

**PRELIMINARY SITE ASSESSMENT  
PARCEL #10  
HARDIN OIL COMPANY PROPERTY  
9422 WEST MARKET STREET  
COLFAX, GUILFORD COUNTY, NORTH CAROLINA  
STATE PROJECT: R-2611  
WBS ELEMENT: 34482.1.1**

**Prepared for:**

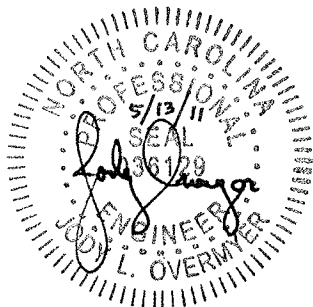
**NC Department of Transportation**  
Geotechnical Engineering Unit  
GeoEnvironmental Section  
1589 Mail Service Center  
Raleigh, North Carolina 27699-1589

**Prepared by:**

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**Solutions-IES Project No. 3948.11A3.NDOT**

**May 3, 2011**



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Jody Overmyer, P.E.  
Project Engineer

A handwritten signature in black ink, appearing to read "Sheri L. Knox".

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Sheri L. Knox  
Senior Project Manager

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## **1.0 INTRODUCTION**

Parcel #10 (Hardin Oil Company Property) in Guilford County is currently occupied by Colfax Service Center located at 9422 West Market Street and adjacent Colfax Gun & Ammo located at 9420 West Market Street, Colfax, Guilford County, North Carolina. The location of the property is shown on **Figures 1 and 2**. The North Carolina Department of Transportation (NCDOT) plans to acquire a portion of this property due to the planned expansion of West Market Street. This report summarizes the results of field and laboratory activities conducted during the Preliminary Site Assessment (PSA) of the subject property. The scope of work executed at the site was performed in general accordance with Solutions-IES proposal NC11017 dated February 11, 2011, and was initiated based on a Notice to Proceed issued by the NCDOT Preconstruction Professional Services Management Unit on February 17, 2011, under contract 7000010453, dated June 25, 2009.

## **2.0 BACKGROUND AND SITE DESCRIPTION**

Parcel #10 is currently developed with two commercial buildings occupied by Colfax Service Station at 9422 West Market Street and adjacent Colfax Gun & Ammo at 9420 West Market Street. Two former underground storage tank (UST) facilities, the Colfax Service Station and the Colfax Oil Company, were reported for Parcel #10. The Colfax Service Station was assigned Facility I.D. Number 0-009519 and Groundwater Incident Number 19240. Colfax Oil Company was assigned Facility I.D. Number 0-009524 and Groundwater Incident Number 20028. File reviews were conducted at the North Carolina Department of Environment and Natural Resources (NCDENR) Winston-Salem, North Carolina regional office and the Guilford County Health Department for the referenced incidents.

According to a UST Closure Letter from the file review, five USTs were removed from Facility I.D. Number 0-009519 on March 17, 1999. At that time, the facility was referred to as the Colfax Phillips 66. During the UST closure, petroleum impacted soils were encountered and an additional five feet of soil was excavated to a depth of 16 feet below ground surface (ft bgs). Confirmation soil samples collected during closure indicated the presence of petroleum constituents at one sampling location which exceeded regulatory limits. A Limited Site Assessment (LSA) was initiated in response to the UST closure which identified petroleum contamination in groundwater at the site above regulatory limits. Monitoring wells were installed in 2000 and 2001 to evaluate the extent of the contaminant plume along with soil sampling and free product recovery events in 2001 as part of a Comprehensive Site Assessment (CSA). A single CSA was submitted in April 2004 for both the Colfax Phillips 66 and Colfax Oil Company. The Colfax

Oil Company reportedly had three USTs and two aboveground storage tanks (ASTs) that were also removed in 1999. Two additional orphan USTs were identified in May 2004. During removal, it was observed that the orphan USTs were leaking, contributing to a second groundwater contaminant plume at the Colfax Oil Company/Colfax Service Station site. In June 2006, contamination was detected in an offsite private groundwater supply well and linked to the Colfax Oil Company/Colfax Service Station contaminant plumes. The last correspondence from NCDENR to the current property owner indicated that a Corrective Action Plan is required to be submitted for both incidents. Solutions-IES did not find Corrective Action Plan on file.

The PSA associated with current work at the site was performed within the proposed right-of-way (ROW) and/or easement stretching west from Colfax Gun & Ammo towards Ira Drive along the south side of the Colfax Gun & Ammo store front and south and west sides of the Colfax Service Station building. Work was not performed in areas of the property outside of the proposed ROW and/or easement. Photographs of the site are included in **Appendix A**.

### **3.0 FIELD ACTIVITIES**

Prior to mobilizing to the site to conduct work, Solutions-IES contacted North Carolina One Call and contracted KCI Associates of North Carolina, P.A. (KCI) to locate underground utilities at the site. Pyramid Environmental & Engineering, P.C. (Pyramid) was contracted to perform a geophysical survey, and mobilized to the study area March 3 and March 8, 2011. The geophysical investigation consisted of electromagnetic (EM) induction-metal detection surveys using a Geonics EM61-MK1 metal detection instrument and ground penetrating radar (GPR) surveys using a GSSI SIR-2000 unit equipped with a 400 MHz antenna. Results of the survey suggested that the proposed ROW and/or easement at Parcel #10 does not contain buried metallic USTs. Images of the EM and GPR findings are included in the geophysical report included as **Appendix B**. After a review of the geophysical report, Solutions-IES mobilized to the site on March 28, 2011, to collect soil samples. Nine soil borings were advanced to a depth of 8 feet below ground surface (ft bgs). Soil borings were advanced using a Geoprobe<sup>®</sup>. The approximate location of the soil borings are displayed in **Figure 3**. The GPS coordinates of the boring locations are included in **Appendix C**.

A Macro-Core<sup>®</sup> sampler fitted with a dedicated polyvinyl chloride (PVC) liner was used to collect samples at 2-foot intervals. Each soil sample was split into two aliquots. Each aliquot was placed in a

separate resealable plastic bag. One bag was placed on ice for possible laboratory analysis, while the other bag was sealed and placed at ambient temperature for field screening with a flame ionization detector (FID). After approximately 20 minutes to allow accumulation of volatile organic compounds (VOCs) in the headspace of the bag, each sealed bag was scanned with the FID. The FID measurements were entered into the field logbook along with the soil description and any indications of petroleum staining or odor. That information was subsequently transferred onto boring logs. The boring logs are provided in **Appendix D** and the field screening results are summarized in **Table 1**. The field screening results are also summarized on the boring logs.

The subsurface at the site generally consisted of red-brown sandy to silty clays (Unified Soil Classification CL). Soils were dry to moist and groundwater was not encountered in the borings to a depth of 8 ft bgs.

**Table 1** shows the FID field screening results of the soils ranged from not detected to 1.50 parts per million (ppm). A soil sample was collected from each boring at the interval identified in **Table 1** and was placed in laboratory-supplied jars and stored on ice pending courier service to SGS Laboratories in Wilmington, NC. Sample information was recorded on the chain-of-custody form, and the samples were submitted for analysis of Massachusetts Department of Environmental Protection (MADEP) volatile petroleum hydrocarbons (VPH), MADEP extractable petroleum hydrocarbons (EPH), VOCs by EPA Method 8260B and semi-volatile organic compounds (SVOC) by EPA Method 8270D.

#### **4.0 LABORATORY RESULTS**

The laboratory analytical results from samples collected indicate the presence of VOCs in soil at concentrations above the laboratory reporting limits at Parcel #10. The analytical results are summarized in **Table 2**, and the laboratory report is included in **Appendix E**.

Specifically, diisopropyl ether was detected in borings 10-3 and 10-4 at concentrations of 14.4 and 14.8 micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ), respectively, and methyl *tert*-butyl ether (MTBE) was detected in boring 10-4 at a concentration of 9.70  $\mu\text{g}/\text{kg}$ .

#### **5.0 DISCUSSION/CONCLUSIONS**

The geophysical survey conducted at the site suggested that no buried metallic objects such as a UST are present within the surveyed portion of the proposed ROW and/or easement. Solutions-IES advanced nine soil borings to a depth of 8 ft bgs. The highest FID reading measured 1.50 ppm in boring 10-4 at a depth of 6 to 8 ft bgs. Soil samples from two of the nine borings (10-3 and 10-4) indicate the presence of VOCs above laboratory limits but below the soil to groundwater maximum soil contaminant concentrations (MSCCs) specified in the *Guidelines for Site Checks, Tank Closure, and Initial Response and Abatement* (UST Section, North Carolina Department of Environment and Natural Resources [NCDENR], Division of Waste Management [DWM], March 1, 2007; Version; Change 3, Effective December 1, 2008).

PSA sampling results indicate that soil is not impacted within the proposed ROW and/or easement area of Parcel #10 in excess of the MSCCs. However, based on historic site data, groundwater is impacted at the Colfax Oil Company/Colfax Service Station site, and may be impacted beneath the proposed ROW and/or easement. The West Market Street expansion project planned by NCDOT at Parcel #10 does not appear to include excavation or groundwater removal during construction activities. However, Solutions-IES recommends that NCDOT be prepared to monitor, transport and dispose of impacted saturated soil/groundwater during construction activities and consider exposure of workers to impacted media should excavation or dewatering become necessary.

## **TABLES**

**Table 1**  
**Summary of Field Screening Results for Soil**  
**NCDOT Parcel #10**  
**9422 West Market Street**  
**Colfax, Guilford County, North Carolina**  
**WBS Element: 34482.1.1; State Project: R-2611**  
**Sample Collection Date: March 28, 2011**

Sample Depth Below Ground Surface	Soil Boring								
	10-1	10-2	10-3	10-4	10-5	10-6	10-7	10-8	10-9
	FID Reading (ppm)								
0 - 2 feet	0.17	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.70
2 - 4 feet	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4 - 6 feet	0.00	0.00	0.00	0.60	0.00	0.00	0.40	0.00	0.00
6 - 8 feet	0.00	0.00	0.69	1.50	0.30	0.00	0.00	0.00	0.00

Notes:

Samples denoted by shaded cells were submitted for laboratory analysis.  
 FID readings were obtained with a Foxboro TVA 1000 Vapor Analyzer.  
 ppm = parts per million



**Table 2**  
**Summary of Soil Analytical Results**  
**Parcel #10**  
**9422 West Market Street**  
**Colfax, Guilford County, North Carolina**  
**WBS Element: 34482.1.1; State Project: R-2611**  
**Sample Collection Date: March 28, 2011**

Analytical Method (e.g., VOC by EPA 8260)		MADEP VPH			MADEP EPH			VOC by EPA 8260B		SVOC by EPA 8270B
Units		mg/kg			mg/kg			ug/kg		ug/kg
Contaminant of Concern		C5-C8 Aliphatic	C9-C12 Aliphatic	C9-C10 Aromatic	C11-C22 Aromatics	C9-C18 Aliphatic	C19-C36 Aliphatic	Diisopropyl Ether	methyl <i>tert</i> -Butyl ether (MTBE)	All Constituents
Sample ID	Date Collected (m/dd/yyyy)									
10-1-6-8	3/28/2011	<4.99	<4.99	<4.99	<16.4	<5.85	<7.85	<5.56	<5.56	All Semi-Volatiles below Reporting Limit
10-2-6-8	3/28/2011	<5.68	<5.68	<5.68	<16.3	<5.83	<7.82	<5.13	<5.13	
10-3-6-8	3/28/2011	<4.87	<4.87	<4.87	<16.0	<5.73	<7.68	<b>14.4</b>	<4.75	
10-4-6-8	3/28/2011	<4.91	<4.91	<4.91	<18.9	<6.74	<9.03	<b>14.8</b>	<b>9.70</b>	
10-5-6-8	3/28/2011	<5.10	<5.10	<5.10	<17.8	<6.37	<8.53	<4.71	<4.71	
10-6-6-8	3/28/2011	<5.04	<5.04	<5.04	<18.2	<6.50	<8.71	<5.13	<5.13	
10-7-6-8	3/28/2011	<5.63	<5.63	<5.63	<17.2	<6.14	<8.23	<5.06	<5.06	
10-8-6-8	3/28/2011	<5.40	<5.40	<5.40	<17.0	<6.06	<8.12	<5.62	<5.62	
10-9-6-8	3/28/2011	<5.64	<5.64	<5.64	<20.7	<7.40	<9.91	<5.84	<5.84	
<b>Soil to groundwater MSCC</b>		72	3300	34	34	3,300	NE	370	920	
<b>Residential MSCC</b>		939	9,386	469	469	9,386	93,860	156,000	213,000	NA
<b>Industrial/Commercial MSCC</b>		24,528	245,280	12,264	12,264	245,280	NE	4,088,000	1,908,000	NA

Notes:

mg/kg = milligrams per kilogram

ug/kg = micrograms per kilogram

MSCC = Maximum Soil Contaminant Concentrations

NE = Not established

NA = Not applicable

Bold values indicate detection above laboratory reporting limit.

## **FIGURES**

PROJECT NUMBER  
3948.11A3.NDOT

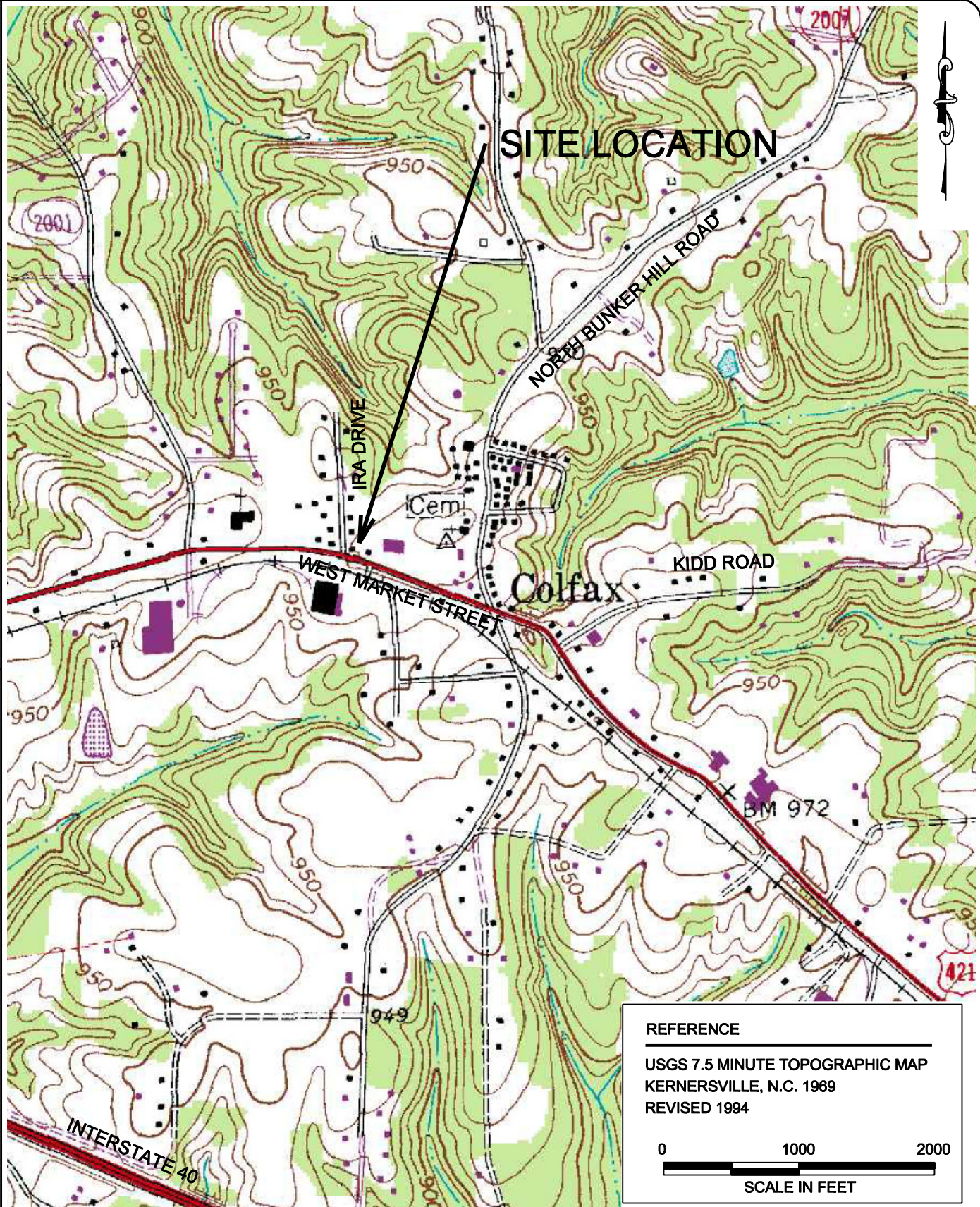
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PROJECT MANAGER  
JO

DATE  
3/22/2011

FILE  
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**REFERENCE**

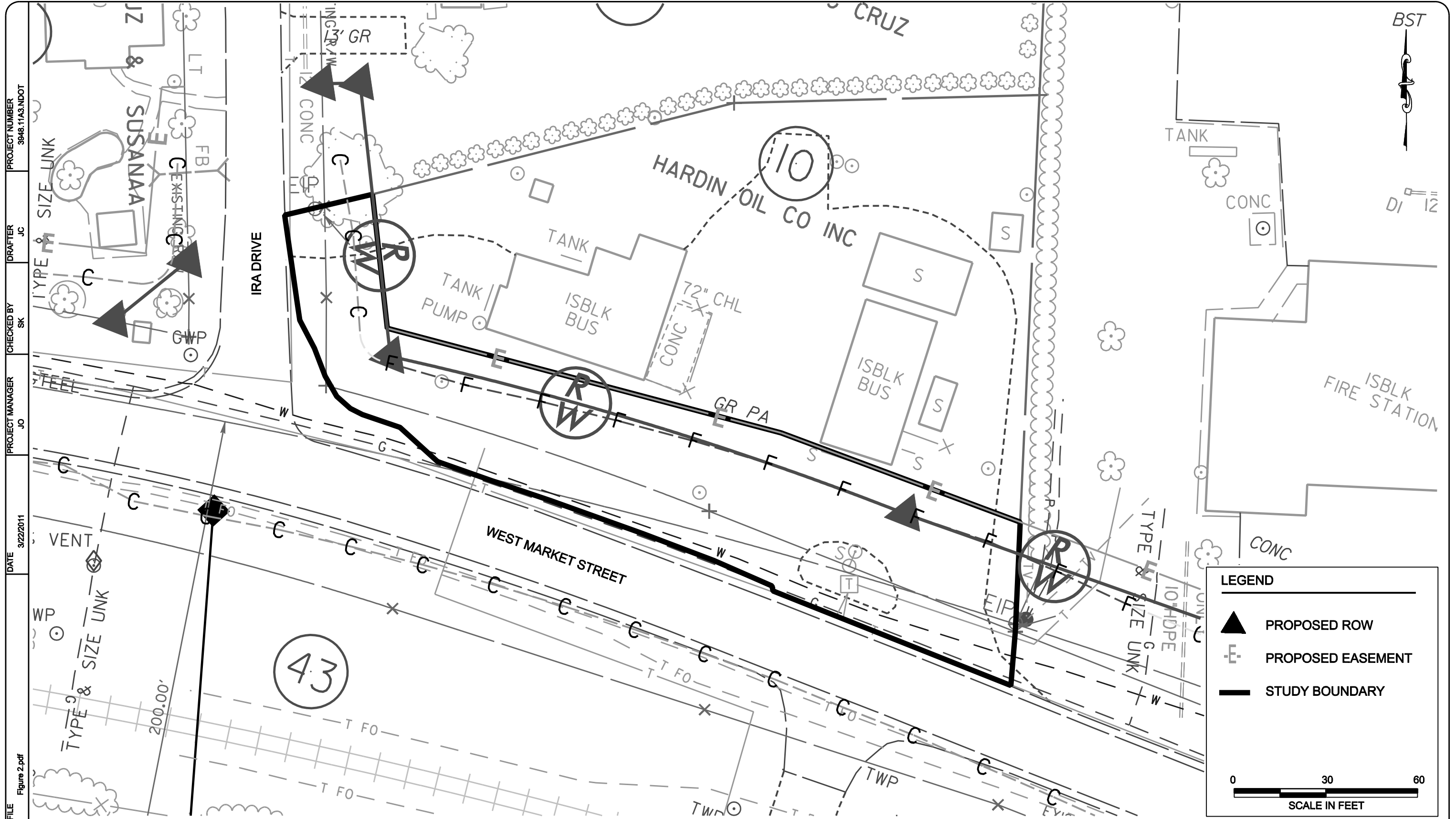
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SCALE IN FEET

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**SITE LOCATION**  
PARCEL #10 - HARDIN OIL COMPANY  
9422 WEST MARKET STREET  
COLFAX, GUILFORD COUNTY, NORTH CAROLINA  
STATE PROJECT: R-2611  
WBS ELEMENT: 34482.1.1

FIGURE:  
1



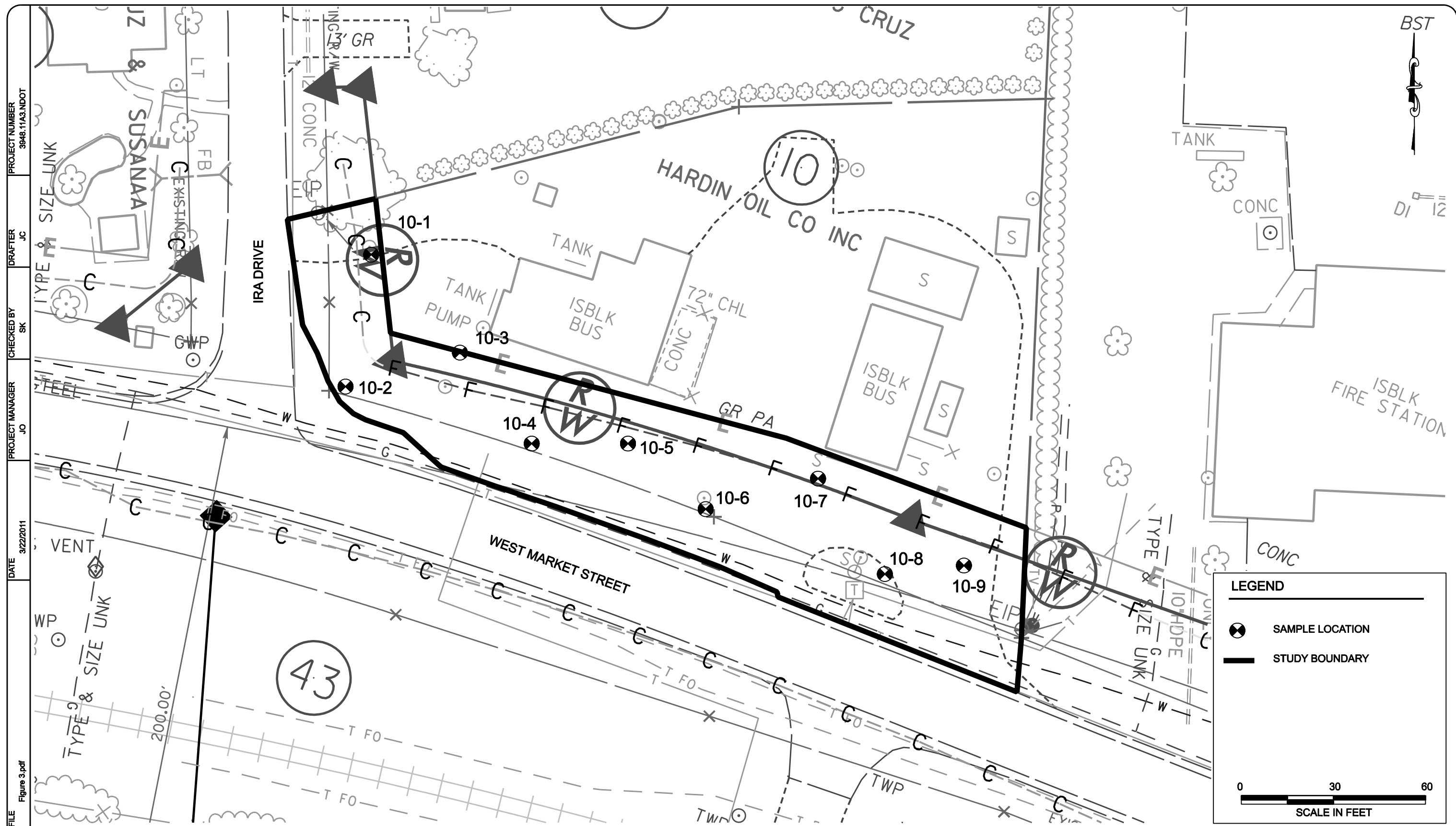
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PARCEL #10 - HARDIN OIL COMPANY, INC.  
 9422 WEST MARKET STREET  
 COLFAX, GUILFORD COUNTY, NORTH CAROLINA  
 STATE PROJECT: R-2611  
 WBS ELEMENT: 34482.1.1

SITE MAP

FIGURE:  
2



**APPENDIX A**  
**PHOTOGRAPHS**

Appendix A - Photographs



**Photograph 1** – View of Parcel #10 looking west from Colfax Gun & Ammo towards Colfax Service Station and Ira Drive.



**Photograph 2** – View of Parcel #10 looking east from Ira Drive towards Colfax Service Station.

Appendix A - Photographs



**Photograph 3** – View of Geoprobe and boring location 10-3 on the south side of Parcel #10 in front of Colfax Service Station.



