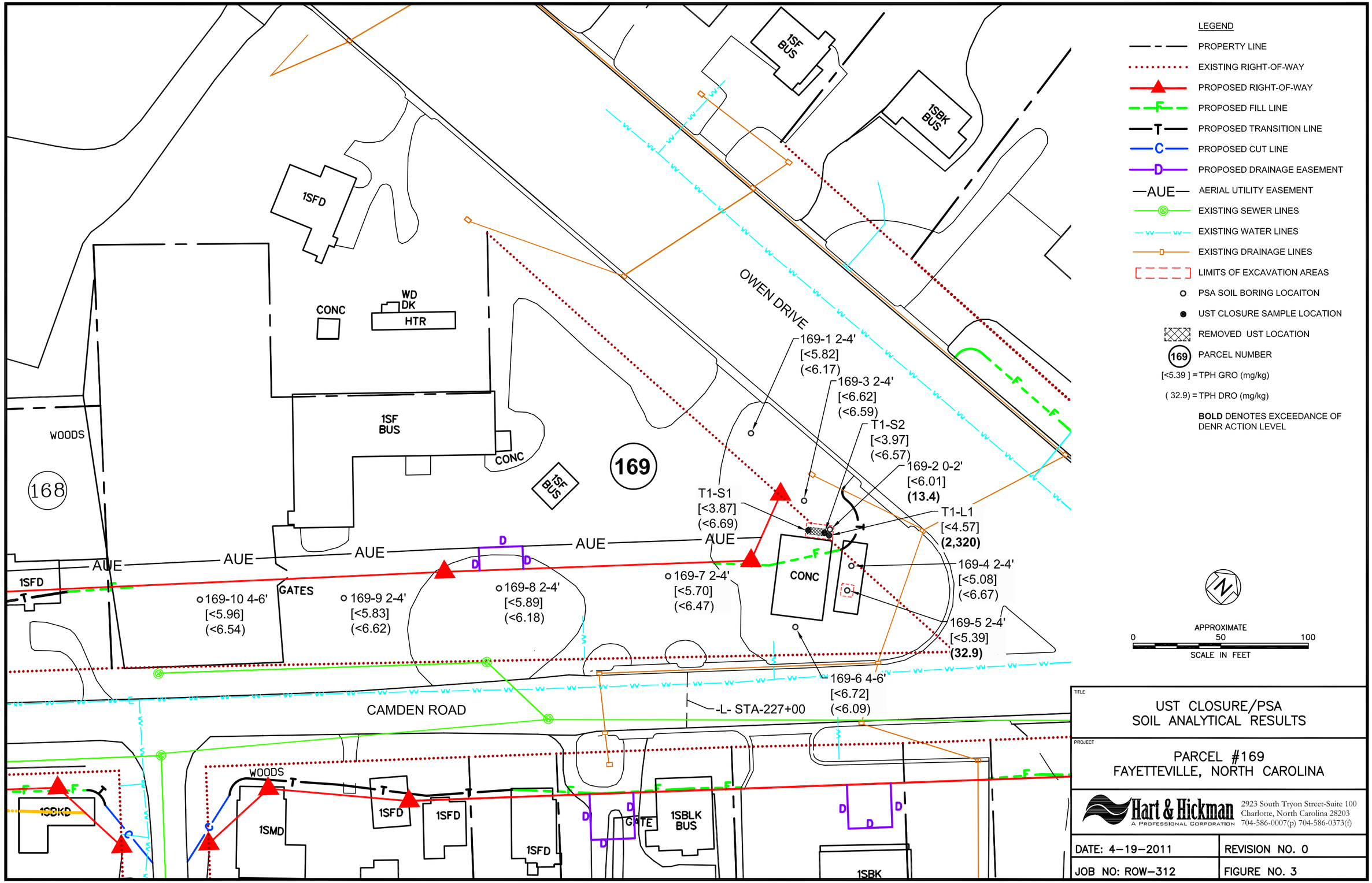
SITE MAP

PROJECT

PARCEL #169
FAYETTEVILLE, NORTH CAROLINA

Hart & Hickman
A PROFESSIONAL CORPORATION
2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

DATE: 4–19–2011	REVISION NO. 0
JOB NO: ROW–312	FIGURE NO. 2



TITLE

UST CLOSURE/PSA
SOIL ANALYTICAL RESULTS

PROJECT

PARCEL #169
FAYETTEVILLE, NORTH CAROLINA

Hart & Hickman
A PROFESSIONAL CORPORATION
2923 South Tryon Street-Suite 100
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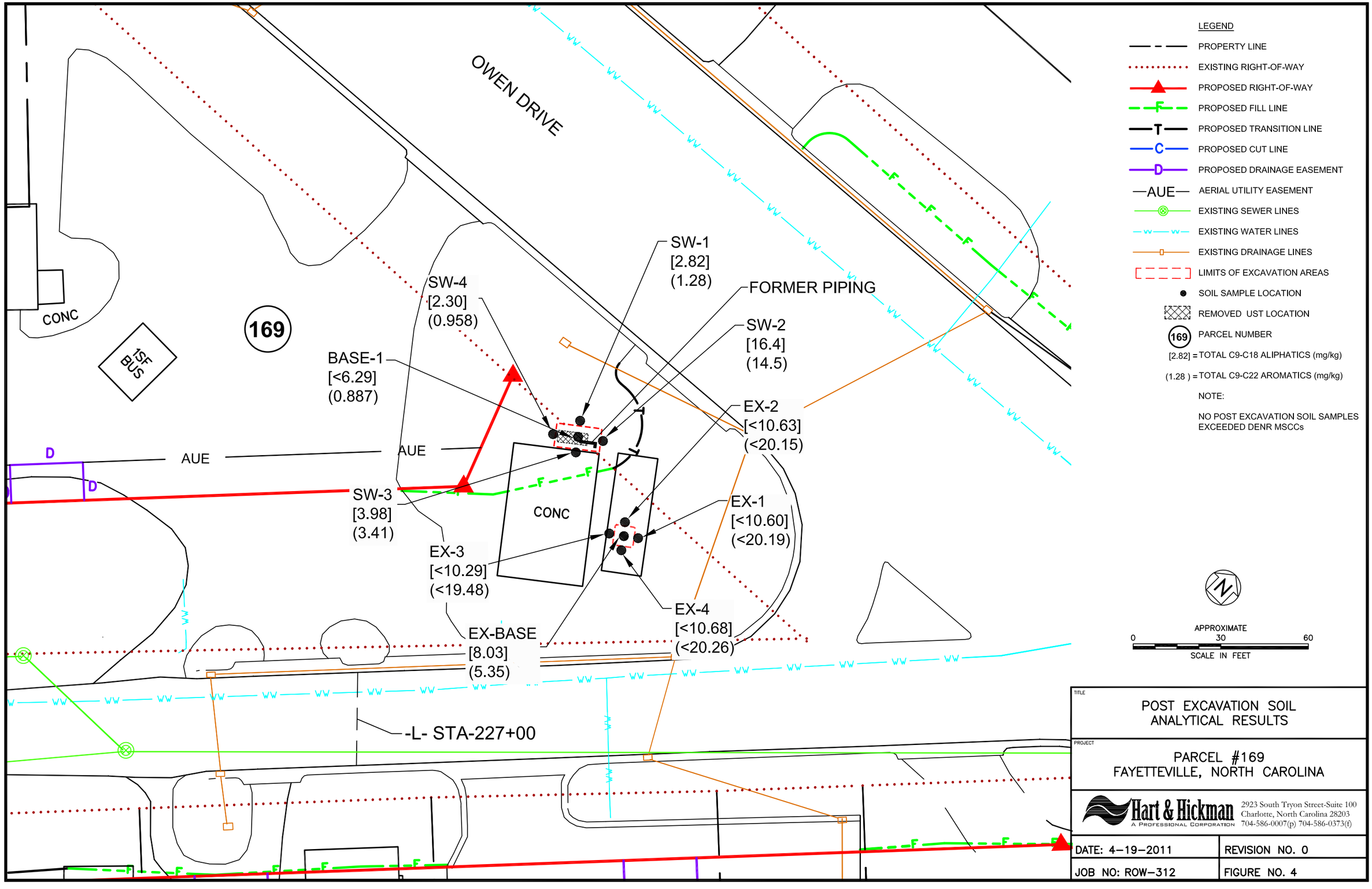
704-586-0007(p) 704-586-0373(f)

DATE: 4–19–2011	REVISION NO. 0
JOB NO: ROW–312	FIGURE NO. 3

S:\AAA-Master Projects\NC DOT Right-of-Way -ROW\ROW-312 U-2810C Parcel 169 UST\Figures\ROW-312 Base 04-19-2011.dwg, FIG-3-, 5/2/2011 2:42:43 PM, nfoster



TITLE

POST EXCAVATION SOIL ANALYTICAL RESULTS

PROJECT

PARCEL #169
FAYETTEVILLE, NORTH CAROLINA

Hart & Hickman
A PROFESSIONAL CORPORATION
2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

DATE: 4–19–2011	REVISION NO. 0
JOB NO: ROW–312	FIGURE NO. 4

Appendix A

Table 1 from H&H Preliminary Site Assessment report dated January 6, 2009

Table 1
Soil Analytical Results
Page Distributing Company, Inc., Parcel #169
Fayetteville, North Carolina
H&H Job No. ROW-203

Sample ID	169-1	169-2	169-3	169-4	169-5	169-6	169-7	169-8	169-9	169-10	NCDENR
Sample Depth (ft)	2-4	0-2	2-4	2-4	2-4	4-6	2-4	2-4	2-4	4-6	Action
Sample Date	12/10/2008	12/10/2008	12/10/2008	12/10/2008	12/10/2008	12/10/2008	12/10/2008	12/10/2008	12/10/2008	12/10/2008	Level
Units	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
TPH-DRO/GRO (8015B)											
Diesel-Range Organics (DRO)	<6.17	**13.4**	<6.59	<6.67	**32.9**	<6.09	<6.47	<6.18	<6.62	<6.54	10
Gasoline-Range Organics (GRO)	<5.82	<6.01	<6.62	<5.08	<5.39	<6.72	<5.70	<5.89	<5.83	<5.96	10

Notes:
EPA Method follows parameter in parenthesis;
Bold indicates concentration exceeds the NC DENR Action Level
TPH=total petroleum hydrocarbons
GRO samples were prepared using EPA Method 5035.

Appendix B

Notice of Intent: UST Permanent Closure or Change in Service form (UST-3 form)

UST-3 Notice of Intent: UST Permanent Closure or Change-in-Service

Return completed form to:
The DWM Regional Office located in the area where the facility is located. Send a copy to the Central Office in Raleigh so that the status of the tank may be changed to "PERMANENTLY CLOSED" and your tank fee account can be closed out.
SEE MAP ON THE BACK OF THIS FORM FOR THE CENTRAL AND REGIONAL OFFICE ADDRESSES.

STATE USE ONLY
I.D. #_____
Date Received_____

INSTRUCTIONS (READ THIS FIRST)

Complete and return at least **thirty (30) days** prior to closure or change-in-service activities. If a Professional Engineer (P.E.) or a Licensed Geologist (L.G.) provides supervision for closure or change-in-service site assessment activities and signs and seals all closure reports then at least a **five (5) working days** notice is acceptable.

Completed UST closure or change-in-service site assessment reports, along with a copy of the UST-2 form, should be submitted to the appropriate Division of Waste Management (DWM) Regional Office within thirty (30) days following closure activities. The UST-2 form should also be submitted to the Central Office in Raleigh so that the status of the tanks may be changed to permanently closed and your tank fee account can be closed out.

UST closure and change-in-service site assessments must be completed in accordance with the latest version of the *Guidelines for Tank Closure*. The *Guidelines for Tank Closure* can be obtained at www.wastenotnc.org.

You must make sure that USTs removed from your property are disposed of properly. When choosing a closure contractor, ask where the tank(s) will be taken for disposal. Usually, USTs are cleaned and cut up for scrap metal. This is dangerous work and must be performed by a qualified company. Tanks disposed of illegally in fields or other dumpsites can leak petroleum products and sludge into the environment. If your tanks are disposed of improperly, you could be held responsible for the cleanup of any environmental damage that occurs.

I. OWNERSHIP OF TANKS

Owner Name (Corporation, Individual, Public Agency, or Other Entity) Page Distributing Company, Inc.	
Street Address P.O. Box 15047	
City Winston-Salem	County Forsyth
State NC	Zip Code 27113
Phone Number Unknown	

II. LOCATION

Facility Name or Company Jason's Auto Sales		
Facility ID # (If known) Unknown		
Street Address 2612 Camden Road		
City Fayetteville	County Cumberland	Zip Code 28306
Phone Number 910 - 486 - 4300		

III. CONTACT PERSONNEL

Name:	Company Name:	Job Title:	Phone Number:
David Graham/Matt Bramblett, PE	Hart & Hickman, PC	Senior Project Geologist/Principal	704-586-0007

IV. TANK REMOVAL, CLOSURE IN PLACE, CHANGE-IN SERVICE

1. Contact local fire marshal.
2. Plan entire closure event.
3. Conduct Site Soil Assessment.
4. If removing tanks or closing in place, refer to API Publication 2015 *Cleaning Petroleum Storage Tanks* and 1604 *Removal and Disposal of Used Underground Petroleum Storage Tanks.*
5. Provide a sketch locating piping, tanks and soil sampling locations.
6. Submit a closure report in the format of UST-12 (including the form UST-2) within thirty (30) days following the site investigation.
7. If a release from the tanks has occurred, the site assessment portion of the tank closure must be conducted under the supervision of a P.E. or L.G., with all closure site assessment reports bearing the signature and seal of the P.E. or L.G. If a release has not occurred, the supervision, signature or seal of a P.E. or L.G. is not required.
8. Keep closure records for three (3) years.

V. WORK TO BE PERFORMED BY

Contractor Name: Tony Disher	Contractor Company Name: EVO Corporation		
Address: 1703 Vargrave St, Winston-Salem	State: NC	Zip Code: 27107	Phone No: (336) 725-5844
Primary Consultant Name: David Graham	Primary Consultant Company Name: Hart & Hickman, PC for NC DOT		Consultant Phone No: (704) 586-0007

VI. TANKS SCHEDULED FOR CLOSURE OR CHANGE-IN-SERVICE

Tank ID No.	Size in Gallons	Last Contents	Proposed Activity: Closure – Removal	Proposed Activity: Closure – Abandonment in Place *	Proposed Activity: Change-In-Service – New Contents Stored
1	1,000	Unknown	☒	☐	
			☐	☐	
			☐	☐	
			☐	☐	
			☐	☐	

* Prior written approval to abandon a tank in place must be received from a DWM Regional Office.

VII. OWNER OR OWNER'S AUTHORIZED REPRESENTATIVE

I understand that I can be held responsible for environmental damage resulting from the improper disposal of my USTs.

Print name and official title: David Graham - Senior Project Geologist (Hart & Hickman, PC) - Agent for NC DOT

Signature	Date Signed	SCHEDULED REMOVAL DATE	Notify your DWM Regional Office 48 hours before this date if scheduled removal date changes
	2-3-11	February 17, 2011	

Appendix C

Fire Department Permit

City of Fayetteville
North Carolina
FIRE/EMERGENCY MANAGEMENT

PERMIT APPLICATION FOR THE INSTALLATION, REMOVAL OR ABANDONMENT OF UNDERGROUND OR ABOVE GROUND STORAGE TANKS

Complete and return this application and provide all required information at least fourteen (14) days prior to commencing any proposed work to include: installation, excavation, removal, testing, closure or change-in-service of all above and underground storage tanks.

Application is hereby made for a permit to: (please check appropriate blocks)

☐ Installation		☑ Underground Storage Tank
☑ Removal	Of	☐ Above Ground Tank
☐ Testing		☐ Piping System
☐ Change-In-Service		

Project Location

Number & Street	Business Name	Contact	Phone
2612 CAMDEN RD, FAYETTEVILLE	JASON'S AUTO SALES	JASON JARRETT	910-486-4300

Scheduled Work Date: FEBRUARY 17, 2011

Location of Tank(s): NORTHEASTERN CORNER OF PROPERTY (SEE ATTACHED MAP)

TANK ID#	TANK CAPACITY	TANK CONTENTS
1	1,000	UNKNOWN

Contractor Information

Company	Mailing Address	City/State/Zip Code
EVD CORPORATION	1703 VARGRAVE ST	WINSTON-SALEM, NC 27107
Contact Person & Title	**Telephone**	**Contractor's NC ID#**
TONY DISHER	336-725-5844	N/A

Authorized Signature

Tony Disher, President
Print Name

02-04-2011
Date

PERMIT FEE: $125.00 PER TANK
(Payment due with application – cash, checks-made payable to Fayetteville Fire Department, Master Card or Visa accepted)

433 HAY STREET
FAYETTEVILLE, NC 28301-5537
(910) 433-1728/1730 FAX (910) 433-1757
An Equal Opportunity Employer
www.cityoffayetteville.org

UNDERGROUND AND ABOVE GROUND STORAGE TANKS
REQUIREMENT CHECKLIST

✓ 1. Apply for permit 14 days prior to the proposed work commencement date. *The permit will not be issued without the 14-day review/processing period.*

✓ 2. Submit plans for the event to include: site/plot plan drawings, to scale, where proposed work is to take place. Show the proximity of tanks, pumps and piping to property lines, buildings on or near the property, and to adjacent roadways. Include manufacturer's product information for tanks and equipment to be used on the job. *The permit will not be processed without this information.*

✓ 3. Submit photocopies of the appropriate North Carolina Department of Environmental Management/Ground Water Section Notice with the permit application (GW/UST-3, GW/UST-6, and/or GW/UST-8). *The permit will not be processed without this information.*

✓ 4. All work shall be conducted in accordance with local ordinances, NCS Administrative Codes, General Statutes, Federal Regulations, Federal Laws, OSHA Standards, NFPA Standards, API Standards and all other nationally recognized standard practices.

___ 5. Contact the Fire Department at least 48 hours prior to commencing work to be placed on the work schedule.

___ 6. The Code Official shall witness all repairs, removals, installations, tests, etc.

___ 7. Provide soil sample locations and test results after completion of work to the Fire Department.

___ 8. Provide tank/piping disposition after completion of work to the Fire Department.

___ 9. Return "checklist" and all required information to the Fire Department.

FAILURE TO COMPLY WITH ALL REQUIREMENTS MAY RESULT IN THE REVOCATION OF THE PERMIT(S), SUBJECT THOSE RESPONSIBLE TO CIVIL CITATIONS AS PROVIDED BY LOCAL ORDINANCE, AND/OR LIABLE FOR ALL OTHER PENALTIES AS PROVIDED BY LAW.

We appreciate your cooperation in the interest of fire and life safety. If you have questions or problems, please do not hesitate to contact the Fire Department at (910) 433-1728 or 433-1730.

Appendix D

Certificate of Disposal and Non-Hazardous Materials Manifest - Residual Liquids

ENVIRONMENTAL AND INDUSTRIAL RESOURCES

1703 Vargrave Street
Winston-Salem, NC 27107
ph 336-725-5844
fax 336-725-6244

CERTIFICATE OF DISPOSAL

Evo Corporation does hereby certify that 140 gallons of product received on 02/18/2011 from:

Generator: NC Department of Transportation

Originating at: Parcel 169 - 2612 Camden Road
Fayetteville, NC

EC Waste ID #: 011145

has been disposed of by Evo Corporation in a manner approved by the North Carolina Department of Environment and Natural Resources.

Signature

Thomas W. Hammett
CEO
Evo Corporation

EVO CORPORATION

1703 Vargrave Street, Winston-Salem, NC 27107
www.evocorp.net

NON-HAZARDOUS MATERIALS MANIFEST

Load # Manifest No. 71036

GENERATOR INFORMATION

Generator: NC Dept. of Transportation Phone: 704 486 0007
Site Address: Parcel 169, 2612 Camden Road
City/State: Fayetteville, NC 28306 Contact: David Graham

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): Material: ~~Water~~ Product
Empty Weight (lbs): Contaminant: Petroleum
Net Weight (lbs):

Quantity 140 Tons Drums Pails Sacs Yards Other: Gal

TRANSPORTER INFORMATION

Transporter: Evo Corporation Phone: 336-725-5844
Truck #: 402 Contact: Tony Disher

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: Date: 2/18/11

FACILITY INFORMATION

Evo Project #: 011145

EVO CORPORATION
1703 Vargrave Street
Winston-Salem, NC 27107

Phone: (336) 725-5844
Contact: Tony Disher

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: Date: 02-18-2011

White/Facility Canary/Invoice Goldenrod/Generator Pink/Carrier

Appendix E

Site Investigation Report for Permanent Closure or Change-in-Service of UST (UST-2 Form)

UST-2 Site Investigation Report for Permanent Closure or Change-in-Service of UST

Return completed form to:
The DWM Regional Office located in the area where the facility is located. Send a copy to the Central Office in Raleigh so that the status of the tank may be changed to "PERMANENTLY CLOSED" and your tank fee account can be closed out.
SEE MAP ON THE BACK OF THIS FORM FOR THE CENTRAL AND REGIONAL OFFICE ADDRESSES.

STATE USE ONLY:
I.D. #_____
Date Received_____

INSTRUCTIONS (READ THIS FIRST)

For more than five UST systems you may attach additional forms as needed.

Permanent closure – For permanent closure, complete all sections of this form.

Change-in-service – For change-in-service where UST systems will be converted from containing a regulated substance to storing a non-regulated substance, complete sections I, II, III, IV, and VIII

Effective February 1, 1995, all UST closure/change-in-service reports must be submitted in the format provided in the UST-12 form. UST closure and change-in-services must be completed in accordance with the latest version of the *Guidelines for Tank Closure*. A copy of the UST-12 form and the *Guidelines for Tank Closure* can be obtained at www.wastenotnc.org.