**Photograph 4** – View of an existing site monitoring well near boring location 10-1.



**APPENDIX B**  
**GEOPHYSICAL REPORT**

## **GEOPHYSICAL INVESTIGATION REPORT**

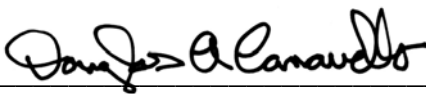
### *EM61 & GPR SURVEYS*

**HARDIN OIL COMPANY, INC. PROPERTY (PARCEL 10)  
Colfax, North Carolina**

**March 15, 2011**

**Report prepared for: Jody L. Overmyer, P.E.  
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**Solutions-IES**  
**GEOPHYSICAL INVESTIGATION REPORT**  
**HARDIN OIL COMPANY, INC. PROPERTY (PARCEL 10)**  
**Colfax, North Carolina**

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

## **1.0 INTRODUCTION**

Pyramid Environmental conducted geophysical investigations for Solutions-IES across the proposed Right-of-Way (ROW) portion of the Hardin Oil Company, Inc. property (Parcel 10) located at 9422 West Market Street in Colfax, North Carolina. The Colfax Auto Service Center and the Colfax Gun & Ammo businesses presently operate on the property. The proposed ROW area of Parcel 10 consists primarily of gravel and asphalt-covered surfaces that lie adjacent to the two business buildings.

Conducted on March 3 and 8, 2011, the geophysical investigation was performed as part of the North Carolina Department of Transportation (NCDOT) preliminary site assessment project to determine if unknown, metallic underground storage tanks (UST's) were present beneath the area of interest at Parcel 10. Solutions-IES representative, Ms. Jody Overmyer, P.E. provided site maps that identified the geophysical survey area perimeter to Pyramid Environmental personnel. The survey area has a maximum length and width of 260 feet and 100 feet, respectively. Photographs of the geophysical equipment used in this investigation and the geophysical survey area at the Hardin Oil Company, Inc. property are shown in **Figure 1**.

## **2.0 FIELD METHODOLOGY**

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

The geophysical investigation consisted of electromagnetic (EM) induction-metal detection surveys and ground penetrating radar (GPR) surveys. The EM survey was performed on March 3, 2011 using a Geonics EM61-MK1 metal detection instrument. According to the instrument specifications, the EM61 can detect a metal drum down to a maximum depth of approximately 8 feet. Smaller objects (1-foot or less in size) can be detected to a maximum depth of 4 to 5 feet. All of the EM61 data were

digitally collected at approximately 0.8 foot intervals along northerly-southerly or easterly-westerly parallel survey lines spaced five feet apart. All of the data were downloaded to a computer and reviewed in the field and office using the Geonics DAT61W and Surfer for Windows Version 7.0 software programs.

GPR surveys were conducted on March 8, 2011 across selected areas recording EM61 differential anomalies using a GSSI SIR-2000 unit equipped with a 400 MHz antenna. Data were digitally collected in a continuous mode along X-axis and/or Y-axis survey lines, spaced 2.5 to 5.0 feet apart using a vertical scan of 512 samples, at a rate of 48 scans per second. A 70 MHz high pass filter and an 800 MHz low pass filter were used during data acquisition with the 400 MHz antenna. GPR data were collected down to a maximum depth of approximately 5 feet, based on an estimated two-way travel time of 8 nanoseconds per foot. All of the GPR data were downloaded to a field computer and reviewed in the field and office using Radprint software.

Locations of the EM61 metal detection survey lines and the GPR survey lines acquired across the geophysical survey area are shown as red dots and purple lines, respectively in **Figure 2**. Each red dot represents an EM61 data point.

Contour plots of the EM61 bottom coil and differential results are presented in **Figures 3 and 4**, respectively. The bottom coil results represent the most sensitive component of the EM61 instrument and detect metal objects regardless of size. The bottom coil response can be used to delineate metal conduits or utility lines, small, isolated metal objects, and areas containing insignificant metal debris. The differential results are obtained from the difference between the top and bottom coils of the EM61 instrument. The differential results focus on the larger metal objects such as drum and UST-size objects and ignore the smaller insignificant metal objects.

Preliminary contour plots of the EM61 bottom coil and EM61 differential results obtained from the survey area were emailed to Ms. Overmyer on March 13, 2011.

### **3.0 DISCUSSION OF RESULTS**

The linear EM61 bottom coil anomaly running along the edge of West Market Street and intersecting grid coordinates X=160 Y=25 is probably in response to several buried utility lines. The short linear bottom coil anomalies intersecting grid coordinates X=144 Y=67 and X=278 Y=36 are probably in response to buried conduits or lines.

GPR data suggest the high amplitude EM anomalies (contours shaded in red) centered near grid coordinates X=140 Y=58 and X=225 Y=35 are in response to the hydraulic vehicle lift and a business sign, respectively. GPR data also suggest that the EM61 differential anomalies centered near grid coordinates X=135 Y=67 and 210 Y=67 are in response to the buildings, bollards and/or miscellaneous equipment.

The remaining EM61 anomalies are probably in response to known surface objects or to buried miscellaneous debris. The geophysical investigation suggests that the surveyed portion of Parcel 10 does not contain metallic USTs.

### **4.0 SUMMARY & CONCLUSIONS**

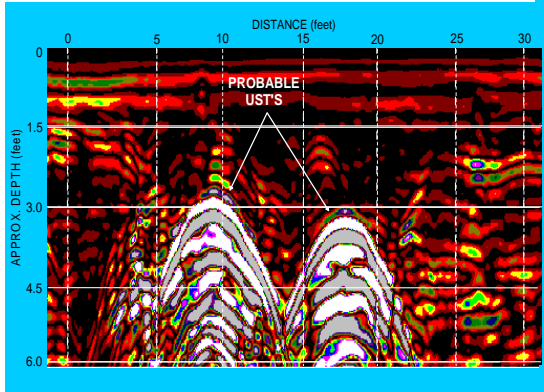
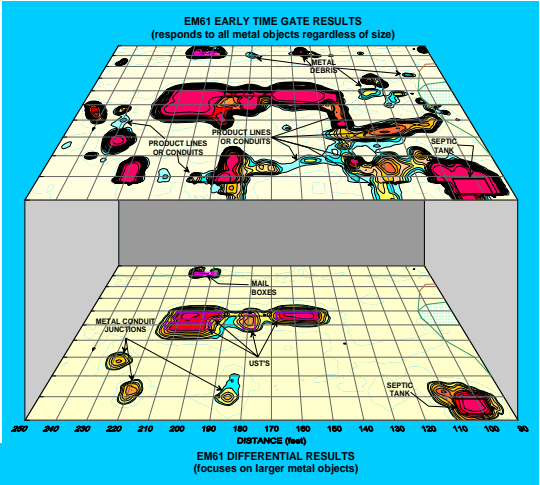
Our evaluation of the EM61 and GPR data collected across the proposed ROW area at the Hardin Oil Company, Inc. property (Parcel 10) located at 9422 West Market Street in Colfax, North Carolina, provides the following summary and conclusions:

- The EM61 and GPR surveys provided reliable results for the detection of metallic USTs within the surveyed portion of the site.
- The linear EM61 bottom coil anomaly running along the edge of West Market Street and intersecting grid coordinates X=160 Y=25 is probably in response to several buried utility lines.

- GPR data suggest the high amplitude EM anomalies (contours shaded in red) centered near grid coordinates X=140 Y=58 and X=225 Y=35 are in response to the hydraulic vehicle lift and a business sign, respectively.
- The geophysical investigation suggests that the surveyed portion of the site does not contain buried metallic USTs.

## **5.0 LIMITATIONS**

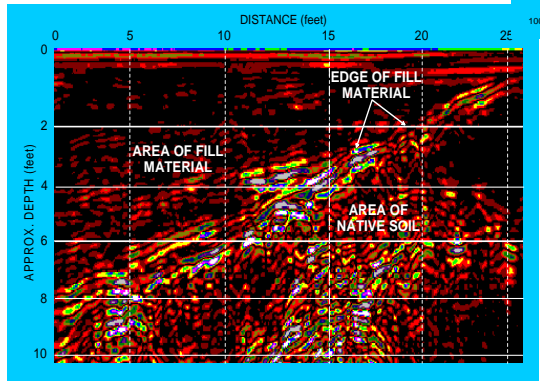
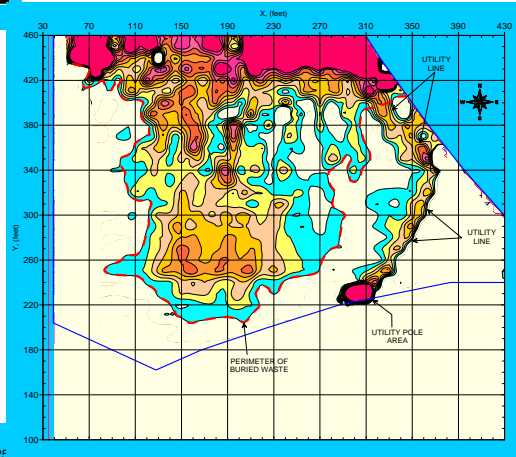
EM61 and GPR surveys have been performed and this report prepared for Solutions-IES in accordance with generally accepted guidelines for EM61 and GPR surveys. It is generally recognized that the results of the EM61 and GPR are non-unique and may not represent actual subsurface conditions. The EM61 and GPR results do not conclusively determine that the proposed ROW area of the site does not contain metallic USTs but that none were detected.



## FIGURES

(on the following pages)

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





The photograph shows the Geonics EM61 metal detector that was used to conduct the metal detection survey across the proposed Right-of-Way area at Parcel 10 on March 3, 2011.



The photographs show the SIR-2000 GPR system equipped with a 400 MHz antenna that were used to conduct the ground penetrating radar investigation at Parcel 10 on March 8, 2011.



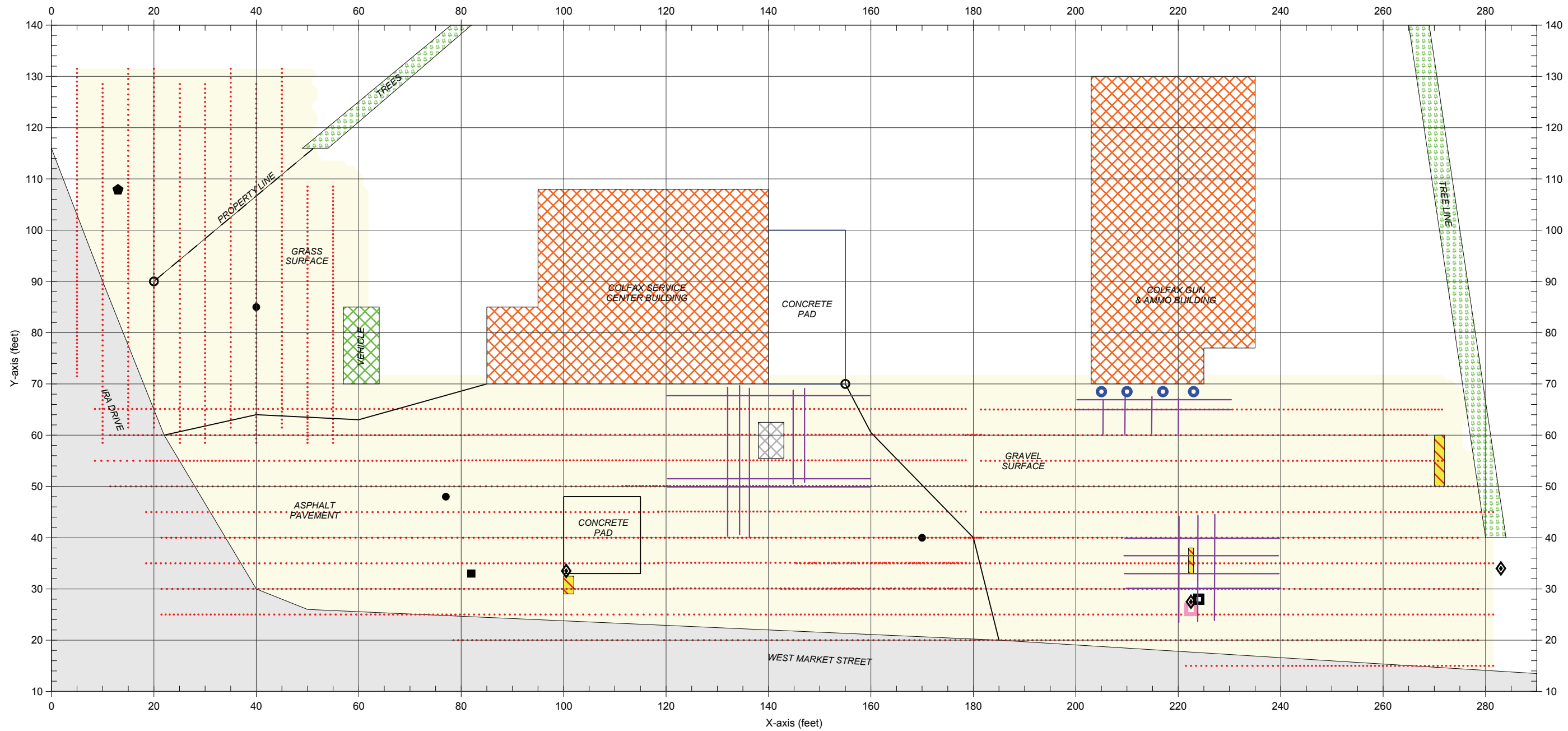
The photograph shows the proposed Right-of-Way area at the Hardin Oil Company, Inc. property located at 9422 West Market Street in Colfax, North Carolina. The photograph is viewed in a northeasterly direction.



CLIENT	SOLUTIONS-IES			DATE	03/15/11	BY	MJD
SITE	HARDIN OIL COMPANY, INC. PROPERTY (PARCEL 10)			LAY		CHKD	
CITY	COLFAX	STATE	NORTH CAROLINA	DRWG		PROJ#	
TITLE	GEOPHYSICAL RESULTS			PLNO	2011-048	PROJ#	

GEOPHYSICAL EQUIPMENT & SITE PHOTOGRAPHS

FIGURE 1



**LEGEND**

SURVEY AREA: EM61 DATA ACQUIRED ALONG X-AXIS OR Y-AXIS TRENDING LINES SPACED 5 FEET APART	METAL PIPE
BUILDING	UTILITY POLE
CHAIN FENCE	VEHICLE
PARTIALLY BURIED METALLIC ROD	MAIL BOX
BOLLARD	BUSINESS SIGN
UTILITY LINE BOX	VEHICLE LIFT
ROAD SIGN	EM61 METAL DETECTION SURVEY LINE
MONITORING WELL	GPR SURVEY LINE



Note: The red polygon in the aerial photograph represents the approx. perimeter of the geophysical survey area at the Hardin Oil Company property (Parcel 10) located at 9422 West Market Street.

Note: The map shows the geophysical survey area at the Hardin Oil Company Inc. property located at 9244 West Market Street. The red dots represent the EM61 metal detection survey lines that were acquired on March 3, 2011 using a Geonics EM61 metal detection instrument. Each dot represents an EM61 data point.

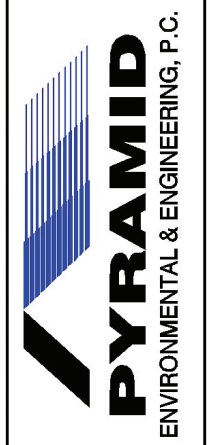
The solid purple lines represent the GPR survey lines. The GPR investigation was conducted on March 8, 2011 using a Geophysical Survey Systems SIR-2000 unit with a 400 MHz antenna.

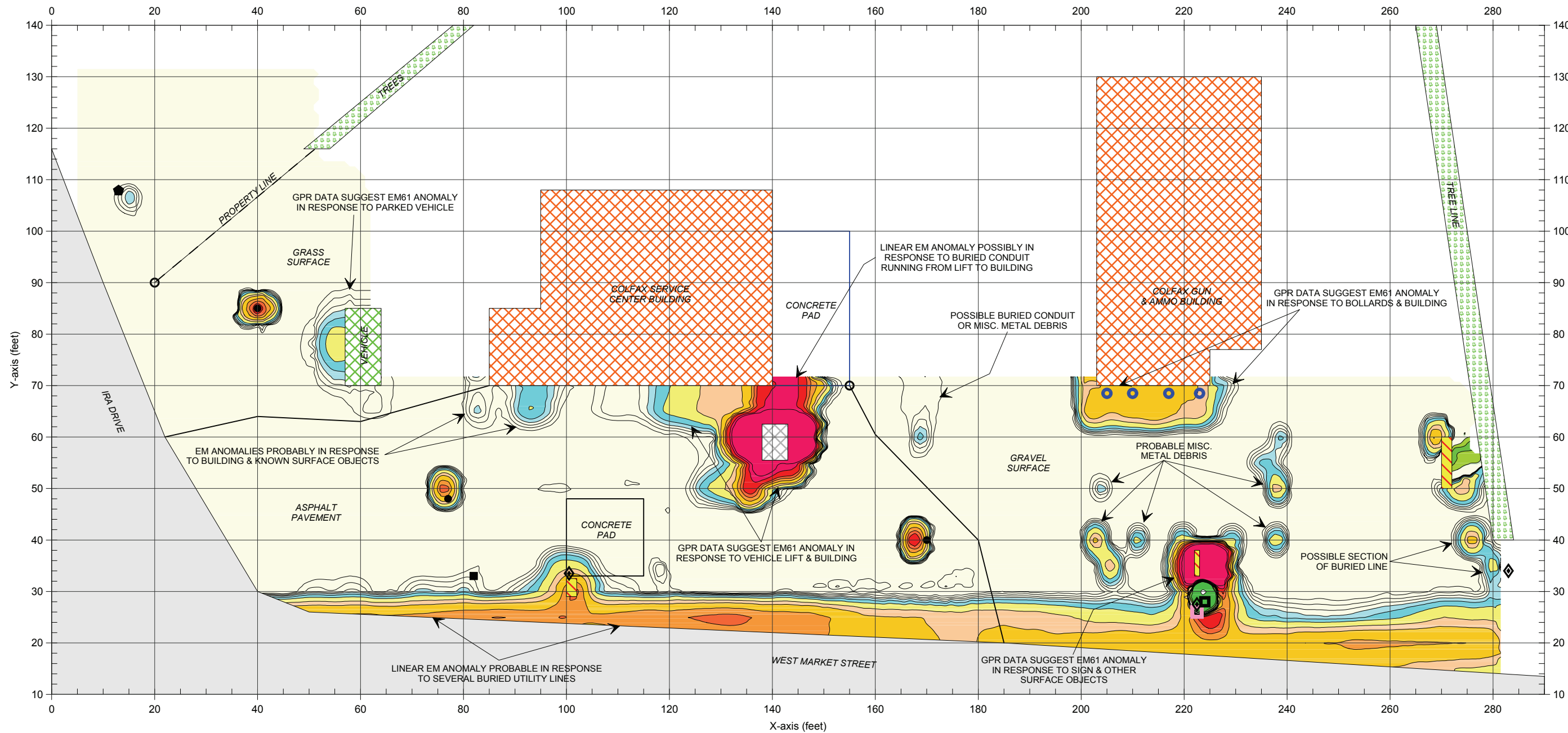
**GEOPHYSICAL SURVEY LINE LOCATIONS**

FIGURE 2

CLIENT	SOLUTIONS-IES	DATE	FIGURE
HARDIN OIL COMPANY PROPERTY (PARCEL 10)	NORTH CAROLINA	03/15/11	2011-048
CITY	STATE	DATE	FIGURE
COLFAX		03/15/11	2011-048
TITLE	GEOPHYSICAL RESULTS		
		DWG	
		CHKD	
		DRWN	
		MJD	

GRAPHIC SCALE IN FEET



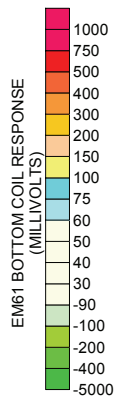


**LEGEND**

SURVEY AREA: EM61 DATA ACQUIRED ALONG X-AXIS OR Y-AXIS TRENDING LINES SPACED 5 FEET APART	MONITORING WELL
BUILDING	METAL PIPE
CHAIN FENCE	UTILITY POLE
PARTIALLY BURIED METALLIC ROD	VEHICLE
BOLLARD	MAIL BOX
UTILITY LINE BOX	BUSINESS SIGN
ROAD SIGN	VEHICLE LIFT



Note: The red polygon in the aerial photograph represents the approx. perimeter of the geophysical survey area at the Hardin Oil Company property (Parcel 10) located at 9422 West Market Street.

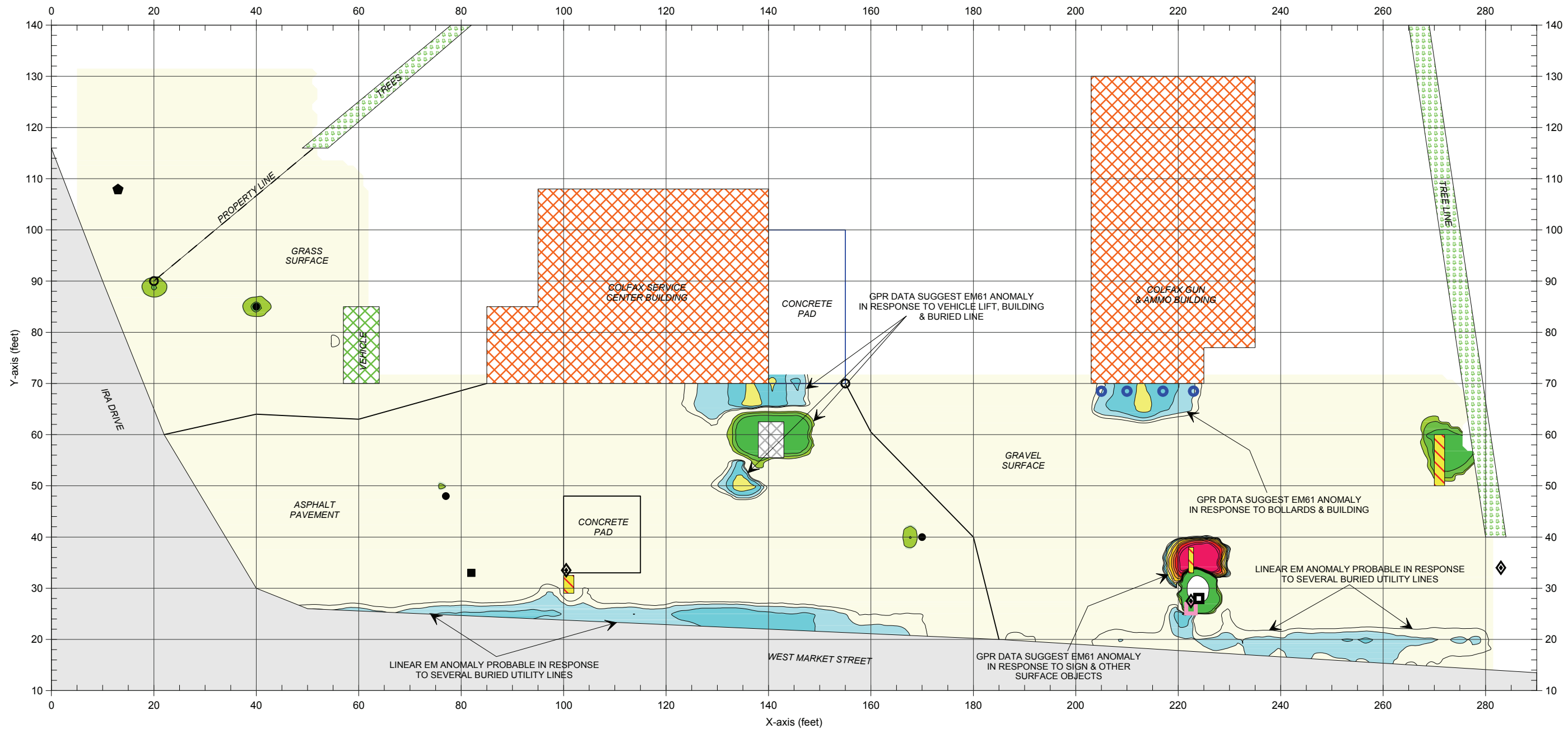


The contour plot shows the bottom coil (most sensitive) response of the EM61 instrument in millivolts (mV). The bottom coil response shows buried metallic objects regardless of size. The EM metal detection data were collected on March 3, 2011 using a Geonics EM61 instrument. Ground penetrating radar (GPR) data were acquired on March 8, 2011 across selected EM61 differential anomalies using a Geophysical Survey Systems SIR 2000 instrument with a 400 MHz antenna.

The geophysical investigation suggests that the surveyed portion of Parcel 10 does not contain metallic USTs.

EM61 METAL DETECTION (BOTTOM COIL RESULTS)		FIGURE 3	
CLIENT	SOLUTIONS-IES	DATE	03/15/11
SITE	HARDIN OIL COMPANY, INC. PROPERTY (PARCEL 10)	DRAWN	MJD
CITY	COLFAX	CHECKED	
STATE	NORTH CAROLINA	FIGURE	
TITLE	GEOPHYSICAL RESULTS	L.N.O.	2011-048



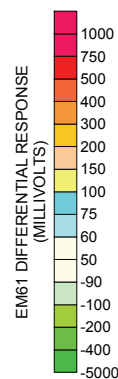


**LEGEND**

	SURVEY AREA: EM61 DATA ACQUIRED ALONG X-AXIS OR Y-AXIS TRENDING LINES SPACED 5 FEET APART		MONITORING WELL
	BUILDING		METAL PIPE
	CHAIN FENCE		UTILITY POLE
	PARTIALLY BURIED METALLIC ROD		VEHICLE
	BOLLARD		MAIL BOX
	UTILITY LINE BOX		BUSINESS SIGN
	ROAD SIGN		VEHICLE LIFT



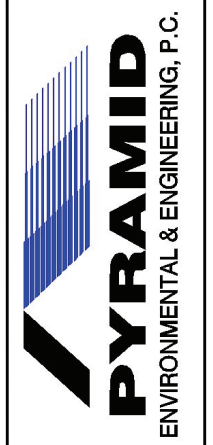
Note: The red polygon in the aerial photograph represents the approx. perimeter of the geophysical survey area at the Hardin Oil Company property (Parcel 10) located at 9422 West Market Street.



Note: The contour plot shows the differential response between the bottom and top coils of the EM61 instrument in millivolts (mV). The differential response focuses on larger, buried metallic objects such as drums and USTs and ignores smaller miscellaneous, buried, metal debris. The EM61 data were collected on March 3, 2011 using a Geonics EM61 instrument. Ground penetrating radar (GPR) data were acquired on March 8, 2011 using a Geophysical Survey Systems SIR 2000 instrument with a 400 MHz antenna.

The geophysical investigation suggests that the surveyed portion of Parcel 10 does not contain metallic USTs.

EM61 METAL DETECTION (DIFFERENTIAL RESULTS)		FIGURE 4	
CLIENT	SOLUTIONS-IES	DATE	03/15/11
SITE	HARDIN OIL COMPANY, INC. PROPERTY (PARCEL 10)	DWG	
CITY	COLFAX	STATE	NORTH CAROLINA
TITLE	GEOPHYSICAL RESULTS	L. NO.	2011-048
		FIGURE	
		DRWN	MJD
		CHKD	
		GRAPHIC SCALE IN FEET	



**APPENDIX C**  
**GPS COORDINATES**

**APPENDIX C**  
**Boring Location GPS Coordinates**  
**Parcel #10**  
**9422 West Market Street**  
**Colfax, Guilford County, North Carolina**  
**WBS Element: 34482.1.1; State Project: R-2611**

<b>Boring Identification</b>	<b>Latitude</b>	<b>Longitude</b>
10-1	36.11377280	-80.01797718
10-2	36.11366116	-80.01799914
10-3	36.11370784	-80.01785430
10-4	36.11361723	-80.01777585
10-5	36.11360810	-80.01767250
10-6	36.11357616	-80.01756295
10-7	36.11359938	-80.01745842
10-8	36.11351036	-80.01738760
10-9	36.11353467	-80.01727344

## **APPENDIX D**

### **BORING LOGS**

# Log of Soil Boring: 10-1

Project Name: **Guilford Co PSA**

Solutions-IES Project Number: **3948.11A3.NDOT**

Client: **NCDOT**

Northing: **861856.9**

Easting: **1699312.812**

Project Location: **Colfax, NC**

State: **NC**

County: **Guilford**

City: **Colfax**

Site or Area: **Parcel 10**

Date Started: **3/28/11**

Date Completed: **3/28/11**

Drilling Method: **Direct Push**

Initial Water Level: **NA**

Final Water Level: **NA**

Sample Method: **MC**

Date & Time (i):

Date & Time (f):

Logged by: **BE**

Checked by:

WBS #: **34482.1.1**

State Project #: **R-2611**

Depth		Lithology Sample Information					Laboratory Sample Information		Well Information	
Depth	Elevation	USCS Symbol	Description	Sample Interval	Recovery %	Blows / 0.5 FT	Field Screen	Sample Interval	Sample ID	Well Const.
0	0.00		Ground Surface							
		GC	Moist, brown gravel and clay				0.17			
2		SC	Moist, red and brown clayey sand		100		0.00			
4		CL	Dry, red sandy clay				0.00			
6		SC	Dry, red and white clayey sand		100		0.00		10-1-6-8	
8			End of Boring							
10										
12										
14										

Well Construction Details

Drilling Contractor: **Solutions-IES**

Size of Borehole: **2.75**

TOC Elevation: **NA**

Screen Interval: **NA**

Completion: **NA**

Casing Diameter: **NA**

Screen Material: **NA**

Total Depth: **NA**

Casing Material: **NA**

Slot Size: **NA**



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# Log of Soil Boring: 10-2

Project Name: **Guilford Co PSA**

Solutions-IES Project Number: **3948.11A3.NDOT**

Client: **NCDOT**

Northing: **861816.327**

Easting: **1699305.909**

Project Location: **Colfax, NC**

State: **NC**

County: **Guilford**

City: **Colfax**

Site or Area: **Parcel 10**

Date Started: **3/28/11**

Date Completed: **3/28/11**

Drilling Method: **Direct Push**

Initial Water Level: **NA**

Final Water Level: **NA**

Sample Method: **MC**

Date & Time (i):




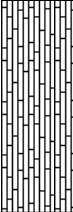
Date & Time (f):

Logged by: **BE**

Checked by:

WBS #: **34482.1.1**

State Project #: **R-2611**

Depth		Lithology Sample Information					Laboratory Sample Information		Well Information	
Depth	Elevation	USCS Symbol	Description	Sample Interval	Recovery %	Blows / 0.5 FT	Field Screen	Sample Interval	Sample ID	Well Const.
0	0.00		Ground Surface							
			<b>Asphalt</b> Moist, black asphalt and gravel				0.00			
2			<b>CL</b> Dry, red silty clay		100		0.00			
4			<b>CL</b> Dry, red sandy clay				0.00			
6			<b>SM</b> Dry, white and pink silty sand. Gravelly throughout		100		0.00			
8			End of Boring				0.00		10-2-6-8	
10										
12										
14										

Well Construction Details

Drilling Contractor: **Solutions-IES**

Size of Borehole: **2.75**

TOC Elevation: **NA**

Screen Interval: **NA**

Completion: **NA**

Casing Diameter: **NA**

Screen Material: **NA**

Total Depth: **NA**

Casing Material: **NA**

Slot Size: **NA**



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# Log of Soil Boring: 10-3

Project Name: **Guilford Co PSA**

Solutions-IES Project Number: **3948.11A3.NDOT**

Client: **NCDOT**

Northing: **861832.881**

Easting: **1699348.864**

Project Location: **Colfax, NC**

State: **NC**

County: **Guilford**

City: **Colfax**

Site or Area: **Parcel 10**

Date Started: **3/28/11**

Date Completed: **3/28/11**

Drilling Method: **Direct Push**

Initial Water Level: **NA**

Final Water Level: **NA**

Sample Method: **MC**

Date & Time (i):



Date & Time (f):

Logged by: **BE**

Checked by:

WBS #: **34482.1.1**

State Project #: **R-2611**

Depth		Lithology Sample Information					Laboratory Sample Information		Well Information	
Depth	Elevation	USCS Symbol	Description	Sample Interval	Recovery %	Blows / 0.5 FT	Field Screen	Sample Interval	Sample ID	Well Const.
0	0.00		Ground Surface							
			<b>Asphalt</b> Moist, black asphalt and gravel				0.05			
			<b>CL</b> Dry, red silty clay		100		0.00			
							0.00			
					100		0.69		10-3-6-8	
8			End of Boring							
10										
12										
14										

Well Construction Details

Drilling Contractor: **Solutions-IES**

Size of Borehole: **2.75**

TOC Elevation: **NA**

Screen Interval: **NA**

Completion: **NA**

Casing Diameter: **NA**

Screen Material: **NA**

Total Depth: **NA**

Casing Material: **NA**

Slot Size: **NA**



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# Log of Soil Boring: 10-4

Project Name: **Guilford Co PSA**

Solutions-IES Project Number: **3948.11A3.NDOT**

Client: **NCDOT**

Northing: **861799.659**

Easting: **1699371.697**

Project Location: **Colfax, NC**

State: **NC**

County: **Guilford**

City: **Colfax**

Site or Area: **Parcel 10**

Date Started: **3/28/11**

Date Completed: **3/28/11**

Drilling Method: **Direct Push**

Initial Water Level: **NA**

Final Water Level: **NA**

Sample Method: **MC**

Date & Time (i):

Date & Time (f):

Logged by: **BE**

Checked by:

WBS #: **34482.1.1**

State Project #: **R-2611**

Depth		Lithology Sample Information					Laboratory Sample Information		Well Information	
Depth	Elevation	USCS Symbol	Description	Sample Interval	Recovery %	Blows / 0.5 FT	Field Screen	Sample Interval	Sample ID	Well Const.
0	0.00		Ground Surface							
			<b>Concrete</b> Concrete				0.00			
2			<b>CL</b> Dry, red silty clay		100		0.00			
4			<b>CL</b> Dry, red clay				0.60			
6					100		1.50		10-4-6-8	
8			End of Boring							
10										
12										
14										

Well Construction Details

Drilling Contractor: **Solutions-IES**

Size of Borehole: **2.75**

TOC Elevation: **NA**

Screen Interval: **NA**

Completion: **NA**

Casing Diameter: **NA**

Screen Material: **NA**

Total Depth: **NA**

Casing Material: **NA**

Slot Size: **NA**



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# Log of Soil Boring: 10-5

Project Name: **Guilford Co PSA**

Solutions-IES Project Number: **3948.11A3.NDOT**

Client: **NCDOT**

Northing: **861796.023**

Easting: **1699402.189**

Project Location: **Colfax, NC**

State: **NC**

County: **Guilford**

City: **Colfax**

Site or Area: **Parcel 10**

Date Started: **3/28/11**

Date Completed: **3/28/11**

Drilling Method: **Direct Push**

Initial Water Level: **NA**

Final Water Level: **NA**

Sample Method: **MC**

Date & Time (i):

Date & Time (f):

Logged by: **BE**

Checked by:

WBS #: **34482.1.1**

State Project #: **R-2611**

Depth		Lithology Sample Information					Laboratory Sample Information		Well Information	
Depth	Elevation	USCS Symbol	Description	Sample Interval	Recovery %	Blows / 0.5 FT	Field Screen	Sample Interval	Sample ID	Well Const.
0	0.00		Ground Surface							
0		CL	Dry, red clay				0.00			
2			Dry, red and orange sandy clay		100		0.00			
4			Dry, red silty clay				0.00			
6			Dry, red and orange sandy, silty clay		100		0.30		10-5-6-8	
8			End of Boring							
10										
12										
14										

Well Construction Details

Drilling Contractor: **Solutions-IES**

Size of Borehole: **2.75**

TOC Elevation: **NA**

Screen Interval: **NA**

Completion: **NA**

Casing Diameter: **NA**

Screen Material: **NA**

Total Depth: **NA**

Casing Material: **NA**

Slot Size: **NA**



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# Log of Soil Boring: 10-6

Project Name: **Guilford Co PSA**

Solutions-IES Project Number: **3948.11A3.NDOT**

Client: **NCDOT**

Northing: **861784.064**

Easting: **1699434.428**

Project Location: **Colfax, NC**

State: **NC**

County: **Guilford**

City: **Colfax**

Site or Area: **Parcel 10**

Date Started: **3/28/11**

Date Completed: **3/28/11**

Drilling Method: **Direct Push**

Initial Water Level: **NA**

Final Water Level: **NA**

Sample Method: **MC**

Date & Time (i):



Date & Time (f):

Logged by: **BE**

Checked by:

WBS #: **34482.1.1**

State Project #: **R-2611**

Depth		Lithology Sample Information					Laboratory Sample Information		Well Information	
Depth	Elevation	USCS Symbol	Description	Sample Interval	Recovery %	Blows / 0.5 FT	Field Screen	Sample Interval	Sample ID	Well Const.
0	0.00		Ground Surface							
			<b>Asphalt</b> Asphalt				0.00			
2			<b>CL</b> Dry, tight red clay		100		0.00			
4			<b>CL</b> Dry, red clay. Silty and micaceous towards bottom				0.00			
6					100		0.00			
8							0.00		10-6-6-8	
8			End of Boring							
10										
12										
14										

Well Construction Details

Drilling Contractor: **Solutions-IES**

Size of Borehole: **2.75**

TOC Elevation: **NA**

Screen Interval: **NA**

Completion: **NA**

Casing Diameter: **NA**

Screen Material: **NA**

Total Depth: **NA**

Casing Material: **NA**

Slot Size: **NA**



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# Log of Soil Boring: 10-7

Project Name: **Guilford Co PSA**

Solutions-IES Project Number: **3948.11A3.NDOT**

Client: **NCDOT**

Northing: **861792.2**

Easting: **1699465.389**

Project Location: **Colfax, NC**

State: **NC**

County: **Guilford**

City: **Colfax**

Site or Area: **Parcel 10**

Date Started: **3/28/11**

Date Completed: **3/28/11**

Drilling Method: **Direct Push**

Initial Water Level: **NA**

Final Water Level: **NA**

Sample Method: **MC**

Date & Time (i):

Date & Time (f):

Logged by: **BE**

Checked by:

WBS #: **34482.1.1**

State Project #: **R-2611**

Depth		Lithology Sample Information					Laboratory Sample Information		Well Information	
Depth	Elevation	USCS Symbol	Description	Sample Interval	Recovery %	Blows / 0.5 FT	Field Screen	Sample Interval	Sample ID	Well Const.
0	0.00		Ground Surface							
		<b>GW</b>	Moist, black gravel				0.00			
2		<b>CL</b>	Dry, red and orange silty clay		100		0.00			
4							0.40			
6		<b>SC</b>	Dry, white and pink clayey sand		100		0.00		10-7-6-8	
8			End of Boring							
10										
12										
14										

Well Construction Details

Drilling Contractor: **Solutions-IES**

Size of Borehole: **2.75**

TOC Elevation: **NA**

Screen Interval: **NA**

Completion: **NA**

Casing Diameter: **NA**

Screen Material: **NA**

Total Depth: **NA**

Casing Material: **NA**

Slot Size: **NA**



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# Log of Soil Boring: 10-8

Project Name: **Guilford Co PSA**

Solutions-IES Project Number: **3948.11A3.NDOT**

Client: **NCDOT**

Northing: **861759.581**

Easting: **1699485.975**

Project Location: **Colfax, NC**

State: **NC**

County: **Guilford**

City: **Colfax**

Site or Area: **Parcel 10**

Date Started: **3/28/11**

Date Completed: **3/28/11**

Drilling Method: **Direct Push**

Initial Water Level: **NA**

Final Water Level: **NA**

Sample Method: **MC**

Date & Time (i):

Date & Time (f):

Logged by: **BE**

Checked by:

WBS #: **34482.1.1**

State Project #: **R-2611**

Depth		Lithology Sample Information					Laboratory Sample Information		Well Information	
Depth	Elevation	USCS Symbol	Description	Sample Interval	Recovery %	Blows / 0.5 FT	Field Screen	Sample Interval	Sample ID	Well Const.
0	0.00		Ground Surface							
		<b>GW</b>	Moist, gray gravel and sand				0.00			
		<b>SM</b>	Moist, brown silty sand		100		0.00			
		<b>CL</b>	Dry, red silty clay				0.00			
		<b>SM</b>	Moist, red and brown sandy silt		100		0.00			
		<b>CL</b>	Dry, tight red clay				0.00		10-8-6-8	
8			End of Boring							
10										
12										
14										

### Well Construction Details

Drilling Contractor: **Solutions-IES**

Size of Borehole: **2.75**

TOC Elevation: **NA**

Screen Interval: **NA**

Completion: **NA**

Casing Diameter: **NA**

Screen Material: **NA**

Total Depth: **NA**

Casing Material: **NA**

Slot Size: **NA**



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# Log of Soil Boring: 10-9

Project Name: **Guilford Co PSA**

Solutions-IES Project Number: **3948.11A3.NDOT**

Client: **NCDOT**

Northing: **861768.085**

Easting: **1699519.785**

Project Location: **Colfax, NC**

State: **NC**

County: **Guilford**

City: **Colfax**

Site or Area: **Parcel 10**

Date Started: **3/28/11**

Date Completed: **3/28/11**

Drilling Method: **Direct Push**

Initial Water Level: **NA**

Final Water Level: **NA**

Sample Method: **MC**

Date & Time (i):

Date & Time (f):

Logged by: **BE**

Checked by:

WBS #: **34482.1.1**

State Project #: **R-2611**

Depth		Lithology Sample Information					Laboratory Sample Information		Well Information	
Depth	Elevation	USCS Symbol	Description	Sample Interval	Recovery %	Blows / 0.5 FT	Field Screen	Sample Interval	Sample ID	Well Const.
0	0.00		Ground Surface							
		<b>SM</b>	Moist, dark brown silty sand							
		<b>CL</b>	Dry, brown silty clay		100		0.70			
2							0.00			
4		<b>CL</b>	Dry, red clay				0.00			
		<b>CL</b>	Moist, red clay		100		0.00			
6							0.00		10-9-6-8	
8			End of Boring							
10										
12										
14										

### Well Construction Details

Drilling Contractor: **Solutions-IES**

Size of Borehole: **2.75**

TOC Elevation: **NA**

Screen Interval: **NA**

Completion: **NA**

Casing Diameter: **NA**

Screen Material: **NA**

Total Depth: **NA**

Casing Material: **NA**

Slot Size: **NA**



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**APPENDIX E**

**LABORATORY ANALYTICAL REPORT**



## Laboratory Report of Analysis

To: Jody Overmyer  
SOLUTIONS-IES  
1101 Nowell Rd.  
Raleigh, NC 27607

Report Number: **31100609**

Client Project: **3948-Guilford Co. Parcel 10**

Dear Jody Overmyer,

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

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

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

Sincerely,  
SGS North America Inc.

---

Michael D. Page  
Project Manager  
michael.page@sgs.com

Date

## 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.

## Sample Summary

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Collected</u>	<u>Received</u>	<u>Matrix</u>
10-1-6-8	31100609001	03/28/2011 15:00	03/30/2011 10:00	Soil
10-2-6-8	31100609002	03/28/2011 15:05	03/30/2011 10:00	Soil
10-3-6-8	31100609003	03/28/2011 15:10	03/30/2011 10:00	Soil
10-4-6-8	31100609004	03/28/2011 15:12	03/30/2011 10:00	Soil
10-5-6-8	31100609005	03/28/2011 15:17	03/30/2011 10:00	Soil
10-6-6-8	31100609006	03/28/2011 15:20	03/30/2011 10:00	Soil
10-7-6-8	31100609007	03/28/2011 15:23	03/30/2011 10:00	Soil
10-8-6-8	31100609008	03/28/2011 15:24	03/30/2011 10:00	Soil
10-9-6-8	31100609009	03/28/2011 15:30	03/30/2011 10:00	Soil

## Case Narrative

### 10-2-6-8

MADEP EPH - The sample was initially extracted within holding times, but with surrogate recoveries below the QC limits. The sample was reextracted out of hold, but has acceptable surrogate recoveries. Both sets of data are reported in this SDG.

## Results of 10-1-6-8

Client Sample ID: **10-1-6-8**  
 Client Project ID: **3948-Guilford Co. Parcel 10**  
 Lab Sample ID: 31100609001-D  
 Lab Project ID: 31100609

Collection Date: 03/28/2011 15:00  
 Received Date: 03/30/2011 10:00  
 Matrix: Soil  
 Solids (%): 85

## Results by MADEP VPH

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>
C5-C8 Aliphatic	ND		4.99	mg/kg	1
C9-C12 Aliphatic	ND		4.99	mg/kg	1
C9-C10 Aromatic	ND		4.99	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: **VGC1125**  
 Analytical Method: **MADEP VPH**  
 Instrument: **GC4**  
 Analyst: **LMC**  
 Analytical Date/Time: **04/07/2011 03:30**

Prep Batch: **VXX1300**  
 Prep Method: **SW-846 5035 VPH prep**  
 Prep Date/Time: **04/06/2011 10:37**  
 Prep Initial Wt./Vol.: **5.88 g**  
 Prep Extract Vol: **5 mL**



Results of 10-1-6-8

Client Sample ID: 10-1-6-8  
Client Project ID: 3948-Guilford Co. Parcel 10  
Lab Sample ID: 31100609001-B  
Lab Project ID: 31100609

Collection Date: 03/28/2011 15:00  
Received Date: 03/30/2011 10:00  
Matrix: Soil  
Solids (%): 85

Results by SW-846 8260B

Parameter	Result	Qual	LOQ/CL	Units	DF
1,1,1,2-Tetrachloroethane	ND		5.56	ug/Kg	1
1,1,1-Trichloroethane	ND		5.56	ug/Kg	1
1,1,2,2-Tetrachloroethane	ND		5.56	ug/Kg	1
1,1,2-Trichloroethane	ND		5.56	ug/Kg	1
1,1-Dichloroethane	ND		5.56	ug/Kg	1
1,1-Dichloroethene	ND		5.56	ug/Kg	1
1,1-Dichloropropene	ND		5.56	ug/Kg	1
1,2,3-Trichlorobenzene	ND		5.56	ug/Kg	1
1,2,3-Trichloropropane	ND		5.56	ug/Kg	1
1,2,4-Trichlorobenzene	ND		5.56	ug/Kg	1
1,2,4-Trimethylbenzene	ND		5.56	ug/Kg	1
1,2-Dibromo-3-chloropropane	ND		33.3	ug/Kg	1
1,2-Dibromoethane	ND		5.56	ug/Kg	1
1,2-Dichlorobenzene	ND		5.56	ug/Kg	1
1,2-Dichloroethane	ND		5.56	ug/Kg	1
1,2-Dichloropropane	ND		5.56	ug/Kg	1
1,3,5-Trimethylbenzene	ND		5.56	ug/Kg	1
1,3-Dichlorobenzene	ND		5.56	ug/Kg	1
1,3-Dichloropropane	ND		5.56	ug/Kg	1
1,4-Dichlorobenzene	ND		5.56	ug/Kg	1
2,2-Dichloropropane	ND		5.56	ug/Kg	1
2-Butanone	ND		27.8	ug/Kg	1
2-Chlorotoluene	ND		5.56	ug/Kg	1
2-Hexanone	ND		13.9	ug/Kg	1
4-Chlorotoluene	ND		5.56	ug/Kg	1
4-Isopropyltoluene	ND		5.56	ug/Kg	1
4-Methyl-2-pentanone	ND		13.9	ug/Kg	1
Acetone	ND		55.6	ug/Kg	1
Benzene	ND		5.56	ug/Kg	1
Bromobenzene	ND		5.56	ug/Kg	1
Bromochloromethane	ND		5.56	ug/Kg	1
Bromodichloromethane	ND		5.56	ug/Kg	1
Bromoform	ND		5.56	ug/Kg	1
Bromomethane	ND		5.56	ug/Kg	1
n-Butylbenzene	ND		5.56	ug/Kg	1
Carbon disulfide	ND		5.56	ug/Kg	1
Carbon tetrachloride	ND		5.56	ug/Kg	1
Chlorobenzene	ND		5.56	ug/Kg	1
Chloroethane	ND		5.56	ug/Kg	1
Chloroform	ND		5.56	ug/Kg	1
Chloromethane	ND		5.56	ug/Kg	1
Dibromochloromethane	ND		5.56	ug/Kg	1
Dibromomethane	ND		5.56	ug/Kg	1

Print Date: 04/15/2011

N.C. Certification # 481

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Results of 10-1-6-8

Client Sample ID: 10-1-6-8
Client Project ID: 3948-Guilford Co. Parcel 10
Lab Sample ID: 31100609001-B
Lab Project ID: 31100609

Collection Date: 03/28/2011 15:00
Received Date: 03/30/2011 10:00
Matrix: Soil
Solids (%): 85

Results by SW-846 8260B

Table with 6 columns: Parameter, Result, Qual, LOQ/CL, Units, DF. Lists various chemical compounds and their detection results.

Surrogates

Table with 6 columns: Parameter, Result, Qual, LOQ/CL, Units, DF. Lists surrogate compounds like 1,2-Dichloroethane-d4.