You must make sure that USTs removed from your property are disposed of properly. When choosing a closure contractor, ask where the tank(s) will be taken for disposal. Usually, USTs are cleaned and cut up for scrap metal. This is dangerous work and must be performed by a qualified company. Tanks disposed of illegally in fields or other dumpsites can leak petroleum products and sludge into the environment. If your tanks are disposed of improperly, you could be held responsible for the cleanup of any environmental damage that occurs.

NOTE: If a release from the tank(s) has occurred, the site assessment portion of the tank closure must be conducted under the supervision of a P.E. or L.G., with all closure site assessment reports bearing the signature and seal of the P.E. or L.G.

I. OWNERSHIP OF TANKS

Owner Name (Corporation, Individual, Public Agency, or Other Entity) Page Distributing Company, Inc.	
Street Address P.O. Box 15047	
City Winston-Salem	County Forsyth
State NC	Zip Code 27113
Phone Number (910) 723-9982	

II. LOCATION OF TANKS

Facility Name or Company Jason's Auto Sales		
Facility ID # (If known) N/A		
Street Address 2612 Camden Road		
City Fayetteville	County Cumberland	Zip Code 28306
Phone Number (910) 486-4300		

III. CONTACT PERSONNEL

Contact for Facility: Mr. Page		Job Title: Property Owner	Phone. No: (910) 723-9982
Closure Contractor Name: Tony Disher	Closure Contractor Company: EVO Corporation	Address: 1703 Vargrave St, Winston-Salem, NC	Phone. No: (336) 725-5844
Primary Consultant Name: David Graham/Matt Bramblett,PE	Primary Consultant Company: Hart & Hickman, PC for NCDOT	Address: 2923 S. Tryon St, Charlotte, NC	Phone. No: (704) 586-0007

IV. UST INFORMATION FOR REGISTERED UST SYSTEMS

V. EXCAVATION CONDITION

Tank ID No.	Size in Gallons	Tank Dimensions	Last Contents	Last Use Date	Permanent Close Date	Change-in-Service Date	Water in excavation		Free product		Notable odor or visible soil contamination	
							Yes	No	Yes	No	Yes	No
							☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐

VI. UST INFORMATION FOR UNREGISTERED UST SYSTEMS

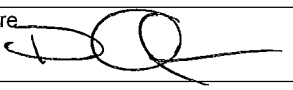
VII. EXCAVATION CONDITION

Tank ID No.	Size in Gallons	Tank Dimensions	Last Contents	Last Use Date	Permanent Close Date	Tank Owner Name *	Water in excavation		Free product		Notable odor or visible soil contamination	
							Yes	No	Yes	No	Yes	No
1	1000	48"X10' 5"	Heating Oil	unknown	2/18/11	see above	☐	☒	☐	☒	☐	☒
							☐	☐	☐	☒	☐	☐
							☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐

* If the tank owner address is different from the one listed in Section I., then enter the street address, city, state, zip code and telephone no. below:

VIII. CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true accurate and complete.

Print name and official title of owner or owner's authorized representative	Signature	Date Signed
David Graham - Senior Project Geologist (Hart & Hickman, PC) - Agent for NC DOT		4/29/2011

Appendix F

Tank Disposal Certificate

ENVIRONMENTAL AND INDUSTRIAL RESOURCES

1703 Vargrave Street
Winston-Salem, NC 27107
ph 336-725-5844
fax 336-725-6244

TANK DISPOSAL CERTIFICATE

Tank Owner: NC Department of Transportation

Site Address: Parcel 169 - 2612 Camden Road
Fayetteville, NC

Tank Description:

Tank Number	Size of Tank	Contents
1	1,000 Gallons	#2 Fuel Oil

Transporter: Evo Corporation

EC Project #: 011145

Disposal Certification:

Evo Corporation does hereby certify that the above named storage tank was transported to OmniSource Southeast in Winston-Salem, NC for proper disposal and recycling.

Signature

Thomas W. Hammett
CEO
Evo Corporation

Appendix G

Certificate of Disposal, Non-Hazardous Materials Manifest, and Certified Weight Ticket (Soil)

ENVIRONMENTAL AND INDUSTRIAL RESOURCES

1703 Vargrave Street
Winston-Salem, NC 27107
ph 336-725-5844
fax 336-725-6244

CERTIFICATE OF DISPOSAL

Evo Corporation does hereby certify that 13.00 tons of non-hazardous contaminated material received on 02/19/2011 from:

Generator: NC Department of Transportation

Originating at: Parcel 169 - 2612 Camden Road
Fayetteville, NC

EC Waste ID #: 011145

has been disposed of by Evo Corporation in a manner approved by the North Carolina Department of Environment and Natural Resources.

Signature

Thomas W. Hammett
CEO
Evo Corporation

EVO CORPORATION

1703 Vargrave Street, Winston-Salem, NC 27107
www.evocorp.net

NON-HAZARDOUS MATERIALS MANIFEST

Load # Manifest No. 71040

GENERATOR INFORMATION

Generator: ~~NC Dept. of Transportation~~ Phone: ~~704-586-0007~~
Site Address: Parcel 169, 2612 Camden Road
City/State: Fayetteville, NC 28306 Contact: David Graham

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): 60240 Material: Soil
Empty Weight (lbs): 34240 Contaminant: Petroleum
Net Weight (lbs): 26000

Quantity 13 (Tons) Drums Pails Sacs Yards Other: _____

TRANSPORTER INFORMATION

Transporter: Evo Corporation Phone: 336-725-5844
Truck #: 205 Contact: Tony Disher

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: Ronald Davis Date: 2-18-2011

FACILITY INFORMATION

Evo Project #: 011145

EVO CORPORATION
1703 Vargrave Street
Winston-Salem, NC 27107

Phone: (336) 725-5844
Contact: Tony Disher

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: Date: 2-19-2011

White/Facility Canary/Invoice Goldenrod/Generator Pink/Carrier

74549286

TICKET NUMBER

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

THE CAT SCALE GUARANTEE

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.©

WEIGH WHAT WE SAY OR WE PAY®

If you get an overweight fine from the state AFTER one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:

(1) Reimburse you for the cost of the overweight fine if our scale is wrong, **OR**
(2) A representative of CAT Scale Company will appear in court **WITH** the driver as an expert witness if we believe our scale was correct.

CAT SCALE COLLECTOR CARD INSIDE!

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

1) Post bond and request a court date.
2) Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE (Toll Free).
3) **IMMEDIATELY** send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

*The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

DATE: 2-18-2011

1725
74549286 SCALE 211

LOCATION: I-85 AND I-40 EXIT 138
WHITSETT NC

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

STEER AXLE	9800	lb
DRIVE AXLE	25800	lb
TRAILER AXLE	24640	lb
*GROSS WEIGHT	60240	lb

#01174

Ronald Davis

NORTH CAROLINA PUBLIC WEIGHMASTER LICENSE EXPIRES JUNE 30 2011 TAMARA DAYE 24005 INVALID UNLESS SEALED (IMPRINT SEAL HERE IF APPLICABLE)

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law.

WEIGH NUMBER 9286

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: FREIGHT ALL KINDS

COMPANY: EVO

TRACTOR #: 205 TRAILER #: 301

FEE: 9.50

WEIGHMASTER OR WEIGHER SIGNATURE: TAMARA DAYE

FULL WEIGH TICKET # (IF REWEIGH):

STOMER COPY

DRIVER IN TRUCK UNLESS CHECKED HERE: ___

Appendix H

Laboratory Analytical Data Report with Chain-of-Custody Record

Laboratory Report of Analysis

To: David Graham
HART & HICKMAN
2923 S. Tryon St.
Suite 100
Charlotte, NC 28203

Report Number: **31100158**

Client Project: **Row-312 Parcel 169**

Dear David Graham,

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 Lori Lockamy 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.

Lori Lockamy Date
Project Manager
lori.lockamy@sgs.com

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 < LOD)
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	Amount detected is between the Method Detection Limit and the Lower Calibration Limit
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
EMC	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
M1	Mis-identified peak
M2	Software did not integrate peak
M3	Incorrect baseline construction (i.e. not all of peak included; two peaks integrated as one)
M4	Pattern integration required (i.e. DRO, GRO, PCB, Toxaphene and Technical Chlordane)
M5	Other - Explained in case narrative

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

SGS North America Inc.
5500 Business Drive, Wilmington, NC 28405
t 910.350.1903 f 910.350.1557 www.us.sgs.com
Member of SGS Group

Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
T1-S1	31100158001	02/18/2011 00:00	02/19/2011 09:30	Soil
T1-S2	31100158002	02/18/2011 00:00	02/19/2011 09:30	Soil
SW-1	31100158014	02/18/2011 00:00	02/19/2011 09:30	Soil
SW-2	31100158004	02/18/2011 00:00	02/19/2011 09:30	Soil
SW-3	31100158005	02/18/2011 00:00	02/19/2011 09:30	Soil
SW-4	31100158006	02/18/2011 00:00	02/19/2011 09:30	Soil
Base-1	31100158007	02/18/2011 00:00	02/19/2011 09:30	Soil
EX-1	31100158008	02/18/2011 00:00	02/19/2011 09:30	Soil
EX-2	31100158009	02/18/2011 00:00	02/19/2011 09:30	Soil
EX-3	31100158010	02/18/2011 00:00	02/19/2011 09:30	Soil
EX-4	31100158011	02/18/2011 00:00	02/19/2011 09:30	Soil
EX-BASE	31100158012	02/18/2011 00:00	02/19/2011 09:30	Soil
T1-L1	31100158013	02/18/2011 00:00	02/19/2011 09:30	Soil

SGS North America Inc.
5500 Business Drive, Wilmington, NC 28405
t 910.350.1903 f 910.350.1557 www.us.sgs.com
Member of SGS Group

Results of **T1-S1**

Client Sample ID: **T1-S1**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158001-B
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 95

Results by **SW-846 8015C GRO**

Parameter	Result	Qual	LOQ/CL	Units	DF
Gasoline Range Organics (GRO)	ND		3.87	mg/kg	1
Surrogates					
4-Bromofluorobenzene	103		70.0-130	%	1

Batch Information

Analytical Batch: **VGC1023**
Analytical Method: **SW-846 8015C GRO**
Instrument: **GC4**
Analyst: **LMC**
Analytical Date/Time: **02/22/2011 23:33**

Prep Batch: **VXX1050**
Prep Method: **SW-846 5035**
Prep Date/Time: **02/22/2011 17:42**
Prep Initial Wt./Vol.: **5.43 g**
Prep Extract Vol: **5 mL**

SGS North America Inc.
5500 Business Drive, Wilmington, NC 28405
t 910.350.1903 **f** 910.350.1557 www.us.sgs.com
Member of SGS Group

Results of **T1-S1**

Client Sample ID: **T1-S1**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158001-A
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 95

Results by **SW-846 8015C DRO**

Parameter	Result	Qual	LOQ/CL	Units	DF
Diesel Range Organics (DRO)	ND		6.69	mg/kg	1
Surrogates					
o-Terphenyl	73.1		40.0-140	%	1

Batch Information

Analytical Batch: **XGC1037**
Analytical Method: **SW-846 8015C DRO**
Instrument: **GC6**
Analyst: **DTF**
Analytical Date/Time: **02/28/2011 18:18**

Prep Batch: **XXX1046**
Prep Method: **SW-846 3541**
Prep Date/Time: **02/24/2011 10:20**
Prep Initial Wt./Vol.: **31.42 g**
Prep Extract Vol: **10 mL**

SGS North America Inc.
5500 Business Drive, Wilmington, NC 28405
t 910.350.1903 **f** 910.350.1557 www.us.sgs.com
Member of SGS Group

Results of **T1-S2**

Client Sample ID: **T1-S2**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158002-B
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 94

Results by **SW-846 8015C GRO**

Parameter	Result	Qual	LOQ/CL	Units	DF
Gasoline Range Organics (GRO)	ND		3.97	mg/kg	1
Surrogates					
4-Bromofluorobenzene	104		70.0-130	%	1

Batch Information

Analytical Batch: **VGC1023**
Analytical Method: **SW-846 8015C GRO**
Instrument: **GC4**
Analyst: **LMC**
Analytical Date/Time: **02/23/2011 00:00**

Prep Batch: **VXX1050**
Prep Method: **SW-846 5035**
Prep Date/Time: **02/22/2011 17:42**
Prep Initial Wt./Vol.: **5.38 g**
Prep Extract Vol: **5 mL**

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Results of **T1-S2**

Client Sample ID: **T1-S2**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158002-A
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 94

Results by **SW-846 8015C DRO**

Parameter	Result	Qual	LOQ/CL	Units	DF
Diesel Range Organics (DRO)	ND		6.57	mg/kg	1
Surrogates					
o-Terphenyl	67.8		40.0-140	%	1

Batch Information

Analytical Batch: **XGC1037**
Analytical Method: **SW-846 8015C DRO**
Instrument: **GC6**
Analyst: **DTF**
Analytical Date/Time: **02/28/2011 18:47**

Prep Batch: **XXX1046**
Prep Method: **SW-846 3541**
Prep Date/Time: **02/24/2011 10:20**
Prep Initial Wt./Vol.: **32.5 g**
Prep Extract Vol: **10 mL**

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Results of **SW-1**

Client Sample ID: **SW-1**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158014
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/21/2011 15:40
Matrix: Soil
Solids (%): 95

Results by **MADEP VPH**

Parameter	Result	Qual	LOQ/CL	Units	DF
C5-C8 Aliphatic	ND		2.43	mg/kg	1
C9-C12 Aliphatic	**2.82**		1.62	mg/kg	1
C9-C10 Aromatic	**1.28**		0.809	mg/kg	1
Surrogates					
FID - 4-Bromofluorobenzene	96.0		70.0-130	%	1
PID - 4-Bromofluorobenzene	95.0		70.0-130	%	1

Batch Information

Analytical Batch: **VGC1035**
Analytical Method: **MADEP VPH**
Instrument: **GC4**
Analyst: **MAH**
Analytical Date/Time: **02/28/2011 21:51**

Prep Batch: **VXX1081**
Prep Method: **SW-846 5035 VPH prep**
Prep Date/Time: **02/28/2011 11:20**
Prep Initial Wt./Vol.: **5.22 g**
Prep Extract Vol: **5 mL**

Print Date: 03/17/2011

N.C. Certification # 481

Results of **SW-1**

Client Sample ID: **SW-1**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158014-C
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/21/2011 15:40
Matrix: Soil
Solids (%): 95

Results by **SW-846 8260B**

Parameter	Result	Qual	LOQ/CL	Units	DF
Chloromethane	ND		4.90	ug/Kg	1
Vinyl chloride	ND		4.90	ug/Kg	1
Bromomethane	ND		4.90	ug/Kg	1
Chloroethane	ND		4.90	ug/Kg	1
Trichlorofluoromethane	ND		4.90	ug/Kg	1
1,1-Dichloroethene	ND		4.90	ug/Kg	1
Acetone	ND		49.0	ug/Kg	1
Methylene chloride	ND		19.6	ug/Kg	1
trans-1,2-Dichloroethene	ND		4.90	ug/Kg	1
tert-Butyl methyl ether (MTBE)	ND		4.90	ug/Kg	1
1,1-Dichloroethane	ND		4.90	ug/Kg	1
Diisopropyl Ether	ND		4.90	ug/Kg	1
Chloroprene	ND		4.90	ug/Kg	1
2,2-Dichloropropane	ND		4.90	ug/Kg	1
cis-1,2-Dichloroethene	ND		4.90	ug/Kg	1
2-Butanone	ND		24.5	ug/Kg	1
Bromochloromethane	ND		4.90	ug/Kg	1
Chloroform	ND		4.90	ug/Kg	1
1,1,1-Trichloroethane	ND		4.90	ug/Kg	1
Carbon tetrachloride	ND		4.90	ug/Kg	1
1,1-Dichloropropene	ND		4.90	ug/Kg	1
Benzene	ND		4.90	ug/Kg	1
1,2-Dichloroethane	ND		4.90	ug/Kg	1
Trichloroethene	ND		4.90	ug/Kg	1
1,2-Dichloropropane	ND		4.90	ug/Kg	1
Dibromomethane	ND		4.90	ug/Kg	1
Bromodichloromethane	ND		4.90	ug/Kg	1
cis-1,3-Dichloropropene	ND		4.90	ug/Kg	1
4-Methyl-2-pentanone	ND		12.2	ug/Kg	1
Toluene	ND		4.90	ug/Kg	1
Methyl iodide	ND		4.90	ug/Kg	1
trans-1,3-Dichloropropene	ND		4.90	ug/Kg	1
Carbon disulfide	ND		4.90	ug/Kg	1
1,1,2-Trichloroethane	ND		4.90	ug/Kg	1
Tetrachloroethene	ND		4.90	ug/Kg	1
1,3-Dichloropropane	ND		4.90	ug/Kg	1
2-Hexanone	ND		12.2	ug/Kg	1
Dibromochloromethane	ND		4.90	ug/Kg	1
1,2-Dibromoethane	ND		4.90	ug/Kg	1
Chlorobenzene	ND		4.90	ug/Kg	1
1,1,1,2-Tetrachloroethane	ND		4.90	ug/Kg	1
Bromoform	ND		4.90	ug/Kg	1
Bromobenzene	ND		4.90	ug/Kg	1

Print Date: 03/17/2011

N.C. Certification # 481

Results of **SW-1**

Client Sample ID: **SW-1**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158014-C
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/21/2011 15:40
Matrix: Soil
Solids (%): 95

Results by **SW-846 8260B**

Parameter	Result	Qual	LOQ/CL	Units	DF
1,1,2,2-Tetrachloroethane	ND		4.90	ug/Kg	1
1,2,3-Trichloropropane	ND		4.90	ug/Kg	1
Ethyl Benzene	ND		4.90	ug/Kg	1
m,p-Xylene	ND		9.80	ug/Kg	1
Styrene	ND		4.90	ug/Kg	1
o-Xylene	ND		4.90	ug/Kg	1
Isopropylbenzene (Cumene)	ND		4.90	ug/Kg	1
n-Propylbenzene	ND		4.90	ug/Kg	1
2-Chlorotoluene	ND		4.90	ug/Kg	1
4-Chlorotoluene	ND		4.90	ug/Kg	1
1,3,5-Trimethylbenzene	ND		4.90	ug/Kg	1
tert-Butylbenzene	ND		4.90	ug/Kg	1
1,2,4-Trimethylbenzene	ND		4.90	ug/Kg	1
sec-Butylbenzene	ND		4.90	ug/Kg	1
1,3-Dichlorobenzene	ND		4.90	ug/Kg	1
4-Isopropyltoluene	ND		4.90	ug/Kg	1
1,4-Dichlorobenzene	ND		4.90	ug/Kg	1
1,2-Dichlorobenzene	ND		4.90	ug/Kg	1
n-Butylbenzene	ND		4.90	ug/Kg	1
1,2-Dibromo-3-chloropropane	ND		29.4	ug/Kg	1
1,2,4-Trichlorobenzene	ND		4.90	ug/Kg	1
Hexachlorobutadiene	ND		4.90	ug/Kg	1
Naphthalene	ND		4.90	ug/Kg	1
trans-1,4-Dichloro-2-butene	ND		24.5	ug/Kg	1
1,2,3-Trichlorobenzene	ND		4.90	ug/Kg	1
Surrogates					
1,2-Dichloroethane-d4	131		55.0-173	%	1
Toluene d8	94.0		57.0-134	%	1
4-Bromofluorobenzene	103		23.0-141	%	1

Batch Information

Analytical Batch: **VMS1033**
Analytical Method: **SW-846 8260B**
Instrument: **MSD9**
Analyst: **DVO**
Analytical Date/Time: **02/25/2011 16:07**

Prep Batch: **VXX1057**
Prep Method: **SW-846 5035 SL**
Prep Date/Time: **02/25/2011 12:38**
Prep Initial Wt./Vol.: **5.39 g**
Prep Extract Vol: **5 mL**

Print Date: 03/17/2011

N.C. Certification # 481

Results of **SW-1**

Client Sample ID: **SW-1**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158014-A
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/21/2011 15:40
Matrix: Soil
Solids (%): 95

Results by **MADEP EPH**

Parameter	Result	Qual	LOQ/CL	Units	DF
C11-C22 Aromatics	ND		14.0	mg/kg	1
C9-C18 Aliphatic Hydrocarbons	ND		5.01	mg/kg	1
C19-C36 Aliphatic Hydrocarbons	ND		6.72	mg/kg	1
Surrogates					
n-Tricosane	87.0		40.0-140	%	1
o-Terphenyl	85.0		40.0-140	%	1
2-Bromonaphthalene	141*		40.0-140	%	1
2-Fluorobiphenyl	124		40.0-140	%	1

Batch Information

Analytical Batch: **XGC1041**
Analytical Method: **MADEP EPH**
Instrument: **GC6**
Analyst: **DTF**
Analytical Date/Time: **03/01/2011 07:31**

Prep Batch: **XXX1053**
Prep Method: **SW-846 3541/8015 EPH**
Prep Date/Time: **02/25/2011 09:01**
Prep Initial Wt./Vol.: **12.64 g**
Prep Extract Vol: **10 mL**

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Results of **SW-1**

Client Sample ID: **SW-1**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158014-A
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/21/2011 15:40
Matrix: Soil
Solids (%): 95