Batch Information

Analytical Batch: VMS1120
Analytical Method: SW-846 8260B
Instrument: MSD4
Analyst: DVO
Analytical Date/Time: 04/03/2011 12:00

Prep Batch: VXX1270
Prep Method: SW-846 5035 SL
Prep Date/Time: 04/03/2011 00:00
Prep Initial Wt./Vol.: 5.28 g
Prep Extract Vol: 5 mL



## Results of 10-1-6-8

Client Sample ID: **10-1-6-8**  
 Client Project ID: **3948-Guilford Co. Parcel 10**  
 Lab Sample ID: 31100609001-F  
 Lab Project ID: 31100609

Collection Date: 03/28/2011 15:00  
 Received Date: 03/30/2011 10:00  
 Matrix: Soil  
 Solids (%): 85

## Results by MADEP EPH

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>
C11-C22 Aromatics	ND		16.4	mg/kg	1
C9-C18 Aliphatic Hydrocarbons	ND		5.85	mg/kg	1
C19-C36 Aliphatic Hydrocarbons	ND		7.85	mg/kg	1

### Surrogates

n-Tricosane	80.0		40.0-140	%	1
o-Terphenyl	80.0		40.0-140	%	1
2-Bromonaphthalene	80.0		40.0-140	%	1
2-Fluorobiphenyl	80.0		40.0-140	%	1

## Batch Information

Analytical Batch: **XGC1127**  
 Analytical Method: **MADEP EPH**  
 Instrument: **GC6**  
 Analyst: **DTF**  
 Analytical Date/Time: **04/05/2011 18:37**

Prep Batch: **XXX1161**  
 Prep Method: **SW-846 3541/8015 EPH**  
 Prep Date/Time: **03/30/2011 15:00**  
 Prep Initial Wt./Vol.: **12.03 g**  
 Prep Extract Vol: **10 mL**

Results of 10-1-6-8

Client Sample ID: 10-1-6-8  
 Client Project ID: 3948-Guilford Co. Parcel 10  
 Lab Sample ID: 31100609001-F  
 Lab Project ID: 31100609

Collection Date: 03/28/2011 15:00  
 Received Date: 03/30/2011 10:00  
 Matrix: Soil  
 Solids (%): 85

Results by SW-846 8270D

Parameter	Result	Qual	LOQ/CL	Units	DF
1,2,4-Trichlorobenzene	ND		362	ug/Kg	1
1,2-Dichlorobenzene	ND		362	ug/Kg	1
1,3-Dichlorobenzene	ND		362	ug/Kg	1
1,4-Dichlorobenzene	ND		362	ug/Kg	1
2,4,5-Trichlorophenol	ND		362	ug/Kg	1
2,4,6-Trichlorophenol	ND		362	ug/Kg	1
2,4-Dichlorophenol	ND		362	ug/Kg	1
2,4-Dinitrophenol	ND		724	ug/Kg	1
2,4-Dinitrotoluene	ND		362	ug/Kg	1
2,6-Dinitrotoluene	ND		362	ug/Kg	1
2-Chloronaphthalene	ND		362	ug/Kg	1
2-Chlorophenol	ND		362	ug/Kg	1
2-Methylnaphthalene	ND		362	ug/Kg	1
2-Methylphenol	ND		362	ug/Kg	1
2-Nitroaniline	ND		362	ug/Kg	1
2-Nitrophenol	ND		362	ug/Kg	1
3 and/or 4-Methylphenol	ND		362	ug/Kg	1
3,3'-Dichlorobenzidine	ND		362	ug/Kg	1
3-Nitroaniline	ND		362	ug/Kg	1
4,6-Dinitro-2-methylphenol	ND		362	ug/Kg	1
4-Chloro-3-methylphenol	ND		362	ug/Kg	1
4-Chloroaniline	ND		362	ug/Kg	1
4-Chlorophenyl phenyl ether	ND		362	ug/Kg	1
Acenaphthene	ND		362	ug/Kg	1
Acenaphthylene	ND		362	ug/Kg	1
Anthracene	ND		362	ug/Kg	1
Benzo(a)anthracene	ND		362	ug/Kg	1
Benzo(a)pyrene	ND		362	ug/Kg	1
Benzo(b)fluoranthene	ND		362	ug/Kg	1
Benzo(g,h,i)perylene	ND		362	ug/Kg	1
Benzo(k)fluoranthene	ND		362	ug/Kg	1
Benzoic acid	ND		362	ug/Kg	1
Bis(2-Chloroethoxy)methane	ND		362	ug/Kg	1
Bis(2-Chloroethyl)ether	ND		362	ug/Kg	1
Bis(2-Chloroisopropyl)ether	ND		362	ug/Kg	1
Bis(2-Ethylhexyl)phthalate	ND		362	ug/Kg	1
4-Bromophenyl phenyl ether	ND		362	ug/Kg	1
Butyl benzyl phthalate	ND		362	ug/Kg	1
Chrysene	ND		362	ug/Kg	1
Di-n-butyl phthalate	ND		362	ug/Kg	1
Di-n-octyl phthalate	ND		362	ug/Kg	1
Dibenz(a,h)anthracene	ND		362	ug/Kg	1
Dibenzofuran	ND		362	ug/Kg	1

## Results of 10-1-6-8

Client Sample ID: **10-1-6-8**  
 Client Project ID: **3948-Guilford Co. Parcel 10**  
 Lab Sample ID: 31100609001-F  
 Lab Project ID: 31100609

Collection Date: 03/28/2011 15:00  
 Received Date: 03/30/2011 10:00  
 Matrix: Soil  
 Solids (%): 85

## Results by SW-846 8270D

Parameter	Result	Qual	LOQ/CL	Units	DF
Diethyl phthalate	ND		362	ug/Kg	1
Dimethyl phthalate	ND		362	ug/Kg	1
2,4-Dimethylphenol	ND		362	ug/Kg	1
Diphenylamine	ND		362	ug/Kg	1
Fluoranthene	ND		362	ug/Kg	1
Fluorene	ND		362	ug/Kg	1
Hexachlorobenzene	ND		362	ug/Kg	1
Hexachlorobutadiene	ND		362	ug/Kg	1
Hexachlorocyclopentadiene	ND		362	ug/Kg	1
Hexachloroethane	ND		362	ug/Kg	1
Indeno(1,2,3-cd)pyrene	ND		362	ug/Kg	1
Isophorone	ND		362	ug/Kg	1
Naphthalene	ND		362	ug/Kg	1
4-Nitroaniline	ND		362	ug/Kg	1
Nitrobenzene	ND		362	ug/Kg	1
4-Nitrophenol	ND		362	ug/Kg	1
Pentachlorophenol	ND		362	ug/Kg	1
Phenanthrene	ND		362	ug/Kg	1
Phenol	ND		362	ug/Kg	1
Pyrene	ND		362	ug/Kg	1
n-Nitrosodi-n-propylamine	ND		362	ug/Kg	1
<b>Surrogates</b>					
2,4,6-Tribromophenol	63.0		41.0-129	%	1
2-Fluorobiphenyl	89.0		48.0-123	%	1
2-Fluorophenol	92.0		42.0-123	%	1
Nitrobenzene-d5	93.0		46.0-117	%	1
Phenol-d6	90.0		48.0-125	%	1
Terphenyl-d14	81.0		44.0-140	%	1

## Batch Information

Analytical Batch: **XMS1056**  
 Analytical Method: **SW-846 8270D**  
 Instrument: **MSD6**  
 Analyst: **CMP**  
 Analytical Date/Time: **04/01/2011 19:24**

Prep Batch: **XXX1170**  
 Prep Method: **SW-846 3541**  
 Prep Date/Time: **03/31/2011 16:40**  
 Prep Initial Wt./Vol.: **32.45 g**  
 Prep Extract Vol: **10 mL**

## Results of 10-2-6-8

Client Sample ID: **10-2-6-8**  
 Client Project ID: **3948-Guilford Co. Parcel 10**  
 Lab Sample ID: 31100609002-D  
 Lab Project ID: 31100609

Collection Date: 03/28/2011 15:05  
 Received Date: 03/30/2011 10:00  
 Matrix: Soil  
 Solids (%): 85

## Results by MADEP VPH

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>
C5-C8 Aliphatic	ND		5.68	mg/kg	1
C9-C12 Aliphatic	ND		5.68	mg/kg	1
C9-C10 Aromatic	ND		5.68	mg/kg	1

### Surrogates

FID - 4-Bromofluorobenzene	94.0		70.0-130	%	1
PID - 4-Bromofluorobenzene	96.0		70.0-130	%	1

## Batch Information

Analytical Batch: **VGC1125**  
 Analytical Method: **MADEP VPH**  
 Instrument: **GC4**  
 Analyst: **LMC**  
 Analytical Date/Time: **04/07/2011 03:57**

Prep Batch: **VXX1300**  
 Prep Method: **SW-846 5035 VPH prep**  
 Prep Date/Time: **04/06/2011 10:37**  
 Prep Initial Wt./Vol.: **5.19 g**  
 Prep Extract Vol: **5 mL**

## Results of 10-2-6-8

Client Sample ID: **10-2-6-8**  
 Client Project ID: **3948-Guilford Co. Parcel 10**  
 Lab Sample ID: 31100609002-B  
 Lab Project ID: 31100609

Collection Date: 03/28/2011 15:05  
 Received Date: 03/30/2011 10:00  
 Matrix: Soil  
 Solids (%): 85

## Results by SW-846 8260B

Parameter	Result	Qual	LOQ/CL	Units	DF
1,1,1,2-Tetrachloroethane	ND		5.13	ug/Kg	1
1,1,1-Trichloroethane	ND		5.13	ug/Kg	1
1,1,2,2-Tetrachloroethane	ND		5.13	ug/Kg	1
1,1,2-Trichloroethane	ND		5.13	ug/Kg	1
1,1-Dichloroethane	ND		5.13	ug/Kg	1
1,1-Dichloroethene	ND		5.13	ug/Kg	1
1,1-Dichloropropene	ND		5.13	ug/Kg	1
1,2,3-Trichlorobenzene	ND		5.13	ug/Kg	1
1,2,3-Trichloropropane	ND		5.13	ug/Kg	1
1,2,4-Trichlorobenzene	ND		5.13	ug/Kg	1
1,2,4-Trimethylbenzene	ND		5.13	ug/Kg	1
1,2-Dibromo-3-chloropropane	ND		30.8	ug/Kg	1
1,2-Dibromoethane	ND		5.13	ug/Kg	1
1,2-Dichlorobenzene	ND		5.13	ug/Kg	1
1,2-Dichloroethane	ND		5.13	ug/Kg	1
1,2-Dichloropropane	ND		5.13	ug/Kg	1
1,3,5-Trimethylbenzene	ND		5.13	ug/Kg	1
1,3-Dichlorobenzene	ND		5.13	ug/Kg	1
1,3-Dichloropropane	ND		5.13	ug/Kg	1
1,4-Dichlorobenzene	ND		5.13	ug/Kg	1
2,2-Dichloropropane	ND		5.13	ug/Kg	1
2-Butanone	ND		25.7	ug/Kg	1
2-Chlorotoluene	ND		5.13	ug/Kg	1
2-Hexanone	ND		12.8	ug/Kg	1
4-Chlorotoluene	ND		5.13	ug/Kg	1
4-Isopropyltoluene	ND		5.13	ug/Kg	1
4-Methyl-2-pentanone	ND		12.8	ug/Kg	1
Acetone	ND		51.3	ug/Kg	1
Benzene	ND		5.13	ug/Kg	1
Bromobenzene	ND		5.13	ug/Kg	1
Bromochloromethane	ND		5.13	ug/Kg	1
Bromodichloromethane	ND		5.13	ug/Kg	1
Bromoform	ND		5.13	ug/Kg	1
Bromomethane	ND		5.13	ug/Kg	1
n-Butylbenzene	ND		5.13	ug/Kg	1
Carbon disulfide	ND		5.13	ug/Kg	1
Carbon tetrachloride	ND		5.13	ug/Kg	1
Chlorobenzene	ND		5.13	ug/Kg	1
Chloroethane	ND		5.13	ug/Kg	1
Chloroform	ND		5.13	ug/Kg	1
Chloromethane	ND		5.13	ug/Kg	1
Dibromochloromethane	ND		5.13	ug/Kg	1
Dibromomethane	ND		5.13	ug/Kg	1

## Results of 10-2-6-8

Client Sample ID: **10-2-6-8**  
 Client Project ID: **3948-Guilford Co. Parcel 10**  
 Lab Sample ID: 31100609002-B  
 Lab Project ID: 31100609

Collection Date: 03/28/2011 15:05  
 Received Date: 03/30/2011 10:00  
 Matrix: Soil  
 Solids (%): 85

## Results by SW-846 8260B

Parameter	Result	Qual	LOQ/CL	Units	DF
cis-1,3-Dichloropropene	ND		5.13	ug/Kg	1
trans-1,3-Dichloropropene	ND		5.13	ug/Kg	1
Diisopropyl Ether	ND		5.13	ug/Kg	1
Ethyl Benzene	ND		5.13	ug/Kg	1
Hexachlorobutadiene	ND		5.13	ug/Kg	1
Isopropylbenzene (Cumene)	ND		5.13	ug/Kg	1
Methyl iodide	ND		5.13	ug/Kg	1
Methylene chloride	ND		20.5	ug/Kg	1
Naphthalene	ND		5.13	ug/Kg	1
Styrene	ND		5.13	ug/Kg	1
Tetrachloroethene	ND		5.13	ug/Kg	1
Toluene	ND		5.13	ug/Kg	1
Trichloroethene	ND		5.13	ug/Kg	1
Trichlorofluoromethane	ND		5.13	ug/Kg	1
Vinyl chloride	ND		5.13	ug/Kg	1
cis-1,2-Dichloroethene	ND		5.13	ug/Kg	1
m,p-Xylene	ND		10.3	ug/Kg	1
n-Propylbenzene	ND		5.13	ug/Kg	1
o-Xylene	ND		5.13	ug/Kg	1
sec-Butylbenzene	ND		5.13	ug/Kg	1
tert-Butyl methyl ether (MTBE)	ND		5.13	ug/Kg	1
tert-Butylbenzene	ND		5.13	ug/Kg	1
trans-1,2-Dichloroethene	ND		5.13	ug/Kg	1
trans-1,4-Dichloro-2-butene	ND		25.7	ug/Kg	1

## Surrogates

1,2-Dichloroethane-d4	125		55.0-173	%	1
4-Bromofluorobenzene	102		23.0-141	%	1
Toluene d8	98.0		57.0-134	%	1

## Batch Information

Analytical Batch: **VMS1120**  
 Analytical Method: **SW-846 8260B**  
 Instrument: **MSD4**  
 Analyst: **DVO**  
 Analytical Date/Time: **04/03/2011 12:26**

Prep Batch: **VXX1270**  
 Prep Method: **SW-846 5035 SL**  
 Prep Date/Time: **04/03/2011 00:00**  
 Prep Initial Wt./Vol.: **5.74 g**  
 Prep Extract Vol: **5 mL**

## Results of 10-2-6-8

Client Sample ID: **10-2-6-8**  
 Client Project ID: **3948-Guilford Co. Parcel 10**  
 Lab Sample ID: 31100609002-F  
 Lab Project ID: 31100609

Collection Date: 03/28/2011 15:05  
 Received Date: 03/30/2011 10:00  
 Matrix: Soil  
 Solids (%): 85

## Results by MADEP EPH

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>
C11-C22 Aromatics	ND		16.3	mg/kg	1
C9-C18 Aliphatic Hydrocarbons	ND		5.83	mg/kg	1
C19-C36 Aliphatic Hydrocarbons	ND		7.82	mg/kg	1

### Surrogates

n-Tricosane	21.0*		40.0-140	%	1
o-Terphenyl	107		40.0-140	%	1
2-Bromonaphthalene	110		40.0-140	%	1
2-Fluorobiphenyl	110		40.0-140	%	1

## Batch Information

Analytical Batch: **XGC1127**  
 Analytical Method: **MADEP EPH**  
 Instrument: **GC6**  
 Analyst: **DTF**  
 Analytical Date/Time: **04/05/2011 19:35**

Prep Batch: **XXX1161**  
 Prep Method: **SW-846 3541/8015 EPH**  
 Prep Date/Time: **03/30/2011 15:00**  
 Prep Initial Wt./Vol.: **12.17 g**  
 Prep Extract Vol: **10 mL**

## Results of 10-2-6-8

Client Sample ID: **10-2-6-8**  
 Client Project ID: **3948-Guilford Co. Parcel 10**  
 Lab Sample ID: 31100609002  
 Lab Project ID: 31100609

Collection Date: 03/28/2011 15:05  
 Received Date: 03/30/2011 10:00  
 Matrix: Soil  
 Solids (%): 85

## Results by MADEP EPH

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>
C11-C22 Aromatics	ND		16.3	mg/kg	1
C9-C18 Aliphatic Hydrocarbons	ND		5.83	mg/kg	1
C19-C36 Aliphatic Hydrocarbons	ND		7.82	mg/kg	1

### Surrogates

n-Tricosane	86.0		40.0-140	%	1
o-Terphenyl	107		40.0-140	%	1
2-Bromonaphthalene	110		40.0-140	%	1
2-Fluorobiphenyl	110		40.0-140	%	1

## Batch Information

Analytical Batch: **XGC1150**  
 Analytical Method: **MADEP EPH**  
 Instrument: **GC6**  
 Analyst: **DTF**  
 Analytical Date/Time: **04/14/2011 17:14**

Prep Batch: **XXX1209**  
 Prep Method: **SW-846 3541/8015 EPH**  
 Prep Date/Time: **04/13/2011 11:12**  
 Prep Initial Wt./Vol.: **12.12 g**  
 Prep Extract Vol: **10 mL**



Results of 10-2-6-8

Client Sample ID: 10-2-6-8  
 Client Project ID: 3948-Guilford Co. Parcel 10  
 Lab Sample ID: 31100609002-F  
 Lab Project ID: 31100609

Collection Date: 03/28/2011 15:05  
 Received Date: 03/30/2011 10:00  
 Matrix: Soil  
 Solids (%): 85

Results by SW-846 8270D

Parameter	Result	Qual	LOQ/CL	Units	DF
1,2,4-Trichlorobenzene	ND		363	ug/Kg	1
1,2-Dichlorobenzene	ND		363	ug/Kg	1
1,3-Dichlorobenzene	ND		363	ug/Kg	1
1,4-Dichlorobenzene	ND		363	ug/Kg	1
2,4,5-Trichlorophenol	ND		363	ug/Kg	1
2,4,6-Trichlorophenol	ND		363	ug/Kg	1
2,4-Dichlorophenol	ND		363	ug/Kg	1
2,4-Dinitrophenol	ND		725	ug/Kg	1
2,4-Dinitrotoluene	ND		363	ug/Kg	1
2,6-Dinitrotoluene	ND		363	ug/Kg	1
2-Chloronaphthalene	ND		363	ug/Kg	1
2-Chlorophenol	ND		363	ug/Kg	1
2-Methylnaphthalene	ND		363	ug/Kg	1
2-Methylphenol	ND		363	ug/Kg	1
2-Nitroaniline	ND		363	ug/Kg	1
2-Nitrophenol	ND		363	ug/Kg	1
3 and/or 4-Methylphenol	ND		363	ug/Kg	1
3,3'-Dichlorobenzidine	ND		363	ug/Kg	1
3-Nitroaniline	ND		363	ug/Kg	1
4,6-Dinitro-2-methylphenol	ND		363	ug/Kg	1
4-Chloro-3-methylphenol	ND		363	ug/Kg	1
4-Chloroaniline	ND		363	ug/Kg	1
4-Chlorophenyl phenyl ether	ND		363	ug/Kg	1
Acenaphthene	ND		363	ug/Kg	1
Acenaphthylene	ND		363	ug/Kg	1
Anthracene	ND		363	ug/Kg	1
Benzo(a)anthracene	ND		363	ug/Kg	1
Benzo(a)pyrene	ND		363	ug/Kg	1
Benzo(b)fluoranthene	ND		363	ug/Kg	1
Benzo(g,h,i)perylene	ND		363	ug/Kg	1
Benzo(k)fluoranthene	ND		363	ug/Kg	1
Benzoic acid	ND		363	ug/Kg	1
Bis(2-Chloroethoxy)methane	ND		363	ug/Kg	1
Bis(2-Chloroethyl)ether	ND		363	ug/Kg	1
Bis(2-Chloroisopropyl)ether	ND		363	ug/Kg	1
Bis(2-Ethylhexyl)phthalate	ND		363	ug/Kg	1
4-Bromophenyl phenyl ether	ND		363	ug/Kg	1
Butyl benzyl phthalate	ND		363	ug/Kg	1
Chrysene	ND		363	ug/Kg	1
Di-n-butyl phthalate	ND		363	ug/Kg	1
Di-n-octyl phthalate	ND		363	ug/Kg	1
Dibenz(a,h)anthracene	ND		363	ug/Kg	1
Dibenzofuran	ND		363	ug/Kg	1

## Results of 10-2-6-8

Client Sample ID: **10-2-6-8**  
 Client Project ID: **3948-Guilford Co. Parcel 10**  
 Lab Sample ID: 31100609002-F  
 Lab Project ID: 31100609

Collection Date: 03/28/2011 15:05  
 Received Date: 03/30/2011 10:00  
 Matrix: Soil  
 Solids (%): 85

## Results by SW-846 8270D

Parameter	Result	Qual	LOQ/CL	Units	DF
Diethyl phthalate	ND		363	ug/Kg	1
Dimethyl phthalate	ND		363	ug/Kg	1
2,4-Dimethylphenol	ND		363	ug/Kg	1
Diphenylamine	ND		363	ug/Kg	1
Fluoranthene	ND		363	ug/Kg	1
Fluorene	ND		363	ug/Kg	1
Hexachlorobenzene	ND		363	ug/Kg	1
Hexachlorobutadiene	ND		363	ug/Kg	1
Hexachlorocyclopentadiene	ND		363	ug/Kg	1
Hexachloroethane	ND		363	ug/Kg	1
Indeno(1,2,3-cd)pyrene	ND		363	ug/Kg	1
Isophorone	ND		363	ug/Kg	1
Naphthalene	ND		363	ug/Kg	1
4-Nitroaniline	ND		363	ug/Kg	1
Nitrobenzene	ND		363	ug/Kg	1
4-Nitrophenol	ND		363	ug/Kg	1
Pentachlorophenol	ND		363	ug/Kg	1
Phenanthrene	ND		363	ug/Kg	1
Phenol	ND		363	ug/Kg	1
Pyrene	ND		363	ug/Kg	1
n-Nitrosodi-n-propylamine	ND		363	ug/Kg	1
<b>Surrogates</b>					
2,4,6-Tribromophenol	54.0		41.0-129	%	1
2-Fluorobiphenyl	77.0		48.0-123	%	1
2-Fluorophenol	80.0		42.0-123	%	1
Nitrobenzene-d5	81.0		46.0-117	%	1
Phenol-d6	78.0		48.0-125	%	1
Terphenyl-d14	72.0		44.0-140	%	1

## Batch Information

Analytical Batch: **XMS1056**  
 Analytical Method: **SW-846 8270D**  
 Instrument: **MSD6**  
 Analyst: **CMP**  
 Analytical Date/Time: **04/01/2011 19:48**

Prep Batch: **XXX1170**  
 Prep Method: **SW-846 3541**  
 Prep Date/Time: **03/31/2011 16:40**  
 Prep Initial Wt./Vol.: **32.52 g**  
 Prep Extract Vol: **10 mL**

## Results of 10-3-6-8

Client Sample ID: **10-3-6-8**  
 Client Project ID: **3948-Guilford Co. Parcel 10**  
 Lab Sample ID: 31100609003-D  
 Lab Project ID: 31100609

Collection Date: 03/28/2011 15:10  
 Received Date: 03/30/2011 10:00  
 Matrix: Soil  
 Solids (%): 79

## Results by MADEP VPH

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>
C5-C8 Aliphatic	ND		4.87	mg/kg	1
C9-C12 Aliphatic	ND		4.87	mg/kg	1
C9-C10 Aromatic	ND		4.87	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: **VGC1125**  
 Analytical Method: **MADEP VPH**  
 Instrument: **GC4**  
 Analyst: **LMC**  
 Analytical Date/Time: **04/07/2011 04:51**

Prep Batch: **VXX1300**  
 Prep Method: **SW-846 5035 VPH prep**  
 Prep Date/Time: **04/06/2011 10:37**  
 Prep Initial Wt./Vol.: **6.47 g**  
 Prep Extract Vol: **5 mL**

## Results of 10-3-6-8

Client Sample ID: **10-3-6-8**  
 Client Project ID: **3948-Guilford Co. Parcel 10**  
 Lab Sample ID: 31100609003-B  
 Lab Project ID: 31100609

Collection Date: 03/28/2011 15:10  
 Received Date: 03/30/2011 10:00  
 Matrix: Soil  
 Solids (%): 79