Results by **SW-846 8270D**

Parameter	Result	Qual	LOQ/CL	Units	DF
Phenol	ND		325	ug/Kg	1
Bis(2-Chloroethyl)ether	ND		325	ug/Kg	1
2-Chlorophenol	ND		325	ug/Kg	1
1,3-Dichlorobenzene	ND		325	ug/Kg	1
1,4-Dichlorobenzene	ND		325	ug/Kg	1
1,2-Dichlorobenzene	ND		325	ug/Kg	1
2-Methylphenol	ND		325	ug/Kg	1
3 and/or 4-Methylphenol	ND		325	ug/Kg	1
Bis(2-Chloroisopropyl)ether	ND		325	ug/Kg	1
n-Nitrosodi-n-propylamine	ND		325	ug/Kg	1
Hexachloroethane	ND		325	ug/Kg	1
Nitrobenzene	ND		325	ug/Kg	1
Isophorone	ND		325	ug/Kg	1
2-Nitrophenol	ND		325	ug/Kg	1
2,4-Dimethylphenol	ND		325	ug/Kg	1
Bis(2-Chloroethoxy)methane	ND		325	ug/Kg	1
Benzoic acid	ND		325	ug/Kg	1
2,4-Dichlorophenol	ND		325	ug/Kg	1
1,2,4-Trichlorobenzene	ND		325	ug/Kg	1
Naphthalene	ND		325	ug/Kg	1
4-Chloroaniline	ND		325	ug/Kg	1
Hexachlorobutadiene	ND		325	ug/Kg	1
4-Chloro-3-methylphenol	ND		325	ug/Kg	1
2-Methylnaphthalene	ND		325	ug/Kg	1
Hexachlorocyclopentadiene	ND		325	ug/Kg	1
2,4,5-Trichlorophenol	ND		325	ug/Kg	1
2,4,6-Trichlorophenol	ND		325	ug/Kg	1
2-Chloronaphthalene	ND		325	ug/Kg	1
2-Nitroaniline	ND		325	ug/Kg	1
3-Nitroaniline	ND		325	ug/Kg	1
Dimethyl phthalate	ND		325	ug/Kg	1
2,6-Dinitrotoluene	ND		325	ug/Kg	1
Acenaphthene	ND		325	ug/Kg	1
2,4-Dinitrophenol	ND		650	ug/Kg	1
4-Nitrophenol	ND		325	ug/Kg	1
Dibenzofuran	ND		325	ug/Kg	1
2,4-Dinitrotoluene	ND		325	ug/Kg	1
Fluorene	ND		325	ug/Kg	1
Diethyl phthalate	ND		325	ug/Kg	1
4-Chlorophenyl phenyl ether	ND		325	ug/Kg	1
4-Nitroaniline	ND		325	ug/Kg	1
4,6-Dinitro-2-methylphenol	ND		325	ug/Kg	1
Diphenylamine	ND		325	ug/Kg	1

Print Date: 03/17/2011

N.C. Certification # 481

Results of **SW-1**

Client Sample ID: **SW-1**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158014-A
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/21/2011 15:40
Matrix: Soil
Solids (%): 95

Results by **SW-846 8270D**

Parameter	Result	Qual	LOQ/CL	Units	DF
4-Bromophenyl phenyl ether	ND		325	ug/Kg	1
Hexachlorobenzene	ND		325	ug/Kg	1
Pentachlorophenol	ND		325	ug/Kg	1
Phenanthrene	ND		325	ug/Kg	1
Anthracene	ND		325	ug/Kg	1
Di-n-butyl phthalate	ND		325	ug/Kg	1
Fluoranthene	ND		325	ug/Kg	1
Pyrene	ND		325	ug/Kg	1
Butyl benzyl phthalate	ND		325	ug/Kg	1
Benzo(a)anthracene	ND		325	ug/Kg	1
3,3'-Dichlorobenzidine	ND		325	ug/Kg	1
Chrysene	ND		325	ug/Kg	1
Bis(2-Ethylhexyl)phthalate	ND		325	ug/Kg	1
Di-n-octyl phthalate	ND		325	ug/Kg	1
Benzo(b)fluoranthene	ND		325	ug/Kg	1
Benzo(k)fluoranthene	ND		325	ug/Kg	1
Benzo(a)pyrene	ND		325	ug/Kg	1
Indeno(1,2,3-cd)pyrene	ND		325	ug/Kg	1
Dibenz(a,h)anthracene	ND		325	ug/Kg	1
Benzo(g,h,i)perylene	ND		325	ug/Kg	1
Acenaphthylene	ND		325	ug/Kg	1
Surrogates					
2-Fluorophenol	75.0		42.0-123	%	1
Phenol-d6	72.0		48.0-125	%	1
Nitrobenzene-d5	80.0		46.0-117	%	1
2-Fluorobiphenyl	71.0		48.0-123	%	1
2,4,6-Tribromophenol	59.0		41.0-129	%	1
Terphenyl-d14	77.0		44.0-140	%	1

Batch Information

Analytical Batch: **XMS1015**
Analytical Method: **SW-846 8270D**
Instrument: **MSD10**
Analyst: **CMP**
Analytical Date/Time: **02/25/2011 14:50**

Prep Batch: **XXX1045**
Prep Method: **SW-846 3541**
Prep Date/Time: **02/24/2011 10:20**
Prep Initial Wt./Vol.: **32.51 g**
Prep Extract Vol: **10 mL**

Print Date: 03/17/2011

N.C. Certification # 481

Results of **SW-2**

Client Sample ID: **SW-2**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158004-F
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 92

Results by **MADEP VPH**

Parameter	Result	Qual	LOQ/CL	Units	DF
C5-C8 Aliphatic	ND		2.45	mg/kg	1
C9-C12 Aliphatic	**16.4**		1.63	mg/kg	1
C9-C10 Aromatic	**14.5**		0.816	mg/kg	1
Surrogates					
FID - 4-Bromofluorobenzene	94.0		70.0-130	%	1
PID - 4-Bromofluorobenzene	99.0		70.0-130	%	1

Batch Information

Analytical Batch: **VGC1035**
Analytical Method: **MADEP VPH**
Instrument: **GC4**
Analyst: **LMC**
Analytical Date/Time: **02/28/2011 13:44**

Prep Batch: **VXX1081**
Prep Method: **SW-846 5035 VPH prep**
Prep Date/Time: **02/28/2011 11:20**
Prep Initial Wt./Vol.: **5.32 g**
Prep Extract Vol: **5 mL**

Print Date: 03/17/2011

N.C. Certification # 481

Results of **SW-2**

Client Sample ID: **SW-2**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158004-C
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 92

Results by **SW-846 8260B**

Parameter	Result	Qual	LOQ/CL	Units	DF
Chloromethane	ND		5.37	ug/Kg	1
Vinyl chloride	ND		5.37	ug/Kg	1
Bromomethane	ND		5.37	ug/Kg	1
Chloroethane	ND		5.37	ug/Kg	1
Trichlorofluoromethane	ND		5.37	ug/Kg	1
1,1-Dichloroethene	ND		5.37	ug/Kg	1
Acetone	ND		53.7	ug/Kg	1
Methylene chloride	ND		21.5	ug/Kg	1
trans-1,2-Dichloroethene	ND		5.37	ug/Kg	1
tert-Butyl methyl ether (MTBE)	ND		5.37	ug/Kg	1
1,1-Dichloroethane	ND		5.37	ug/Kg	1
Diisopropyl Ether	ND		5.37	ug/Kg	1
Chloroprene	ND		5.37	ug/Kg	1
2,2-Dichloropropane	ND		5.37	ug/Kg	1
cis-1,2-Dichloroethene	ND		5.37	ug/Kg	1
2-Butanone	ND		26.9	ug/Kg	1
Bromochloromethane	ND		5.37	ug/Kg	1
Chloroform	ND		5.37	ug/Kg	1
1,1,1-Trichloroethane	ND		5.37	ug/Kg	1
Carbon tetrachloride	ND		5.37	ug/Kg	1
1,1-Dichloropropene	ND		5.37	ug/Kg	1
Benzene	ND		5.37	ug/Kg	1
1,2-Dichloroethane	ND		5.37	ug/Kg	1
Trichloroethene	ND		5.37	ug/Kg	1
1,2-Dichloropropane	ND		5.37	ug/Kg	1
Dibromomethane	ND		5.37	ug/Kg	1
Bromodichloromethane	ND		5.37	ug/Kg	1
cis-1,3-Dichloropropene	ND		5.37	ug/Kg	1
4-Methyl-2-pentanone	ND		13.4	ug/Kg	1
Toluene	ND		5.37	ug/Kg	1
Methyl iodide	ND		5.37	ug/Kg	1
trans-1,3-Dichloropropene	ND		5.37	ug/Kg	1
Carbon disulfide	ND		5.37	ug/Kg	1
1,1,2-Trichloroethane	ND		5.37	ug/Kg	1
Tetrachloroethene	ND		5.37	ug/Kg	1
1,3-Dichloropropane	ND		5.37	ug/Kg	1
2-Hexanone	ND		13.4	ug/Kg	1
Dibromochloromethane	ND		5.37	ug/Kg	1
1,2-Dibromoethane	ND		5.37	ug/Kg	1
Chlorobenzene	ND		5.37	ug/Kg	1
1,1,1,2-Tetrachloroethane	ND		5.37	ug/Kg	1
Bromoform	ND		5.37	ug/Kg	1
Bromobenzene	ND		5.37	ug/Kg	1

Print Date: 03/17/2011

N.C. Certification # 481

Results of **SW-2**

Client Sample ID: **SW-2**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158004-C
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 92

Results by **SW-846 8260B**

Parameter	Result	Qual	LOQ/CL	Units	DF
1,1,2,2-Tetrachloroethane	ND		5.37	ug/Kg	1
1,2,3-Trichloropropane	ND		5.37	ug/Kg	1
Ethyl Benzene	ND		5.37	ug/Kg	1
m,p-Xylene	ND		10.7	ug/Kg	1
Styrene	ND		5.37	ug/Kg	1
o-Xylene	ND		5.37	ug/Kg	1
Isopropylbenzene (Cumene)	ND		5.37	ug/Kg	1
n-Propylbenzene	ND		5.37	ug/Kg	1
2-Chlorotoluene	ND		5.37	ug/Kg	1
4-Chlorotoluene	ND		5.37	ug/Kg	1
1,3,5-Trimethylbenzene	ND		5.37	ug/Kg	1
tert-Butylbenzene	ND		5.37	ug/Kg	1
1,2,4-Trimethylbenzene	ND		5.37	ug/Kg	1
sec-Butylbenzene	ND		5.37	ug/Kg	1
1,3-Dichlorobenzene	ND		5.37	ug/Kg	1
4-Isopropyltoluene	ND		5.37	ug/Kg	1
1,4-Dichlorobenzene	ND		5.37	ug/Kg	1
1,2-Dichlorobenzene	ND		5.37	ug/Kg	1
n-Butylbenzene	ND		5.37	ug/Kg	1
1,2-Dibromo-3-chloropropane	ND		32.2	ug/Kg	1
1,2,4-Trichlorobenzene	ND		5.37	ug/Kg	1
Hexachlorobutadiene	ND		5.37	ug/Kg	1
Naphthalene	ND		5.37	ug/Kg	1
trans-1,4-Dichloro-2-butene	ND		26.9	ug/Kg	1
1,2,3-Trichlorobenzene	ND		5.37	ug/Kg	1
Surrogates					
1,2-Dichloroethane-d4	128		55.0-173	%	1
Toluene d8	97.0		57.0-134	%	1
4-Bromofluorobenzene	101		23.0-141	%	1

Batch Information

Analytical Batch: **VMS1033**
Analytical Method: **SW-846 8260B**
Instrument: **MSD9**
Analyst: **DVO**
Analytical Date/Time: **02/25/2011 11:47**

Prep Batch: **VXX1057**
Prep Method: **SW-846 5035 SL**
Prep Date/Time: **02/25/2011 12:38**
Prep Initial Wt./Vol.: **5.05 g**
Prep Extract Vol: **5 mL**

Print Date: 03/17/2011

N.C. Certification # 481

Results of **SW-2**

Client Sample ID: **SW-2**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158004-A
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 92

Results by **MADEP EPH**

Parameter	Result	Qual	LOQ/CL	Units	DF
C11-C22 Aromatics	ND		15.2	mg/kg	1
C9-C18 Aliphatic Hydrocarbons	ND		5.43	mg/kg	1
C19-C36 Aliphatic Hydrocarbons	ND		7.27	mg/kg	1
Surrogates					
n-Tricosane	104		40.0-140	%	1
o-Terphenyl	100		40.0-140	%	1
2-Bromonaphthalene	149*		40.0-140	%	1
2-Fluorobiphenyl	129		40.0-140	%	1

Batch Information

Analytical Batch: **XGC1041**
Analytical Method: **MADEP EPH**
Instrument: **GC6**
Analyst: **MAH**
Analytical Date/Time: **02/28/2011 20:40**

Prep Batch: **XXX1053**
Prep Method: **SW-846 3541/8015 EPH**
Prep Date/Time: **02/25/2011 09:01**
Prep Initial Wt./Vol.: **12 g**
Prep Extract Vol: **10 mL**

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Results of **SW-2**

Client Sample ID: **SW-2**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158004-A
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 92

Results by **SW-846 8270D**

Parameter	Result	Qual	LOQ/CL	Units	DF
Phenol	ND		343	ug/Kg	1
Bis(2-Chloroethyl)ether	ND		343	ug/Kg	1
2-Chlorophenol	ND		343	ug/Kg	1
1,3-Dichlorobenzene	ND		343	ug/Kg	1
1,4-Dichlorobenzene	ND		343	ug/Kg	1
1,2-Dichlorobenzene	ND		343	ug/Kg	1
2-Methylphenol	ND		343	ug/Kg	1
3 and/or 4-Methylphenol	ND		343	ug/Kg	1
Bis(2-Chloroisopropyl)ether	ND		343	ug/Kg	1
n-Nitrosodi-n-propylamine	ND		343	ug/Kg	1
Hexachloroethane	ND		343	ug/Kg	1
Nitrobenzene	ND		343	ug/Kg	1
Isophorone	ND		343	ug/Kg	1
2-Nitrophenol	ND		343	ug/Kg	1
2,4-Dimethylphenol	ND		343	ug/Kg	1
Bis(2-Chloroethoxy)methane	ND		343	ug/Kg	1
Benzoic acid	ND		343	ug/Kg	1
2,4-Dichlorophenol	ND		343	ug/Kg	1
1,2,4-Trichlorobenzene	ND		343	ug/Kg	1
Naphthalene	ND		343	ug/Kg	1
4-Chloroaniline	ND		343	ug/Kg	1
Hexachlorobutadiene	ND		343	ug/Kg	1
4-Chloro-3-methylphenol	ND		343	ug/Kg	1
2-Methylnaphthalene	ND		343	ug/Kg	1
Hexachlorocyclopentadiene	ND		343	ug/Kg	1
2,4,5-Trichlorophenol	ND		343	ug/Kg	1
2,4,6-Trichlorophenol	ND		343	ug/Kg	1
2-Chloronaphthalene	ND		343	ug/Kg	1
2-Nitroaniline	ND		343	ug/Kg	1
3-Nitroaniline	ND		343	ug/Kg	1
Dimethyl phthalate	ND		343	ug/Kg	1
2,6-Dinitrotoluene	ND		343	ug/Kg	1
Acenaphthene	ND		343	ug/Kg	1
2,4-Dinitrophenol	ND		685	ug/Kg	1
4-Nitrophenol	ND		343	ug/Kg	1
Dibenzofuran	ND		343	ug/Kg	1
2,4-Dinitrotoluene	ND		343	ug/Kg	1
Fluorene	ND		343	ug/Kg	1
Diethyl phthalate	ND		343	ug/Kg	1
4-Chlorophenyl phenyl ether	ND		343	ug/Kg	1
4-Nitroaniline	ND		343	ug/Kg	1
4,6-Dinitro-2-methylphenol	ND		343	ug/Kg	1
Diphenylamine	ND		343	ug/Kg	1

Print Date: 03/17/2011

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Results of **SW-2**

Client Sample ID: **SW-2**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158004-A
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 92

Results by **SW-846 8270D**

Parameter	Result	Qual	LOQ/CL	Units	DF
4-Bromophenyl phenyl ether	ND		343	ug/Kg	1
Hexachlorobenzene	ND		343	ug/Kg	1
Pentachlorophenol	ND		343	ug/Kg	1
Phenanthrene	ND		343	ug/Kg	1
Anthracene	ND		343	ug/Kg	1
Di-n-butyl phthalate	ND		343	ug/Kg	1
Fluoranthene	ND		343	ug/Kg	1
Pyrene	ND		343	ug/Kg	1
Butyl benzyl phthalate	ND		343	ug/Kg	1
Benzo(a)anthracene	ND		343	ug/Kg	1
3,3'-Dichlorobenzidine	ND		343	ug/Kg	1
Chrysene	ND		343	ug/Kg	1
Bis(2-Ethylhexyl)phthalate	ND		343	ug/Kg	1
Di-n-octyl phthalate	ND		343	ug/Kg	1
Benzo(b)fluoranthene	ND		343	ug/Kg	1
Benzo(k)fluoranthene	ND		343	ug/Kg	1
Benzo(a)pyrene	ND		343	ug/Kg	1
Indeno(1,2,3-cd)pyrene	ND		343	ug/Kg	1
Dibenz(a,h)anthracene	ND		343	ug/Kg	1
Benzo(g,h,i)perylene	ND		343	ug/Kg	1
Acenaphthylene	ND		343	ug/Kg	1
Surrogates					
2-Fluorophenol	71.0		42.0-123	%	1
Phenol-d6	70.0		48.0-125	%	1
Nitrobenzene-d5	79.0		46.0-117	%	1
2-Fluorobiphenyl	68.0		48.0-123	%	1
2,4,6-Tribromophenol	58.0		41.0-129	%	1
Terphenyl-d14	75.0		44.0-140	%	1

Batch Information

Analytical Batch: **XMS1014**
Analytical Method: **SW-846 8270D**
Instrument: **MSD10**
Analyst: **CMP**
Analytical Date/Time: **02/24/2011 20:20**

Prep Batch: **XXX1045**
Prep Method: **SW-846 3541**
Prep Date/Time: **02/24/2011 10:20**
Prep Initial Wt./Vol.: **31.66 g**
Prep Extract Vol: **10 mL**

Print Date: 03/17/2011

N.C. Certification # 481

Results of **SW-3**

Client Sample ID: **SW-3**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158005-F
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 93

Results by **MADEP VPH**

Parameter	Result	Qual	LOQ/CL	Units	DF
C5-C8 Aliphatic	ND		2.60	mg/kg	1
C9-C12 Aliphatic	**3.98**		1.73	mg/kg	1
C9-C10 Aromatic	**3.41**		0.865	mg/kg	1
Surrogates					
FID - 4-Bromofluorobenzene	95.0		70.0-130	%	1
PID - 4-Bromofluorobenzene	97.0		70.0-130	%	1

Batch Information

Analytical Batch: **VGC1035**
Analytical Method: **MADEP VPH**
Instrument: **GC4**
Analyst: **LMC**
Analytical Date/Time: **02/28/2011 14:11**

Prep Batch: **VXX1081**
Prep Method: **SW-846 5035 VPH prep**
Prep Date/Time: **02/28/2011 11:20**
Prep Initial Wt./Vol.: **4.97 g**
Prep Extract Vol: **5 mL**

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Results of **SW-3**

Client Sample ID: **SW-3**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158005-C
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 93

Results by **SW-846 8260B**

Parameter	Result	Qual	LOQ/CL	Units	DF
Chloromethane	ND		6.01	ug/Kg	1
Vinyl chloride	ND		6.01	ug/Kg	1
Bromomethane	ND		6.01	ug/Kg	1
Chloroethane	ND		6.01	ug/Kg	1
Trichlorofluoromethane	ND		6.01	ug/Kg	1
1,1-Dichloroethene	ND		6.01	ug/Kg	1
Acetone	ND		60.1	ug/Kg	1
Methylene chloride	ND		24.0	ug/Kg	1
trans-1,2-Dichloroethene	ND		6.01	ug/Kg	1
tert-Butyl methyl ether (MTBE)	ND		6.01	ug/Kg	1
1,1-Dichloroethane	ND		6.01	ug/Kg	1
Diisopropyl Ether	ND		6.01	ug/Kg	1
Chloroprene	ND		6.01	ug/Kg	1
2,2-Dichloropropane	ND		6.01	ug/Kg	1
cis-1,2-Dichloroethene	ND		6.01	ug/Kg	1
2-Butanone	ND		30.1	ug/Kg	1
Bromochloromethane	ND		6.01	ug/Kg	1
Chloroform	ND		6.01	ug/Kg	1
1,1,1-Trichloroethane	ND		6.01	ug/Kg	1
Carbon tetrachloride	ND		6.01	ug/Kg	1
1,1-Dichloropropene	ND		6.01	ug/Kg	1
Benzene	ND		6.01	ug/Kg	1
1,2-Dichloroethane	ND		6.01	ug/Kg	1
Trichloroethene	ND		6.01	ug/Kg	1
1,2-Dichloropropane	ND		6.01	ug/Kg	1
Dibromomethane	ND		6.01	ug/Kg	1
Bromodichloromethane	ND		6.01	ug/Kg	1
cis-1,3-Dichloropropene	ND		6.01	ug/Kg	1
4-Methyl-2-pentanone	ND		15.0	ug/Kg	1
Toluene	ND		6.01	ug/Kg	1
Methyl iodide	ND		6.01	ug/Kg	1
trans-1,3-Dichloropropene	ND		6.01	ug/Kg	1
Carbon disulfide	ND		6.01	ug/Kg	1
1,1,2-Trichloroethane	ND		6.01	ug/Kg	1
Tetrachloroethene	ND		6.01	ug/Kg	1
1,3-Dichloropropane	ND		6.01	ug/Kg	1
2-Hexanone	ND		15.0	ug/Kg	1
Dibromochloromethane	ND		6.01	ug/Kg	1
1,2-Dibromoethane	ND		6.01	ug/Kg	1
Chlorobenzene	ND		6.01	ug/Kg	1
1,1,1,2-Tetrachloroethane	ND		6.01	ug/Kg	1
Bromoform	ND		6.01	ug/Kg	1
Bromobenzene	ND		6.01	ug/Kg	1

Print Date: 03/17/2011

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Results of **SW-3**

Client Sample ID: **SW-3**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158005-C
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 93

Results by **SW-846 8260B**

Parameter	Result	Qual	LOQ/CL	Units	DF
1,1,2,2-Tetrachloroethane	ND		6.01	ug/Kg	1
1,2,3-Trichloropropane	ND		6.01	ug/Kg	1
Ethyl Benzene	ND		6.01	ug/Kg	1
m,p-Xylene	ND		12.0	ug/Kg	1
Styrene	ND		6.01	ug/Kg	1
o-Xylene	ND		6.01	ug/Kg	1
Isopropylbenzene (Cumene)	ND		6.01	ug/Kg	1
n-Propylbenzene	ND		6.01	ug/Kg	1
2-Chlorotoluene	ND		6.01	ug/Kg	1
4-Chlorotoluene	ND		6.01	ug/Kg	1
1,3,5-Trimethylbenzene	ND		6.01	ug/Kg	1
tert-Butylbenzene	ND		6.01	ug/Kg	1
1,2,4-Trimethylbenzene	ND		6.01	ug/Kg	1
sec-Butylbenzene	ND		6.01	ug/Kg	1
1,3-Dichlorobenzene	ND		6.01	ug/Kg	1
4-Isopropyltoluene	ND		6.01	ug/Kg	1
1,4-Dichlorobenzene	ND		6.01	ug/Kg	1
1,2-Dichlorobenzene	ND		6.01	ug/Kg	1
n-Butylbenzene	ND		6.01	ug/Kg	1
1,2-Dibromo-3-chloropropane	ND		36.1	ug/Kg	1
1,2,4-Trichlorobenzene	ND		6.01	ug/Kg	1
Hexachlorobutadiene	ND		6.01	ug/Kg	1
Naphthalene	ND		6.01	ug/Kg	1
trans-1,4-Dichloro-2-butene	ND		30.1	ug/Kg	1
1,2,3-Trichlorobenzene	ND		6.01	ug/Kg	1
Surrogates					
1,2-Dichloroethane-d4	132		55.0-173	%	1
Toluene d8	93.0		57.0-134	%	1
4-Bromofluorobenzene	100		23.0-141	%	1

Batch Information

Analytical Batch: **VMS1033**
Analytical Method: **SW-846 8260B**
Instrument: **MSD9**
Analyst: **DVO**
Analytical Date/Time: **02/25/2011 12:16**

Prep Batch: **VXX1057**
Prep Method: **SW-846 5035 SL**
Prep Date/Time: **02/25/2011 12:38**
Prep Initial Wt./Vol.: **4.47 g**
Prep Extract Vol: **5 mL**

Print Date: 03/17/2011

N.C. Certification # 481

Results of **SW-3**

Client Sample ID: **SW-3**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158005-A
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 93

Results by **MADEP EPH**

Parameter	Result	Qual	LOQ/CL	Units	DF
C11-C22 Aromatics	ND		15.4	mg/kg	1
C9-C18 Aliphatic Hydrocarbons	ND		5.49	mg/kg	1
C19-C36 Aliphatic Hydrocarbons	ND		7.36	mg/kg	1
Surrogates					
n-Tricosane	69.0		40.0-140	%	1
o-Terphenyl	96.0		40.0-140	%	1
2-Bromonaphthalene	139		40.0-140	%	1
2-Fluorobiphenyl	123		40.0-140	%	1

Batch Information

Analytical Batch: **XGC1041**
Analytical Method: **MADEP EPH**
Instrument: **GC6**
Analyst: **DTF**
Analytical Date/Time: **02/28/2011 20:12**

Prep Batch: **XXX1053**
Prep Method: **SW-846 3541/8015 EPH**
Prep Date/Time: **02/25/2011 09:01**
Prep Initial Wt./Vol.: **11.74 g**
Prep Extract Vol: **10 mL**

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Results of **SW-3**

Client Sample ID: **SW-3**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158005-A
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 93

Results by **SW-846 8270D**

Parameter	Result	Qual	LOQ/CL	Units	DF
Phenol	ND		333	ug/Kg	1
Bis(2-Chloroethyl)ether	ND		333	ug/Kg	1
2-Chlorophenol	ND		333	ug/Kg	1
1,3-Dichlorobenzene	ND		333	ug/Kg	1
1,4-Dichlorobenzene	ND		333	ug/Kg	1
1,2-Dichlorobenzene	ND		333	ug/Kg	1
2-Methylphenol	ND		333	ug/Kg	1
3 and/or 4-Methylphenol	ND		333	ug/Kg	1
Bis(2-Chloroisopropyl)ether	ND		333	ug/Kg	1
n-Nitrosodi-n-propylamine	ND		333	ug/Kg	1
Hexachloroethane	ND		333	ug/Kg	1
Nitrobenzene	ND		333	ug/Kg	1
Isophorone	ND		333	ug/Kg	1
2-Nitrophenol	ND		333	ug/Kg	1
2,4-Dimethylphenol	ND		333	ug/Kg	1
Bis(2-Chloroethoxy)methane	ND		333	ug/Kg	1
Benzoic acid	ND		333	ug/Kg	1
2,4-Dichlorophenol	ND		333	ug/Kg	1
1,2,4-Trichlorobenzene	ND		333	ug/Kg	1
Naphthalene	ND		333	ug/Kg	1
4-Chloroaniline	ND		333	ug/Kg	1
Hexachlorobutadiene	ND		333	ug/Kg	1
4-Chloro-3-methylphenol	ND		333	ug/Kg	1
2-Methylnaphthalene	ND		333	ug/Kg	1
Hexachlorocyclopentadiene	ND		333	ug/Kg	1
2,4,5-Trichlorophenol	ND		333	ug/Kg	1
2,4,6-Trichlorophenol	ND		333	ug/Kg	1
2-Chloronaphthalene	ND		333	ug/Kg	1
2-Nitroaniline	ND		333	ug/Kg	1
3-Nitroaniline	ND		333	ug/Kg	1
Dimethyl phthalate	ND		333	ug/Kg	1
2,6-Dinitrotoluene	ND		333	ug/Kg	1
Acenaphthene	ND		333	ug/Kg	1
2,4-Dinitrophenol	ND		665	ug/Kg	1
4-Nitrophenol	ND		333	ug/Kg	1
Dibenzofuran	ND		333	ug/Kg	1
2,4-Dinitrotoluene	ND		333	ug/Kg	1
Fluorene	ND		333	ug/Kg	1
Diethyl phthalate	ND		333	ug/Kg	1
4-Chlorophenyl phenyl ether	ND		333	ug/Kg	1
4-Nitroaniline	ND		333	ug/Kg	1
4,6-Dinitro-2-methylphenol	ND		333	ug/Kg	1
Diphenylamine	ND		333	ug/Kg	1

Print Date: 03/17/2011

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Results of **SW-3**

Client Sample ID: **SW-3**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158005-A
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 93

Results by **SW-846 8270D**

Parameter	Result	Qual	LOQ/CL	Units	DF
4-Bromophenyl phenyl ether	ND		333	ug/Kg	1
Hexachlorobenzene	ND		333	ug/Kg	1
Pentachlorophenol	ND		333	ug/Kg	1
Phenanthrene	ND		333	ug/Kg	1
Anthracene	ND		333	ug/Kg	1
Di-n-butyl phthalate	ND		333	ug/Kg	1
Fluoranthene	ND		333	ug/Kg	1
Pyrene	ND		333	ug/Kg	1
Butyl benzyl phthalate	ND		333	ug/Kg	1
Benzo(a)anthracene	ND		333	ug/Kg	1
3,3'-Dichlorobenzidine	ND		333	ug/Kg	1
Chrysene	ND		333	ug/Kg	1
Bis(2-Ethylhexyl)phthalate	ND		333	ug/Kg	1
Di-n-octyl phthalate	ND		333	ug/Kg	1
Benzo(b)fluoranthene	ND		333	ug/Kg	1
Benzo(k)fluoranthene	ND		333	ug/Kg	1
Benzo(a)pyrene	ND		333	ug/Kg	1
Indeno(1,2,3-cd)pyrene	ND		333	ug/Kg	1
Dibenz(a,h)anthracene	ND		333	ug/Kg	1
Benzo(g,h,i)perylene	ND		333	ug/Kg	1
Acenaphthylene	ND		333	ug/Kg	1
Surrogates					
2-Fluorophenol	75.0		42.0-123	%	1
Phenol-d6	72.0		48.0-125	%	1
Nitrobenzene-d5	78.0		46.0-117	%	1
2-Fluorobiphenyl	70.0		48.0-123	%	1
2,4,6-Tribromophenol	56.0		41.0-129	%	1
Terphenyl-d14	78.0		44.0-140	%	1

Batch Information

Analytical Batch: **XMS1015**
Analytical Method: **SW-846 8270D**
Instrument: **MSD10**
Analyst: **CMP**
Analytical Date/Time: **02/25/2011 09:47**

Prep Batch: **XXX1045**
Prep Method: **SW-846 3541**
Prep Date/Time: **02/24/2011 10:20**
Prep Initial Wt./Vol.: **32.34 g**
Prep Extract Vol: **10 mL**

Print Date: 03/17/2011

N.C. Certification # 481

Results of **SW-4**

Client Sample ID: **SW-4**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158006-F
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 91

Results by **MADEP VPH**

Parameter	Result	Qual	LOQ/CL	Units	DF
C5-C8 Aliphatic	ND		2.47	mg/kg	1
C9-C12 Aliphatic	**2.30**		1.64	mg/kg	1
C9-C10 Aromatic	**0.958**		0.822	mg/kg	1
Surrogates					
FID - 4-Bromofluorobenzene	94.0		70.0-130	%	1
PID - 4-Bromofluorobenzene	93.0		70.0-130	%	1

Batch Information

Analytical Batch: **VGC1035**
Analytical Method: **MADEP VPH**
Instrument: **GC4**
Analyst: **LMC**
Analytical Date/Time: **02/28/2011 14:38**

Prep Batch: **VXX1081**
Prep Method: **SW-846 5035 VPH prep**
Prep Date/Time: **02/28/2011 11:20**
Prep Initial Wt./Vol.: **5.33 g**
Prep Extract Vol: **5 mL**

Print Date: 03/17/2011

N.C. Certification # 481

Results of **SW-4**

Client Sample ID: **SW-4**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158006-C
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 91

Results by **SW-846 8260B**

Parameter	Result	Qual	LOQ/CL	Units	DF
Chloromethane	ND		5.25	ug/Kg	1
Vinyl chloride	ND		5.25	ug/Kg	1
Bromomethane	ND		5.25	ug/Kg	1
Chloroethane	ND		5.25	ug/Kg	1
Trichlorofluoromethane	ND		5.25	ug/Kg	1
1,1-Dichloroethene	ND		5.25	ug/Kg	1
Acetone	ND		52.5	ug/Kg	1
Methylene chloride	ND		21.0	ug/Kg	1
trans-1,2-Dichloroethene	ND		5.25	ug/Kg	1
tert-Butyl methyl ether (MTBE)	ND		5.25	ug/Kg	1
1,1-Dichloroethane	ND		5.25	ug/Kg	1
Diisopropyl Ether	ND		5.25	ug/Kg	1
Chloroprene	ND		5.25	ug/Kg	1
2,2-Dichloropropane	ND		5.25	ug/Kg	1
cis-1,2-Dichloroethene	ND		5.25	ug/Kg	1
2-Butanone	ND		26.2	ug/Kg	1
Bromochloromethane	ND		5.25	ug/Kg	1
Chloroform	ND		5.25	ug/Kg	1
1,1,1-Trichloroethane	ND		5.25	ug/Kg	1
Carbon tetrachloride	ND		5.25	ug/Kg	1
1,1-Dichloropropene	ND		5.25	ug/Kg	1
Benzene	ND		5.25	ug/Kg	1
1,2-Dichloroethane	ND		5.25	ug/Kg	1
Trichloroethene	ND		5.25	ug/Kg	1
1,2-Dichloropropane	ND		5.25	ug/Kg	1
Dibromomethane	ND		5.25	ug/Kg	1
Bromodichloromethane	ND		5.25	ug/Kg	1
cis-1,3-Dichloropropene	ND		5.25	ug/Kg	1
4-Methyl-2-pentanone	ND		13.1	ug/Kg	1
Toluene	ND		5.25	ug/Kg	1
Methyl iodide	ND		5.25	ug/Kg	1
trans-1,3-Dichloropropene	ND		5.25	ug/Kg	1
Carbon disulfide	ND		5.25	ug/Kg	1
1,1,2-Trichloroethane	ND		5.25	ug/Kg	1
Tetrachloroethene	ND		5.25	ug/Kg	1
1,3-Dichloropropane	ND		5.25	ug/Kg	1
2-Hexanone	ND		13.1	ug/Kg	1
Dibromochloromethane	ND		5.25	ug/Kg	1
1,2-Dibromoethane	ND		5.25	ug/Kg	1
Chlorobenzene	ND		5.25	ug/Kg	1
1,1,1,2-Tetrachloroethane	ND		5.25	ug/Kg	1
Bromoform	ND		5.25	ug/Kg	1
Bromobenzene	ND		5.25	ug/Kg	1

Print Date: 03/17/2011

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Results of **SW-4**

Client Sample ID: **SW-4**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158006-C
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 91

Results by **SW-846 8260B**

Parameter	Result	Qual	LOQ/CL	Units	DF
1,1,2,2-Tetrachloroethane	ND		5.25	ug/Kg	1
1,2,3-Trichloropropane	ND		5.25	ug/Kg	1
Ethyl Benzene	ND		5.25	ug/Kg	1
m,p-Xylene	ND		10.5	ug/Kg	1
Styrene	ND		5.25	ug/Kg	1
o-Xylene	ND		5.25	ug/Kg	1
Isopropylbenzene (Cumene)	ND		5.25	ug/Kg	1
n-Propylbenzene	ND		5.25	ug/Kg	1
2-Chlorotoluene	ND		5.25	ug/Kg	1
4-Chlorotoluene	ND		5.25	ug/Kg	1
1,3,5-Trimethylbenzene	ND		5.25	ug/Kg	1
tert-Butylbenzene	ND		5.25	ug/Kg	1
1,2,4-Trimethylbenzene	ND		5.25	ug/Kg	1
sec-Butylbenzene	ND		5.25	ug/Kg	1
1,3-Dichlorobenzene	ND		5.25	ug/Kg	1
4-Isopropyltoluene	ND		5.25	ug/Kg	1
1,4-Dichlorobenzene	ND		5.25	ug/Kg	1
1,2-Dichlorobenzene	ND		5.25	ug/Kg	1
n-Butylbenzene	ND		5.25	ug/Kg	1
1,2-Dibromo-3-chloropropane	ND		31.5	ug/Kg	1
1,2,4-Trichlorobenzene	ND		5.25	ug/Kg	1
Hexachlorobutadiene	ND		5.25	ug/Kg	1
Naphthalene	ND		5.25	ug/Kg	1
trans-1,4-Dichloro-2-butene	ND		26.2	ug/Kg	1
1,2,3-Trichlorobenzene	ND		5.25	ug/Kg	1
Surrogates					
1,2-Dichloroethane-d4	125		55.0-173	%	1
Toluene d8	96.0		57.0-134	%	1
4-Bromofluorobenzene	103		23.0-141	%	1

Batch Information

Analytical Batch: **VMS1033**
Analytical Method: **SW-846 8260B**
Instrument: **MSD9**
Analyst: **DVO**
Analytical Date/Time: **02/25/2011 12:45**

Prep Batch: **VXX1057**
Prep Method: **SW-846 5035 SL**
Prep Date/Time: **02/25/2011 12:38**
Prep Initial Wt./Vol.: **5.22 g**
Prep Extract Vol: **5 mL**

Print Date: 03/17/2011

N.C. Certification # 481

Results of **SW-4**

Client Sample ID: **SW-4**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158006-A
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 91

Results by **MADEP EPH**

Parameter	Result	Qual	LOQ/CL	Units	DF
C11-C22 Aromatics	ND		15.5	mg/kg	1
C9-C18 Aliphatic Hydrocarbons	ND		5.55	mg/kg	1
C19-C36 Aliphatic Hydrocarbons	ND		7.44	mg/kg	1
Surrogates					
n-Tricosane	94.0		40.0-140	%	1
o-Terphenyl	73.0		40.0-140	%	1
2-Bromonaphthalene	134		40.0-140	%	1
2-Fluorobiphenyl	118		40.0-140	%	1

Batch Information

Analytical Batch: **XGC1041**
Analytical Method: **MADEP EPH**
Instrument: **GC6**
Analyst: **DTF**
Analytical Date/Time: **02/28/2011 22:03**

Prep Batch: **XXX1053**
Prep Method: **SW-846 3541/8015 EPH**
Prep Date/Time: **02/25/2011 09:01**
Prep Initial Wt./Vol.: **11.84 g**
Prep Extract Vol: **10 mL**

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Results of **SW-4**

Client Sample ID: **SW-4**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158006-A
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 91

Results by **SW-846 8270D**

Parameter	Result	Qual	LOQ/CL	Units	DF
Phenol	ND		344	ug/Kg	1
Bis(2-Chloroethyl)ether	ND		344	ug/Kg	1
2-Chlorophenol	ND		344	ug/Kg	1
1,3-Dichlorobenzene	ND		344	ug/Kg	1
1,4-Dichlorobenzene	ND		344	ug/Kg	1
1,2-Dichlorobenzene	ND		344	ug/Kg	1
2-Methylphenol	ND		344	ug/Kg	1
3 and/or 4-Methylphenol	ND		344	ug/Kg	1
Bis(2-Chloroisopropyl)ether	ND		344	ug/Kg	1
n-Nitrosodi-n-propylamine	ND		344	ug/Kg	1
Hexachloroethane	ND		344	ug/Kg	1
Nitrobenzene	ND		344	ug/Kg	1
Isophorone	ND		344	ug/Kg	1
2-Nitrophenol	ND		344	ug/Kg	1
2,4-Dimethylphenol	ND		344	ug/Kg	1
Bis(2-Chloroethoxy)methane	ND		344	ug/Kg	1
Benzoic acid	ND		344	ug/Kg	1
2,4-Dichlorophenol	ND		344	ug/Kg	1
1,2,4-Trichlorobenzene	ND		344	ug/Kg	1
Naphthalene	ND		344	ug/Kg	1
4-Chloroaniline	ND		344	ug/Kg	1
Hexachlorobutadiene	ND		344	ug/Kg	1
4-Chloro-3-methylphenol	ND		344	ug/Kg	1
2-Methylnaphthalene	ND		344	ug/Kg	1
Hexachlorocyclopentadiene	ND		344	ug/Kg	1
2,4,5-Trichlorophenol	ND		344	ug/Kg	1
2,4,6-Trichlorophenol	ND		344	ug/Kg	1
2-Chloronaphthalene	ND		344	ug/Kg	1
2-Nitroaniline	ND		344	ug/Kg	1
3-Nitroaniline	ND		344	ug/Kg	1
Dimethyl phthalate	ND		344	ug/Kg	1
2,6-Dinitrotoluene	ND		344	ug/Kg	1
Acenaphthene	ND		344	ug/Kg	1
2,4-Dinitrophenol	ND		687	ug/Kg	1
4-Nitrophenol	ND		344	ug/Kg	1
Dibenzofuran	ND		344	ug/Kg	1
2,4-Dinitrotoluene	ND		344	ug/Kg	1
Fluorene	ND		344	ug/Kg	1
Diethyl phthalate	ND		344	ug/Kg	1
4-Chlorophenyl phenyl ether	ND		344	ug/Kg	1
4-Nitroaniline	ND		344	ug/Kg	1
4,6-Dinitro-2-methylphenol	ND		344	ug/Kg	1
Diphenylamine	ND		344	ug/Kg	1

Print Date: 03/17/2011

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Results of **SW-4**

Client Sample ID: **SW-4**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158006-A
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 91

Results by **SW-846 8270D**

Parameter	Result	Qual	LOQ/CL	Units	DF
4-Bromophenyl phenyl ether	ND		344	ug/Kg	1
Hexachlorobenzene	ND		344	ug/Kg	1
Pentachlorophenol	ND		344	ug/Kg	1
Phenanthrene	ND		344	ug/Kg	1
Anthracene	ND		344	ug/Kg	1
Di-n-butyl phthalate	ND		344	ug/Kg	1
Fluoranthene	ND		344	ug/Kg	1
Pyrene	ND		344	ug/Kg	1
Butyl benzyl phthalate	ND		344	ug/Kg	1
Benzo(a)anthracene	ND		344	ug/Kg	1
3,3'-Dichlorobenzidine	ND		344	ug/Kg	1
Chrysene	ND		344	ug/Kg	1
Bis(2-Ethylhexyl)phthalate	ND		344	ug/Kg	1
Di-n-octyl phthalate	ND		344	ug/Kg	1
Benzo(b)fluoranthene	ND		344	ug/Kg	1
Benzo(k)fluoranthene	ND		344	ug/Kg	1
Benzo(a)pyrene	ND		344	ug/Kg	1
Indeno(1,2,3-cd)pyrene	ND		344	ug/Kg	1
Dibenz(a,h)anthracene	ND		344	ug/Kg	1
Benzo(g,h,i)perylene	ND		344	ug/Kg	1
Acenaphthylene	ND		344	ug/Kg	1
Surrogates					
2-Fluorophenol	73.0		42.0-123	%	1
Phenol-d6	70.0		48.0-125	%	1
Nitrobenzene-d5	78.0		46.0-117	%	1
2-Fluorobiphenyl	67.0		48.0-123	%	1
2,4,6-Tribromophenol	58.0		41.0-129	%	1
Terphenyl-d14	74.0		44.0-140	%	1