## Results by SW-846 8260B

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>
1,1,1,2-Tetrachloroethane	ND		4.75	ug/Kg	1
1,1,1-Trichloroethane	ND		4.75	ug/Kg	1
1,1,2,2-Tetrachloroethane	ND		4.75	ug/Kg	1
1,1,2-Trichloroethane	ND		4.75	ug/Kg	1
1,1-Dichloroethane	ND		4.75	ug/Kg	1
1,1-Dichloroethene	ND		4.75	ug/Kg	1
1,1-Dichloropropene	ND		4.75	ug/Kg	1
1,2,3-Trichlorobenzene	ND		4.75	ug/Kg	1
1,2,3-Trichloropropane	ND		4.75	ug/Kg	1
1,2,4-Trichlorobenzene	ND		4.75	ug/Kg	1
1,2,4-Trimethylbenzene	ND		4.75	ug/Kg	1
1,2-Dibromo-3-chloropropane	ND		28.5	ug/Kg	1
1,2-Dibromoethane	ND		4.75	ug/Kg	1
1,2-Dichlorobenzene	ND		4.75	ug/Kg	1
1,2-Dichloroethane	ND		4.75	ug/Kg	1
1,2-Dichloropropane	ND		4.75	ug/Kg	1
1,3,5-Trimethylbenzene	ND		4.75	ug/Kg	1
1,3-Dichlorobenzene	ND		4.75	ug/Kg	1
1,3-Dichloropropane	ND		4.75	ug/Kg	1
1,4-Dichlorobenzene	ND		4.75	ug/Kg	1
2,2-Dichloropropane	ND		4.75	ug/Kg	1
2-Butanone	ND		23.8	ug/Kg	1
2-Chlorotoluene	ND		4.75	ug/Kg	1
2-Hexanone	ND		11.9	ug/Kg	1
4-Chlorotoluene	ND		4.75	ug/Kg	1
4-Isopropyltoluene	ND		4.75	ug/Kg	1
4-Methyl-2-pentanone	ND		11.9	ug/Kg	1
Acetone	ND		47.5	ug/Kg	1
Benzene	ND		4.75	ug/Kg	1
Bromobenzene	ND		4.75	ug/Kg	1
Bromochloromethane	ND		4.75	ug/Kg	1
Bromodichloromethane	ND		4.75	ug/Kg	1
Bromoform	ND		4.75	ug/Kg	1
Bromomethane	ND		4.75	ug/Kg	1
n-Butylbenzene	ND		4.75	ug/Kg	1
Carbon disulfide	ND		4.75	ug/Kg	1
Carbon tetrachloride	ND		4.75	ug/Kg	1
Chlorobenzene	ND		4.75	ug/Kg	1
Chloroethane	ND		4.75	ug/Kg	1
Chloroform	ND		4.75	ug/Kg	1
Chloromethane	ND		4.75	ug/Kg	1
Dibromochloromethane	ND		4.75	ug/Kg	1
Dibromomethane	ND		4.75	ug/Kg	1

## Results of 10-3-6-8

Client Sample ID: **10-3-6-8**  
 Client Project ID: **3948-Guilford Co. Parcel 10**  
 Lab Sample ID: 31100609003-B  
 Lab Project ID: 31100609

Collection Date: 03/28/2011 15:10  
 Received Date: 03/30/2011 10:00  
 Matrix: Soil  
 Solids (%): 79

## Results by SW-846 8260B

Parameter	Result	Qual	LOQ/CL	Units	DF
cis-1,3-Dichloropropene	ND		4.75	ug/Kg	1
trans-1,3-Dichloropropene	ND		4.75	ug/Kg	1
Diisopropyl Ether	<b>14.4</b>		4.75	ug/Kg	1
Ethyl Benzene	ND		4.75	ug/Kg	1
Hexachlorobutadiene	ND		4.75	ug/Kg	1
Isopropylbenzene (Cumene)	ND		4.75	ug/Kg	1
Methyl iodide	ND		4.75	ug/Kg	1
Methylene chloride	ND		19.0	ug/Kg	1
Naphthalene	ND		4.75	ug/Kg	1
Styrene	ND		4.75	ug/Kg	1
Tetrachloroethene	ND		4.75	ug/Kg	1
Toluene	ND		4.75	ug/Kg	1
Trichloroethene	ND		4.75	ug/Kg	1
Trichlorofluoromethane	ND		4.75	ug/Kg	1
Vinyl chloride	ND		4.75	ug/Kg	1
cis-1,2-Dichloroethene	ND		4.75	ug/Kg	1
m,p-Xylene	ND		9.51	ug/Kg	1
n-Propylbenzene	ND		4.75	ug/Kg	1
o-Xylene	ND		4.75	ug/Kg	1
sec-Butylbenzene	ND		4.75	ug/Kg	1
tert-Butyl methyl ether (MTBE)	ND		4.75	ug/Kg	1
tert-Butylbenzene	ND		4.75	ug/Kg	1
trans-1,2-Dichloroethene	ND		4.75	ug/Kg	1
trans-1,4-Dichloro-2-butene	ND		23.8	ug/Kg	1

## Surrogates

1,2-Dichloroethane-d4	138		55.0-173	%	1
4-Bromofluorobenzene	103		23.0-141	%	1
Toluene d8	101		57.0-134	%	1

## Batch Information

Analytical Batch: **VMS1120**  
 Analytical Method: **SW-846 8260B**  
 Instrument: **MSD4**  
 Analyst: **DVO**  
 Analytical Date/Time: **04/03/2011 12:52**

Prep Batch: **VXX1270**  
 Prep Method: **SW-846 5035 SL**  
 Prep Date/Time: **04/03/2011 00:00**  
 Prep Initial Wt./Vol.: **6.63 g**  
 Prep Extract Vol: **5 mL**

## Results of 10-3-6-8

Client Sample ID: **10-3-6-8**  
 Client Project ID: **3948-Guilford Co. Parcel 10**  
 Lab Sample ID: 31100609003-F  
 Lab Project ID: 31100609

Collection Date: 03/28/2011 15:10  
 Received Date: 03/30/2011 10:00  
 Matrix: Soil  
 Solids (%): 79

## Results by MADEP EPH

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>
C11-C22 Aromatics	ND		16.0	mg/kg	1
C9-C18 Aliphatic Hydrocarbons	ND		5.73	mg/kg	1
C19-C36 Aliphatic Hydrocarbons	ND		7.68	mg/kg	1

### Surrogates

n-Tricosane	66.0		40.0-140	%	1
o-Terphenyl	70.0		40.0-140	%	1
2-Bromonaphthalene	87.0		40.0-140	%	1
2-Fluorobiphenyl	88.0		40.0-140	%	1

## Batch Information

Analytical Batch: **XGC1127**  
 Analytical Method: **MADEP EPH**  
 Instrument: **GC6**  
 Analyst: **DTF**  
 Analytical Date/Time: **04/05/2011 22:24**

Prep Batch: **XXX1161**  
 Prep Method: **SW-846 3541/8015 EPH**  
 Prep Date/Time: **03/30/2011 15:00**  
 Prep Initial Wt./Vol.: **13.2 g**  
 Prep Extract Vol: **10 mL**

## Results of 10-3-6-8

Client Sample ID: **10-3-6-8**  
 Client Project ID: **3948-Guilford Co. Parcel 10**  
 Lab Sample ID: 31100609003-F  
 Lab Project ID: 31100609

Collection Date: 03/28/2011 15:10  
 Received Date: 03/30/2011 10:00  
 Matrix: Soil  
 Solids (%): 79

## Results by SW-846 8270D

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>
1,2,4-Trichlorobenzene	ND		395	ug/Kg	1
1,2-Dichlorobenzene	ND		395	ug/Kg	1
1,3-Dichlorobenzene	ND		395	ug/Kg	1
1,4-Dichlorobenzene	ND		395	ug/Kg	1
2,4,5-Trichlorophenol	ND		395	ug/Kg	1
2,4,6-Trichlorophenol	ND		395	ug/Kg	1
2,4-Dichlorophenol	ND		395	ug/Kg	1
2,4-Dinitrophenol	ND		788	ug/Kg	1
2,4-Dinitrotoluene	ND		395	ug/Kg	1
2,6-Dinitrotoluene	ND		395	ug/Kg	1
2-Chloronaphthalene	ND		395	ug/Kg	1
2-Chlorophenol	ND		395	ug/Kg	1
2-Methylnaphthalene	ND		395	ug/Kg	1
2-Methylphenol	ND		395	ug/Kg	1
2-Nitroaniline	ND		395	ug/Kg	1
2-Nitrophenol	ND		395	ug/Kg	1
3 and/or 4-Methylphenol	ND		395	ug/Kg	1
3,3'-Dichlorobenzidine	ND		395	ug/Kg	1
3-Nitroaniline	ND		395	ug/Kg	1
4,6-Dinitro-2-methylphenol	ND		395	ug/Kg	1
4-Chloro-3-methylphenol	ND		395	ug/Kg	1
4-Chloroaniline	ND		395	ug/Kg	1
4-Chlorophenyl phenyl ether	ND		395	ug/Kg	1
Acenaphthene	ND		395	ug/Kg	1
Acenaphthylene	ND		395	ug/Kg	1
Anthracene	ND		395	ug/Kg	1
Benzo(a)anthracene	ND		395	ug/Kg	1
Benzo(a)pyrene	ND		395	ug/Kg	1
Benzo(b)fluoranthene	ND		395	ug/Kg	1
Benzo(g,h,i)perylene	ND		395	ug/Kg	1
Benzo(k)fluoranthene	ND		395	ug/Kg	1
Benzoic acid	ND		395	ug/Kg	1
Bis(2-Chloroethoxy)methane	ND		395	ug/Kg	1
Bis(2-Chloroethyl)ether	ND		395	ug/Kg	1
Bis(2-Chloroisopropyl)ether	ND		395	ug/Kg	1
Bis(2-Ethylhexyl)phthalate	ND		395	ug/Kg	1
4-Bromophenyl phenyl ether	ND		395	ug/Kg	1
Butyl benzyl phthalate	ND		395	ug/Kg	1
Chrysene	ND		395	ug/Kg	1
Di-n-butyl phthalate	ND		395	ug/Kg	1
Di-n-octyl phthalate	ND		395	ug/Kg	1
Dibenz(a,h)anthracene	ND		395	ug/Kg	1
Dibenzofuran	ND		395	ug/Kg	1

## Results of 10-3-6-8

Client Sample ID: **10-3-6-8**  
 Client Project ID: **3948-Guilford Co. Parcel 10**  
 Lab Sample ID: 31100609003-F  
 Lab Project ID: 31100609

Collection Date: 03/28/2011 15:10  
 Received Date: 03/30/2011 10:00  
 Matrix: Soil  
 Solids (%): 79

## Results by SW-846 8270D

Parameter	Result	Qual	LOQ/CL	Units	DF
Diethyl phthalate	ND		395	ug/Kg	1
Dimethyl phthalate	ND		395	ug/Kg	1
2,4-Dimethylphenol	ND		395	ug/Kg	1
Diphenylamine	ND		395	ug/Kg	1
Fluoranthene	ND		395	ug/Kg	1
Fluorene	ND		395	ug/Kg	1
Hexachlorobenzene	ND		395	ug/Kg	1
Hexachlorobutadiene	ND		395	ug/Kg	1
Hexachlorocyclopentadiene	ND		395	ug/Kg	1
Hexachloroethane	ND		395	ug/Kg	1
Indeno(1,2,3-cd)pyrene	ND		395	ug/Kg	1
Isophorone	ND		395	ug/Kg	1
Naphthalene	ND		395	ug/Kg	1
4-Nitroaniline	ND		395	ug/Kg	1
Nitrobenzene	ND		395	ug/Kg	1
4-Nitrophenol	ND		395	ug/Kg	1
Pentachlorophenol	ND		395	ug/Kg	1
Phenanthrene	ND		395	ug/Kg	1
Phenol	ND		395	ug/Kg	1
Pyrene	ND		395	ug/Kg	1
n-Nitrosodi-n-propylamine	ND		395	ug/Kg	1

## Surrogates

2,4,6-Tribromophenol	76.0		41.0-129	%	1
2-Fluorobiphenyl	85.0		48.0-123	%	1
2-Fluorophenol	97.0		42.0-123	%	1
Nitrobenzene-d5	95.0		46.0-117	%	1
Phenol-d6	93.0		48.0-125	%	1
Terphenyl-d14	82.0		44.0-140	%	1

## Batch Information

Analytical Batch: **XMS1058**  
 Analytical Method: **SW-846 8270D**  
 Instrument: **MSD10**  
 Analyst: **CMP**  
 Analytical Date/Time: **04/04/2011 00:46**

Prep Batch: **XXX1170**  
 Prep Method: **SW-846 3541**  
 Prep Date/Time: **03/31/2011 16:40**  
 Prep Initial Wt./Vol.: **32.01 g**  
 Prep Extract Vol: **10 mL**



## Results of 10-4-6-8

Client Sample ID: **10-4-6-8**  
 Client Project ID: **3948-Guilford Co. Parcel 10**  
 Lab Sample ID: 31100609004-D  
 Lab Project ID: 31100609

Collection Date: 03/28/2011 15:12  
 Received Date: 03/30/2011 10:00  
 Matrix: Soil  
 Solids (%): 74

## Results by MADEP VPH

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>
C5-C8 Aliphatic	ND		4.91	mg/kg	1
C9-C12 Aliphatic	ND		4.91	mg/kg	1
C9-C10 Aromatic	ND		4.91	mg/kg	1

### Surrogates

FID - 4-Bromofluorobenzene	92.0		70.0-130	%	1
PID - 4-Bromofluorobenzene	92.0		70.0-130	%	1

## Batch Information

Analytical Batch: **VGC1125**  
 Analytical Method: **MADEP VPH**  
 Instrument: **GC4**  
 Analyst: **LMC**  
 Analytical Date/Time: **04/07/2011 05:18**

Prep Batch: **VXX1300**  
 Prep Method: **SW-846 5035 VPH prep**  
 Prep Date/Time: **04/06/2011 10:37**  
 Prep Initial Wt./Vol.: **6.9 g**  
 Prep Extract Vol: **5 mL**



Results of 10-4-6-8

Client Sample ID: 10-4-6-8  
Client Project ID: 3948-Guilford Co. Parcel 10  
Lab Sample ID: 31100609004-B  
Lab Project ID: 31100609

Collection Date: 03/28/2011 15:12  
Received Date: 03/30/2011 10:00  
Matrix: Soil  
Solids (%): 74

Results by SW-846 8260B

Parameter	Result	Qual	LOQ/CL	Units	DF
1,1,1,2-Tetrachloroethane	ND		5.18	ug/Kg	1
1,1,1-Trichloroethane	ND		5.18	ug/Kg	1
1,1,2,2-Tetrachloroethane	ND		5.18	ug/Kg	1
1,1,2-Trichloroethane	ND		5.18	ug/Kg	1
1,1-Dichloroethane	ND		5.18	ug/Kg	1
1,1-Dichloroethene	ND		5.18	ug/Kg	1
1,1-Dichloropropene	ND		5.18	ug/Kg	1
1,2,3-Trichlorobenzene	ND		5.18	ug/Kg	1
1,2,3-Trichloropropane	ND		5.18	ug/Kg	1
1,2,4-Trichlorobenzene	ND		5.18	ug/Kg	1
1,2,4-Trimethylbenzene	ND		5.18	ug/Kg	1
1,2-Dibromo-3-chloropropane	ND		31.1	ug/Kg	1
1,2-Dibromoethane	ND		5.18	ug/Kg	1
1,2-Dichlorobenzene	ND		5.18	ug/Kg	1
1,2-Dichloroethane	ND		5.18	ug/Kg	1
1,2-Dichloropropane	ND		5.18	ug/Kg	1
1,3,5-Trimethylbenzene	ND		5.18	ug/Kg	1
1,3-Dichlorobenzene	ND		5.18	ug/Kg	1
1,3-Dichloropropane	ND		5.18	ug/Kg	1
1,4-Dichlorobenzene	ND		5.18	ug/Kg	1
2,2-Dichloropropane	ND		5.18	ug/Kg	1
2-Butanone	ND		25.9	ug/Kg	1
2-Chlorotoluene	ND		5.18	ug/Kg	1
2-Hexanone	ND		13.0	ug/Kg	1
4-Chlorotoluene	ND		5.18	ug/Kg	1
4-Isopropyltoluene	ND		5.18	ug/Kg	1
4-Methyl-2-pentanone	ND		13.0	ug/Kg	1
Acetone	ND		51.8	ug/Kg	1
Benzene	ND		5.18	ug/Kg	1
Bromobenzene	ND		5.18	ug/Kg	1
Bromochloromethane	ND		5.18	ug/Kg	1
Bromodichloromethane	ND		5.18	ug/Kg	1
Bromoform	ND		5.18	ug/Kg	1
Bromomethane	ND		5.18	ug/Kg	1
n-Butylbenzene	ND		5.18	ug/Kg	1
Carbon disulfide	ND		5.18	ug/Kg	1
Carbon tetrachloride	ND		5.18	ug/Kg	1
Chlorobenzene	ND		5.18	ug/Kg	1
Chloroethane	ND		5.18	ug/Kg	1
Chloroform	ND		5.18	ug/Kg	1
Chloromethane	ND		5.18	ug/Kg	1
Dibromochloromethane	ND		5.18	ug/Kg	1
Dibromomethane	ND		5.18	ug/Kg	1

Print Date: 04/15/2011

N.C. Certification # 481

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Member of SGS Group

## Results of 10-4-6-8

Client Sample ID: **10-4-6-8**  
 Client Project ID: **3948-Guilford Co. Parcel 10**  
 Lab Sample ID: 31100609004-B  
 Lab Project ID: 31100609

Collection Date: 03/28/2011 15:12  
 Received Date: 03/30/2011 10:00  
 Matrix: Soil  
 Solids (%): 74

## Results by SW-846 8260B

Parameter	Result	Qual	LOQ/CL	Units	DF
cis-1,3-Dichloropropene	ND		5.18	ug/Kg	1
trans-1,3-Dichloropropene	ND		5.18	ug/Kg	1
Diisopropyl Ether	<b>14.8</b>		5.18	ug/Kg	1
Ethyl Benzene	ND		5.18	ug/Kg	1
Hexachlorobutadiene	ND		5.18	ug/Kg	1
Isopropylbenzene (Cumene)	ND		5.18	ug/Kg	1
Methyl iodide	ND		5.18	ug/Kg	1
Methylene chloride	ND		20.7	ug/Kg	1
Naphthalene	ND		5.18	ug/Kg	1
Styrene	ND		5.18	ug/Kg	1
Tetrachloroethene	ND		5.18	ug/Kg	1
Toluene	ND		5.18	ug/Kg	1
Trichloroethene	ND		5.18	ug/Kg	1
Trichlorofluoromethane	ND		5.18	ug/Kg	1
Vinyl chloride	ND		5.18	ug/Kg	1
cis-1,2-Dichloroethene	ND		5.18	ug/Kg	1
m,p-Xylene	ND		10.4	ug/Kg	1
n-Propylbenzene	ND		5.18	ug/Kg	1
o-Xylene	ND		5.18	ug/Kg	1
sec-Butylbenzene	ND		5.18	ug/Kg	1
tert-Butyl methyl ether (MTBE)	<b>9.70</b>		5.18	ug/Kg	1
tert-Butylbenzene	ND		5.18	ug/Kg	1
trans-1,2-Dichloroethene	ND		5.18	ug/Kg	1
trans-1,4-Dichloro-2-butene	ND		25.9	ug/Kg	1

## Surrogates

1,2-Dichloroethane-d4	130		55.0-173	%	1
4-Bromofluorobenzene	104		23.0-141	%	1
Toluene d8	101		57.0-134	%	1

## Batch Information

Analytical Batch: **VMS1120**  
 Analytical Method: **SW-846 8260B**  
 Instrument: **MSD4**  
 Analyst: **DVO**  
 Analytical Date/Time: **04/03/2011 13:19**

Prep Batch: **VXX1270**  
 Prep Method: **SW-846 5035 SL**  
 Prep Date/Time: **04/03/2011 00:00**  
 Prep Initial Wt./Vol.: **6.54 g**  
 Prep Extract Vol: **5 mL**

## Results of 10-4-6-8

Client Sample ID: **10-4-6-8**  
 Client Project ID: **3948-Guilford Co. Parcel 10**  
 Lab Sample ID: 31100609004-F  
 Lab Project ID: 31100609

Collection Date: 03/28/2011 15:12  
 Received Date: 03/30/2011 10:00  
 Matrix: Soil  
 Solids (%): 74

## Results by MADEP EPH

Parameter	Result	Qual	LOQ/CL	Units	DF
C11-C22 Aromatics	ND		18.9	mg/kg	1
C9-C18 Aliphatic Hydrocarbons	ND		6.74	mg/kg	1
C19-C36 Aliphatic Hydrocarbons	ND		9.03	mg/kg	1

### Surrogates

n-Tricosane	63.0		40.0-140	%	1
o-Terphenyl	88.0		40.0-140	%	1
2-Bromonaphthalene	116		40.0-140	%	1
2-Fluorobiphenyl	117		40.0-140	%	1

## Batch Information

Analytical Batch: **XGC1127**  
 Analytical Method: **MADEP EPH**  
 Instrument: **GC6**  
 Analyst: **DTF**  
 Analytical Date/Time: **04/05/2011 23:20**

Prep Batch: **XXX1161**  
 Prep Method: **SW-846 3541/8015 EPH**  
 Prep Date/Time: **03/30/2011 15:00**  
 Prep Initial Wt./Vol.: **12.07 g**  
 Prep Extract Vol: **10 mL**

Results of **10-4-6-8**

Client Sample ID: **10-4-6-8**  
 Client Project ID: **3948-Guilford Co. Parcel 10**  
 Lab Sample ID: 31100609004-F  
 Lab Project ID: 31100609

Collection Date: 03/28/2011 15:12  
 Received Date: 03/30/2011 10:00  
 Matrix: Soil  
 Solids (%): 74

Results by **SW-846 8270D**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>
1,2,4-Trichlorobenzene	ND		411	ug/Kg	1
1,2-Dichlorobenzene	ND		411	ug/Kg	1
1,3-Dichlorobenzene	ND		411	ug/Kg	1
1,4-Dichlorobenzene	ND		411	ug/Kg	1
2,4,5-Trichlorophenol	ND		411	ug/Kg	1
2,4,6-Trichlorophenol	ND		411	ug/Kg	1
2,4-Dichlorophenol	ND		411	ug/Kg	1
2,4-Dinitrophenol	ND		820	ug/Kg	1
2,4-Dinitrotoluene	ND		411	ug/Kg	1
2,6-Dinitrotoluene	ND		411	ug/Kg	1
2-Chloronaphthalene	ND		411	ug/Kg	1
2-Chlorophenol	ND		411	ug/Kg	1
2-Methylnaphthalene	ND		411	ug/Kg	1
2-Methylphenol	ND		411	ug/Kg	1
2-Nitroaniline	ND		411	ug/Kg	1
2-Nitrophenol	ND		411	ug/Kg	1
3 and/or 4-Methylphenol	ND		411	ug/Kg	1
3,3'-Dichlorobenzidine	ND		411	ug/Kg	1
3-Nitroaniline	ND		411	ug/Kg	1
4,6-Dinitro-2-methylphenol	ND		411	ug/Kg	1
4-Chloro-3-methylphenol	ND		411	ug/Kg	1
4-Chloroaniline	ND		411	ug/Kg	1
4-Chlorophenyl phenyl ether	ND		411	ug/Kg	1
Acenaphthene	ND		411	ug/Kg	1
Acenaphthylene	ND		411	ug/Kg	1
Anthracene	ND		411	ug/Kg	1
Benzo(a)anthracene	ND		411	ug/Kg	1
Benzo(a)pyrene	ND		411	ug/Kg	1
Benzo(b)fluoranthene	ND		411	ug/Kg	1
Benzo(g,h,i)perylene	ND		411	ug/Kg	1
Benzo(k)fluoranthene	ND		411	ug/Kg	1
Benzoic acid	ND		411	ug/Kg	1
Bis(2-Chloroethoxy)methane	ND		411	ug/Kg	1
Bis(2-Chloroethyl)ether	ND		411	ug/Kg	1
Bis(2-Chloroisopropyl)ether	ND		411	ug/Kg	1
Bis(2-Ethylhexyl)phthalate	ND		411	ug/Kg	1
4-Bromophenyl phenyl ether	ND		411	ug/Kg	1
Butyl benzyl phthalate	ND		411	ug/Kg	1
Chrysene	ND		411	ug/Kg	1
Di-n-butyl phthalate	ND		411	ug/Kg	1
Di-n-octyl phthalate	ND		411	ug/Kg	1
Dibenz(a,h)anthracene	ND		411	ug/Kg	1
Dibenzofuran	ND		411	ug/Kg	1

## Results of 10-4-6-8

Client Sample ID: **10-4-6-8**  
 Client Project ID: **3948-Guilford Co. Parcel 10**  
 Lab Sample ID: 31100609004-F  
 Lab Project ID: 31100609

Collection Date: 03/28/2011 15:12  
 Received Date: 03/30/2011 10:00  
 Matrix: Soil  
 Solids (%): 74

## Results by SW-846 8270D

Parameter	Result	Qual	LOQ/CL	Units	DF
Diethyl phthalate	ND		411	ug/Kg	1
Dimethyl phthalate	ND		411	ug/Kg	1
2,4-Dimethylphenol	ND		411	ug/Kg	1
Diphenylamine	ND		411	ug/Kg	1
Fluoranthene	ND		411	ug/Kg	1
Fluorene	ND		411	ug/Kg	1
Hexachlorobenzene	ND		411	ug/Kg	1
Hexachlorobutadiene	ND		411	ug/Kg	1
Hexachlorocyclopentadiene	ND		411	ug/Kg	1
Hexachloroethane	ND		411	ug/Kg	1
Indeno(1,2,3-cd)pyrene	ND		411	ug/Kg	1
Isophorone	ND		411	ug/Kg	1
Naphthalene	ND		411	ug/Kg	1
4-Nitroaniline	ND		411	ug/Kg	1
Nitrobenzene	ND		411	ug/Kg	1
4-Nitrophenol	ND		411	ug/Kg	1
Pentachlorophenol	ND		411	ug/Kg	1
Phenanthrene	ND		411	ug/Kg	1
Phenol	ND		411	ug/Kg	1
Pyrene	ND		411	ug/Kg	1
n-Nitrosodi-n-propylamine	ND		411	ug/Kg	1

## Surrogates

2,4,6-Tribromophenol	73.0		41.0-129	%	1
2-Fluorobiphenyl	84.0		48.0-123	%	1
2-Fluorophenol	96.0		42.0-123	%	1
Nitrobenzene-d5	92.0		46.0-117	%	1
Phenol-d6	91.0		48.0-125	%	1
Terphenyl-d14	83.0		44.0-140	%	1

## Batch Information

Analytical Batch: **XMS1058**  
 Analytical Method: **SW-846 8270D**  
 Instrument: **MSD10**  
 Analyst: **CMP**  
 Analytical Date/Time: **04/04/2011 01:10**

Prep Batch: **XXX1170**  
 Prep Method: **SW-846 3541**  
 Prep Date/Time: **03/31/2011 16:40**  
 Prep Initial Wt./Vol.: **33.06 g**  
 Prep Extract Vol: **10 mL**

## Results of 10-5-6-8

Client Sample ID: **10-5-6-8**  
 Client Project ID: **3948-Guilford Co. Parcel 10**  
 Lab Sample ID: 31100609005-D  
 Lab Project ID: 31100609

Collection Date: 03/28/2011 15:17  
 Received Date: 03/30/2011 10:00  
 Matrix: Soil  
 Solids (%): 76

## Results by MADEP VPH

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>
C5-C8 Aliphatic	ND		5.10	mg/kg	1
C9-C12 Aliphatic	ND		5.10	mg/kg	1
C9-C10 Aromatic	ND		5.10	mg/kg	1

### Surrogates

FID - 4-Bromofluorobenzene	94.0		70.0-130	%	1
PID - 4-Bromofluorobenzene	95.0		70.0-130	%	1

## Batch Information

Analytical Batch: **VGC1125**  
 Analytical Method: **MADEP VPH**  
 Instrument: **GC4**  
 Analyst: **LMC**  
 Analytical Date/Time: **04/07/2011 05:44**

Prep Batch: **VXX1300**  
 Prep Method: **SW-846 5035 VPH prep**  
 Prep Date/Time: **04/06/2011 10:37**  
 Prep Initial Wt./Vol.: **6.47 g**  
 Prep Extract Vol: **5 mL**

Results of **10-5-6-8**

Client Sample ID: **10-5-6-8**  
 Client Project ID: **3948-Guilford Co. Parcel 10**  
 Lab Sample ID: 31100609005-A  
 Lab Project ID: 31100609

Collection Date: 03/28/2011 15:17  
 Received Date: 03/30/2011 10:00  
 Matrix: Soil  
 Solids (%): 76

Results by **SW-846 8260B**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>
1,1,1,2-Tetrachloroethane	ND		4.71	ug/Kg	1
1,1,1-Trichloroethane	ND		4.71	ug/Kg	1
1,1,2,2-Tetrachloroethane	ND		4.71	ug/Kg	1
1,1,2-Trichloroethane	ND		4.71	ug/Kg	1
1,1-Dichloroethane	ND		4.71	ug/Kg	1
1,1-Dichloroethene	ND		4.71	ug/Kg	1
1,1-Dichloropropene	ND		4.71	ug/Kg	1
1,2,3-Trichlorobenzene	ND		4.71	ug/Kg	1
1,2,3-Trichloropropane	ND		4.71	ug/Kg	1
1,2,4-Trichlorobenzene	ND		4.71	ug/Kg	1
1,2,4-Trimethylbenzene	ND		4.71	ug/Kg	1
1,2-Dibromo-3-chloropropane	ND		28.3	ug/Kg	1
1,2-Dibromoethane	ND		4.71	ug/Kg	1
1,2-Dichlorobenzene	ND		4.71	ug/Kg	1
1,2-Dichloroethane	ND		4.71	ug/Kg	1
1,2-Dichloropropane	ND		4.71	ug/Kg	1
1,3,5-Trimethylbenzene	ND		4.71	ug/Kg	1
1,3-Dichlorobenzene	ND		4.71	ug/Kg	1
1,3-Dichloropropane	ND		4.71	ug/Kg	1
1,4-Dichlorobenzene	ND		4.71	ug/Kg	1
2,2-Dichloropropane	ND		4.71	ug/Kg	1
2-Butanone	ND		23.6	ug/Kg	1
2-Chlorotoluene	ND		4.71	ug/Kg	1
2-Hexanone	ND		11.8	ug/Kg	1
4-Chlorotoluene	ND		4.71	ug/Kg	1
4-Isopropyltoluene	ND		4.71	ug/Kg	1
4-Methyl-2-pentanone	ND		11.8	ug/Kg	1
Acetone	ND		47.1	ug/Kg	1
Benzene	ND		4.71	ug/Kg	1
Bromobenzene	ND		4.71	ug/Kg	1
Bromochloromethane	ND		4.71	ug/Kg	1
Bromodichloromethane	ND		4.71	ug/Kg	1
Bromoform	ND		4.71	ug/Kg	1
Bromomethane	ND		4.71	ug/Kg	1
n-Butylbenzene	ND		4.71	ug/Kg	1
Carbon disulfide	ND		4.71	ug/Kg	1
Carbon tetrachloride	ND		4.71	ug/Kg	1
Chlorobenzene	ND		4.71	ug/Kg	1
Chloroethane	ND		4.71	ug/Kg	1
Chloroform	ND		4.71	ug/Kg	1
Chloromethane	ND		4.71	ug/Kg	1
Dibromochloromethane	ND		4.71	ug/Kg	1
Dibromomethane	ND		4.71	ug/Kg	1



## Results of 10-5-6-8

Client Sample ID: **10-5-6-8**  
 Client Project ID: **3948-Guilford Co. Parcel 10**  
 Lab Sample ID: 31100609005-A  
 Lab Project ID: 31100609

Collection Date: 03/28/2011 15:17  
 Received Date: 03/30/2011 10:00  
 Matrix: Soil  
 Solids (%): 76

## Results by SW-846 8260B

Parameter	Result	Qual	LOQ/CL	Units	DF
cis-1,3-Dichloropropene	ND		4.71	ug/Kg	1
trans-1,3-Dichloropropene	ND		4.71	ug/Kg	1
Diisopropyl Ether	ND		4.71	ug/Kg	1
Ethyl Benzene	ND		4.71	ug/Kg	1
Hexachlorobutadiene	ND		4.71	ug/Kg	1
Isopropylbenzene (Cumene)	ND		4.71	ug/Kg	1
Methyl iodide	ND		4.71	ug/Kg	1
Methylene chloride	ND		18.8	ug/Kg	1
Naphthalene	ND		4.71	ug/Kg	1
Styrene	ND		4.71	ug/Kg	1
Tetrachloroethene	ND		4.71	ug/Kg	1
Toluene	ND		4.71	ug/Kg	1
Trichloroethene	ND		4.71	ug/Kg	1
Trichlorofluoromethane	ND		4.71	ug/Kg	1
Vinyl chloride	ND		4.71	ug/Kg	1
cis-1,2-Dichloroethene	ND		4.71	ug/Kg	1
m,p-Xylene	ND		9.42	ug/Kg	1
n-Propylbenzene	ND		4.71	ug/Kg	1
o-Xylene	ND		4.71	ug/Kg	1
sec-Butylbenzene	ND		4.71	ug/Kg	1
tert-Butyl methyl ether (MTBE)	ND		4.71	ug/Kg	1
tert-Butylbenzene	ND		4.71	ug/Kg	1
trans-1,2-Dichloroethene	ND		4.71	ug/Kg	1
trans-1,4-Dichloro-2-butene	ND		23.6	ug/Kg	1

## Surrogates

1,2-Dichloroethane-d4	129		55.0-173	%	1
4-Bromofluorobenzene	103		23.0-141	%	1
Toluene d8	101		57.0-134	%	1

## Batch Information

Analytical Batch: **VMS1120**  
 Analytical Method: **SW-846 8260B**  
 Instrument: **MSD4**  
 Analyst: **DVO**  
 Analytical Date/Time: **04/03/2011 13:45**

Prep Batch: **VXX1270**  
 Prep Method: **SW-846 5035 SL**  
 Prep Date/Time: **04/03/2011 00:00**  
 Prep Initial Wt./Vol.: **7.01 g**  
 Prep Extract Vol: **5 mL**

## Results of 10-5-6-8

Client Sample ID: **10-5-6-8**  
 Client Project ID: **3948-Guilford Co. Parcel 10**  
 Lab Sample ID: 31100609005-F  
 Lab Project ID: 31100609

Collection Date: 03/28/2011 15:17  
 Received Date: 03/30/2011 10:00  
 Matrix: Soil  
 Solids (%): 76

## Results by MADEP EPH

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>
C11-C22 Aromatics	ND		17.8	mg/kg	1
C9-C18 Aliphatic Hydrocarbons	ND		6.37	mg/kg	1
C19-C36 Aliphatic Hydrocarbons	ND		8.53	mg/kg	1

### Surrogates

n-Tricosane	63.0		40.0-140	%	1
o-Terphenyl	72.0		40.0-140	%	1
2-Bromonaphthalene	87.0		40.0-140	%	1
2-Fluorobiphenyl	88.0		40.0-140	%	1

## Batch Information

Analytical Batch: **XGC1127**  
 Analytical Method: **MADEP EPH**  
 Instrument: **GC6**  
 Analyst: **DTF**  
 Analytical Date/Time: **04/06/2011 00:17**

Prep Batch: **XXX1161**  
 Prep Method: **SW-846 3541/8015 EPH**  
 Prep Date/Time: **03/30/2011 15:00**  
 Prep Initial Wt./Vol.: **12.45 g**  
 Prep Extract Vol: **10 mL**

Results of **10-5-6-8**

Client Sample ID: **10-5-6-8**  
 Client Project ID: **3948-Guilford Co. Parcel 10**  
 Lab Sample ID: 31100609005-F  
 Lab Project ID: 31100609

Collection Date: 03/28/2011 15:17  
 Received Date: 03/30/2011 10:00  
 Matrix: Soil  
 Solids (%): 76

Results by **SW-846 8270D**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>
1,2,4-Trichlorobenzene	ND		417	ug/Kg	1
1,2-Dichlorobenzene	ND		417	ug/Kg	1
1,3-Dichlorobenzene	ND		417	ug/Kg	1
1,4-Dichlorobenzene	ND		417	ug/Kg	1
2,4,5-Trichlorophenol	ND		417	ug/Kg	1
2,4,6-Trichlorophenol	ND		417	ug/Kg	1
2,4-Dichlorophenol	ND		417	ug/Kg	1
2,4-Dinitrophenol	ND		833	ug/Kg	1
2,4-Dinitrotoluene	ND		417	ug/Kg	1
2,6-Dinitrotoluene	ND		417	ug/Kg	1
2-Chloronaphthalene	ND		417	ug/Kg	1
2-Chlorophenol	ND		417	ug/Kg	1
2-Methylnaphthalene	ND		417	ug/Kg	1
2-Methylphenol	ND		417	ug/Kg	1
2-Nitroaniline	ND		417	ug/Kg	1
2-Nitrophenol	ND		417	ug/Kg	1
3 and/or 4-Methylphenol	ND		417	ug/Kg	1
3,3'-Dichlorobenzidine	ND		417	ug/Kg	1
3-Nitroaniline	ND		417	ug/Kg	1
4,6-Dinitro-2-methylphenol	ND		417	ug/Kg	1
4-Chloro-3-methylphenol	ND		417	ug/Kg	1
4-Chloroaniline	ND		417	ug/Kg	1
4-Chlorophenyl phenyl ether	ND		417	ug/Kg	1
Acenaphthene	ND		417	ug/Kg	1
Acenaphthylene	ND		417	ug/Kg	1
Anthracene	ND		417	ug/Kg	1
Benzo(a)anthracene	ND		417	ug/Kg	1
Benzo(a)pyrene	ND		417	ug/Kg	1
Benzo(b)fluoranthene	ND		417	ug/Kg	1
Benzo(g,h,i)perylene	ND		417	ug/Kg	1
Benzo(k)fluoranthene	ND		417	ug/Kg	1
Benzoic acid	ND		417	ug/Kg	1
Bis(2-Chloroethoxy)methane	ND		417	ug/Kg	1
Bis(2-Chloroethyl)ether	ND		417	ug/Kg	1
Bis(2-Chloroisopropyl)ether	ND		417	ug/Kg	1
Bis(2-Ethylhexyl)phthalate	ND		417	ug/Kg	1
4-Bromophenyl phenyl ether	ND		417	ug/Kg	1
Butyl benzyl phthalate	ND		417	ug/Kg	1
Chrysene	ND		417	ug/Kg	1
Di-n-butyl phthalate	ND		417	ug/Kg	1
Di-n-octyl phthalate	ND		417	ug/Kg	1
Dibenz(a,h)anthracene	ND		417	ug/Kg	1
Dibenzofuran	ND		417	ug/Kg	1

## Results of 10-5-6-8

Client Sample ID: **10-5-6-8**  
 Client Project ID: **3948-Guilford Co. Parcel 10**  
 Lab Sample ID: 31100609005-F  
 Lab Project ID: 31100609

Collection Date: 03/28/2011 15:17  
 Received Date: 03/30/2011 10:00  
 Matrix: Soil  
 Solids (%): 76

## Results by SW-846 8270D

Parameter	Result	Qual	LOQ/CL	Units	DF
Diethyl phthalate	ND		417	ug/Kg	1
Dimethyl phthalate	ND		417	ug/Kg	1
2,4-Dimethylphenol	ND		417	ug/Kg	1
Diphenylamine	ND		417	ug/Kg	1
Fluoranthene	ND		417	ug/Kg	1
Fluorene	ND		417	ug/Kg	1
Hexachlorobenzene	ND		417	ug/Kg	1
Hexachlorobutadiene	ND		417	ug/Kg	1
Hexachlorocyclopentadiene	ND		417	ug/Kg	1
Hexachloroethane	ND		417	ug/Kg	1
Indeno(1,2,3-cd)pyrene	ND		417	ug/Kg	1
Isophorone	ND		417	ug/Kg	1
Naphthalene	ND		417	ug/Kg	1
4-Nitroaniline	ND		417	ug/Kg	1
Nitrobenzene	ND		417	ug/Kg	1
4-Nitrophenol	ND		417	ug/Kg	1
Pentachlorophenol	ND		417	ug/Kg	1
Phenanthrene	ND		417	ug/Kg	1
Phenol	ND		417	ug/Kg	1
Pyrene	ND		417	ug/Kg	1
n-Nitrosodi-n-propylamine	ND		417	ug/Kg	1

## Surrogates

2,4,6-Tribromophenol	67.0		41.0-129	%	1
2-Fluorobiphenyl	81.0		48.0-123	%	1
2-Fluorophenol	88.0		42.0-123	%	1
Nitrobenzene-d5	87.0		46.0-117	%	1
Phenol-d6	85.0		48.0-125	%	1
Terphenyl-d14	77.0		44.0-140	%	1

## Batch Information

Analytical Batch: **XMS1058**  
 Analytical Method: **SW-846 8270D**  
 Instrument: **MSD10**  
 Analyst: **CMP**  
 Analytical Date/Time: **04/04/2011 01:32**

Prep Batch: **XXX1170**  
 Prep Method: **SW-846 3541**  
 Prep Date/Time: **03/31/2011 16:40**  
 Prep Initial Wt./Vol.: **31.72 g**  
 Prep Extract Vol: **10 mL**

## Results of 10-6-6-8

Client Sample ID: **10-6-6-8**  
 Client Project ID: **3948-Guilford Co. Parcel 10**  
 Lab Sample ID: 31100609006-D  
 Lab Project ID: 31100609

Collection Date: 03/28/2011 15:20  
 Received Date: 03/30/2011 10:00  
 Matrix: Soil  
 Solids (%): 76

## Results by MADEP VPH

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>
C5-C8 Aliphatic	ND		5.04	mg/kg	1
C9-C12 Aliphatic	ND		5.04	mg/kg	1
C9-C10 Aromatic	ND		5.04	mg/kg	1

### Surrogates

FID - 4-Bromofluorobenzene	93.0		70.0-130	%	1
PID - 4-Bromofluorobenzene	95.0		70.0-130	%	1

## Batch Information

Analytical Batch: **VGC1125**  
 Analytical Method: **MADEP VPH**  
 Instrument: **GC4**  
 Analyst: **LMC**  
 Analytical Date/Time: **04/07/2011 06:11**

Prep Batch: **VXX1300**  
 Prep Method: **SW-846 5035 VPH prep**  
 Prep Date/Time: **04/06/2011 10:37**  
 Prep Initial Wt./Vol.: **6.55 g**  
 Prep Extract Vol: **5 mL**

## Results of 10-6-6-8

Client Sample ID: **10-6-6-8**  
 Client Project ID: **3948-Guilford Co. Parcel 10**  
 Lab Sample ID: 31100609006-A  
 Lab Project ID: 31100609

Collection Date: 03/28/2011 15:20  
 Received Date: 03/30/2011 10:00  
 Matrix: Soil  
 Solids (%): 76

## Results by SW-846 8260B

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>
1,1,1,2-Tetrachloroethane	ND		5.13	ug/Kg	1
1,1,1-Trichloroethane	ND		5.13	ug/Kg	1
1,1,2,2-Tetrachloroethane	ND		5.13	ug/Kg	1
1,1,2-Trichloroethane	ND		5.13	ug/Kg	1
1,1-Dichloroethane	ND		5.13	ug/Kg	1
1,1-Dichloroethene	ND		5.13	ug/Kg	1
1,1-Dichloropropene	ND		5.13	ug/Kg	1
1,2,3-Trichlorobenzene	ND		5.13	ug/Kg	1
1,2,3-Trichloropropane	ND		5.13	ug/Kg	1
1,2,4-Trichlorobenzene	ND		5.13	ug/Kg	1
1,2,4-Trimethylbenzene	ND		5.13	ug/Kg	1
1,2-Dibromo-3-chloropropane	ND		30.8	ug/Kg	1
1,2-Dibromoethane	ND		5.13	ug/Kg	1
1,2-Dichlorobenzene	ND		5.13	ug/Kg	1
1,2-Dichloroethane	ND		5.13	ug/Kg	1
1,2-Dichloropropane	ND		5.13	ug/Kg	1
1,3,5-Trimethylbenzene	ND		5.13	ug/Kg	1
1,3-Dichlorobenzene	ND		5.13	ug/Kg	1
1,3-Dichloropropane	ND		5.13	ug/Kg	1
1,4-Dichlorobenzene	ND		5.13	ug/Kg	1
2,2-Dichloropropane	ND		5.13	ug/Kg	1
2-Butanone	ND		25.7	ug/Kg	1
2-Chlorotoluene	ND		5.13	ug/Kg	1
2-Hexanone	ND		12.8	ug/Kg	1
4-Chlorotoluene	ND		5.13	ug/Kg	1
4-Isopropyltoluene	ND		5.13	ug/Kg	1
4-Methyl-2-pentanone	ND		12.8	ug/Kg	1
Acetone	ND		51.3	ug/Kg	1
Benzene	ND		5.13	ug/Kg	1
Bromobenzene	ND		5.13	ug/Kg	1
Bromochloromethane	ND		5.13	ug/Kg	1
Bromodichloromethane	ND		5.13	ug/Kg	1
Bromoform	ND		5.13	ug/Kg	1
Bromomethane	ND		5.13	ug/Kg	1
n-Butylbenzene	ND		5.13	ug/Kg	1
Carbon disulfide	ND		5.13	ug/Kg	1
Carbon tetrachloride	ND		5.13	ug/Kg	1
Chlorobenzene	ND		5.13	ug/Kg	1
Chloroethane	ND		5.13	ug/Kg	1
Chloroform	ND		5.13	ug/Kg	1
Chloromethane	ND		5.13	ug/Kg	1
Dibromochloromethane	ND		5.13	ug/Kg	1
Dibromomethane	ND		5.13	ug/Kg	1

## Results of 10-6-6-8

Client Sample ID: **10-6-6-8**  
 Client Project ID: **3948-Guilford Co. Parcel 10**  
 Lab Sample ID: 31100609006-A  
 Lab Project ID: 31100609

Collection Date: 03/28/2011 15:20  
 Received Date: 03/30/2011 10:00  
 Matrix: Soil  
 Solids (%): 76

## Results by SW-846 8260B

Parameter	Result	Qual	LOQ/CL	Units	DF
cis-1,3-Dichloropropene	ND		5.13	ug/Kg	1
trans-1,3-Dichloropropene	ND		5.13	ug/Kg	1
Diisopropyl Ether	ND		5.13	ug/Kg	1
Ethyl Benzene	ND		5.13	ug/Kg	1
Hexachlorobutadiene	ND		5.13	ug/Kg	1
Isopropylbenzene (Cumene)	ND		5.13	ug/Kg	1
Methyl iodide	ND		5.13	ug/Kg	1
Methylene chloride	ND		20.5	ug/Kg	1
Naphthalene	ND		5.13	ug/Kg	1
Styrene	ND		5.13	ug/Kg	1
Tetrachloroethene	ND		5.13	ug/Kg	1
Toluene	ND		5.13	ug/Kg	1
Trichloroethene	ND		5.13	ug/Kg	1
Trichlorofluoromethane	ND		5.13	ug/Kg	1
Vinyl chloride	ND		5.13	ug/Kg	1
cis-1,2-Dichloroethene	ND		5.13	ug/Kg	1
m,p-Xylene	ND		10.3	ug/Kg	1
n-Propylbenzene	ND		5.13	ug/Kg	1
o-Xylene	ND		5.13	ug/Kg	1
sec-Butylbenzene	ND		5.13	ug/Kg	1
tert-Butyl methyl ether (MTBE)	ND		5.13	ug/Kg	1
tert-Butylbenzene	ND		5.13	ug/Kg	1
trans-1,2-Dichloroethene	ND		5.13	ug/Kg	1
trans-1,4-Dichloro-2-butene	ND		25.7	ug/Kg	1

## Surrogates

1,2-Dichloroethane-d4	130		55.0-173	%	1
4-Bromofluorobenzene	102		23.0-141	%	1
Toluene d8	101		57.0-134	%	1

## Batch Information

Analytical Batch: **VMS1120**  
 Analytical Method: **SW-846 8260B**  
 Instrument: **MSD4**  
 Analyst: **DVO**  
 Analytical Date/Time: **04/03/2011 14:11**

Prep Batch: **VXX1270**  
 Prep Method: **SW-846 5035 SL**  
 Prep Date/Time: **04/03/2011 00:00**  
 Prep Initial Wt./Vol.: **6.43 g**  
 Prep Extract Vol: **5 mL**

## Results of 10-6-6-8

Client Sample ID: **10-6-6-8**  
 Client Project ID: **3948-Guilford Co. Parcel 10**  
 Lab Sample ID: 31100609006-F  
 Lab Project ID: 31100609

Collection Date: 03/28/2011 15:20  
 Received Date: 03/30/2011 10:00  
 Matrix: Soil  
 Solids (%): 76

## Results by MADEP EPH

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>
C11-C22 Aromatics	ND		18.2	mg/kg	1
C9-C18 Aliphatic Hydrocarbons	ND		6.50	mg/kg	1
C19-C36 Aliphatic Hydrocarbons	ND		8.71	mg/kg	1

### Surrogates

n-Tricosane	84.0		40.0-140	%	1
o-Terphenyl	100		40.0-140	%	1
2-Bromonaphthalene	97.0		40.0-140	%	1
2-Fluorobiphenyl	99.0		40.0-140	%	1

## Batch Information

Analytical Batch: **XGC1127**  
 Analytical Method: **MADEP EPH**  
 Instrument: **GC6**  
 Analyst: **DTF**  
 Analytical Date/Time: **04/06/2011 01:13**

Prep Batch: **XXX1161**  
 Prep Method: **SW-846 3541/8015 EPH**  
 Prep Date/Time: **03/30/2011 15:00**  
 Prep Initial Wt./Vol.: **12.19 g**  
 Prep Extract Vol: **10 mL**



Results of **10-6-6-8**

Client Sample ID: **10-6-6-8**  
 Client Project ID: **3948-Guilford Co. Parcel 10**  
 Lab Sample ID: 31100609006-F  
 Lab Project ID: 31100609

Collection Date: 03/28/2011 15:20  
 Received Date: 03/30/2011 10:00  
 Matrix: Soil  
 Solids (%): 76

Results by **SW-846 8270D**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>
1,2,4-Trichlorobenzene	ND		415	ug/Kg	1
1,2-Dichlorobenzene	ND		415	ug/Kg	1
1,3-Dichlorobenzene	ND		415	ug/Kg	1
1,4-Dichlorobenzene	ND		415	ug/Kg	1
2,4,5-Trichlorophenol	ND		415	ug/Kg	1
2,4,6-Trichlorophenol	ND		415	ug/Kg	1
2,4-Dichlorophenol	ND		415	ug/Kg	1
2,4-Dinitrophenol	ND		829	ug/Kg	1
2,4-Dinitrotoluene	ND		415	ug/Kg	1
2,6-Dinitrotoluene	ND		415	ug/Kg	1
2-Chloronaphthalene	ND		415	ug/Kg	1
2-Chlorophenol	ND		415	ug/Kg	1
2-Methylnaphthalene	ND		415	ug/Kg	1
2-Methylphenol	ND		415	ug/Kg	1
2-Nitroaniline	ND		415	ug/Kg	1
2-Nitrophenol	ND		415	ug/Kg	1
3 and/or 4-Methylphenol	ND		415	ug/Kg	1
3,3'-Dichlorobenzidine	ND		415	ug/Kg	1
3-Nitroaniline	ND		415	ug/Kg	1
4,6-Dinitro-2-methylphenol	ND		415	ug/Kg	1
4-Chloro-3-methylphenol	ND		415	ug/Kg	1
4-Chloroaniline	ND		415	ug/Kg	1
4-Chlorophenyl phenyl ether	ND		415	ug/Kg	1
Acenaphthene	ND		415	ug/Kg	1
Acenaphthylene	ND		415	ug/Kg	1
Anthracene	ND		415	ug/Kg	1
Benzo(a)anthracene	ND		415	ug/Kg	1
Benzo(a)pyrene	ND		415	ug/Kg	1
Benzo(b)fluoranthene	ND		415	ug/Kg	1
Benzo(g,h,i)perylene	ND		415	ug/Kg	1
Benzo(k)fluoranthene	ND		415	ug/Kg	1
Benzoic acid	ND		415	ug/Kg	1
Bis(2-Chloroethoxy)methane	ND		415	ug/Kg	1
Bis(2-Chloroethyl)ether	ND		415	ug/Kg	1
Bis(2-Chloroisopropyl)ether	ND		415	ug/Kg	1
Bis(2-Ethylhexyl)phthalate	ND		415	ug/Kg	1
4-Bromophenyl phenyl ether	ND		415	ug/Kg	1
Butyl benzyl phthalate	ND		415	ug/Kg	1
Chrysene	ND		415	ug/Kg	1
Di-n-butyl phthalate	ND		415	ug/Kg	1
Di-n-octyl phthalate	ND		415	ug/Kg	1
Dibenz(a,h)anthracene	ND		415	ug/Kg	1
Dibenzofuran	ND		415	ug/Kg	1

## Results of 10-6-6-8

Client Sample ID: **10-6-6-8**  
 Client Project ID: **3948-Guilford Co. Parcel 10**  
 Lab Sample ID: 31100609006-F  
 Lab Project ID: 31100609

Collection Date: 03/28/2011 15:20  
 Received Date: 03/30/2011 10:00  
 Matrix: Soil  
 Solids (%): 76

## Results by SW-846 8270D

Parameter	Result	Qual	LOQ/CL	Units	DF
Diethyl phthalate	ND		415	ug/Kg	1
Dimethyl phthalate	ND		415	ug/Kg	1
2,4-Dimethylphenol	ND		415	ug/Kg	1
Diphenylamine	ND		415	ug/Kg	1
Fluoranthene	ND		415	ug/Kg	1
Fluorene	ND		415	ug/Kg	1
Hexachlorobenzene	ND		415	ug/Kg	1
Hexachlorobutadiene	ND		415	ug/Kg	1
Hexachlorocyclopentadiene	ND		415	ug/Kg	1
Hexachloroethane	ND		415	ug/Kg	1
Indeno(1,2,3-cd)pyrene	ND		415	ug/Kg	1
Isophorone	ND		415	ug/Kg	1
Naphthalene	ND		415	ug/Kg	1
4-Nitroaniline	ND		415	ug/Kg	1
Nitrobenzene	ND		415	ug/Kg	1
4-Nitrophenol	ND		415	ug/Kg	1
Pentachlorophenol	ND		415	ug/Kg	1
Phenanthrene	ND		415	ug/Kg	1
Phenol	ND		415	ug/Kg	1
Pyrene	ND		415	ug/Kg	1
n-Nitrosodi-n-propylamine	ND		415	ug/Kg	1
<b>Surrogates</b>					
2,4,6-Tribromophenol	68.0		41.0-129	%	1
2-Fluorobiphenyl	80.0		48.0-123	%	1
2-Fluorophenol	91.0		42.0-123	%	1
Nitrobenzene-d5	89.0		46.0-117	%	1
Phenol-d6	88.0		48.0-125	%	1
Terphenyl-d14	76.0		44.0-140	%	1

## Batch Information

Analytical Batch: **XMS1058**  
 Analytical Method: **SW-846 8270D**  
 Instrument: **MSD10**  
 Analyst: **CMP**  
 Analytical Date/Time: **04/04/2011 01:55**

Prep Batch: **XXX1170**  
 Prep Method: **SW-846 3541**  
 Prep Date/Time: **03/31/2011 16:40**  
 Prep Initial Wt./Vol.: **31.87 g**  
 Prep Extract Vol: **10 mL**

## Results of 10-7-6-8

Client Sample ID: **10-7-6-8**  
 Client Project ID: **3948-Guilford Co. Parcel 10**  
 Lab Sample ID: 31100609007-D  
 Lab Project ID: 31100609

Collection Date: 03/28/2011 15:23  
 Received Date: 03/30/2011 10:00  
 Matrix: Soil  
 Solids (%): 82

## Results by MADEP VPH

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>
C5-C8 Aliphatic	ND		5.63	mg/kg	1
C9-C12 Aliphatic	ND		5.63	mg/kg	1
C9-C10 Aromatic	ND		5.63	mg/kg	1

### Surrogates

FID - 4-Bromofluorobenzene	93.0		70.0-130	%	1
PID - 4-Bromofluorobenzene	95.0		70.0-130	%	1

## Batch Information

Analytical Batch: **VGC1125**  
 Analytical Method: **MADEP VPH**  
 Instrument: **GC4**  
 Analyst: **LMC**  
 Analytical Date/Time: **04/07/2011 06:38**

Prep Batch: **VXX1300**  
 Prep Method: **SW-846 5035 VPH prep**  
 Prep Date/Time: **04/06/2011 10:37**  
 Prep Initial Wt./Vol.: **5.45 g**  
 Prep Extract Vol: **5 mL**

## Results of 10-7-6-8

Client Sample ID: **10-7-6-8**  
 Client Project ID: **3948-Guilford Co. Parcel 10**  
 Lab Sample ID: 31100609007-B  
 Lab Project ID: 31100609

Collection Date: 03/28/2011 15:23  
 Received Date: 03/30/2011 10:00  
 Matrix: Soil  
 Solids (%): 82

## Results by SW-846 8260B

Parameter	Result	Qual	LOQ/CL	Units	DF
1,1,1,2-Tetrachloroethane	ND		5.06	ug/Kg	1
1,1,1-Trichloroethane	ND		5.06	ug/Kg	1
1,1,2,2-Tetrachloroethane	ND		5.06	ug/Kg	1
1,1,2-Trichloroethane	ND		5.06	ug/Kg	1
1,1-Dichloroethane	ND		5.06	ug/Kg	1
1,1-Dichloroethene	ND		5.06	ug/Kg	1
1,1-Dichloropropene	ND		5.06	ug/Kg	1
1,2,3-Trichlorobenzene	ND		5.06	ug/Kg	1
1,2,3-Trichloropropane	ND		5.06	ug/Kg	1
1,2,4-Trichlorobenzene	ND		5.06	ug/Kg	1
1,2,4-Trimethylbenzene	ND		5.06	ug/Kg	1
1,2-Dibromo-3-chloropropane	ND		30.4	ug/Kg	1
1,2-Dibromoethane	ND		5.06	ug/Kg	1
1,2-Dichlorobenzene	ND		5.06	ug/Kg	1
1,2-Dichloroethane	ND		5.06	ug/Kg	1
1,2-Dichloropropane	ND		5.06	ug/Kg	1
1,3,5-Trimethylbenzene	ND		5.06	ug/Kg	1
1,3-Dichlorobenzene	ND		5.06	ug/Kg	1
1,3-Dichloropropane	ND		5.06	ug/Kg	1
1,4-Dichlorobenzene	ND		5.06	ug/Kg	1
2,2-Dichloropropane	ND		5.06	ug/Kg	1
2-Butanone	ND		25.3	ug/Kg	1
2-Chlorotoluene	ND		5.06	ug/Kg	1
2-Hexanone	ND		12.7	ug/Kg	1
4-Chlorotoluene	ND		5.06	ug/Kg	1
4-Isopropyltoluene	ND		5.06	ug/Kg	1
4-Methyl-2-pentanone	ND		12.7	ug/Kg	1
Acetone	ND		50.6	ug/Kg	1
Benzene	ND		5.06	ug/Kg	1
Bromobenzene	ND		5.06	ug/Kg	1
Bromochloromethane	ND		5.06	ug/Kg	1
Bromodichloromethane	ND		5.06	ug/Kg	1
Bromoform	ND		5.06	ug/Kg	1
Bromomethane	ND		5.06	ug/Kg	1
n-Butylbenzene	ND		5.06	ug/Kg	1
Carbon disulfide	ND		5.06	ug/Kg	1
Carbon tetrachloride	ND		5.06	ug/Kg	1
Chlorobenzene	ND		5.06	ug/Kg	1
Chloroethane	ND		5.06	ug/Kg	1
Chloroform	ND		5.06	ug/Kg	1
Chloromethane	ND		5.06	ug/Kg	1
Dibromochloromethane	ND		5.06	ug/Kg	1
Dibromomethane	ND		5.06	ug/Kg	1

## Results of 10-7-6-8

Client Sample ID: **10-7-6-8**  
 Client Project ID: **3948-Guilford Co. Parcel 10**  
 Lab Sample ID: 31100609007-B  
 Lab Project ID: 31100609

Collection Date: 03/28/2011 15:23  
 Received Date: 03/30/2011 10:00  
 Matrix: Soil  
 Solids (%): 82

## Results by SW-846 8260B

Parameter	Result	Qual	LOQ/CL	Units	DF
cis-1,3-Dichloropropene	ND		5.06	ug/Kg	1
trans-1,3-Dichloropropene	ND		5.06	ug/Kg	1
Diisopropyl Ether	ND		5.06	ug/Kg	1
Ethyl Benzene	ND		5.06	ug/Kg	1
Hexachlorobutadiene	ND		5.06	ug/Kg	1
Isopropylbenzene (Cumene)	ND		5.06	ug/Kg	1
Methyl iodide	ND		5.06	ug/Kg	1
Methylene chloride	ND		20.2	ug/Kg	1
Naphthalene	ND		5.06	ug/Kg	1
Styrene	ND		5.06	ug/Kg	1
Tetrachloroethene	ND		5.06	ug/Kg	1
Toluene	ND		5.06	ug/Kg	1
Trichloroethene	ND		5.06	ug/Kg	1
Trichlorofluoromethane	ND		5.06	ug/Kg	1
Vinyl chloride	ND		5.06	ug/Kg	1
cis-1,2-Dichloroethene	ND		5.06	ug/Kg	1
m,p-Xylene	ND		10.1	ug/Kg	1
n-Propylbenzene	ND		5.06	ug/Kg	1
o-Xylene	ND		5.06	ug/Kg	1
sec-Butylbenzene	ND		5.06	ug/Kg	1
tert-Butyl methyl ether (MTBE)	ND		5.06	ug/Kg	1
tert-Butylbenzene	ND		5.06	ug/Kg	1
trans-1,2-Dichloroethene	ND		5.06	ug/Kg	1
trans-1,4-Dichloro-2-butene	ND		25.3	ug/Kg	1

## Surrogates

1,2-Dichloroethane-d4	126		55.0-173	%	1
4-Bromofluorobenzene	101		23.0-141	%	1
Toluene d8	100		57.0-134	%	1

## Batch Information

Analytical Batch: **VMS1120**  
 Analytical Method: **SW-846 8260B**  
 Instrument: **MSD4**  
 Analyst: **DVO**  
 Analytical Date/Time: **04/03/2011 14:38**

Prep Batch: **VXX1270**  
 Prep Method: **SW-846 5035 SL**  
 Prep Date/Time: **04/03/2011 00:00**  
 Prep Initial Wt./Vol.: **6.06 g**  
 Prep Extract Vol: **5 mL**

## Results of 10-7-6-8

Client Sample ID: **10-7-6-8**  
 Client Project ID: **3948-Guilford Co. Parcel 10**  
 Lab Sample ID: 31100609007-F  
 Lab Project ID: 31100609

Collection Date: 03/28/2011 15:23  
 Received Date: 03/30/2011 10:00  
 Matrix: Soil  
 Solids (%): 82

## Results by MADEP EPH

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>
C11-C22 Aromatics	ND		17.2	mg/kg	1
C9-C18 Aliphatic Hydrocarbons	ND		6.14	mg/kg	1
C19-C36 Aliphatic Hydrocarbons	ND		8.23	mg/kg	1

### Surrogates

n-Tricosane	56.0		40.0-140	%	1
o-Terphenyl	79.0		40.0-140	%	1
2-Bromonaphthalene	114		40.0-140	%	1
2-Fluorobiphenyl	115		40.0-140	%	1

## Batch Information

Analytical Batch: **XGC1127**  
 Analytical Method: **MADEP EPH**  
 Instrument: **GC6**  
 Analyst: **DTF**  
 Analytical Date/Time: **04/06/2011 02:10**

Prep Batch: **XXX1161**  
 Prep Method: **SW-846 3541/8015 EPH**  
 Prep Date/Time: **03/30/2011 15:00**  
 Prep Initial Wt./Vol.: **11.99 g**  
 Prep Extract Vol: **10 mL**

## Results of 10-7-6-8

Client Sample ID: **10-7-6-8**  
 Client Project ID: **3948-Guilford Co. Parcel 10**  
 Lab Sample ID: 31100609007-F  
 Lab Project ID: 31100609

Collection Date: 03/28/2011 15:23  
 Received Date: 03/30/2011 10:00  
 Matrix: Soil  
 Solids (%): 82

## Results by SW-846 8270D

Parameter	Result	Qual	LOQ/CL	Units	DF
1,2,4-Trichlorobenzene	ND		383	ug/Kg	1
1,2-Dichlorobenzene	ND		383	ug/Kg	1
1,3-Dichlorobenzene	ND		383	ug/Kg	1
1,4-Dichlorobenzene	ND		383	ug/Kg	1
2,4,5-Trichlorophenol	ND		383	ug/Kg	1
2,4,6-Trichlorophenol	ND		383	ug/Kg	1
2,4-Dichlorophenol	ND		383	ug/Kg	1
2,4-Dinitrophenol	ND		765	ug/Kg	1
2,4-Dinitrotoluene	ND		383	ug/Kg	1
2,6-Dinitrotoluene	ND		383	ug/Kg	1
2-Chloronaphthalene	ND		383	ug/Kg	1
2-Chlorophenol	ND		383	ug/Kg	1
2-Methylnaphthalene	ND		383	ug/Kg	1
2-Methylphenol	ND		383	ug/Kg	1
2-Nitroaniline	ND		383	ug/Kg	1
2-Nitrophenol	ND		383	ug/Kg	1
3 and/or 4-Methylphenol	ND		383	ug/Kg	1
3,3'-Dichlorobenzidine	ND		383	ug/Kg	1
3-Nitroaniline	ND		383	ug/Kg	1
4,6-Dinitro-2-methylphenol	ND		383	ug/Kg	1
4-Chloro-3-methylphenol	ND		383	ug/Kg	1
4-Chloroaniline	ND		383	ug/Kg	1
4-Chlorophenyl phenyl ether	ND		383	ug/Kg	1
Acenaphthene	ND		383	ug/Kg	1
Acenaphthylene	ND		383	ug/Kg	1
Anthracene	ND		383	ug/Kg	1
Benzo(a)anthracene	ND		383	ug/Kg	1
Benzo(a)pyrene	ND		383	ug/Kg	1
Benzo(b)fluoranthene	ND		383	ug/Kg	1
Benzo(g,h,i)perylene	ND		383	ug/Kg	1
Benzo(k)fluoranthene	ND		383	ug/Kg	1
Benzoic acid	ND		383	ug/Kg	1
Bis(2-Chloroethoxy)methane	ND		383	ug/Kg	1
Bis(2-Chloroethyl)ether	ND		383	ug/Kg	1
Bis(2-Chloroisopropyl)ether	ND		383	ug/Kg	1
Bis(2-Ethylhexyl)phthalate	ND		383	ug/Kg	1
4-Bromophenyl phenyl ether	ND		383	ug/Kg	1
Butyl benzyl phthalate	ND		383	ug/Kg	1
Chrysene	ND		383	ug/Kg	1
Di-n-butyl phthalate	ND		383	ug/Kg	1
Di-n-octyl phthalate	ND		383	ug/Kg	1
Dibenz(a,h)anthracene	ND		383	ug/Kg	1
Dibenzofuran	ND		383	ug/Kg	1

## Results of 10-7-6-8

Client Sample ID: **10-7-6-8**  
 Client Project ID: **3948-Guilford Co. Parcel 10**  
 Lab Sample ID: 31100609007-F  
 Lab Project ID: 31100609

Collection Date: 03/28/2011 15:23  
 Received Date: 03/30/2011 10:00  
 Matrix: Soil  
 Solids (%): 82

## Results by SW-846 8270D

Parameter	Result	Qual	LOQ/CL	Units	DF
Diethyl phthalate	ND		383	ug/Kg	1
Dimethyl phthalate	ND		383	ug/Kg	1
2,4-Dimethylphenol	ND		383	ug/Kg	1
Diphenylamine	ND		383	ug/Kg	1
Fluoranthene	ND		383	ug/Kg	1
Fluorene	ND		383	ug/Kg	1
Hexachlorobenzene	ND		383	ug/Kg	1
Hexachlorobutadiene	ND		383	ug/Kg	1
Hexachlorocyclopentadiene	ND		383	ug/Kg	1
Hexachloroethane	ND		383	ug/Kg	1
Indeno(1,2,3-cd)pyrene	ND		383	ug/Kg	1
Isophorone	ND		383	ug/Kg	1
Naphthalene	ND		383	ug/Kg	1
4-Nitroaniline	ND		383	ug/Kg	1
Nitrobenzene	ND		383	ug/Kg	1
4-Nitrophenol	ND		383	ug/Kg	1
Pentachlorophenol	ND		383	ug/Kg	1
Phenanthrene	ND		383	ug/Kg	1
Phenol	ND		383	ug/Kg	1
Pyrene	ND		383	ug/Kg	1
n-Nitrosodi-n-propylamine	ND		383	ug/Kg	1

## Surrogates

2,4,6-Tribromophenol	78.0		41.0-129	%	1
2-Fluorobiphenyl	85.0		48.0-123	%	1
2-Fluorophenol	95.0		42.0-123	%	1
Nitrobenzene-d5	97.0		46.0-117	%	1
Phenol-d6	92.0		48.0-125	%	1
Terphenyl-d14	82.0		44.0-140	%	1

## Batch Information

Analytical Batch: **XMS1058**  
 Analytical Method: **SW-846 8270D**  
 Instrument: **MSD10**  
 Analyst: **CMP**  
 Analytical Date/Time: **04/04/2011 03:04**

Prep Batch: **XXX1170**  
 Prep Method: **SW-846 3541**  
 Prep Date/Time: **03/31/2011 16:40**  
 Prep Initial Wt./Vol.: **32.09 g**  
 Prep Extract Vol: **10 mL**



## Results of 10-8-6-8

Client Sample ID: **10-8-6-8**  
 Client Project ID: **3948-Guilford Co. Parcel 10**  
 Lab Sample ID: 31100609008-D  
 Lab Project ID: 31100609

Collection Date: 03/28/2011 15:24  
 Received Date: 03/30/2011 10:00  
 Matrix: Soil  
 Solids (%): 72

## Results by MADEP VPH

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>
C5-C8 Aliphatic	ND		5.40	mg/kg	1
C9-C12 Aliphatic	ND		5.40	mg/kg	1
C9-C10 Aromatic	ND		5.40	mg/kg	1

### Surrogates

FID - 4-Bromofluorobenzene	94.0		70.0-130	%	1
PID - 4-Bromofluorobenzene	97.0		70.0-130	%	1

## Batch Information

Analytical Batch: **VGC1125**  
 Analytical Method: **MADEP VPH**  
 Instrument: **GC4**  
 Analyst: **LMC**  
 Analytical Date/Time: **04/07/2011 07:05**

Prep Batch: **VXX1300**  
 Prep Method: **SW-846 5035 VPH prep**  
 Prep Date/Time: **04/06/2011 10:37**  
 Prep Initial Wt./Vol.: **6.47 g**  
 Prep Extract Vol: **5 mL**



Results of 10-8-6-8

Client Sample ID: 10-8-6-8  
Client Project ID: 3948-Guilford Co. Parcel 10  
Lab Sample ID: 31100609008-B  
Lab Project ID: 31100609

Collection Date: 03/28/2011 15:24  
Received Date: 03/30/2011 10:00  
Matrix: Soil  
Solids (%): 72

Results by SW-846 8260B

Parameter	Result	Qual	LOQ/CL	Units	DF
1,1,1,2-Tetrachloroethane	ND		5.62	ug/Kg	1
1,1,1-Trichloroethane	ND		5.62	ug/Kg	1
1,1,2,2-Tetrachloroethane	ND		5.62	ug/Kg	1
1,1,2-Trichloroethane	ND		5.62	ug/Kg	1
1,1-Dichloroethane	ND		5.62	ug/Kg	1
1,1-Dichloroethene	ND		5.62	ug/Kg	1
1,1-Dichloropropene	ND		5.62	ug/Kg	1
1,2,3-Trichlorobenzene	ND		5.62	ug/Kg	1
1,2,3-Trichloropropane	ND		5.62	ug/Kg	1
1,2,4-Trichlorobenzene	ND		5.62	ug/Kg	1
1,2,4-Trimethylbenzene	ND		5.62	ug/Kg	1
1,2-Dibromo-3-chloropropane	ND		33.7	ug/Kg	1
1,2-Dibromoethane	ND		5.62	ug/Kg	1
1,2-Dichlorobenzene	ND		5.62	ug/Kg	1
1,2-Dichloroethane	ND		5.62	ug/Kg	1
1,2-Dichloropropane	ND		5.62	ug/Kg	1
1,3,5-Trimethylbenzene	ND		5.62	ug/Kg	1
1,3-Dichlorobenzene	ND		5.62	ug/Kg	1
1,3-Dichloropropane	ND		5.62	ug/Kg	1
1,4-Dichlorobenzene	ND		5.62	ug/Kg	1
2,2-Dichloropropane	ND		5.62	ug/Kg	1
2-Butanone	ND		28.1	ug/Kg	1
2-Chlorotoluene	ND		5.62	ug/Kg	1
2-Hexanone	ND		14.1	ug/Kg	1
4-Chlorotoluene	ND		5.62	ug/Kg	1
4-Isopropyltoluene	ND		5.62	ug/Kg	1
4-Methyl-2-pentanone	ND		14.1	ug/Kg	1
Acetone	ND		56.2	ug/Kg	1
Benzene	ND		5.62	ug/Kg	1
Bromobenzene	ND		5.62	ug/Kg	1
Bromochloromethane	ND		5.62	ug/Kg	1
Bromodichloromethane	ND		5.62	ug/Kg	1
Bromoform	ND		5.62	ug/Kg	1
Bromomethane	ND		5.62	ug/Kg	1
n-Butylbenzene	ND		5.62	ug/Kg	1
Carbon disulfide	ND		5.62	ug/Kg	1
Carbon tetrachloride	ND		5.62	ug/Kg	1
Chlorobenzene	ND		5.62	ug/Kg	1
Chloroethane	ND		5.62	ug/Kg	1
Chloroform	ND		5.62	ug/Kg	1
Chloromethane	ND		5.62	ug/Kg	1
Dibromochloromethane	ND		5.62	ug/Kg	1
Dibromomethane	ND		5.62	ug/Kg	1

Print Date: 04/15/2011

N.C. Certification # 481

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## Results of 10-8-6-8

Client Sample ID: **10-8-6-8**  
 Client Project ID: **3948-Guilford Co. Parcel 10**  
 Lab Sample ID: 31100609008-B  
 Lab Project ID: 31100609

Collection Date: 03/28/2011 15:24  
 Received Date: 03/30/2011 10:00  
 Matrix: Soil  
 Solids (%): 72

## Results by SW-846 8260B

Parameter	Result	Qual	LOQ/CL	Units	DF
cis-1,3-Dichloropropene	ND		5.62	ug/Kg	1
trans-1,3-Dichloropropene	ND		5.62	ug/Kg	1
Diisopropyl Ether	ND		5.62	ug/Kg	1
Ethyl Benzene	ND		5.62	ug/Kg	1
Hexachlorobutadiene	ND		5.62	ug/Kg	1
Isopropylbenzene (Cumene)	ND		5.62	ug/Kg	1
Methyl iodide	ND		5.62	ug/Kg	1
Methylene chloride	ND		22.5	ug/Kg	1
Naphthalene	ND		5.62	ug/Kg	1
Styrene	ND		5.62	ug/Kg	1
Tetrachloroethene	ND		5.62	ug/Kg	1
Toluene	ND		5.62	ug/Kg	1
Trichloroethene	ND		5.62	ug/Kg	1
Trichlorofluoromethane	ND		5.62	ug/Kg	1
Vinyl chloride	ND		5.62	ug/Kg	1
cis-1,2-Dichloroethene	ND		5.62	ug/Kg	1
m,p-Xylene	ND		11.2	ug/Kg	1
n-Propylbenzene	ND		5.62	ug/Kg	1
o-Xylene	ND		5.62	ug/Kg	1
sec-Butylbenzene	ND		5.62	ug/Kg	1
tert-Butyl methyl ether (MTBE)	ND		5.62	ug/Kg	1
tert-Butylbenzene	ND		5.62	ug/Kg	1
trans-1,2-Dichloroethene	ND		5.62	ug/Kg	1
trans-1,4-Dichloro-2-butene	ND		28.1	ug/Kg	1

## Surrogates

1,2-Dichloroethane-d4	123		55.0-173	%	1
4-Bromofluorobenzene	103		23.0-141	%	1
Toluene d8	101		57.0-134	%	1

## Batch Information

Analytical Batch: **VMS1120**  
 Analytical Method: **SW-846 8260B**  
 Instrument: **MSD4**  
 Analyst: **DVO**  
 Analytical Date/Time: **04/03/2011 15:04**

Prep Batch: **VXX1270**  
 Prep Method: **SW-846 5035 SL**  
 Prep Date/Time: **04/03/2011 00:00**  
 Prep Initial Wt./Vol.: **6.22 g**  
 Prep Extract Vol: **5 mL**

## Results of 10-8-6-8

Client Sample ID: **10-8-6-8**  
 Client Project ID: **3948-Guilford Co. Parcel 10**  
 Lab Sample ID: 31100609008-F  
 Lab Project ID: 31100609

Collection Date: 03/28/2011 15:24  
 Received Date: 03/30/2011 10:00  
 Matrix: Soil  
 Solids (%): 72

## Results by MADEP EPH

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>
C11-C22 Aromatics	ND		17.0	mg/kg	1
C9-C18 Aliphatic Hydrocarbons	ND		6.06	mg/kg	1
C19-C36 Aliphatic Hydrocarbons	ND		8.12	mg/kg	1

### Surrogates

n-Tricosane	77.0		40.0-140	%	1
o-Terphenyl	108		40.0-140	%	1
2-Bromonaphthalene	117		40.0-140	%	1
2-Fluorobiphenyl	119		40.0-140	%	1

## Batch Information

Analytical Batch: **XGC1127**  
 Analytical Method: **MADEP EPH**  
 Instrument: **GC6**  
 Analyst: **DTF**  
 Analytical Date/Time: **04/06/2011 03:06**

Prep Batch: **XXX1162**  
 Prep Method: **SW-846 3541/8015 EPH**  
 Prep Date/Time: **03/30/2011 15:00**  
 Prep Initial Wt./Vol.: **13.84 g**  
 Prep Extract Vol: **10 mL**

Results of **10-8-6-8**

Client Sample ID: **10-8-6-8**  
 Client Project ID: **3948-Guilford Co. Parcel 10**  
 Lab Sample ID: 31100609008-F  
 Lab Project ID: 31100609

Collection Date: 03/28/2011 15:24  
 Received Date: 03/30/2011 10:00  
 Matrix: Soil  
 Solids (%): 72

Results by **SW-846 8270D**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>
1,2,4-Trichlorobenzene	ND		420	ug/Kg	1
1,2-Dichlorobenzene	ND		420	ug/Kg	1
1,3-Dichlorobenzene	ND		420	ug/Kg	1
1,4-Dichlorobenzene	ND		420	ug/Kg	1
2,4,5-Trichlorophenol	ND		420	ug/Kg	1
2,4,6-Trichlorophenol	ND		420	ug/Kg	1
2,4-Dichlorophenol	ND		420	ug/Kg	1
2,4-Dinitrophenol	ND		839	ug/Kg	1
2,4-Dinitrotoluene	ND		420	ug/Kg	1
2,6-Dinitrotoluene	ND		420	ug/Kg	1
2-Chloronaphthalene	ND		420	ug/Kg	1
2-Chlorophenol	ND		420	ug/Kg	1
2-Methylnaphthalene	ND		420	ug/Kg	1
2-Methylphenol	ND		420	ug/Kg	1
2-Nitroaniline	ND		420	ug/Kg	1
2-Nitrophenol	ND		420	ug/Kg	1
3 and/or 4-Methylphenol	ND		420	ug/Kg	1
3,3'-Dichlorobenzidine	ND		420	ug/Kg	1
3-Nitroaniline	ND		420	ug/Kg	1
4,6-Dinitro-2-methylphenol	ND		420	ug/Kg	1
4-Chloro-3-methylphenol	ND		420	ug/Kg	1
4-Chloroaniline	ND		420	ug/Kg	1
4-Chlorophenyl phenyl ether	ND		420	ug/Kg	1
Acenaphthene	ND		420	ug/Kg	1
Acenaphthylene	ND		420	ug/Kg	1
Anthracene	ND		420	ug/Kg	1
Benzo(a)anthracene	ND		420	ug/Kg	1
Benzo(a)pyrene	ND		420	ug/Kg	1
Benzo(b)fluoranthene	ND		420	ug/Kg	1
Benzo(g,h,i)perylene	ND		420	ug/Kg	1
Benzo(k)fluoranthene	ND		420	ug/Kg	1
Benzoic acid	ND		420	ug/Kg	1
Bis(2-Chloroethoxy)methane	ND		420	ug/Kg	1
Bis(2-Chloroethyl)ether	ND		420	ug/Kg	1
Bis(2-Chloroisopropyl)ether	ND		420	ug/Kg	1
Bis(2-Ethylhexyl)phthalate	ND		420	ug/Kg	1
4-Bromophenyl phenyl ether	ND		420	ug/Kg	1
Butyl benzyl phthalate	ND		420	ug/Kg	1
Chrysene	ND		420	ug/Kg	1
Di-n-butyl phthalate	ND		420	ug/Kg	1
Di-n-octyl phthalate	ND		420	ug/Kg	1
Dibenz(a,h)anthracene	ND		420	ug/Kg	1
Dibenzofuran	ND		420	ug/Kg	1

## Results of 10-8-6-8

Client Sample ID: **10-8-6-8**  
 Client Project ID: **3948-Guilford Co. Parcel 10**  
 Lab Sample ID: 31100609008-F  
 Lab Project ID: 31100609

Collection Date: 03/28/2011 15:24  
 Received Date: 03/30/2011 10:00  
 Matrix: Soil  
 Solids (%): 72

## Results by SW-846 8270D

Parameter	Result	Qual	LOQ/CL	Units	DF
Diethyl phthalate	ND		420	ug/Kg	1
Dimethyl phthalate	ND		420	ug/Kg	1
2,4-Dimethylphenol	ND		420	ug/Kg	1
Diphenylamine	ND		420	ug/Kg	1
Fluoranthene	ND		420	ug/Kg	1
Fluorene	ND		420	ug/Kg	1
Hexachlorobenzene	ND		420	ug/Kg	1
Hexachlorobutadiene	ND		420	ug/Kg	1
Hexachlorocyclopentadiene	ND		420	ug/Kg	1
Hexachloroethane	ND		420	ug/Kg	1
Indeno(1,2,3-cd)pyrene	ND		420	ug/Kg	1
Isophorone	ND		420	ug/Kg	1
Naphthalene	ND		420	ug/Kg	1
4-Nitroaniline	ND		420	ug/Kg	1
Nitrobenzene	ND		420	ug/Kg	1
4-Nitrophenol	ND		420	ug/Kg	1
Pentachlorophenol	ND		420	ug/Kg	1
Phenanthrene	ND		420	ug/Kg	1
Phenol	ND		420	ug/Kg	1
Pyrene	ND		420	ug/Kg	1
n-Nitrosodi-n-propylamine	ND		420	ug/Kg	1
<b>Surrogates</b>					
2,4,6-Tribromophenol	63.0		41.0-129	%	1
2-Fluorobiphenyl	83.0		48.0-123	%	1
2-Fluorophenol	89.0		42.0-123	%	1
Nitrobenzene-d5	90.0		46.0-117	%	1
Phenol-d6	88.0		48.0-125	%	1
Terphenyl-d14	81.0		44.0-140	%	1

## Batch Information

Analytical Batch: **XMS1060**  
 Analytical Method: **SW-846 8270D**  
 Instrument: **MSD6**  
 Analyst: **CMP**  
 Analytical Date/Time: **04/04/2011 21:17**

Prep Batch: **XXX1179**  
 Prep Method: **SW-846 3541**  
 Prep Date/Time: **04/04/2011 11:50**  
 Prep Initial Wt./Vol.: **33.32 g**  
 Prep Extract Vol: **10 mL**

## Results of 10-9-6-8

Client Sample ID: **10-9-6-8**  
 Client Project ID: **3948-Guilford Co. Parcel 10**  
 Lab Sample ID: 31100609009-D  
 Lab Project ID: 31100609

Collection Date: 03/28/2011 15:30  
 Received Date: 03/30/2011 10:00  
 Matrix: Soil  
 Solids (%): 69

## Results by MADEP VPH

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>
C5-C8 Aliphatic	ND		5.64	mg/kg	1
C9-C12 Aliphatic	ND		5.64	mg/kg	1
C9-C10 Aromatic	ND		5.64	mg/kg	1

### Surrogates

FID - 4-Bromofluorobenzene	93.0		70.0-130	%	1
PID - 4-Bromofluorobenzene	94.0		70.0-130	%	1

## Batch Information

Analytical Batch: **VGC1125**  
 Analytical Method: **MADEP VPH**  
 Instrument: **GC4**  
 Analyst: **LMC**  
 Analytical Date/Time: **04/07/2011 07:32**

Prep Batch: **VXX1300**  
 Prep Method: **SW-846 5035 VPH prep**  
 Prep Date/Time: **04/06/2011 10:37**  
 Prep Initial Wt./Vol.: **6.42 g**  
 Prep Extract Vol: **5 mL**



Results of 10-9-6-8

Client Sample ID: 10-9-6-8  
Client Project ID: 3948-Guilford Co. Parcel 10  
Lab Sample ID: 31100609009-A  
Lab Project ID: 31100609

Collection Date: 03/28/2011 15:30  
Received Date: 03/30/2011 10:00  
Matrix: Soil  
Solids (%): 69

Results by SW-846 8260B

Parameter	Result	Qual	LOQ/CL	Units	DF
1,1,1,2-Tetrachloroethane	ND		5.84	ug/Kg	1
1,1,1-Trichloroethane	ND		5.84	ug/Kg	1
1,1,2,2-Tetrachloroethane	ND		5.84	ug/Kg	1
1,1,2-Trichloroethane	ND		5.84	ug/Kg	1
1,1-Dichloroethane	ND		5.84	ug/Kg	1
1,1-Dichloroethene	ND		5.84	ug/Kg	1
1,1-Dichloropropene	ND		5.84	ug/Kg	1
1,2,3-Trichlorobenzene	ND		5.84	ug/Kg	1
1,2,3-Trichloropropane	ND		5.84	ug/Kg	1
1,2,4-Trichlorobenzene	ND		5.84	ug/Kg	1
1,2,4-Trimethylbenzene	ND		5.84	ug/Kg	1
1,2-Dibromo-3-chloropropane	ND		35.0	ug/Kg	1
1,2-Dibromoethane	ND		5.84	ug/Kg	1
1,2-Dichlorobenzene	ND		5.84	ug/Kg	1
1,2-Dichloroethane	ND		5.84	ug/Kg	1
1,2-Dichloropropane	ND		5.84	ug/Kg	1
1,3,5-Trimethylbenzene	ND		5.84	ug/Kg	1
1,3-Dichlorobenzene	ND		5.84	ug/Kg	1
1,3-Dichloropropane	ND		5.84	ug/Kg	1
1,4-Dichlorobenzene	ND		5.84	ug/Kg	1
2,2-Dichloropropane	ND		5.84	ug/Kg	1
2-Butanone	ND		29.2	ug/Kg	1
2-Chlorotoluene	ND		5.84	ug/Kg	1
2-Hexanone	ND		14.6	ug/Kg	1
4-Chlorotoluene	ND		5.84	ug/Kg	1
4-Isopropyltoluene	ND		5.84	ug/Kg	1
4-Methyl-2-pentanone	ND		14.6	ug/Kg	1
Acetone	ND		58.4	ug/Kg	1
Benzene	ND		5.84	ug/Kg	1
Bromobenzene	ND		5.84	ug/Kg	1
Bromochloromethane	ND		5.84	ug/Kg	1
Bromodichloromethane	ND		5.84	ug/Kg	1
Bromoform	ND		5.84	ug/Kg	1
Bromomethane	ND		5.84	ug/Kg	1
n-Butylbenzene	ND		5.84	ug/Kg	1
Carbon disulfide	ND		5.84	ug/Kg	1
Carbon tetrachloride	ND		5.84	ug/Kg	1
Chlorobenzene	ND		5.84	ug/Kg	1
Chloroethane	ND		5.84	ug/Kg	1
Chloroform	ND		5.84	ug/Kg	1
Chloromethane	ND		5.84	ug/Kg	1
Dibromochloromethane	ND		5.84	ug/Kg	1
Dibromomethane	ND		5.84	ug/Kg	1

Print Date: 04/15/2011

N.C. Certification # 481

SGS North America Inc.

5500 Business Drive, Wilmington, NC 28405  
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Member of SGS Group





Results of 10-9-6-8

Client Sample ID: 10-9-6-8
Client Project ID: 3948-Guilford Co. Parcel 10
Lab Sample ID: 31100609009-A
Lab Project ID: 31100609

Collection Date: 03/28/2011 15:30
Received Date: 03/30/2011 10:00
Matrix: Soil
Solids (%): 69

Results by SW-846 8260B

Table with 6 columns: Parameter, Result, Qual, LOQ/CL, Units, DF. Lists various chemical compounds and their detection results.

Surrogates

Table with 6 columns: Parameter, Result, Qual, LOQ/CL, Units, DF. Lists surrogate compounds like 1,2-Dichloroethane-d4.

Batch Information

Analytical Batch: VMS1120
Analytical Method: SW-846 8260B
Instrument: MSD4
Analyst: DVO
Analytical Date/Time: 04/03/2011 15:31

Prep Batch: VXX1270
Prep Method: SW-846 5035 SL
Prep Date/Time: 04/03/2011 00:00
Prep Initial Wt./Vol.: 6.2 g
Prep Extract Vol: 5 mL

## Results of 10-9-6-8

Client Sample ID: **10-9-6-8**  
 Client Project ID: **3948-Guilford Co. Parcel 10**  
 Lab Sample ID: 31100609009-F  
 Lab Project ID: 31100609

Collection Date: 03/28/2011 15:30  
 Received Date: 03/30/2011 10:00  
 Matrix: Soil  
 Solids (%): 69

## Results by MADEP EPH

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>
C11-C22 Aromatics	ND		20.7	mg/kg	1
C9-C18 Aliphatic Hydrocarbons	ND		7.40	mg/kg	1
C19-C36 Aliphatic Hydrocarbons	ND		9.91	mg/kg	1

### Surrogates

n-Tricosane	75.0		40.0-140	%	1
o-Terphenyl	85.0		40.0-140	%	1
2-Bromonaphthalene	101		40.0-140	%	1
2-Fluorobiphenyl	102		40.0-140	%	1

## Batch Information

Analytical Batch: **XGC1127**  
 Analytical Method: **MADEP EPH**  
 Instrument: **GC6**  
 Analyst: **DTF**  
 Analytical Date/Time: **04/06/2011 04:02**

Prep Batch: **XXX1162**  
 Prep Method: **SW-846 3541/8015 EPH**  
 Prep Date/Time: **03/30/2011 15:00**  
 Prep Initial Wt./Vol.: **11.74 g**  
 Prep Extract Vol: **10 mL**

Results of **10-9-6-8**

Client Sample ID: **10-9-6-8**  
 Client Project ID: **3948-Guilford Co. Parcel 10**  
 Lab Sample ID: 31100609009-F  
 Lab Project ID: 31100609

Collection Date: 03/28/2011 15:30  
 Received Date: 03/30/2011 10:00  
 Matrix: Soil  
 Solids (%): 69

Results by **SW-846 8270D**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>
1,2,4-Trichlorobenzene	ND		449	ug/Kg	1
1,2-Dichlorobenzene	ND		449	ug/Kg	1
1,3-Dichlorobenzene	ND		449	ug/Kg	1
1,4-Dichlorobenzene	ND		449	ug/Kg	1
2,4,5-Trichlorophenol	ND		449	ug/Kg	1
2,4,6-Trichlorophenol	ND		449	ug/Kg	1
2,4-Dichlorophenol	ND		449	ug/Kg	1
2,4-Dinitrophenol	ND		896	ug/Kg	1
2,4-Dinitrotoluene	ND		449	ug/Kg	1
2,6-Dinitrotoluene	ND		449	ug/Kg	1
2-Chloronaphthalene	ND		449	ug/Kg	1
2-Chlorophenol	ND		449	ug/Kg	1
2-Methylnaphthalene	ND		449	ug/Kg	1
2-Methylphenol	ND		449	ug/Kg	1
2-Nitroaniline	ND		449	ug/Kg	1
2-Nitrophenol	ND		449	ug/Kg	1
3 and/or 4-Methylphenol	ND		449	ug/Kg	1
3,3'-Dichlorobenzidine	ND		449	ug/Kg	1
3-Nitroaniline	ND		449	ug/Kg	1
4,6-Dinitro-2-methylphenol	ND		449	ug/Kg	1
4-Chloro-3-methylphenol	ND		449	ug/Kg	1
4-Chloroaniline	ND		449	ug/Kg	1
4-Chlorophenyl phenyl ether	ND		449	ug/Kg	1
Acenaphthene	ND		449	ug/Kg	1
Acenaphthylene	ND		449	ug/Kg	1
Anthracene	ND		449	ug/Kg	1
Benzo(a)anthracene	ND		449	ug/Kg	1
Benzo(a)pyrene	ND		449	ug/Kg	1
Benzo(b)fluoranthene	ND		449	ug/Kg	1
Benzo(g,h,i)perylene	ND		449	ug/Kg	1
Benzo(k)fluoranthene	ND		449	ug/Kg	1
Benzoic acid	ND		449	ug/Kg	1
Bis(2-Chloroethoxy)methane	ND		449	ug/Kg	1
Bis(2-Chloroethyl)ether	ND		449	ug/Kg	1
Bis(2-Chloroisopropyl)ether	ND		449	ug/Kg	1
Bis(2-Ethylhexyl)phthalate	ND		449	ug/Kg	1
4-Bromophenyl phenyl ether	ND		449	ug/Kg	1
Butyl benzyl phthalate	ND		449	ug/Kg	1
Chrysene	ND		449	ug/Kg	1
Di-n-butyl phthalate	ND		449	ug/Kg	1
Di-n-octyl phthalate	ND		449	ug/Kg	1
Dibenz(a,h)anthracene	ND		449	ug/Kg	1
Dibenzofuran	ND		449	ug/Kg	1

## Results of 10-9-6-8

Client Sample ID: **10-9-6-8**  
 Client Project ID: **3948-Guilford Co. Parcel 10**  
 Lab Sample ID: 31100609009-F  
 Lab Project ID: 31100609

Collection Date: 03/28/2011 15:30  
 Received Date: 03/30/2011 10:00  
 Matrix: Soil  
 Solids (%): 69

## Results by SW-846 8270D

Parameter	Result	Qual	LOQ/CL	Units	DF
Diethyl phthalate	ND		449	ug/Kg	1
Dimethyl phthalate	ND		449	ug/Kg	1
2,4-Dimethylphenol	ND		449	ug/Kg	1
Diphenylamine	ND		449	ug/Kg	1
Fluoranthene	ND		449	ug/Kg	1
Fluorene	ND		449	ug/Kg	1
Hexachlorobenzene	ND		449	ug/Kg	1
Hexachlorobutadiene	ND		449	ug/Kg	1
Hexachlorocyclopentadiene	ND		449	ug/Kg	1
Hexachloroethane	ND		449	ug/Kg	1
Indeno(1,2,3-cd)pyrene	ND		449	ug/Kg	1
Isophorone	ND		449	ug/Kg	1
Naphthalene	ND		449	ug/Kg	1
4-Nitroaniline	ND		449	ug/Kg	1
Nitrobenzene	ND		449	ug/Kg	1
4-Nitrophenol	ND		449	ug/Kg	1
Pentachlorophenol	ND		449	ug/Kg	1
Phenanthrene	ND		449	ug/Kg	1
Phenol	ND		449	ug/Kg	1
Pyrene	ND		449	ug/Kg	1
n-Nitrosodi-n-propylamine	ND		449	ug/Kg	1
<b>Surrogates</b>					
2,4,6-Tribromophenol	57.0		41.0-129	%	1
2-Fluorobiphenyl	76.0		48.0-123	%	1
2-Fluorophenol	89.0		42.0-123	%	1
Nitrobenzene-d5	86.0		46.0-117	%	1
Phenol-d6	86.0		48.0-125	%	1
Terphenyl-d14	75.0		44.0-140	%	1

## Batch Information

Analytical Batch: **XMS1060**  
 Analytical Method: **SW-846 8270D**  
 Instrument: **MSD6**  
 Analyst: **CMP**  
 Analytical Date/Time: **04/04/2011 21:40**

Prep Batch: **XXX1179**  
 Prep Method: **SW-846 3541**  
 Prep Date/Time: **04/04/2011 11:50**  
 Prep Initial Wt./Vol.: **32.3 g**  
 Prep Extract Vol: **10 mL**



# CHAIN OF CUSTODY RECORD SGS North America Inc.

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

www.us.sgs.com

098750

<b>1</b> CLIENT: <u>Solutions-IES</u> CONTACT: <u>Jody Overmyer</u> PHONE NO: <u>(919) 873-1060</u> PROJECT: <u>3948 - Guilford CO</u> SITE/PWSID#: <u>Parcel 10</u> REPORTS TO: <u>1101 Newell Rd</u> <u>Raleigh, NC 27607</u> INVOICE TO: <u>NCDO1</u> <u>wbs 34482.1.1</u>		SGS Reference: <u>31100609</u> PAGE <u>1</u> OF <u>1</u> No CONTAINERS SAMPLE TYPE: <u>G</u> C= COMP G= GRAB Preservatives Used Analysis Required <u>(3)</u> <u>Voc's 2260B</u> <u>Spec 2270D</u> <u>MADRP VPH</u> <u>MADRP EPH</u>	
<b>2</b> QUOTE #: <u>4300163800</u> P.O. NUMBER: <u>4300163800</u> FAX NO.: ( ) DATE: <u>3-28-11</u> TIME: <u>1500</u> MATRIX: <u>Soil</u> <u>1505</u> <u>1570</u> <u>1572</u> <u>1577</u> <u>1520</u> <u>1523</u> <u>1524</u> <u>1530</u>		<b>4</b> Shipping Carrier: _____ Shipping Ticket No: _____ Special Deliverable Requirements: _____ Special Instructions: _____ Samples Received Cold? (Circle) <u>(YES)</u> NO Temperature C: <u>3.2°C</u> Chain of Custody Seal: (Circle) <u>ABSENT</u>	
<b>5</b> Collected/Relinquished By: (1) <u>[Signature]</u> Date: <u>3/29/11</u> Time: <u>1722</u> Received By: <u>[Signature]</u> Relinquished By: (2) _____ Date: _____ Time: _____ Received By: _____ Relinquished By: (3) _____ Date: _____ Time: _____ Received By: _____ Relinquished By: (4) _____ Date: <u>3/30/11</u> Time: <u>10:00</u> Received By: <u>[Signature]</u>		Requested Turnaround Time: _____ <input type="checkbox"/> RUSH _____ Date Needed _____ <input checked="" type="checkbox"/> STD _____	

# SGS North America Inc.

## Sample Receipt Checklist (SRC)

Client: Solutions IEC Work Order No.: 31100609

- |   |   |
|---|---|
| 1. <input type="checkbox"/> Shipped<br><input checked="" type="checkbox"/> Hand Delivered   | Notes: _____<br>_____<br>_____                  |
| 2. <input checked="" type="checkbox"/> COC Present on Receipt<br><input type="checkbox"/> No COC<br><input type="checkbox"/> Additional Transmittal Forms   | _____<br>_____<br>_____                         |
| 3. <input type="checkbox"/> Custody Tape on Container<br><input checked="" type="checkbox"/> No Custody Tape  | _____<br>_____                                  |
| 4. <input checked="" type="checkbox"/> Samples Intact<br><input type="checkbox"/> Samples Broken / Leaking  | _____<br>_____                                  |
| 5. <input checked="" type="checkbox"/> Chilled on Receipt    Actual Temp.(s) in °C: <u>3.2</u><br><input type="checkbox"/> Ambient on Receipt<br><input type="checkbox"/> Walk-in on Ice; Coming down to temp.<br><input type="checkbox"/> Received Outside of Temperature Specifications | _____<br>_____<br>_____<br>_____                |
| 6. <input checked="" type="checkbox"/> Sufficient Sample Submitted<br><input type="checkbox"/> Insufficient Sample Submitted  | _____<br>_____                                  |
| 7. <input type="checkbox"/> Chlorine absent<br><input type="checkbox"/> HNO3 < 2<br><input type="checkbox"/> HCL < 2<br><input type="checkbox"/> Additional Preservatives verified (see notes)  | <u>NA-Soils Only</u><br>_____<br>_____<br>_____ |
| 8. <input checked="" type="checkbox"/> Received Within Holding Time<br><input type="checkbox"/> Not Received Within Holding Time  | _____<br>_____                                  |
| 9. <input checked="" type="checkbox"/> No Discrepancies Noted<br><input type="checkbox"/> Discrepancies Noted   | _____<br>_____                                  |
| 10. <input type="checkbox"/> No Headspace present in VOC vials<br><input type="checkbox"/> Headspace present in VOC vials >6mm  | _____<br>_____                                  |

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Inspected and Logged in by: TP  
Date: Wed-3/30/11 00:00