Batch Information

Analytical Batch: **XMS1015**
Analytical Method: **SW-846 8270D**
Instrument: **MSD10**
Analyst: **CMP**
Analytical Date/Time: **02/25/2011 12:07**

Prep Batch: **XXX1045**
Prep Method: **SW-846 3541**
Prep Date/Time: **02/24/2011 10:20**
Prep Initial Wt./Vol.: **31.89 g**
Prep Extract Vol: **10 mL**

Print Date: 03/17/2011

N.C. Certification # 481

Results of **Base-1**

Client Sample ID: **Base-1**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158007-F
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 94

Results by **MADEP VPH**

Parameter	Result	Qual	LOQ/CL	Units	DF
C5-C8 Aliphatic	ND		2.40	mg/kg	1
C9-C12 Aliphatic	ND		1.60	mg/kg	1
C9-C10 Aromatic	**0.887**		0.801	mg/kg	1
Surrogates					
FID - 4-Bromofluorobenzene	93.0		70.0-130	%	1
PID - 4-Bromofluorobenzene	91.0		70.0-130	%	1

Batch Information

Analytical Batch: **VGC1035**
Analytical Method: **MADEP VPH**
Instrument: **GC4**
Analyst: **LMC**
Analytical Date/Time: **02/28/2011 15:05**

Prep Batch: **VXX1081**
Prep Method: **SW-846 5035 VPH prep**
Prep Date/Time: **02/28/2011 11:20**
Prep Initial Wt./Vol.: **5.29 g**
Prep Extract Vol: **5 mL**

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Results of **Base-1**

Client Sample ID: **Base-1**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158007-C
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 94

Results by **SW-846 8260B**

Parameter	Result	Qual	LOQ/CL	Units	DF
Chloromethane	ND		4.92	ug/Kg	1
Vinyl chloride	ND		4.92	ug/Kg	1
Bromomethane	ND		4.92	ug/Kg	1
Chloroethane	ND		4.92	ug/Kg	1
Trichlorofluoromethane	ND		4.92	ug/Kg	1
1,1-Dichloroethene	ND		4.92	ug/Kg	1
Acetone	ND		49.2	ug/Kg	1
Methylene chloride	ND		19.7	ug/Kg	1
trans-1,2-Dichloroethene	ND		4.92	ug/Kg	1
tert-Butyl methyl ether (MTBE)	ND		4.92	ug/Kg	1
1,1-Dichloroethane	ND		4.92	ug/Kg	1
Diisopropyl Ether	ND		4.92	ug/Kg	1
Chloroprene	ND		4.92	ug/Kg	1
2,2-Dichloropropane	ND		4.92	ug/Kg	1
cis-1,2-Dichloroethene	ND		4.92	ug/Kg	1
2-Butanone	ND		24.6	ug/Kg	1
Bromochloromethane	ND		4.92	ug/Kg	1
Chloroform	ND		4.92	ug/Kg	1
1,1,1-Trichloroethane	ND		4.92	ug/Kg	1
Carbon tetrachloride	ND		4.92	ug/Kg	1
1,1-Dichloropropene	ND		4.92	ug/Kg	1
Benzene	ND		4.92	ug/Kg	1
1,2-Dichloroethane	ND		4.92	ug/Kg	1
Trichloroethene	ND		4.92	ug/Kg	1
1,2-Dichloropropane	ND		4.92	ug/Kg	1
Dibromomethane	ND		4.92	ug/Kg	1
Bromodichloromethane	ND		4.92	ug/Kg	1
cis-1,3-Dichloropropene	ND		4.92	ug/Kg	1
4-Methyl-2-pentanone	ND		12.3	ug/Kg	1
Toluene	ND		4.92	ug/Kg	1
Methyl iodide	ND		4.92	ug/Kg	1
trans-1,3-Dichloropropene	ND		4.92	ug/Kg	1
Carbon disulfide	ND		4.92	ug/Kg	1
1,1,2-Trichloroethane	ND		4.92	ug/Kg	1
Tetrachloroethene	ND		4.92	ug/Kg	1
1,3-Dichloropropane	ND		4.92	ug/Kg	1
2-Hexanone	ND		12.3	ug/Kg	1
Dibromochloromethane	ND		4.92	ug/Kg	1
1,2-Dibromoethane	ND		4.92	ug/Kg	1
Chlorobenzene	ND		4.92	ug/Kg	1
1,1,1,2-Tetrachloroethane	ND		4.92	ug/Kg	1
Bromoform	ND		4.92	ug/Kg	1
Bromobenzene	ND		4.92	ug/Kg	1

Print Date: 03/17/2011

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Results of **Base-1**

Client Sample ID: **Base-1**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158007-C
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 94

Results by **SW-846 8260B**

Parameter	Result	Qual	LOQ/CL	Units	DF
1,1,2,2-Tetrachloroethane	ND		4.92	ug/Kg	1
1,2,3-Trichloropropane	ND		4.92	ug/Kg	1
Ethyl Benzene	ND		4.92	ug/Kg	1
m,p-Xylene	ND		9.83	ug/Kg	1
Styrene	ND		4.92	ug/Kg	1
o-Xylene	ND		4.92	ug/Kg	1
Isopropylbenzene (Cumene)	ND		4.92	ug/Kg	1
n-Propylbenzene	ND		4.92	ug/Kg	1
2-Chlorotoluene	ND		4.92	ug/Kg	1
4-Chlorotoluene	ND		4.92	ug/Kg	1
1,3,5-Trimethylbenzene	ND		4.92	ug/Kg	1
tert-Butylbenzene	ND		4.92	ug/Kg	1
1,2,4-Trimethylbenzene	ND		4.92	ug/Kg	1
sec-Butylbenzene	ND		4.92	ug/Kg	1
1,3-Dichlorobenzene	ND		4.92	ug/Kg	1
4-Isopropyltoluene	ND		4.92	ug/Kg	1
1,4-Dichlorobenzene	ND		4.92	ug/Kg	1
1,2-Dichlorobenzene	ND		4.92	ug/Kg	1
n-Butylbenzene	ND		4.92	ug/Kg	1
1,2-Dibromo-3-chloropropane	ND		29.5	ug/Kg	1
1,2,4-Trichlorobenzene	ND		4.92	ug/Kg	1
Hexachlorobutadiene	ND		4.92	ug/Kg	1
Naphthalene	ND		4.92	ug/Kg	1
trans-1,4-Dichloro-2-butene	ND		24.6	ug/Kg	1
1,2,3-Trichlorobenzene	ND		4.92	ug/Kg	1
Surrogates					
1,2-Dichloroethane-d4	132		55.0-173	%	1
Toluene d8	89.0		57.0-134	%	1
4-Bromofluorobenzene	99.0		23.0-141	%	1

Batch Information

Analytical Batch: **VMS1033**
Analytical Method: **SW-846 8260B**
Instrument: **MSD9**
Analyst: **DVO**
Analytical Date/Time: **02/25/2011 13:14**

Prep Batch: **VXX1057**
Prep Method: **SW-846 5035 SL**
Prep Date/Time: **02/25/2011 12:38**
Prep Initial Wt./Vol.: **5.39 g**
Prep Extract Vol: **5 mL**

Print Date: 03/17/2011

N.C. Certification # 481

Results of **Base-1**

Client Sample ID: **Base-1**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158007-A
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 94

Results by **MADEP EPH**

Parameter	Result	Qual	LOQ/CL	Units	DF
C11-C22 Aromatics	ND		13.1	mg/kg	1
C9-C18 Aliphatic Hydrocarbons	ND		4.69	mg/kg	1
C19-C36 Aliphatic Hydrocarbons	**26.1**		6.29	mg/kg	1
Surrogates					
n-Tricosane	74.0		40.0-140	%	1
o-Terphenyl	97.0		40.0-140	%	1
2-Bromonaphthalene	136		40.0-140	%	1
2-Fluorobiphenyl	121		40.0-140	%	1

Batch Information

Analytical Batch: **XGC1041**
Analytical Method: **MADEP EPH**
Instrument: **GC6**
Analyst: **DTF**
Analytical Date/Time: **02/28/2011 22:05**

Prep Batch: **XXX1053**
Prep Method: **SW-846 3541/8015 EPH**
Prep Date/Time: **02/25/2011 09:01**
Prep Initial Wt./Vol.: **13.55 g**
Prep Extract Vol: **10 mL**

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Results of **Base-1**

Client Sample ID: **Base-1**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158007-A
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 94

Results by **SW-846 8270D**

Parameter	Result	Qual	LOQ/CL	Units	DF
Phenol	ND		328	ug/Kg	1
Bis(2-Chloroethyl)ether	ND		328	ug/Kg	1
2-Chlorophenol	ND		328	ug/Kg	1
1,3-Dichlorobenzene	ND		328	ug/Kg	1
1,4-Dichlorobenzene	ND		328	ug/Kg	1
1,2-Dichlorobenzene	ND		328	ug/Kg	1
2-Methylphenol	ND		328	ug/Kg	1
3 and/or 4-Methylphenol	ND		328	ug/Kg	1
Bis(2-Chloroisopropyl)ether	ND		328	ug/Kg	1
n-Nitrosodi-n-propylamine	ND		328	ug/Kg	1
Hexachloroethane	ND		328	ug/Kg	1
Nitrobenzene	ND		328	ug/Kg	1
Isophorone	ND		328	ug/Kg	1
2-Nitrophenol	ND		328	ug/Kg	1
2,4-Dimethylphenol	ND		328	ug/Kg	1
Bis(2-Chloroethoxy)methane	ND		328	ug/Kg	1
Benzoic acid	ND		328	ug/Kg	1
2,4-Dichlorophenol	ND		328	ug/Kg	1
1,2,4-Trichlorobenzene	ND		328	ug/Kg	1
Naphthalene	ND		328	ug/Kg	1
4-Chloroaniline	ND		328	ug/Kg	1
Hexachlorobutadiene	ND		328	ug/Kg	1
4-Chloro-3-methylphenol	ND		328	ug/Kg	1
2-Methylnaphthalene	ND		328	ug/Kg	1
Hexachlorocyclopentadiene	ND		328	ug/Kg	1
2,4,5-Trichlorophenol	ND		328	ug/Kg	1
2,4,6-Trichlorophenol	ND		328	ug/Kg	1
2-Chloronaphthalene	ND		328	ug/Kg	1
2-Nitroaniline	ND		328	ug/Kg	1
3-Nitroaniline	ND		328	ug/Kg	1
Dimethyl phthalate	ND		328	ug/Kg	1
2,6-Dinitrotoluene	ND		328	ug/Kg	1
Acenaphthene	ND		328	ug/Kg	1
2,4-Dinitrophenol	ND		654	ug/Kg	1
4-Nitrophenol	ND		328	ug/Kg	1
Dibenzofuran	ND		328	ug/Kg	1
2,4-Dinitrotoluene	ND		328	ug/Kg	1
Fluorene	ND		328	ug/Kg	1
Diethyl phthalate	ND		328	ug/Kg	1
4-Chlorophenyl phenyl ether	ND		328	ug/Kg	1
4-Nitroaniline	ND		328	ug/Kg	1
4,6-Dinitro-2-methylphenol	ND		328	ug/Kg	1
Diphenylamine	ND		328	ug/Kg	1

Print Date: 03/17/2011

N.C. Certification # 481

Results of **Base-1**

Client Sample ID: **Base-1**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158007-A
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 94

Results by **SW-846 8270D**

Parameter	Result	Qual	LOQ/CL	Units	DF
4-Bromophenyl phenyl ether	ND		328	ug/Kg	1
Hexachlorobenzene	ND		328	ug/Kg	1
Pentachlorophenol	ND		328	ug/Kg	1
Phenanthrene	ND		328	ug/Kg	1
Anthracene	ND		328	ug/Kg	1
Di-n-butyl phthalate	ND		328	ug/Kg	1
Fluoranthene	ND		328	ug/Kg	1
Pyrene	ND		328	ug/Kg	1
Butyl benzyl phthalate	ND		328	ug/Kg	1
Benzo(a)anthracene	ND		328	ug/Kg	1
3,3'-Dichlorobenzidine	ND		328	ug/Kg	1
Chrysene	ND		328	ug/Kg	1
Bis(2-Ethylhexyl)phthalate	ND		328	ug/Kg	1
Di-n-octyl phthalate	ND		328	ug/Kg	1
Benzo(b)fluoranthene	ND		328	ug/Kg	1
Benzo(k)fluoranthene	ND		328	ug/Kg	1
Benzo(a)pyrene	ND		328	ug/Kg	1
Indeno(1,2,3-cd)pyrene	ND		328	ug/Kg	1
Dibenz(a,h)anthracene	ND		328	ug/Kg	1
Benzo(g,h,i)perylene	ND		328	ug/Kg	1
Acenaphthylene	ND		328	ug/Kg	1
Surrogates					
2-Fluorophenol	72.0		42.0-123	%	1
Phenol-d6	70.0		48.0-125	%	1
Nitrobenzene-d5	79.0		46.0-117	%	1
2-Fluorobiphenyl	69.0		48.0-123	%	1
2,4,6-Tribromophenol	60.0		41.0-129	%	1
Terphenyl-d14	75.0		44.0-140	%	1

Batch Information

Analytical Batch: **XMS1015**
Analytical Method: **SW-846 8270D**
Instrument: **MSD10**
Analyst: **CMP**
Analytical Date/Time: **02/25/2011 12:30**

Prep Batch: **XXX1045**
Prep Method: **SW-846 3541**
Prep Date/Time: **02/24/2011 10:20**
Prep Initial Wt./Vol.: **32.4 g**
Prep Extract Vol: **10 mL**

Print Date: 03/17/2011

N.C. Certification # 481

Results of **EX-1**

Client Sample ID: **EX-1**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158008-F
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 93

Results by **MADEP VPH**

Parameter	Result	Qual	LOQ/CL	Units	DF
C5-C8 Aliphatic	ND		5.29	mg/kg	1
C9-C12 Aliphatic	ND		5.29	mg/kg	1
C9-C10 Aromatic	ND		5.29	mg/kg	1
Surrogates					
FID - 4-Bromofluorobenzene	95.0		70.0-130	%	1
PID - 4-Bromofluorobenzene	93.0		70.0-130	%	1

Batch Information

Analytical Batch: **VGC1045**
Analytical Method: **MADEP VPH**
Instrument: **GC4**
Analyst: **LMC**
Analytical Date/Time: **03/01/2011 23:40**

Prep Batch: **VXX1114**
Prep Method: **SW-846 5035 VPH prep**
Prep Date/Time: **03/01/2011 11:48**
Prep Initial Wt./Vol.: **5.09 g**
Prep Extract Vol: **5 mL**

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Results of **EX-1**

Client Sample ID: **EX-1**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158008-C
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 93

Results by **SW-846 8260B**

Parameter	Result	Qual	LOQ/CL	Units	DF
Chloromethane	ND		5.70	ug/Kg	1
Vinyl chloride	ND		5.70	ug/Kg	1
Bromomethane	ND		5.70	ug/Kg	1
Chloroethane	ND		5.70	ug/Kg	1
Trichlorofluoromethane	ND		5.70	ug/Kg	1
1,1-Dichloroethene	ND		5.70	ug/Kg	1
Acetone	ND		57.0	ug/Kg	1
Methylene chloride	ND		22.8	ug/Kg	1
trans-1,2-Dichloroethene	ND		5.70	ug/Kg	1
tert-Butyl methyl ether (MTBE)	ND		5.70	ug/Kg	1
1,1-Dichloroethane	ND		5.70	ug/Kg	1
Diisopropyl Ether	ND		5.70	ug/Kg	1
Chloroprene	ND		5.70	ug/Kg	1
2,2-Dichloropropane	ND		5.70	ug/Kg	1
cis-1,2-Dichloroethene	ND		5.70	ug/Kg	1
2-Butanone	ND		28.5	ug/Kg	1
Bromochloromethane	ND		5.70	ug/Kg	1
Chloroform	ND		5.70	ug/Kg	1
1,1,1-Trichloroethane	ND		5.70	ug/Kg	1
Carbon tetrachloride	ND		5.70	ug/Kg	1
1,1-Dichloropropene	ND		5.70	ug/Kg	1
Benzene	ND		5.70	ug/Kg	1
1,2-Dichloroethane	ND		5.70	ug/Kg	1
Trichloroethene	ND		5.70	ug/Kg	1
1,2-Dichloropropane	ND		5.70	ug/Kg	1
Dibromomethane	ND		5.70	ug/Kg	1
Bromodichloromethane	ND		5.70	ug/Kg	1
cis-1,3-Dichloropropene	ND		5.70	ug/Kg	1
4-Methyl-2-pentanone	ND		14.3	ug/Kg	1
Toluene	ND		5.70	ug/Kg	1
Methyl iodide	ND		5.70	ug/Kg	1
trans-1,3-Dichloropropene	ND		5.70	ug/Kg	1
Carbon disulfide	ND		5.70	ug/Kg	1
1,1,2-Trichloroethane	ND		5.70	ug/Kg	1
Tetrachloroethene	ND		5.70	ug/Kg	1
1,3-Dichloropropane	ND		5.70	ug/Kg	1
2-Hexanone	ND		14.3	ug/Kg	1
Dibromochloromethane	ND		5.70	ug/Kg	1
1,2-Dibromoethane	ND		5.70	ug/Kg	1
Chlorobenzene	ND		5.70	ug/Kg	1
1,1,1,2-Tetrachloroethane	ND		5.70	ug/Kg	1
Bromoform	ND		5.70	ug/Kg	1
Bromobenzene	ND		5.70	ug/Kg	1

Print Date: 03/17/2011

N.C. Certification # 481

Results of **EX-1**

Client Sample ID: **EX-1**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158008-C
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 93

Results by **SW-846 8260B**

Parameter	Result	Qual	LOQ/CL	Units	DF
1,1,2,2-Tetrachloroethane	ND		5.70	ug/Kg	1
1,2,3-Trichloropropane	ND		5.70	ug/Kg	1
Ethyl Benzene	ND		5.70	ug/Kg	1
m,p-Xylene	ND		11.4	ug/Kg	1
Styrene	ND		5.70	ug/Kg	1
o-Xylene	ND		5.70	ug/Kg	1
Isopropylbenzene (Cumene)	ND		5.70	ug/Kg	1
n-Propylbenzene	ND		5.70	ug/Kg	1
2-Chlorotoluene	ND		5.70	ug/Kg	1
4-Chlorotoluene	ND		5.70	ug/Kg	1
1,3,5-Trimethylbenzene	ND		5.70	ug/Kg	1
tert-Butylbenzene	ND		5.70	ug/Kg	1
1,2,4-Trimethylbenzene	ND		5.70	ug/Kg	1
sec-Butylbenzene	ND		5.70	ug/Kg	1
1,3-Dichlorobenzene	ND		5.70	ug/Kg	1
4-Isopropyltoluene	ND		5.70	ug/Kg	1
1,4-Dichlorobenzene	ND		5.70	ug/Kg	1
1,2-Dichlorobenzene	ND		5.70	ug/Kg	1
n-Butylbenzene	ND		5.70	ug/Kg	1
1,2-Dibromo-3-chloropropane	ND		34.2	ug/Kg	1
1,2,4-Trichlorobenzene	ND		5.70	ug/Kg	1
Hexachlorobutadiene	ND		5.70	ug/Kg	1
Naphthalene	ND		5.70	ug/Kg	1
trans-1,4-Dichloro-2-butene	ND		28.5	ug/Kg	1
1,2,3-Trichlorobenzene	ND		5.70	ug/Kg	1
Surrogates					
1,2-Dichloroethane-d4	127		55.0-173	%	1
Toluene d8	97.0		57.0-134	%	1
4-Bromofluorobenzene	101		23.0-141	%	1

Batch Information

Analytical Batch: **VMS1033**
Analytical Method: **SW-846 8260B**
Instrument: **MSD9**
Analyst: **DVO**
Analytical Date/Time: **02/25/2011 13:43**

Prep Batch: **VXX1057**
Prep Method: **SW-846 5035 SL**
Prep Date/Time: **02/25/2011 12:38**
Prep Initial Wt./Vol.: **4.72 g**
Prep Extract Vol: **5 mL**

Print Date: 03/17/2011

N.C. Certification # 481

Results of **EX-1**

Client Sample ID: **EX-1**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158008-A
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 93

Results by **MADEP EPH**

Parameter	Result	Qual	LOQ/CL	Units	DF
C11-C22 Aromatics	ND		14.9	mg/kg	1
C9-C18 Aliphatic Hydrocarbons	ND		5.31	mg/kg	1
C19-C36 Aliphatic Hydrocarbons	ND		7.11	mg/kg	1
Surrogates					
n-Tricosane	60.0		40.0-140	%	1
o-Terphenyl	73.0		40.0-140	%	1
2-Bromonaphthalene	114		40.0-140	%	1
2-Fluorobiphenyl	102		40.0-140	%	1

Batch Information

Analytical Batch: **XGC1041**
Analytical Method: **MADEP EPH**
Instrument: **GC6**
Analyst: **DTF**
Analytical Date/Time: **03/01/2011 02:22**

Prep Batch: **XXX1053**
Prep Method: **SW-846 3541/8015 EPH**
Prep Date/Time: **02/25/2011 09:01**
Prep Initial Wt./Vol.: **12.18 g**
Prep Extract Vol: **10 mL**

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Results of **EX-1**

Client Sample ID: **EX-1**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158008-A
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 93

Results by **SW-846 8270D**

Parameter	Result	Qual	LOQ/CL	Units	DF
Phenol	ND		346	ug/Kg	1
Bis(2-Chloroethyl)ether	ND		346	ug/Kg	1
2-Chlorophenol	ND		346	ug/Kg	1
1,3-Dichlorobenzene	ND		346	ug/Kg	1
1,4-Dichlorobenzene	ND		346	ug/Kg	1
1,2-Dichlorobenzene	ND		346	ug/Kg	1
2-Methylphenol	ND		346	ug/Kg	1
3 and/or 4-Methylphenol	ND		346	ug/Kg	1
Bis(2-Chloroisopropyl)ether	ND		346	ug/Kg	1
n-Nitrosodi-n-propylamine	ND		346	ug/Kg	1
Hexachloroethane	ND		346	ug/Kg	1
Nitrobenzene	ND		346	ug/Kg	1
Isophorone	ND		346	ug/Kg	1
2-Nitrophenol	ND		346	ug/Kg	1
2,4-Dimethylphenol	ND		346	ug/Kg	1
Bis(2-Chloroethoxy)methane	ND		346	ug/Kg	1
Benzoic acid	ND		346	ug/Kg	1
2,4-Dichlorophenol	ND		346	ug/Kg	1
1,2,4-Trichlorobenzene	ND		346	ug/Kg	1
Naphthalene	ND		346	ug/Kg	1
4-Chloroaniline	ND		346	ug/Kg	1
Hexachlorobutadiene	ND		346	ug/Kg	1
4-Chloro-3-methylphenol	ND		346	ug/Kg	1
2-Methylnaphthalene	ND		346	ug/Kg	1
Hexachlorocyclopentadiene	ND		346	ug/Kg	1
2,4,5-Trichlorophenol	ND		346	ug/Kg	1
2,4,6-Trichlorophenol	ND		346	ug/Kg	1
2-Chloronaphthalene	ND		346	ug/Kg	1
2-Nitroaniline	ND		346	ug/Kg	1
3-Nitroaniline	ND		346	ug/Kg	1
Dimethyl phthalate	ND		346	ug/Kg	1
2,6-Dinitrotoluene	ND		346	ug/Kg	1
Acenaphthene	ND		346	ug/Kg	1
2,4-Dinitrophenol	ND		690	ug/Kg	1
4-Nitrophenol	ND		346	ug/Kg	1
Dibenzofuran	ND		346	ug/Kg	1
2,4-Dinitrotoluene	ND		346	ug/Kg	1
Fluorene	ND		346	ug/Kg	1
Diethyl phthalate	ND		346	ug/Kg	1
4-Chlorophenyl phenyl ether	ND		346	ug/Kg	1
4-Nitroaniline	ND		346	ug/Kg	1
4,6-Dinitro-2-methylphenol	ND		346	ug/Kg	1
Diphenylamine	ND		346	ug/Kg	1

Print Date: 03/17/2011

N.C. Certification # 481

Results of **EX-1**

Client Sample ID: **EX-1**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158008-A
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 93

Results by **SW-846 8270D**

Parameter	Result	Qual	LOQ/CL	Units	DF
4-Bromophenyl phenyl ether	ND		346	ug/Kg	1
Hexachlorobenzene	ND		346	ug/Kg	1
Pentachlorophenol	ND		346	ug/Kg	1
Phenanthrene	ND		346	ug/Kg	1
Anthracene	ND		346	ug/Kg	1
Di-n-butyl phthalate	ND		346	ug/Kg	1
Fluoranthene	ND		346	ug/Kg	1
Pyrene	ND		346	ug/Kg	1
Butyl benzyl phthalate	ND		346	ug/Kg	1
Benzo(a)anthracene	ND		346	ug/Kg	1
3,3'-Dichlorobenzidine	ND		346	ug/Kg	1
Chrysene	ND		346	ug/Kg	1
Bis(2-Ethylhexyl)phthalate	ND		346	ug/Kg	1
Di-n-octyl phthalate	ND		346	ug/Kg	1
Benzo(b)fluoranthene	ND		346	ug/Kg	1
Benzo(k)fluoranthene	ND		346	ug/Kg	1
Benzo(a)pyrene	ND		346	ug/Kg	1
Indeno(1,2,3-cd)pyrene	ND		346	ug/Kg	1
Dibenz(a,h)anthracene	ND		346	ug/Kg	1
Benzo(g,h,i)perylene	ND		346	ug/Kg	1
Acenaphthylene	ND		346	ug/Kg	1
Surrogates					
2-Fluorophenol	73.0		42.0-123	%	1
Phenol-d6	70.0		48.0-125	%	1
Nitrobenzene-d5	77.0		46.0-117	%	1
2-Fluorobiphenyl	67.0		48.0-123	%	1
2,4,6-Tribromophenol	58.0		41.0-129	%	1
Terphenyl-d14	76.0		44.0-140	%	1

Batch Information

Analytical Batch: **XMS1015**
Analytical Method: **SW-846 8270D**
Instrument: **MSD10**
Analyst: **CMP**
Analytical Date/Time: **02/25/2011 12:54**

Prep Batch: **XXX1045**
Prep Method: **SW-846 3541**
Prep Date/Time: **02/24/2011 10:20**
Prep Initial Wt./Vol.: **31.21 g**
Prep Extract Vol: **10 mL**

Print Date: 03/17/2011

N.C. Certification # 481

Results of **EX-2**

Client Sample ID: **EX-2**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158009-F
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 92

Results by **MADEP VPH**

Parameter	Result	Qual	LOQ/CL	Units	DF
C5-C8 Aliphatic	ND		5.35	mg/kg	1
C9-C12 Aliphatic	ND		5.35	mg/kg	1
C9-C10 Aromatic	ND		5.35	mg/kg	1
Surrogates					
FID - 4-Bromofluorobenzene	96.0		70.0-130	%	1
PID - 4-Bromofluorobenzene	95.0		70.0-130	%	1

Batch Information

Analytical Batch: **VGC1045**
Analytical Method: **MADEP VPH**
Instrument: **GC4**
Analyst: **LMC**
Analytical Date/Time: **03/02/2011 00:07**

Prep Batch: **VXX1114**
Prep Method: **SW-846 5035 VPH prep**
Prep Date/Time: **03/01/2011 11:48**
Prep Initial Wt./Vol.: **5.1 g**
Prep Extract Vol: **5 mL**

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Results of **EX-2**

Client Sample ID: **EX-2**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158009-C
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 92

Results by **SW-846 8260B**

Parameter	Result	Qual	LOQ/CL	Units	DF
Chloromethane	ND		4.90	ug/Kg	1
Vinyl chloride	ND		4.90	ug/Kg	1
Bromomethane	ND		4.90	ug/Kg	1
Chloroethane	ND		4.90	ug/Kg	1
Trichlorofluoromethane	ND		4.90	ug/Kg	1
1,1-Dichloroethene	ND		4.90	ug/Kg	1
Acetone	ND		49.0	ug/Kg	1
Methylene chloride	ND		19.6	ug/Kg	1
trans-1,2-Dichloroethene	ND		4.90	ug/Kg	1
tert-Butyl methyl ether (MTBE)	ND		4.90	ug/Kg	1
1,1-Dichloroethane	ND		4.90	ug/Kg	1
Diisopropyl Ether	ND		4.90	ug/Kg	1
Chloroprene	ND		4.90	ug/Kg	1
2,2-Dichloropropane	ND		4.90	ug/Kg	1
cis-1,2-Dichloroethene	ND		4.90	ug/Kg	1
2-Butanone	ND		24.5	ug/Kg	1
Bromochloromethane	ND		4.90	ug/Kg	1
Chloroform	ND		4.90	ug/Kg	1
1,1,1-Trichloroethane	ND		4.90	ug/Kg	1
Carbon tetrachloride	ND		4.90	ug/Kg	1
1,1-Dichloropropene	ND		4.90	ug/Kg	1
Benzene	ND		4.90	ug/Kg	1
1,2-Dichloroethane	ND		4.90	ug/Kg	1
Trichloroethene	ND		4.90	ug/Kg	1
1,2-Dichloropropane	ND		4.90	ug/Kg	1
Dibromomethane	ND		4.90	ug/Kg	1
Bromodichloromethane	ND		4.90	ug/Kg	1
cis-1,3-Dichloropropene	ND		4.90	ug/Kg	1
4-Methyl-2-pentanone	ND		12.2	ug/Kg	1
Toluene	ND		4.90	ug/Kg	1
Methyl iodide	ND		4.90	ug/Kg	1
trans-1,3-Dichloropropene	ND		4.90	ug/Kg	1
Carbon disulfide	ND		4.90	ug/Kg	1
1,1,2-Trichloroethane	ND		4.90	ug/Kg	1
Tetrachloroethene	ND		4.90	ug/Kg	1
1,3-Dichloropropane	ND		4.90	ug/Kg	1
2-Hexanone	ND		12.2	ug/Kg	1
Dibromochloromethane	ND		4.90	ug/Kg	1
1,2-Dibromoethane	ND		4.90	ug/Kg	1
Chlorobenzene	ND		4.90	ug/Kg	1
1,1,1,2-Tetrachloroethane	ND		4.90	ug/Kg	1
Bromoform	ND		4.90	ug/Kg	1
Bromobenzene	ND		4.90	ug/Kg	1

Print Date: 03/17/2011

N.C. Certification # 481

Results of **EX-2**

Client Sample ID: **EX-2**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158009-C
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 92

Results by **SW-846 8260B**

Parameter	Result	Qual	LOQ/CL	Units	DF
1,1,2,2-Tetrachloroethane	ND		4.90	ug/Kg	1
1,2,3-Trichloropropane	ND		4.90	ug/Kg	1
Ethyl Benzene	ND		4.90	ug/Kg	1
m,p-Xylene	ND		9.79	ug/Kg	1
Styrene	ND		4.90	ug/Kg	1
o-Xylene	ND		4.90	ug/Kg	1
Isopropylbenzene (Cumene)	ND		4.90	ug/Kg	1
n-Propylbenzene	ND		4.90	ug/Kg	1
2-Chlorotoluene	ND		4.90	ug/Kg	1
4-Chlorotoluene	ND		4.90	ug/Kg	1
1,3,5-Trimethylbenzene	ND		4.90	ug/Kg	1
tert-Butylbenzene	ND		4.90	ug/Kg	1
1,2,4-Trimethylbenzene	ND		4.90	ug/Kg	1
sec-Butylbenzene	ND		4.90	ug/Kg	1
1,3-Dichlorobenzene	ND		4.90	ug/Kg	1
4-Isopropyltoluene	ND		4.90	ug/Kg	1
1,4-Dichlorobenzene	ND		4.90	ug/Kg	1
1,2-Dichlorobenzene	ND		4.90	ug/Kg	1
n-Butylbenzene	ND		4.90	ug/Kg	1
1,2-Dibromo-3-chloropropane	ND		29.4	ug/Kg	1
1,2,4-Trichlorobenzene	ND		4.90	ug/Kg	1
Hexachlorobutadiene	ND		4.90	ug/Kg	1
Naphthalene	ND		4.90	ug/Kg	1
trans-1,4-Dichloro-2-butene	ND		24.5	ug/Kg	1
1,2,3-Trichlorobenzene	ND		4.90	ug/Kg	1
Surrogates					
1,2-Dichloroethane-d4	135		55.0-173	%	1
Toluene d8	91.0		57.0-134	%	1
4-Bromofluorobenzene	101		23.0-141	%	1

Batch Information

Analytical Batch: **VMS1033**
Analytical Method: **SW-846 8260B**
Instrument: **MSD9**
Analyst: **DVO**
Analytical Date/Time: **02/25/2011 14:12**

Prep Batch: **VXX1057**
Prep Method: **SW-846 5035 SL**
Prep Date/Time: **02/25/2011 12:38**
Prep Initial Wt./Vol.: **5.57 g**
Prep Extract Vol: **5 mL**

Print Date: 03/17/2011

N.C. Certification # 481

Results of **EX-2**

Client Sample ID: **EX-2**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158009-A
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 92

Results by **MADEP EPH**

Parameter	Result	Qual	LOQ/CL	Units	DF
C11-C22 Aromatics	ND		14.8	mg/kg	1
C9-C18 Aliphatic Hydrocarbons	ND		5.28	mg/kg	1
C19-C36 Aliphatic Hydrocarbons	ND		7.08	mg/kg	1
Surrogates					
n-Tricosane	73.0		40.0-140	%	1
o-Terphenyl	70.0		40.0-140	%	1
2-Bromonaphthalene	102		40.0-140	%	1
2-Fluorobiphenyl	90.0		40.0-140	%	1

Batch Information

Analytical Batch: **XGC1041**
Analytical Method: **MADEP EPH**
Instrument: **GC6**
Analyst: **DTF**
Analytical Date/Time: **03/01/2011 03:47**

Prep Batch: **XXX1053**
Prep Method: **SW-846 3541/8015 EPH**
Prep Date/Time: **02/25/2011 09:01**
Prep Initial Wt./Vol.: **12.39 g**
Prep Extract Vol: **10 mL**

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Results of **EX-2**

Client Sample ID: **EX-2**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158009-A
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 92

Results by **SW-846 8270D**

Parameter	Result	Qual	LOQ/CL	Units	DF
Phenol	ND		343	ug/Kg	1
Bis(2-Chloroethyl)ether	ND		343	ug/Kg	1
2-Chlorophenol	ND		343	ug/Kg	1
1,3-Dichlorobenzene	ND		343	ug/Kg	1
1,4-Dichlorobenzene	ND		343	ug/Kg	1
1,2-Dichlorobenzene	ND		343	ug/Kg	1
2-Methylphenol	ND		343	ug/Kg	1
3 and/or 4-Methylphenol	ND		343	ug/Kg	1
Bis(2-Chloroisopropyl)ether	ND		343	ug/Kg	1
n-Nitrosodi-n-propylamine	ND		343	ug/Kg	1
Hexachloroethane	ND		343	ug/Kg	1
Nitrobenzene	ND		343	ug/Kg	1
Isophorone	ND		343	ug/Kg	1
2-Nitrophenol	ND		343	ug/Kg	1
2,4-Dimethylphenol	ND		343	ug/Kg	1
Bis(2-Chloroethoxy)methane	ND		343	ug/Kg	1
Benzoic acid	ND		343	ug/Kg	1
2,4-Dichlorophenol	ND		343	ug/Kg	1
1,2,4-Trichlorobenzene	ND		343	ug/Kg	1
Naphthalene	ND		343	ug/Kg	1
4-Chloroaniline	ND		343	ug/Kg	1
Hexachlorobutadiene	ND		343	ug/Kg	1
4-Chloro-3-methylphenol	ND		343	ug/Kg	1
2-Methylnaphthalene	ND		343	ug/Kg	1
Hexachlorocyclopentadiene	ND		343	ug/Kg	1
2,4,5-Trichlorophenol	ND		343	ug/Kg	1
2,4,6-Trichlorophenol	ND		343	ug/Kg	1
2-Chloronaphthalene	ND		343	ug/Kg	1
2-Nitroaniline	ND		343	ug/Kg	1
3-Nitroaniline	ND		343	ug/Kg	1
Dimethyl phthalate	ND		343	ug/Kg	1
2,6-Dinitrotoluene	ND		343	ug/Kg	1
Acenaphthene	ND		343	ug/Kg	1
2,4-Dinitrophenol	ND		685	ug/Kg	1
4-Nitrophenol	ND		343	ug/Kg	1
Dibenzofuran	ND		343	ug/Kg	1
2,4-Dinitrotoluene	ND		343	ug/Kg	1
Fluorene	ND		343	ug/Kg	1
Diethyl phthalate	ND		343	ug/Kg	1
4-Chlorophenyl phenyl ether	ND		343	ug/Kg	1
4-Nitroaniline	ND		343	ug/Kg	1
4,6-Dinitro-2-methylphenol	ND		343	ug/Kg	1
Diphenylamine	ND		343	ug/Kg	1

Print Date: 03/17/2011

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Results of **EX-2**

Client Sample ID: **EX-2**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158009-A
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 92

Results by **SW-846 8270D**

Parameter	Result	Qual	LOQ/CL	Units	DF
4-Bromophenyl phenyl ether	ND		343	ug/Kg	1
Hexachlorobenzene	ND		343	ug/Kg	1
Pentachlorophenol	ND		343	ug/Kg	1
Phenanthrene	ND		343	ug/Kg	1
Anthracene	ND		343	ug/Kg	1
Di-n-butyl phthalate	ND		343	ug/Kg	1
Fluoranthene	ND		343	ug/Kg	1
Pyrene	ND		343	ug/Kg	1
Butyl benzyl phthalate	ND		343	ug/Kg	1
Benzo(a)anthracene	ND		343	ug/Kg	1
3,3'-Dichlorobenzidine	ND		343	ug/Kg	1
Chrysene	ND		343	ug/Kg	1
Bis(2-Ethylhexyl)phthalate	ND		343	ug/Kg	1
Di-n-octyl phthalate	ND		343	ug/Kg	1
Benzo(b)fluoranthene	ND		343	ug/Kg	1
Benzo(k)fluoranthene	ND		343	ug/Kg	1
Benzo(a)pyrene	ND		343	ug/Kg	1
Indeno(1,2,3-cd)pyrene	ND		343	ug/Kg	1
Dibenz(a,h)anthracene	ND		343	ug/Kg	1
Benzo(g,h,i)perylene	ND		343	ug/Kg	1
Acenaphthylene	ND		343	ug/Kg	1
Surrogates					
2-Fluorophenol	73.0		42.0-123	%	1
Phenol-d6	70.0		48.0-125	%	1
Nitrobenzene-d5	78.0		46.0-117	%	1
2-Fluorobiphenyl	67.0		48.0-123	%	1
2,4,6-Tribromophenol	56.0		41.0-129	%	1
Terphenyl-d14	75.0		44.0-140	%	1

Batch Information

Analytical Batch: **XMS1015**
Analytical Method: **SW-846 8270D**
Instrument: **MSD10**
Analyst: **CMP**
Analytical Date/Time: **02/25/2011 13:17**

Prep Batch: **XXX1045**
Prep Method: **SW-846 3541**
Prep Date/Time: **02/24/2011 10:20**
Prep Initial Wt./Vol.: **31.83 g**
Prep Extract Vol: **10 mL**

Print Date: 03/17/2011

N.C. Certification # 481

Results of **EX-3**

Client Sample ID: **EX-3**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158010-F
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 93

Results by **MADEP VPH**

Parameter	Result	Qual	LOQ/CL	Units	DF
C5-C8 Aliphatic	ND		5.18	mg/kg	1
C9-C12 Aliphatic	ND		5.18	mg/kg	1
C9-C10 Aromatic	ND		5.18	mg/kg	1
Surrogates					
FID - 4-Bromofluorobenzene	97.0		70.0-130	%	1
PID - 4-Bromofluorobenzene	98.0		70.0-130	%	1

Batch Information

Analytical Batch: **VGC1045**
Analytical Method: **MADEP VPH**
Instrument: **GC4**
Analyst: **LMC**
Analytical Date/Time: **03/02/2011 00:34**

Prep Batch: **VXX1114**
Prep Method: **SW-846 5035 VPH prep**
Prep Date/Time: **03/01/2011 11:48**
Prep Initial Wt./Vol.: **5.19 g**
Prep Extract Vol: **5 mL**

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Results of **EX-3**

Client Sample ID: **EX-3**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158010-C
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 93

Results by **SW-846 8260B**

Parameter	Result	Qual	LOQ/CL	Units	DF
Chloromethane	ND		6.74	ug/Kg	1
Vinyl chloride	ND		6.74	ug/Kg	1
Bromomethane	ND		6.74	ug/Kg	1
Chloroethane	ND		6.74	ug/Kg	1
Trichlorofluoromethane	ND		6.74	ug/Kg	1
1,1-Dichloroethene	ND		6.74	ug/Kg	1
Acetone	ND		67.4	ug/Kg	1
Methylene chloride	ND		26.9	ug/Kg	1
trans-1,2-Dichloroethene	ND		6.74	ug/Kg	1
tert-Butyl methyl ether (MTBE)	ND		6.74	ug/Kg	1
1,1-Dichloroethane	ND		6.74	ug/Kg	1
Diisopropyl Ether	ND		6.74	ug/Kg	1
Chloroprene	ND		6.74	ug/Kg	1
2,2-Dichloropropane	ND		6.74	ug/Kg	1
cis-1,2-Dichloroethene	ND		6.74	ug/Kg	1
2-Butanone	ND		33.7	ug/Kg	1
Bromochloromethane	ND		6.74	ug/Kg	1
Chloroform	ND		6.74	ug/Kg	1
1,1,1-Trichloroethane	ND		6.74	ug/Kg	1
Carbon tetrachloride	ND		6.74	ug/Kg	1
1,1-Dichloropropene	ND		6.74	ug/Kg	1
Benzene	ND		6.74	ug/Kg	1
1,2-Dichloroethane	ND		6.74	ug/Kg	1
Trichloroethene	ND		6.74	ug/Kg	1
1,2-Dichloropropane	ND		6.74	ug/Kg	1
Dibromomethane	ND		6.74	ug/Kg	1
Bromodichloromethane	ND		6.74	ug/Kg	1
cis-1,3-Dichloropropene	ND		6.74	ug/Kg	1
4-Methyl-2-pentanone	ND		16.8	ug/Kg	1
Toluene	ND		6.74	ug/Kg	1
Methyl iodide	ND		6.74	ug/Kg	1
trans-1,3-Dichloropropene	ND		6.74	ug/Kg	1
Carbon disulfide	ND		6.74	ug/Kg	1
1,1,2-Trichloroethane	ND		6.74	ug/Kg	1
Tetrachloroethene	ND		6.74	ug/Kg	1
1,3-Dichloropropane	ND		6.74	ug/Kg	1
2-Hexanone	ND		16.8	ug/Kg	1
Dibromochloromethane	ND		6.74	ug/Kg	1
1,2-Dibromoethane	ND		6.74	ug/Kg	1
Chlorobenzene	ND		6.74	ug/Kg	1
1,1,1,2-Tetrachloroethane	ND		6.74	ug/Kg	1
Bromoform	ND		6.74	ug/Kg	1
Bromobenzene	ND		6.74	ug/Kg	1

Print Date: 03/17/2011

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Results of **EX-3**

Client Sample ID: **EX-3**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158010-C
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 93

Results by **SW-846 8260B**

Parameter	Result	Qual	LOQ/CL	Units	DF
1,1,2,2-Tetrachloroethane	ND		6.74	ug/Kg	1
1,2,3-Trichloropropane	ND		6.74	ug/Kg	1
Ethyl Benzene	ND		6.74	ug/Kg	1
m,p-Xylene	ND		13.5	ug/Kg	1
Styrene	ND		6.74	ug/Kg	1
o-Xylene	ND		6.74	ug/Kg	1
Isopropylbenzene (Cumene)	ND		6.74	ug/Kg	1
n-Propylbenzene	ND		6.74	ug/Kg	1
2-Chlorotoluene	ND		6.74	ug/Kg	1
4-Chlorotoluene	ND		6.74	ug/Kg	1
1,3,5-Trimethylbenzene	ND		6.74	ug/Kg	1
tert-Butylbenzene	ND		6.74	ug/Kg	1
1,2,4-Trimethylbenzene	ND		6.74	ug/Kg	1
sec-Butylbenzene	ND		6.74	ug/Kg	1
1,3-Dichlorobenzene	ND		6.74	ug/Kg	1
4-Isopropyltoluene	ND		6.74	ug/Kg	1
1,4-Dichlorobenzene	ND		6.74	ug/Kg	1
1,2-Dichlorobenzene	ND		6.74	ug/Kg	1
n-Butylbenzene	ND		6.74	ug/Kg	1
1,2-Dibromo-3-chloropropane	ND		40.4	ug/Kg	1
1,2,4-Trichlorobenzene	ND		6.74	ug/Kg	1
Hexachlorobutadiene	ND		6.74	ug/Kg	1
Naphthalene	ND		6.74	ug/Kg	1
trans-1,4-Dichloro-2-butene	ND		33.7	ug/Kg	1
1,2,3-Trichlorobenzene	ND		6.74	ug/Kg	1
Surrogates					
1,2-Dichloroethane-d4	138		55.0-173	%	1
Toluene d8	93.0		57.0-134	%	1
4-Bromofluorobenzene	103		23.0-141	%	1

Batch Information

Analytical Batch: **VMS1033**
Analytical Method: **SW-846 8260B**
Instrument: **MSD9**
Analyst: **DVO**
Analytical Date/Time: **02/25/2011 14:40**

Prep Batch: **VXX1057**
Prep Method: **SW-846 5035 SL**
Prep Date/Time: **02/25/2011 12:38**
Prep Initial Wt./Vol.: **3.99 g**
Prep Extract Vol: **5 mL**

Print Date: 03/17/2011

N.C. Certification # 481

Results of **EX-3**

Client Sample ID: **EX-3**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158010-A
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 93

Results by **MADEP EPH**

Parameter	Result	Qual	LOQ/CL	Units	DF
C11-C22 Aromatics	ND		14.3	mg/kg	1
C9-C18 Aliphatic Hydrocarbons	ND		5.11	mg/kg	1
C19-C36 Aliphatic Hydrocarbons	ND		6.84	mg/kg	1
Surrogates					
n-Tricosane	87.0		40.0-140	%	1
o-Terphenyl	79.0		40.0-140	%	1
2-Bromonaphthalene	118		40.0-140	%	1
2-Fluorobiphenyl	103		40.0-140	%	1

Batch Information

Analytical Batch: **XGC1041**
Analytical Method: **MADEP EPH**
Instrument: **GC6**
Analyst: **DTF**
Analytical Date/Time: **03/01/2011 04:43**

Prep Batch: **XXX1053**
Prep Method: **SW-846 3541/8015 EPH**
Prep Date/Time: **02/25/2011 09:01**
Prep Initial Wt./Vol.: **12.63 g**
Prep Extract Vol: **10 mL**

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Results of **EX-3**

Client Sample ID: **EX-3**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158010-A
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 93

Results by **SW-846 8270D**

Parameter	Result	Qual	LOQ/CL	Units	DF
Phenol	ND		332	ug/Kg	1
Bis(2-Chloroethyl)ether	ND		332	ug/Kg	1
2-Chlorophenol	ND		332	ug/Kg	1
1,3-Dichlorobenzene	ND		332	ug/Kg	1
1,4-Dichlorobenzene	ND		332	ug/Kg	1
1,2-Dichlorobenzene	ND		332	ug/Kg	1
2-Methylphenol	ND		332	ug/Kg	1
3 and/or 4-Methylphenol	ND		332	ug/Kg	1
Bis(2-Chloroisopropyl)ether	ND		332	ug/Kg	1
n-Nitrosodi-n-propylamine	ND		332	ug/Kg	1
Hexachloroethane	ND		332	ug/Kg	1
Nitrobenzene	ND		332	ug/Kg	1
Isophorone	ND		332	ug/Kg	1
2-Nitrophenol	ND		332	ug/Kg	1
2,4-Dimethylphenol	ND		332	ug/Kg	1
Bis(2-Chloroethoxy)methane	ND		332	ug/Kg	1
Benzoic acid	ND		332	ug/Kg	1
2,4-Dichlorophenol	ND		332	ug/Kg	1
1,2,4-Trichlorobenzene	ND		332	ug/Kg	1
Naphthalene	ND		332	ug/Kg	1
4-Chloroaniline	ND		332	ug/Kg	1
Hexachlorobutadiene	ND		332	ug/Kg	1
4-Chloro-3-methylphenol	ND		332	ug/Kg	1
2-Methylnaphthalene	ND		332	ug/Kg	1
Hexachlorocyclopentadiene	ND		332	ug/Kg	1
2,4,5-Trichlorophenol	ND		332	ug/Kg	1
2,4,6-Trichlorophenol	ND		332	ug/Kg	1
2-Chloronaphthalene	ND		332	ug/Kg	1
2-Nitroaniline	ND		332	ug/Kg	1
3-Nitroaniline	ND		332	ug/Kg	1
Dimethyl phthalate	ND		332	ug/Kg	1
2,6-Dinitrotoluene	ND		332	ug/Kg	1
Acenaphthene	ND		332	ug/Kg	1
2,4-Dinitrophenol	ND		664	ug/Kg	1
4-Nitrophenol	ND		332	ug/Kg	1
Dibenzofuran	ND		332	ug/Kg	1
2,4-Dinitrotoluene	ND		332	ug/Kg	1
Fluorene	ND		332	ug/Kg	1
Diethyl phthalate	ND		332	ug/Kg	1
4-Chlorophenyl phenyl ether	ND		332	ug/Kg	1
4-Nitroaniline	ND		332	ug/Kg	1
4,6-Dinitro-2-methylphenol	ND		332	ug/Kg	1
Diphenylamine	ND		332	ug/Kg	1

Print Date: 03/17/2011

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Results of **EX-3**

Client Sample ID: **EX-3**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158010-A
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 93

Results by **SW-846 8270D**

Parameter	Result	Qual	LOQ/CL	Units	DF
4-Bromophenyl phenyl ether	ND		332	ug/Kg	1
Hexachlorobenzene	ND		332	ug/Kg	1
Pentachlorophenol	ND		332	ug/Kg	1
Phenanthrene	ND		332	ug/Kg	1
Anthracene	ND		332	ug/Kg	1
Di-n-butyl phthalate	ND		332	ug/Kg	1
Fluoranthene	ND		332	ug/Kg	1
Pyrene	ND		332	ug/Kg	1
Butyl benzyl phthalate	ND		332	ug/Kg	1
Benzo(a)anthracene	ND		332	ug/Kg	1
3,3'-Dichlorobenzidine	ND		332	ug/Kg	1
Chrysene	ND		332	ug/Kg	1
Bis(2-Ethylhexyl)phthalate	ND		332	ug/Kg	1
Di-n-octyl phthalate	ND		332	ug/Kg	1
Benzo(b)fluoranthene	ND		332	ug/Kg	1
Benzo(k)fluoranthene	ND		332	ug/Kg	1
Benzo(a)pyrene	ND		332	ug/Kg	1
Indeno(1,2,3-cd)pyrene	ND		332	ug/Kg	1
Dibenz(a,h)anthracene	ND		332	ug/Kg	1
Benzo(g,h,i)perylene	ND		332	ug/Kg	1
Acenaphthylene	ND		332	ug/Kg	1
Surrogates					
2-Fluorophenol	70.0		42.0-123	%	1
Phenol-d6	68.0		48.0-125	%	1
Nitrobenzene-d5	76.0		46.0-117	%	1
2-Fluorobiphenyl	67.0		48.0-123	%	1
2,4,6-Tribromophenol	54.0		41.0-129	%	1
Terphenyl-d14	73.0		44.0-140	%	1

Batch Information

Analytical Batch: **XMS1015**
Analytical Method: **SW-846 8270D**
Instrument: **MSD10**
Analyst: **CMP**
Analytical Date/Time: **02/25/2011 13:40**

Prep Batch: **XXX1045**
Prep Method: **SW-846 3541**
Prep Date/Time: **02/24/2011 10:20**
Prep Initial Wt./Vol.: **32.39 g**
Prep Extract Vol: **10 mL**

Print Date: 03/17/2011

N.C. Certification # 481

Results of **EX-4**

Client Sample ID: **EX-4**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158011-F
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 93

Results by **MADEP VPH**

Parameter	Result	Qual	LOQ/CL	Units	DF
C5-C8 Aliphatic	ND		5.36	mg/kg	1
C9-C12 Aliphatic	ND		5.36	mg/kg	1
C9-C10 Aromatic	ND		5.36	mg/kg	1
Surrogates					
FID - 4-Bromofluorobenzene	93.0		70.0-130	%	1
PID - 4-Bromofluorobenzene	93.0		70.0-130	%	1

Batch Information

Analytical Batch: **VGC**
Analytical Method: **MADEP VPH**
Instrument: **GC4**
Analyst: **LMC**
Analytical Date/Time: **03/02/2011 01:01**

Prep Batch: **VXX**
Prep Method: **SW-846 5035 VPH prep**
Prep Date/Time: **03/01/2011 11:48**
Prep Initial Wt./Vol.: **5.04 g**
Prep Extract Vol: **5 mL**

Print Date: 03/17/2011

N.C. Certification # 481

Results of **EX-4**

Client Sample ID: **EX-4**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158011-C
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 93

Results by **SW-846 8260B**

Parameter	Result	Qual	LOQ/CL	Units	DF
Chloromethane	ND		5.15	ug/Kg	1
Vinyl chloride	ND		5.15	ug/Kg	1
Bromomethane	ND		5.15	ug/Kg	1
Chloroethane	ND		5.15	ug/Kg	1
Trichlorofluoromethane	ND		5.15	ug/Kg	1
1,1-Dichloroethene	ND		5.15	ug/Kg	1
Acetone	ND		51.5	ug/Kg	1
Methylene chloride	ND		20.6	ug/Kg	1
trans-1,2-Dichloroethene	ND		5.15	ug/Kg	1
tert-Butyl methyl ether (MTBE)	ND		5.15	ug/Kg	1
1,1-Dichloroethane	ND		5.15	ug/Kg	1
Diisopropyl Ether	ND		5.15	ug/Kg	1
Chloroprene	ND		5.15	ug/Kg	1
2,2-Dichloropropane	ND		5.15	ug/Kg	1
cis-1,2-Dichloroethene	ND		5.15	ug/Kg	1
2-Butanone	ND		25.8	ug/Kg	1
Bromochloromethane	ND		5.15	ug/Kg	1
Chloroform	ND		5.15	ug/Kg	1
1,1,1-Trichloroethane	ND		5.15	ug/Kg	1
Carbon tetrachloride	ND		5.15	ug/Kg	1
1,1-Dichloropropene	ND		5.15	ug/Kg	1
Benzene	ND		5.15	ug/Kg	1
1,2-Dichloroethane	ND		5.15	ug/Kg	1
Trichloroethene	ND		5.15	ug/Kg	1
1,2-Dichloropropane	ND		5.15	ug/Kg	1
Dibromomethane	ND		5.15	ug/Kg	1
Bromodichloromethane	ND		5.15	ug/Kg	1
cis-1,3-Dichloropropene	ND		5.15	ug/Kg	1
4-Methyl-2-pentanone	ND		12.9	ug/Kg	1
Toluene	ND		5.15	ug/Kg	1
Methyl iodide	ND		5.15	ug/Kg	1
trans-1,3-Dichloropropene	ND		5.15	ug/Kg	1
Carbon disulfide	ND		5.15	ug/Kg	1
1,1,2-Trichloroethane	ND		5.15	ug/Kg	1
Tetrachloroethene	ND		5.15	ug/Kg	1
1,3-Dichloropropane	ND		5.15	ug/Kg	1
2-Hexanone	ND		12.9	ug/Kg	1
Dibromochloromethane	ND		5.15	ug/Kg	1
1,2-Dibromoethane	ND		5.15	ug/Kg	1
Chlorobenzene	ND		5.15	ug/Kg	1
1,1,1,2-Tetrachloroethane	ND		5.15	ug/Kg	1
Bromoform	ND		5.15	ug/Kg	1
Bromobenzene	ND		5.15	ug/Kg	1

Print Date: 03/17/2011

N.C. Certification # 481

Results of **EX-4**

Client Sample ID: **EX-4**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158011-C
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 93

Results by **SW-846 8260B**

Parameter	Result	Qual	LOQ/CL	Units	DF
1,1,2,2-Tetrachloroethane	ND		5.15	ug/Kg	1
1,2,3-Trichloropropane	ND		5.15	ug/Kg	1
Ethyl Benzene	ND		5.15	ug/Kg	1
m,p-Xylene	ND		10.3	ug/Kg	1
Styrene	ND		5.15	ug/Kg	1
o-Xylene	ND		5.15	ug/Kg	1
Isopropylbenzene (Cumene)	ND		5.15	ug/Kg	1
n-Propylbenzene	ND		5.15	ug/Kg	1
2-Chlorotoluene	ND		5.15	ug/Kg	1
4-Chlorotoluene	ND		5.15	ug/Kg	1
1,3,5-Trimethylbenzene	ND		5.15	ug/Kg	1
tert-Butylbenzene	ND		5.15	ug/Kg	1
1,2,4-Trimethylbenzene	ND		5.15	ug/Kg	1
sec-Butylbenzene	ND		5.15	ug/Kg	1
1,3-Dichlorobenzene	ND		5.15	ug/Kg	1
4-Isopropyltoluene	ND		5.15	ug/Kg	1
1,4-Dichlorobenzene	ND		5.15	ug/Kg	1
1,2-Dichlorobenzene	ND		5.15	ug/Kg	1
n-Butylbenzene	ND		5.15	ug/Kg	1
1,2-Dibromo-3-chloropropane	ND		30.9	ug/Kg	1
1,2,4-Trichlorobenzene	ND		5.15	ug/Kg	1
Hexachlorobutadiene	ND		5.15	ug/Kg	1
Naphthalene	ND		5.15	ug/Kg	1
trans-1,4-Dichloro-2-butene	ND		25.8	ug/Kg	1
1,2,3-Trichlorobenzene	ND		5.15	ug/Kg	1
Surrogates					
1,2-Dichloroethane-d4	131		55.0-173	%	1
Toluene d8	96.0		57.0-134	%	1
4-Bromofluorobenzene	102		23.0-141	%	1

Batch Information

Analytical Batch: **VMS1033**
Analytical Method: **SW-846 8260B**
Instrument: **MSD9**
Analyst: **DVO**
Analytical Date/Time: **02/25/2011 15:09**

Prep Batch: **VXX1057**
Prep Method: **SW-846 5035 SL**
Prep Date/Time: **02/25/2011 12:38**
Prep Initial Wt./Vol.: **5.24 g**
Prep Extract Vol: **5 mL**

Print Date: 03/17/2011

N.C. Certification # 481

Results of **EX-4**

Client Sample ID: **EX-4**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158011-A
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 93

Results by **MADEP EPH**

Parameter	Result	Qual	LOQ/CL	Units	DF
C11-C22 Aromatics	ND		14.9	mg/kg	1
C9-C18 Aliphatic Hydrocarbons	ND		5.32	mg/kg	1
C19-C36 Aliphatic Hydrocarbons	ND		7.13	mg/kg	1
Surrogates					
n-Tricosane	104		40.0-140	%	1
o-Terphenyl	89.0		40.0-140	%	1
2-Bromonaphthalene	133		40.0-140	%	1
2-Fluorobiphenyl	118		40.0-140	%	1

Batch Information

Analytical Batch: **XGC1041**
Analytical Method: **MADEP EPH**
Instrument: **GC6**
Analyst: **DTF**
Analytical Date/Time: **03/01/2011 05:39**

Prep Batch: **XXX1053**
Prep Method: **SW-846 3541/8015 EPH**
Prep Date/Time: **02/25/2011 09:01**
Prep Initial Wt./Vol.: **12.18 g**
Prep Extract Vol: **10 mL**

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Results of **EX-4**

Client Sample ID: **EX-4**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158011-A
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 93

Results by **SW-846 8270D**

Parameter	Result	Qual	LOQ/CL	Units	DF
Phenol	ND		319	ug/Kg	1
Bis(2-Chloroethyl)ether	ND		319	ug/Kg	1
2-Chlorophenol	ND		319	ug/Kg	1
1,3-Dichlorobenzene	ND		319	ug/Kg	1
1,4-Dichlorobenzene	ND		319	ug/Kg	1
1,2-Dichlorobenzene	ND		319	ug/Kg	1
2-Methylphenol	ND		319	ug/Kg	1
3 and/or 4-Methylphenol	ND		319	ug/Kg	1
Bis(2-Chloroisopropyl)ether	ND		319	ug/Kg	1
n-Nitrosodi-n-propylamine	ND		319	ug/Kg	1
Hexachloroethane	ND		319	ug/Kg	1
Nitrobenzene	ND		319	ug/Kg	1
Isophorone	ND		319	ug/Kg	1
2-Nitrophenol	ND		319	ug/Kg	1
2,4-Dimethylphenol	ND		319	ug/Kg	1
Bis(2-Chloroethoxy)methane	ND		319	ug/Kg	1
Benzoic acid	ND		319	ug/Kg	1
2,4-Dichlorophenol	ND		319	ug/Kg	1
1,2,4-Trichlorobenzene	ND		319	ug/Kg	1
Naphthalene	ND		319	ug/Kg	1
4-Chloroaniline	ND		319	ug/Kg	1
Hexachlorobutadiene	ND		319	ug/Kg	1
4-Chloro-3-methylphenol	ND		319	ug/Kg	1
2-Methylnaphthalene	ND		319	ug/Kg	1
Hexachlorocyclopentadiene	ND		319	ug/Kg	1
2,4,5-Trichlorophenol	ND		319	ug/Kg	1
2,4,6-Trichlorophenol	ND		319	ug/Kg	1
2-Chloronaphthalene	ND		319	ug/Kg	1
2-Nitroaniline	ND		319	ug/Kg	1
3-Nitroaniline	ND		319	ug/Kg	1
Dimethyl phthalate	ND		319	ug/Kg	1
2,6-Dinitrotoluene	ND		319	ug/Kg	1
Acenaphthene	ND		319	ug/Kg	1
2,4-Dinitrophenol	ND		637	ug/Kg	1
4-Nitrophenol	ND		319	ug/Kg	1
Dibenzofuran	ND		319	ug/Kg	1
2,4-Dinitrotoluene	ND		319	ug/Kg	1
Fluorene	ND		319	ug/Kg	1
Diethyl phthalate	ND		319	ug/Kg	1
4-Chlorophenyl phenyl ether	ND		319	ug/Kg	1
4-Nitroaniline	ND		319	ug/Kg	1
4,6-Dinitro-2-methylphenol	ND		319	ug/Kg	1
Diphenylamine	ND		319	ug/Kg	1

Print Date: 03/17/2011

N.C. Certification # 481

Results of **EX-4**

Client Sample ID: **EX-4**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158011-A
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 93

Results by **SW-846 8270D**

Parameter	Result	Qual	LOQ/CL	Units	DF
4-Bromophenyl phenyl ether	ND		319	ug/Kg	1
Hexachlorobenzene	ND		319	ug/Kg	1
Pentachlorophenol	ND		319	ug/Kg	1
Phenanthrene	ND		319	ug/Kg	1
Anthracene	ND		319	ug/Kg	1
Di-n-butyl phthalate	ND		319	ug/Kg	1
Fluoranthene	ND		319	ug/Kg	1
Pyrene	ND		319	ug/Kg	1
Butyl benzyl phthalate	ND		319	ug/Kg	1
Benzo(a)anthracene	ND		319	ug/Kg	1
3,3'-Dichlorobenzidine	ND		319	ug/Kg	1
Chrysene	ND		319	ug/Kg	1
Bis(2-Ethylhexyl)phthalate	ND		319	ug/Kg	1
Di-n-octyl phthalate	ND		319	ug/Kg	1
Benzo(b)fluoranthene	ND		319	ug/Kg	1
Benzo(k)fluoranthene	ND		319	ug/Kg	1
Benzo(a)pyrene	ND		319	ug/Kg	1
Indeno(1,2,3-cd)pyrene	ND		319	ug/Kg	1
Dibenz(a,h)anthracene	ND		319	ug/Kg	1
Benzo(g,h,i)perylene	ND		319	ug/Kg	1
Acenaphthylene	ND		319	ug/Kg	1
Surrogates					
2-Fluorophenol	71.0		42.0-123	%	1
Phenol-d6	70.0		48.0-125	%	1
Nitrobenzene-d5	76.0		46.0-117	%	1
2-Fluorobiphenyl	68.0		48.0-123	%	1
2,4,6-Tribromophenol	59.0		41.0-129	%	1
Terphenyl-d14	74.0		44.0-140	%	1

Batch Information

Analytical Batch: **XMS1015**
Analytical Method: **SW-846 8270D**
Instrument: **MSD10**
Analyst: **CMP**
Analytical Date/Time: **02/25/2011 14:04**

Prep Batch: **XXX1045**
Prep Method: **SW-846 3541**
Prep Date/Time: **02/24/2011 10:20**
Prep Initial Wt./Vol.: **33.92 g**
Prep Extract Vol: **10 mL**

Print Date: 03/17/2011

N.C. Certification # 481

Results of **EX-BASE**

Client Sample ID: **EX-BASE**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158012-F
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 93

Results by **MADEP VPH**

Parameter	Result	Qual	LOQ/CL	Units	DF
C5-C8 Aliphatic	ND		2.53	mg/kg	1
C9-C12 Aliphatic	**8.03**		1.68	mg/kg	1
C9-C10 Aromatic	**5.35**		0.842	mg/kg	1
Surrogates					
FID - 4-Bromofluorobenzene	96.0		70.0-130	%	1
PID - 4-Bromofluorobenzene	97.0		70.0-130	%	1

Batch Information

Analytical Batch: **VGC1035**
Analytical Method: **MADEP VPH**
Instrument: **GC4**
Analyst: **LMC**
Analytical Date/Time: **02/28/2011 21:24**

Prep Batch: **VXX1081**
Prep Method: **SW-846 5035 VPH prep**
Prep Date/Time: **02/28/2011 11:20**
Prep Initial Wt./Vol.: **5.09 g**
Prep Extract Vol: **5 mL**

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Results of **EX-BASE**

Client Sample ID: **EX-BASE**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158012-C
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 93

Results by **SW-846 8260B**

Parameter	Result	Qual	LOQ/CL	Units	DF
Chloromethane	ND		4.96	ug/Kg	1
Vinyl chloride	ND		4.96	ug/Kg	1
Bromomethane	ND		4.96	ug/Kg	1
Chloroethane	ND		4.96	ug/Kg	1
Trichlorofluoromethane	ND		4.96	ug/Kg	1
1,1-Dichloroethene	ND		4.96	ug/Kg	1
Acetone	ND		49.6	ug/Kg	1
Methylene chloride	ND		19.9	ug/Kg	1
trans-1,2-Dichloroethene	ND		4.96	ug/Kg	1
tert-Butyl methyl ether (MTBE)	ND		4.96	ug/Kg	1
1,1-Dichloroethane	ND		4.96	ug/Kg	1
Diisopropyl Ether	ND		4.96	ug/Kg	1
Chloroprene	ND		4.96	ug/Kg	1
2,2-Dichloropropane	ND		4.96	ug/Kg	1
cis-1,2-Dichloroethene	ND		4.96	ug/Kg	1
2-Butanone	ND		24.8	ug/Kg	1
Bromochloromethane	ND		4.96	ug/Kg	1
Chloroform	ND		4.96	ug/Kg	1
1,1,1-Trichloroethane	ND		4.96	ug/Kg	1
Carbon tetrachloride	ND		4.96	ug/Kg	1
1,1-Dichloropropene	ND		4.96	ug/Kg	1
Benzene	ND		4.96	ug/Kg	1
1,2-Dichloroethane	ND		4.96	ug/Kg	1
Trichloroethene	ND		4.96	ug/Kg	1
1,2-Dichloropropane	ND		4.96	ug/Kg	1
Dibromomethane	ND		4.96	ug/Kg	1
Bromodichloromethane	ND		4.96	ug/Kg	1
cis-1,3-Dichloropropene	ND		4.96	ug/Kg	1
4-Methyl-2-pentanone	ND		12.4	ug/Kg	1
Toluene	ND		4.96	ug/Kg	1
Methyl iodide	ND		4.96	ug/Kg	1
trans-1,3-Dichloropropene	ND		4.96	ug/Kg	1
Carbon disulfide	ND		4.96	ug/Kg	1
1,1,2-Trichloroethane	ND		4.96	ug/Kg	1
Tetrachloroethene	ND		4.96	ug/Kg	1
1,3-Dichloropropane	ND		4.96	ug/Kg	1
2-Hexanone	ND		12.4	ug/Kg	1
Dibromochloromethane	ND		4.96	ug/Kg	1
1,2-Dibromoethane	ND		4.96	ug/Kg	1
Chlorobenzene	ND		4.96	ug/Kg	1
1,1,1,2-Tetrachloroethane	ND		4.96	ug/Kg	1
Bromoform	ND		4.96	ug/Kg	1
Bromobenzene	ND		4.96	ug/Kg	1

Print Date: 03/17/2011

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Results of **EX-BASE**

Client Sample ID: **EX-BASE**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158012-C
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 93

Results by **SW-846 8260B**

Parameter	Result	Qual	LOQ/CL	Units	DF
1,1,2,2-Tetrachloroethane	ND		4.96	ug/Kg	1
1,2,3-Trichloropropane	ND		4.96	ug/Kg	1
Ethyl Benzene	ND		4.96	ug/Kg	1
m,p-Xylene	ND		9.93	ug/Kg	1
Styrene	ND		4.96	ug/Kg	1
o-Xylene	ND		4.96	ug/Kg	1
Isopropylbenzene (Cumene)	ND		4.96	ug/Kg	1
n-Propylbenzene	ND		4.96	ug/Kg	1
2-Chlorotoluene	ND		4.96	ug/Kg	1
4-Chlorotoluene	ND		4.96	ug/Kg	1
1,3,5-Trimethylbenzene	ND		4.96	ug/Kg	1
tert-Butylbenzene	ND		4.96	ug/Kg	1
1,2,4-Trimethylbenzene	ND		4.96	ug/Kg	1
sec-Butylbenzene	ND		4.96	ug/Kg	1
1,3-Dichlorobenzene	ND		4.96	ug/Kg	1
4-Isopropyltoluene	ND		4.96	ug/Kg	1
1,4-Dichlorobenzene	ND		4.96	ug/Kg	1
1,2-Dichlorobenzene	ND		4.96	ug/Kg	1
n-Butylbenzene	ND		4.96	ug/Kg	1
1,2-Dibromo-3-chloropropane	ND		29.8	ug/Kg	1
1,2,4-Trichlorobenzene	ND		4.96	ug/Kg	1
Hexachlorobutadiene	ND		4.96	ug/Kg	1
Naphthalene	ND		4.96	ug/Kg	1
trans-1,4-Dichloro-2-butene	ND		24.8	ug/Kg	1
1,2,3-Trichlorobenzene	ND		4.96	ug/Kg	1
Surrogates					
1,2-Dichloroethane-d4	135		55.0-173	%	1
Toluene d8	93.0		57.0-134	%	1
4-Bromofluorobenzene	103		23.0-141	%	1

Batch Information

Analytical Batch: **VMS1033**
Analytical Method: **SW-846 8260B**
Instrument: **MSD9**
Analyst: **DVO**
Analytical Date/Time: **02/25/2011 15:38**

Prep Batch: **VXX1057**
Prep Method: **SW-846 5035 SL**
Prep Date/Time: **02/25/2011 12:38**
Prep Initial Wt./Vol.: **5.4 g**
Prep Extract Vol: **5 mL**

Print Date: 03/17/2011

N.C. Certification # 481

Results of **EX-BASE**

Client Sample ID: **EX-BASE**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158012-A
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 93

Results by **MADEP EPH**

Parameter	Result	Qual	LOQ/CL	Units	DF
C11-C22 Aromatics	ND		14.4	mg/kg	1
C9-C18 Aliphatic Hydrocarbons	ND		5.13	mg/kg	1
C19-C36 Aliphatic Hydrocarbons	ND		6.87	mg/kg	1
Surrogates					
n-Tricosane	101		40.0-140	%	1
o-Terphenyl	80.0		40.0-140	%	1
2-Bromonaphthalene	118		40.0-140	%	1
2-Fluorobiphenyl	104		40.0-140	%	1

Batch Information

Analytical Batch: **XGC1041**
Analytical Method: **MADEP EPH**
Instrument: **GC6**
Analyst: **DTF**
Analytical Date/Time: **03/01/2011 06:35**

Prep Batch: **XXX1053**
Prep Method: **SW-846 3541/8015 EPH**
Prep Date/Time: **02/25/2011 09:01**
Prep Initial Wt./Vol.: **12.54 g**
Prep Extract Vol: **10 mL**

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Results of **EX-BASE**

Client Sample ID: **EX-BASE**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158012-A
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 93

Results by **SW-846 8270D**

Parameter	Result	Qual	LOQ/CL	Units	DF
Phenol	ND		325	ug/Kg	1
Bis(2-Chloroethyl)ether	ND		325	ug/Kg	1
2-Chlorophenol	ND		325	ug/Kg	1
1,3-Dichlorobenzene	ND		325	ug/Kg	1
1,4-Dichlorobenzene	ND		325	ug/Kg	1
1,2-Dichlorobenzene	ND		325	ug/Kg	1
2-Methylphenol	ND		325	ug/Kg	1
3 and/or 4-Methylphenol	ND		325	ug/Kg	1
Bis(2-Chloroisopropyl)ether	ND		325	ug/Kg	1
n-Nitrosodi-n-propylamine	ND		325	ug/Kg	1
Hexachloroethane	ND		325	ug/Kg	1
Nitrobenzene	ND		325	ug/Kg	1
Isophorone	ND		325	ug/Kg	1
2-Nitrophenol	ND		325	ug/Kg	1
2,4-Dimethylphenol	ND		325	ug/Kg	1
Bis(2-Chloroethoxy)methane	ND		325	ug/Kg	1
Benzoic acid	ND		325	ug/Kg	1
2,4-Dichlorophenol	ND		325	ug/Kg	1
1,2,4-Trichlorobenzene	ND		325	ug/Kg	1
Naphthalene	ND		325	ug/Kg	1
4-Chloroaniline	ND		325	ug/Kg	1
Hexachlorobutadiene	ND		325	ug/Kg	1
4-Chloro-3-methylphenol	ND		325	ug/Kg	1
2-Methylnaphthalene	ND		325	ug/Kg	1
Hexachlorocyclopentadiene	ND		325	ug/Kg	1
2,4,5-Trichlorophenol	ND		325	ug/Kg	1
2,4,6-Trichlorophenol	ND		325	ug/Kg	1
2-Chloronaphthalene	ND		325	ug/Kg	1
2-Nitroaniline	ND		325	ug/Kg	1
3-Nitroaniline	ND		325	ug/Kg	1
Dimethyl phthalate	ND		325	ug/Kg	1
2,6-Dinitrotoluene	ND		325	ug/Kg	1
Acenaphthene	ND		325	ug/Kg	1
2,4-Dinitrophenol	ND		649	ug/Kg	1
4-Nitrophenol	ND		325	ug/Kg	1
Dibenzofuran	ND		325	ug/Kg	1
2,4-Dinitrotoluene	ND		325	ug/Kg	1
Fluorene	ND		325	ug/Kg	1
Diethyl phthalate	ND		325	ug/Kg	1
4-Chlorophenyl phenyl ether	ND		325	ug/Kg	1
4-Nitroaniline	ND		325	ug/Kg	1
4,6-Dinitro-2-methylphenol	ND		325	ug/Kg	1
Diphenylamine	ND		325	ug/Kg	1

Print Date: 03/17/2011

N.C. Certification # 481

Results of **EX-BASE**

Client Sample ID: **EX-BASE**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158012-A
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 93

Results by **SW-846 8270D**

Parameter	Result	Qual	LOQ/CL	Units	DF
4-Bromophenyl phenyl ether	ND		325	ug/Kg	1
Hexachlorobenzene	ND		325	ug/Kg	1
Pentachlorophenol	ND		325	ug/Kg	1
Phenanthrene	ND		325	ug/Kg	1
Anthracene	ND		325	ug/Kg	1
Di-n-butyl phthalate	ND		325	ug/Kg	1
Fluoranthene	ND		325	ug/Kg	1
Pyrene	ND		325	ug/Kg	1
Butyl benzyl phthalate	ND		325	ug/Kg	1
Benzo(a)anthracene	ND		325	ug/Kg	1
3,3'-Dichlorobenzidine	ND		325	ug/Kg	1
Chrysene	ND		325	ug/Kg	1
Bis(2-Ethylhexyl)phthalate	ND		325	ug/Kg	1
Di-n-octyl phthalate	ND		325	ug/Kg	1
Benzo(b)fluoranthene	ND		325	ug/Kg	1
Benzo(k)fluoranthene	ND		325	ug/Kg	1
Benzo(a)pyrene	ND		325	ug/Kg	1
Indeno(1,2,3-cd)pyrene	ND		325	ug/Kg	1
Dibenz(a,h)anthracene	ND		325	ug/Kg	1
Benzo(g,h,i)perylene	ND		325	ug/Kg	1
Acenaphthylene	ND		325	ug/Kg	1
Surrogates					
2-Fluorophenol	72.0		42.0-123	%	1
Phenol-d6	71.0		48.0-125	%	1
Nitrobenzene-d5	78.0		46.0-117	%	1
2-Fluorobiphenyl	69.0		48.0-123	%	1
2,4,6-Tribromophenol	59.0		41.0-129	%	1
Terphenyl-d14	76.0		44.0-140	%	1

Batch Information

Analytical Batch: **XMS1015**
Analytical Method: **SW-846 8270D**
Instrument: **MSD10**
Analyst: **CMP**
Analytical Date/Time: **02/25/2011 14:27**

Prep Batch: **XXX1045**
Prep Method: **SW-846 3541**
Prep Date/Time: **02/24/2011 10:20**
Prep Initial Wt./Vol.: **33.06 g**
Prep Extract Vol: **10 mL**

Print Date: 03/17/2011

N.C. Certification # 481

Results of **T1-L1**

Client Sample ID: **T1-L1**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158013-B
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 93

Results by **SW-846 8015C GRO**

Parameter	Result	Qual	LOQ/CL	Units	DF
Gasoline Range Organics (GRO)	ND		4.57	mg/kg	1
Surrogates					
4-Bromofluorobenzene	103		70.0-130	%	1

Batch Information

Analytical Batch: **VGC1023**
Analytical Method: **SW-846 8015C GRO**
Instrument: **GC4**
Analyst: **LMC**
Analytical Date/Time: **02/23/2011 00:26**

Prep Batch: **VXX1050**
Prep Method: **SW-846 5035**
Prep Date/Time: **02/22/2011 17:42**
Prep Initial Wt./Vol.: **4.71 g**
Prep Extract Vol: **5 mL**

SGS North America Inc.
5500 Business Drive, Wilmington, NC 28405
t 910.350.1903 **f** 910.350.1557 www.us.sgs.com

Results of **T1-L1**

Client Sample ID: **T1-L1**
Client Project ID: **Row-312 Parcel 169**
Lab Sample ID: 31100158013-A
Lab Project ID: 31100158

Collection Date: 02/18/2011 00:00
Received Date: 02/19/2011 09:30
Matrix: Soil
Solids (%): 93

Results by **SW-846 8015C DRO**

Parameter	Result	Qual	LOQ/CL	Units	DF
Diesel Range Organics (DRO)	**2320**		132	mg/kg	20
Surrogates					
o-Terphenyl	123		40.0-140	%	20

Batch Information

Analytical Batch: **XGC1037**
Analytical Method: **SW-846 8015C DRO**
Instrument: **GC6**
Analyst: **DTF**
Analytical Date/Time: **02/28/2011 19:15**

Prep Batch: **XXX1046**
Prep Method: **SW-846 3541**
Prep Date/Time: **02/24/2011 10:20**
Prep Initial Wt./Vol.: **32.62 g**
Prep Extract Vol: **10 mL**

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098599

(1) CLIENT: HART & HICKMAN, PC (NCDOT)

CONTACT: DAVID GRAHAM PHONE NO:(704) 586-0007

PROJECT: ROW-312, PARCEL 169 SITE/PWSID#: TIP# U-2810C WBS# 34866.3.3

REPORTS TO: DAVID GRAHAM dgRAHAM@HARTHICKMAN.COM FAX NO.:( )

INVOICE TO: QUOTE #:

(2) HART & HICKMAN, FOR NCDOT P.O. NUMBER: 4300129799 (NCDOT)

SGS Reference: 311 00158

PAGE 1 OF 2

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No CONTAINERS	SAMPLE TYPE (C=COMP G=GRAB)	Preservatives Used	N/A	Meth.	N/A	N/A	Meth. NaHSO4	Meth.				REMARKS
	(3) Analysis Required							DRO	GRO	SVOC	EPH	VOC	VPH				
001	T1-S1	2/18/11		SOIL	3	G		X	X								
002	T1-S2	2/18/11		SOIL	3	G		X	X								
014	SW-1	2/18/11		SOIL	8	G				X	X	X	X				
004	SW-2	2/18/11		SOIL	8	G				X	X	X	X				
005	SW-3	2/18/11		SOIL	8	G				X	X	X	X				
006	SW-4	2/18/11		SOIL	8	G				X	X	X	X				
007	BASE-1	2/18/11		SOIL	8	G				X	X	X	X				
008	EX-1	2/18/11		SOIL	8	G				X	X	X	X				
009	EX-2	2/18/11		SOIL	8	G				X	X	X	X				
010	EX-3	2/18/11		SOIL	8	G				X	X	X	X				

(5)

Collected/Relinquished By:(1)	Date	Time	Received By:
Keri Buchanan	2/18/11	1700	FEDERAL EXPRESS
Relinquished By: (2)	Date 2/19/11	Time 930	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received By:

(4)

Shipping Carrier: FEDEX AIRBILL #796774121681
Shipping Ticket No:

Samples Received Cold? (Circle) YES NO
Temperature°C: 4.5

Special Deliverable Requirements:

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Special Instructions:

Requested Turnaround Time:
☐ RUSH _____ Date Needed ☑ STD

❑ 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 -
Pink -

SGS

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098600

1 CLIENT: HART & HICKMAN, PC (NCDOT)
CONTACT: DAVID GRAHAM PHONE NO: (704) 586-0007
PROJECT: ROW-312, PARCEL 169 SITE/PWSID#: TIP# U-2810C WBS# 34866.3.3
REPORTS TO: DAVID GRAHAM dgraham@harthickman.com FAX NO.: ( )
INVOICE TO: HART & HICKMAN, FOR NCDOT QUOTE #: P.O. NUMBER: 4300129799 (NCDOT)

SGS Reference: 31100158

PAGE 2 OF 2

Preservatives Used: N/A, N/A, Meth NaHSO4, Meth, Meth, N/A

3 Analysis Required

2 LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No CONTAINERS	SAMPLE TYPE (C= COMP, G= GRAB)	SVOC	EPH	VOC	VPH	GRO	DRO					REMARKS
011	EX-4	2/18/11		SOIL		G	X	X	X	X							
012	EX-BASE	2/18/11		SOIL		G	X	X	X	X							
013	TI-LI	2/18/11		SOIL	3	G					X	X					

5

Collected/Relinquished By: (1)	Date	Time	Received By:
Kevin Buchanan	2/18/11	1700	Federal Express
Relinquished By: (2)	Date 2/19/11	Time 9:30	Received By: [signature]
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received By:

4 Shipping Carrier: Fedex
Shipping Ticket No: AIRBILL # 7967 7412 1681

Samples Received Cold? (Circle) YES (circled) NO
Temperature °C: 4.5

Special Deliverable Requirements:

Chain of Custody Seal: (Circle) INTACT (circled) BROKEN ABSENT

Special Instructions:

Requested Turnaround Time:
☐ RUSH ________ Date Needed ☑ STD

SGS North America Inc.

Sample Receipt Checklist (SRC)

Client: Hart & Hickman Lab Proj. ID: 31100758

Client Proj. ID:

1. [X] Shipped
   [ ] Hand Delivered
   Notes:

2. [X] COC Present on Receipt
   [ ] No COC
   [ ] Additional Transmittal Forms

3. [X] Custody Tape on Container
   [ ] No Custody Tape

4. [X] Samples Intact
   [ ] Samples Broken / Leaking

5. [X] Chilled on Receipt Actual Temp.(s) in °C: 4.5°C
   [ ] Ambient on Receipt
   [ ] Walk-in on Ice; Coming down to temp.
   [ ] Received Outside of Temperature Specifications

6. [X] Sufficient Sample Submitted
   [ ] Insufficient Sample Submitted

7. [X] Samples Preserved Correctly
   [ ] Improper Preservative(s)
   [ ] None recommended (N/A)
   (see preservative checklist where applicable)

8. [X] Received Within Holding Time
   [ ] Not Received Within Holding Time

9. [ ] No Discrepancies Noted
   [X] Discrepancies Noted

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

Comments: No collection times on COC or sample Label.

Report Type:

PM Instructions:

Inspected and Logged in by:

Date / Time: