

**PRELIMINARY SITE ASSESSMENT
FOR
PARCEL #59A
D&G PROPERTIES OF WILMINGTON, LLC
BRUNSWICK COUNTY, NORTH CAROLINA**

**STATE PROJECT: R-2633B
WBS ELEMENT: 34491.1.2
US 17 – WILMINGTON BYPASS**

PREPARED FOR:

**NCDOT GEOTECHNICAL ENGINEERING UNIT-GEOENVIRONMENTAL SECTION
1589 MSC
RALEIGH, NORTH CAROLINA 27699-1589**

JUNE 30, 2010

PREPARED BY:

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CATLIN PROJECT NO. 210050

CORPORATE GEOLOGY LICENSE CERTIFICATION NO. C-118

CORPORATE LICENSURE NO. FOR ENGINEERING SERVICES C-0585

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June 30, 2010

1.0 INTRODUCTION

1.1 PURPOSE OF INVESTIGATION AND DESCRIPTION

CATLIN Engineers and Scientists (CATLIN) were retained by the North Carolina Department of Transportation (NCDOT) Geotechnical Engineering Unit to provide a field investigation concluding with a Preliminary Site Assessment (PSA) for the above referenced property. In response to a Request for Technical and Cost Proposal (RFP) dated April 1, 2010, and subsequent site reconnaissance and discussions with NCDOT GeoEnvironmental Project Manager Mr. Terry Fox, LG, CATLIN submitted a proposal for conducting an investigation at the above referenced parcel near Navassa, North Carolina. Figure 1 illustrates the general location and the Site Map is illustrated on Figure 2.

According to the RFP:

A proposed drainage ditch will cut through the southern part of this former meat packing plant located on this parcel. Although borings will be focused in this area, the investigation should also cover the east, west and northern side of this structure which is outside of the right of way. The types of contaminants that would have been used at this early 1900's operation are unknown, as is any record of illegal dumping.

The work scope as requested includes:

- Locate all underground storage tanks (USTs) and determine approximate size and contents (if any).
- Determine if contaminated soils are present.
- If contamination is evident, estimate the quantity of impacted soils and indicate the approximate area of soil contamination on a site map.

- Prepare a report including field activities, findings, and recommendations and submit in triplicate.

In addition to the RFP, NCDOT provided plan sheets associated with the roadway construction. CATLIN and NCDOT agreed to proposed boring and sample locations within the right-of-way and/or easement for soil sample collection and laboratory analysis for semi-volatile organics, volatile organics, and metals. Schnabel Engineering (Schnabel) was contracted directly by NCDOT and conducted a geophysical survey to determine the presence or absence of underground anomalies indicative of USTs. Subsequent to site reconnaissance and further scope clarification, it was determined that a grab groundwater sample would be collected from the proposed drainage feature area. CATLIN coordinated geophysical activities and conducted sampling after the geophysical survey. CATLIN's field activities concluded on May 25, 2010. This report documents our activities and findings.

1.2 BACKGROUND INFORMATION

The site contains a former meat packing plant. Brief historical research indicated the former plant has been abandoned since the 1930's. The property is located on the north side of Royster Road between Navassa Road and the Cape Fear River. The site is approximately 1.99 acres and is bordered to the north, south and east by a 899 acre hunting tract and property owned by Brunswick County to the west.

Potential contamination is unknown and according to the NCDENR UST Section Registry, there are no known facilities or groundwater incidents associated with the property. Reportedly a Brownfields Application has been submitted for this property and the property owners are working with a consultant on this site regarding a wetlands mitigation project.

During site reconnaissance at least seven (7) poly-vinyl chloride (PVC) monitoring wells were discovered on site. The property owner's representative did not have knowledge of groundwater sampling of these wells.

2.0 METHODS

Proposed borings were indicated on the NCDOT provided plan sheets and sent to NCDOT before finalizing the scope of work and cost estimate. During site reconnaissance, the approximate proposed/planned drainage feature was identified by GPS coordinate locations in the field.

Per NCDOT request, one (1) boring was advanced every 100 feet along the proposed drainage feature (a total of four borings, DPT-07 through DPT-10, along the drainage feature) for soil sample collection and laboratory analysis.

Three (3) soil borings were also advanced around the former meat packing plant (DPT-03, DPT-04, and DPT-06) and three (3) at possible meat packing plant operations areas (DPT-01, DPT-02, and DPT-05). A grab groundwater sample was also collected from the DPT-09 boring along the drainage feature and south of the former meat packing plant. A total of 10 borings were advanced and one soil sample from each boring was collected for laboratory analysis.

For regulatory purposes, soil sample results are compared to the North Carolina Inactive Hazardous Sites Branch (NC IHSB) Preliminary Health Based Preliminary Soil Remediation Goal (PSRG) and Protection of Groundwater Soil Remediation Goal (SRG) and / or the North Carolina Department of Environment and Natural Resources (NCDENR) Soil-to-Groundwater Maximum Contaminant Concentrations (MSCCs). Soils revealing concentrations above the MSCCs, PSRGs, or SRGs are considered impacted. For impacted soil volume estimating purposes, impacted soils are assumed to extend laterally (within the right-of-way and/or easement, and/or drainage feature only) half the distance to the closest "clean" sample location where possible.

Groundwater sample results are compared to the North Carolina Administrative Title 15A Subchapter 2L Groundwater Quality Standards (2L GWQS). Groundwater sample concentrations above the 2L GWQS are considered impacted.

2.1 FIELD METHODS

All field work was conducted in general accordance with state and federal guidelines and industry standards. A geophysical investigation was conducted by Schnabel. Schnabel's geophysical efforts were limited to areas surrounding the old building due to dense vegetation across the site. A copy of the geophysical report is provided in Appendix A.

Boring coordinates were collected utilizing a Trimble® Global Positioning System (GPS) unit. A North Carolina certified well driller advanced and properly abandoned all borings. CATLIN personnel gathered subsurface soil data at the site by Direct Push Technology (DPT) boring advancement using an AMS PowerProbe™ 9600D (PowerProbe). The borings were advanced to depth by static force and a 90-pound hydraulic percussion hammer. Two and one-quarter inch diameter by four-foot length steel is used as casing. Soil samples were continuously collected in four-foot long and one and one-half inch diameter clear liners. Liners are removed from the casing and then cut in half longitudinally to allow for visual/manual classification utilizing the Unified Soil Classification System (USCS). Soil samples were collected continuously from near the surface to boring termination. Soils were removed from the liners in two-

foot intervals and placed in sealable polyethylene bags for organic vapor analysis (OVA) headspace screening. The USCS and OVA information was recorded on field logs and has been transferred to the Boring Logs provided in Appendix B.

Soil samples were collected for laboratory analysis above the water table from the two-foot interval revealing the highest OVA reading. New disposable nitrile gloves were worn during sampling activities. All samples were placed into laboratory provided glassware and packed on ice in an insulated cooler for transportation to the laboratory. Sample integrity was maintained by following proper Chain of Custody procedures. A copy of the Chain of Custody is provided following the analytical report in Appendix C.

Following removal of the PowerProbe tooling at DPT-09, new polyethylene tubing was placed in the borehole and groundwater was pumped directly into the appropriate laboratory provided glassware utilizing a peristaltic pump.

Boreholes were abandoned to just below the surface using three-eighth inch bentonite chips. Bentonite and water were poured into the borehole simultaneously to facilitate hydration. Final borehole and sample locations were surveyed utilizing a Trimble® GPS survey instrument. Borehole locations and site features are illustrated on Figure 2.

2.2 LABORATORY TESTING

Following boring advancement, selected soils were placed in the appropriately labeled glassware. In an attempt to provide information regarding potential impact to soils with reasonable analytical expense, soil samples were analyzed for volatile and semi-volatile organics per Environmental Protection Agency (EPA) Methods 8260 and 8270, respectively. Soils were also analyzed for the presence of metals per EPA Methods 6010C and 7471. One (1) groundwater sample (DPT-09) was submitted for volatile organics analysis per EPA Method 8260 and semi-volatile analysis per EPA Method 8270.

A total of 10 soil samples and one (1) groundwater sample were submitted to SGS North America Inc. (NC Certification # 481). Chain of Custody documentation is included in Appendix C.

3.0 RESULTS

Results of Schnabel's geophysical investigation were submitted directly to NCDOT and a copy is provided in Appendix A. Schnabel's investigation did not reveal geophysical anomalies at the site indicative of underground storage tanks (USTs).

Sandy clay / clayey sand soils with varying amounts of silt were encountered across the project site. No petroleum odors were noted in the borings. The DPT-01 boring was terminated in damp soils at 16 feet below land surface (BLS). The DPT-02 through DPT-06 borings were terminated in damp soils at approximately eight (8) feet BLS. Borings DPT-07, DPT-08, and DPT-10 were terminated at four (4) feet BLS and moist to wet soils were encountered at two (2) to four (4) feet BLS. The DPT-09 was advanced into wet soils encountered approximately eight (8) feet deep and terminated at 10 feet BLS. Complete boring logs are provided in Appendix A.

Summarized soil sample analytical results are provided on Tables 1 and 2. Summarized groundwater sample analytical results are provided on Table 3. Boring logs including USCS information and OVA screening results are provided in Appendix B. Sample locations and estimated extent of impacted soils are illustrated on Figure 2. The complete analytical report is provided in Appendix C.

Results of OVA headspace screening ranged from zero to five (5) parts per million (see Boring Logs). No detectable concentrations of EPA Method 8270 compounds were revealed in any of the soil samples. Minor concentrations of numerous EPA Method 8260 compounds were detected but none were above the lowest corresponding standards (NCDENR MSCCs or NC IHSB SRGs and PRGs).

No metals were detected per EPA Methods 6010C and 7471 above the established standards except Arsenic concentrations in the samples collected from borings DPT-06, DPT-07, and DPT-09. The Arsenic results in these samples were just above the NC IHSB PSRG of 4.4 milligrams per kilogram (mg/Kg) but below the NC IHSB SRG of 5.4 mg/Kg and ranged from 4.62 in the DPT-06 (4-6') sample to 4.72 mg/Kg in the DPT-07 (2-4') sample.

There is no established NC IHSB SRG for Chromium and Mercury. These two (2) metals were detected in all soil samples but at concentrations well below the corresponding NC IHSB PSRG. For reference purposes, the Chromium and Mercury results were also well below the EPA Protection of Groundwater Maximum Contaminant Level Site Screening Levels of 180,000 mg/Kg and 0.1 mg/Kg, respectively.

The DPT-09 groundwater sample results did not reveal any EPA Method 8260 or 8270 compound concentrations above the laboratory quantitation limits or 2L GWQS. Minor, estimated concentrations below the quantitation limits but above the method detection limit for 4-Isopropyltoluene, Methylene Chloride, and Toluene were detected.

4.0 SUMMARY AND DISCUSSION

A preliminary site assessment was conducted at the subject site as requested by NCDOT. Planned construction features included a drainage feature across the site. A geophysical investigation did not reveal subsurface anomalies indicative of underground storage tanks.

Ten soil borings were advanced across the site for soil sample collection and laboratory analysis. One grab groundwater sample was collected from the DPT-09 boring in the proposed drainage feature area.

Sandy / clayey soils with varying silts were encountered during boring advancement. No analyzed compounds were detected above the established MSCCs or SRGs except Arsenic concentrations above the NC IHSB PSRG in the samples collected from borings DPT-06, DPT-07, and DPT-09. The potential source of Arsenic is unknown and could be naturally occurring; however, no background samples were collected during this investigation.

A grab groundwater sample collected from the DPT-09 boring did not reveal volatile or semi-volatile organic compound concentrations above the corresponding 2L GWQS. The grab groundwater sample was not analyzed for metals due the potential of false positive results related to turbidity of grab groundwater samples.

Based on the laboratory results indicating Arsenic concentrations in soil along the proposed drainage feature at borings DPT-07 and DPT-09 above the NC IHSB PSRG, soils near DPT-07 and DPT-09 may need to be considered impacted if disturbed during roadway construction activities. Appropriate health and safety measures should be followed to ensure worker safety during any construction activities involving disturbed soils in these areas.

According to the ditch detail on Plan Sheet 24 (Detail AD) provided by NCDOT, the proposed drainage feature is one (1) foot deep and four (4) feet wide at the base with a 3:1 slope. The calculated drainage feature area is seven (7) square feet. Based on assumed impacted soil extending from DPT-07 west to the property line (approximately 15 feet) and east, half way to DPT-08 (approximately 50 feet) approximately 17 cubic yards of arsenic impacted soil may be encountered during excavating for drainage feature construction near DPT-07 and need to be handled as potentially impacted waste. Based on assumed impacted soil extending from DPT-09 west half way to DPT-08

(approximately 50 feet) and east, half way to DPT-10 (approximately 45 feet) approximately 25 cubic yards of arsenic impacted soil may be encountered during excavating for drainage feature construction near DPT-09 and need to be handled as potentially impacted waste.

An estimated total of 42 cubic yards of impacted soil may be encountered during drainage feature construction activities near DPT-07 and DPT-09. During excavation activities, these soils should be handled to ensure worker safety and properly stockpiled for subsequent composite sampling and pending disposal determination. Composite sampling results may indicate soils could be utilized within the property for fill or require treatment/off-site disposal.

Arsenic impacted soils were also detected at the DPT-06 boring that was advanced on the east side of the former meat packing plant and out side the proposed right-of-way and easement. Per NCDOT, additional borings were not installed nearby for delineating purposes. The DPT-06 (4-6') soil sample revealed 4.62 mg/Kg Arsenic, which is just above the NC IHSB PSRG of 4.4 mg/Kg. An impacted volume estimated has not been calculated in this area; however, widespread Arsenic impacted soils are not suspected.

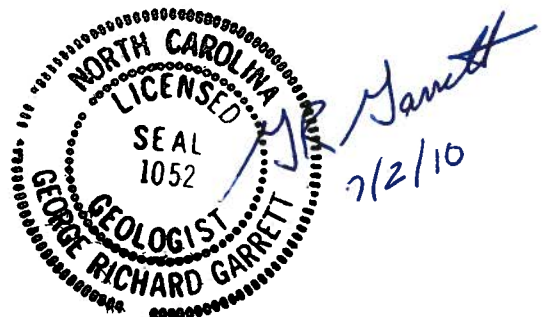
5.0 LIMITATIONS

This report is based on the agreed work scope and a review of available data from limited sampling. It is possible that this investigation may have failed to reveal the presence of contamination in the project area where such contamination may exist. Although CATLIN has used accepted methods appropriate for soil and groundwater sampling, CATLIN cannot guarantee that additional soil and/or groundwater contamination does not exist.

6.0 SIGNATURES



Benjamin J. Ashba
Project Manager



G. Richard Garrett, P.G.
Contract Manager

TABLES

TABLE 1
SUMMARY OF SOIL LABORATORY RESULTS - EPA METHODS 8260 AND 8270

Parcel #59A, D&G Properties of Wilmington, LLC

Sample ID	Contaminant of Concern →		Acetone	Benzene	2-Butanone	Methylene Chloride†	Toluene	Total Xylenes	All other EPA Method 8260 Compounds	All EPA Method 8270 Compounds
	Date Collected	Sample Depth (ft. BLS)								
DPT-01 (14-16')	5/25/2010	14 - 16	<0.00799	<0.00124	<0.00628	0.00625 J	<0.00115	< 0.00334	BMDL	BMDL
DPT-02 (2-4')	5/25/2010	2 - 4	0.127	<0.00108	0.00851 J	0.00477 J	<0.00101	< 0.00292	BMDL	BMDL
DPT-03 (2-4')	5/25/2010	2 - 4	0.214 E	<0.00088	0.0114 J	0.00370 J	<0.00082	< 0.00238	BMDL	BMDL
DPT-04 (6-8')	5/25/2010	6 - 8	0.00794 J	<0.00108	<0.00547	0.00405 J	<0.00101	< 0.00292	BMDL	BMDL
DPT-05 (2-4')	5/25/2010	2 - 4	0.138	0.00157 J	<0.00473	0.00727 J	0.0121	< 0.00303 J	BMDL	BMDL
DPT-06 (4-6')	5/25/2010	4 - 6	0.0218 J	<0.00112	<0.00568	0.00216 J	0.00138 J	< 0.00302	BMDL	BMDL
DPT-07 (2-4')	5/25/2010	2 - 4	0.0319 J	<0.00121	<0.00615	0.00465 J	<0.00113	< 0.00327	BMDL	BMDL
DPT-08 (0-2')	5/25/2010	0 - 2	0.0391 J	<0.00094	<0.00476	0.00457 J	<0.00087	< 0.00253	BMDL	BMDL
DPT-09 (0-2')	5/25/2010	0 - 2	0.0246 J	<0.00091	<0.00461	0.00257 J	<0.00085	< 0.00245	BMDL	BMDL
DPT-10 (0-2')	5/25/2010	0 - 2	0.0493 J	<0.00121	<0.00614	0.00502 J	<0.00113	< 0.00217	BMDL	BMDL
Trip Blank	5/25/2010	Not Applicable	<0.00691	<0.00107	<0.00543	0.00633 J	0.00112 J	< 0.00289	BMDL	BMDL
NCDENR Soil-to-Groundwater MSCC			24	0.0056	16	0.02	4.3	4.6	Varies	Varies
NC IHSB Preliminary Health Based PSRG (1)			12,000	1.1	5,600	11	930	120	Varies	Varies
NC IHSB Protection of Groundwater SRG (2)			2.8	0.0077	17	0.022	9.8	7.1	Varies	Varies

All results in milligrams per kilogram (mg/kg).

† = This compound is a common laboratory solvent and its detection may be due to the background concentration found in the trip blank and not be related to soil impacts

BMDL = Below Method Detection Limit

ft. BLS = Feet Below Land Surface

< = Less than method detection limit

J = Estimated concentration, below calibration range and above method detection limit

E = Estimated concentration, exceeds calibration range

NCDENR = North Carolina Department of Environment and Natural Resources

MSCC = Maximum Soil Contaminant Concentration

NC IHSB = North Carolina Inactive Hazardous Sites Branch

(1) = Preliminary Soil Remediation Goal (PSRG) adapted from the April 2009 USEPA Regional Screening Tables.

Cleanup below method detection limits using analytical methods prescribed in the guidelines, is not required.

(2) = Soil Remediation Goal (SRG) developed using a soil leachate model using default values appropriate for North Carolina

TABLE 2
SUMMARY OF SOIL LABORATORY RESULTS - EPA METHODS 6010C AND 7471

Parcel #59A, D&G Properties of Wilmington, LLC

Sample ID	Contaminant of Concern →		Arsenic	Barium	Cadmium	Chromium	Lead	Selenium	Silver	Mercury
	Date Collected	Sample Depth (ft. BLS)								
DPT-01 (14-16')	5/25/2010	14 - 16	3.09	3.07 J	0.429 JB	13.1	0.926 J	<0.642	0.684 JB	< 0.00149
DPT-02 (2-4')	5/25/2010	2 - 4	<0.543	2.80 J	0.244 JB	1.10	0.730 J	<0.520	0.568 JB	0.00493 J
DPT-03 (2-4')	5/25/2010	2 - 4	1.33	15.1	0.329 JB	9.71	5.94	<0.639	0.733 JB	0.0100 J
DPT-04 (6-8')	5/25/2010	6 - 8	1.48	5.64 J	0.307 JB	13.5	4.86	<0.523	0.624 JB	< 0.00112
DPT-05 (2-4')	5/25/2010	2 - 4	<0.613	7.49 J	0.311 JB	2.62	2.14	<0.587	0.654 JB	< 0.00117
DPT-06 (4-6')	5/25/2010	4 - 6	4.62	7.61 J	0.538 JB	16.5	4.38	<0.637	0.749 JB	0.00936 J
DPT-07 (2-4')	5/25/2010	2 - 4	4.72	11.2	0.606 JB	17.9	4.45	1.50 J	0.605 JB	0.0292
DPT-08 (0-2')	5/25/2010	0 - 2	0.809 J	8.40 J	0.329 JB	3.08	4.70	<0.523	0.627 JB	0.0185 J
DPT-09 (0-2')	5/25/2010	0 - 2	4.66	17.0	0.475 JB	12.2	5.19	0.818 J	0.704 JB	0.00663 J
DPT-10 (0-2')	5/25/2010	0 - 2	1.40	15.7	0.486 JB	4.45	12.1	<0.640	0.755 JB	0.00829 J
NC IHSB Preliminary Health Based PSRG (1)			4.4	3,000	14	280	400	78	78	0.86
NC IHSB Protection of Groundwater SRG (2)			5.4	1,600	2.6	NE	270	5.2	3.0	NE

All results in milligrams per kilogram (mg/kg).

BMDL = Below Method Detection Limit

ft. BLS = Feet Below Land Surface

< = Less than method detection limit

J = Estimated concentration, below calibration range and above method detection limit

B = Compound also detected in batch blank

NE = None Established

NC IHSB = North Carolina Inactive Hazardous Sites Branch

Results in bold exceed the lowest standard. Where no standard is established, detectable concentrations are also shown in bold.

(1) = Preliminary Soil Remediation Goal (PSRG) adapted from the April 2009 USEPA Regional Screening Tables. Cleanup below method detection limits using analytical methods prescribed in the guidelines, is not required.

(2) = Soil Remediation Goal (SRG) developed using a soil leachate model using default values appropriate for North Carolina.

**TABLE 3
 SUMMARY OF GROUNDWATER LABORATORY RESULTS -
 EPA METHODS 8260 AND 8270**

Parcel #59A, D&G Properties of Wilmington, LLC

Sample ID	Contaminant of Concern	4-Isopropyltoluene	Methylene Chloride	Toluene	All other EPA Method 8260 Compounds	All EPA Method 8270 Compounds
	Date Collected					
DPT-09	5/25/2010	0.140 J	0.790 J	0.160 J	BMDL	BMDL
GCL (µg/L)		NE	5,000	260,000	Varies	Varies
2L GWQS (µg/L)		NE	5	600	Varies	Varies

All results in micrograms per Liter (µg/L).

J = Estimated concentration, below calibration range and above method detection limit

BMDL = Below Method Detection Limit

NE = None Established

GCL = Gross Contaminant Level

2L GWQS = NCAC T15A:02L Groundwater Quality Standards

FIGURES

DESCRIPTION: PARCEL #59A
D&G PROPERTIES OF
WILMINGTON, LLC.
US-17 WILMINGTON BYPASS

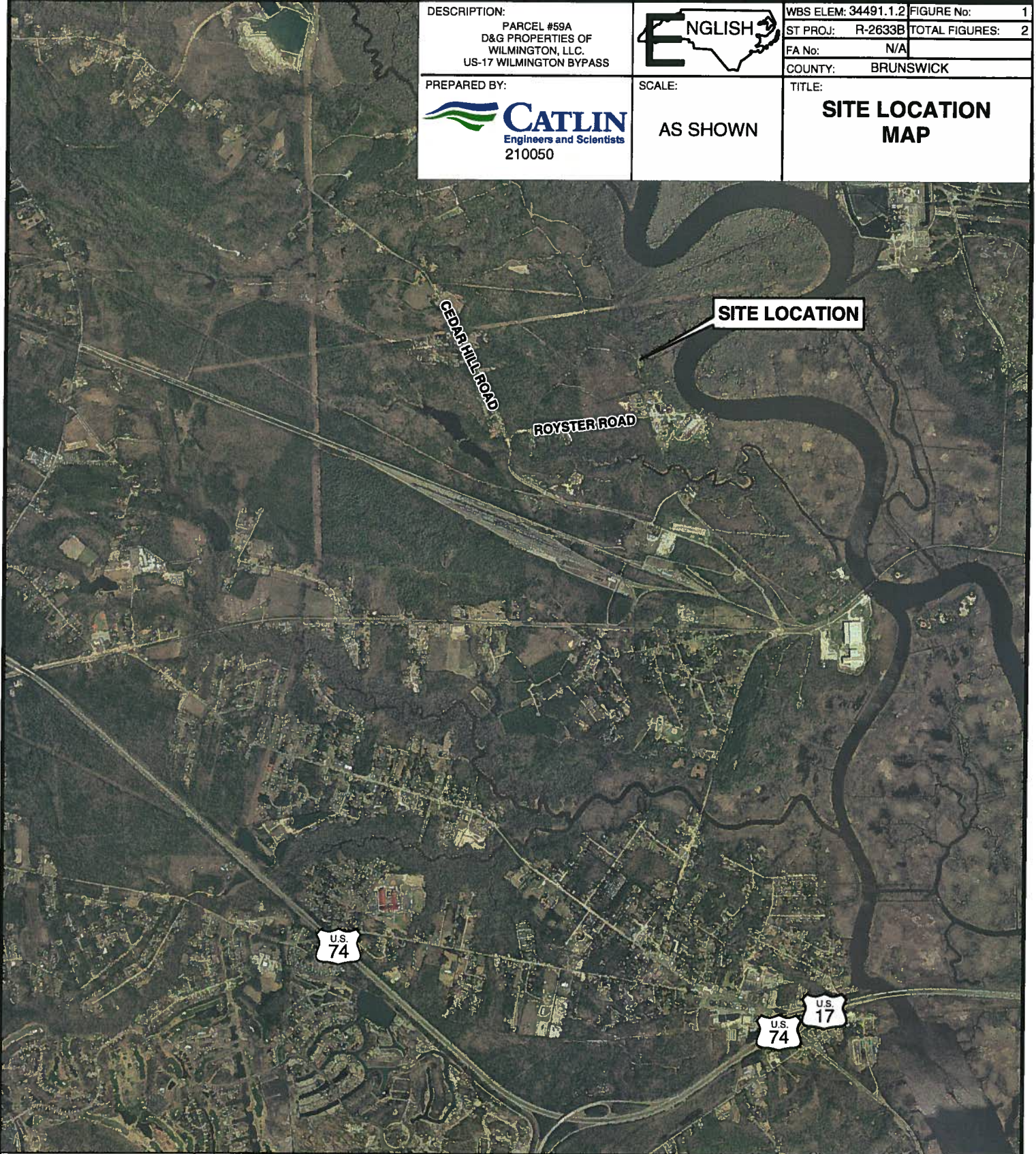


WBS ELEM: 34491.1.2 | FIGURE No: 1
ST PROJ: R-2633B | TOTAL FIGURES: 2
FA No: N/A
COUNTY: BRUNSWICK

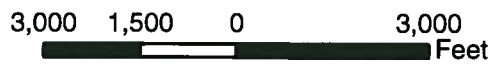
PREPARED BY:
 **CATLIN**
Engineers and Scientists
210050

SCALE:
AS SHOWN

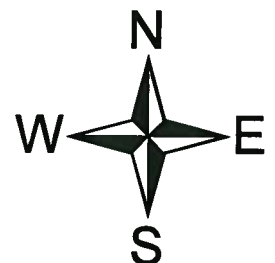
TITLE:
**SITE LOCATION
MAP**



Source: Adapted from Orthophotos from Brunswick County GIS Department.





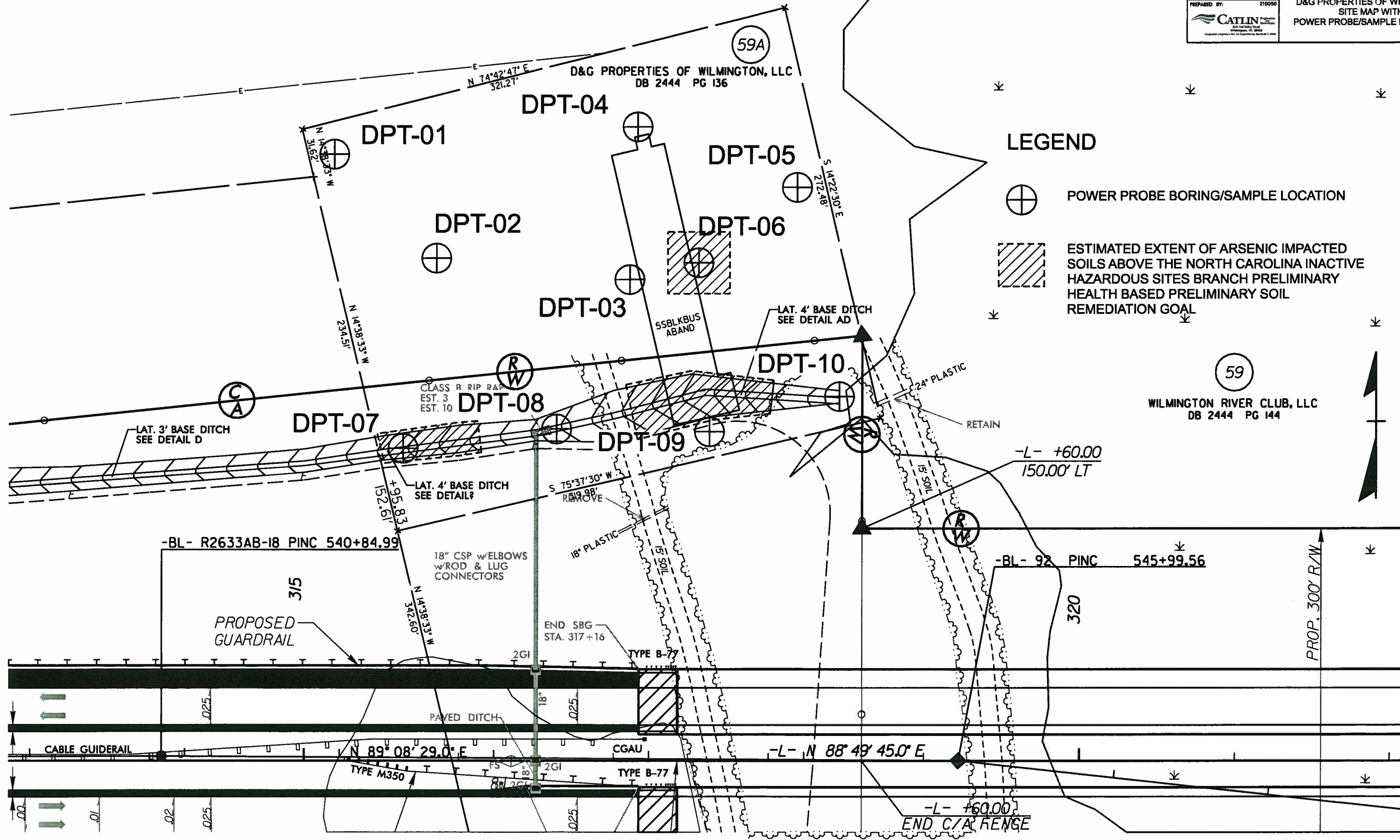
SCALE




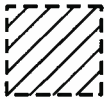
NOTE:

1. FIGURE ADAPTED FROM NCDOT SUPPLIED PLAN SHEET NO. 24
2. GRAB GROUNDWATER SAMPLE COLLECTED AT DPT-09

	STATE PROJ.: R-2633B	FIGURE NO. 02
	WBS ELEM.: 34491.1.2	TOTAL FIGURES: 02
	F.A. NO.: N/A	R/W FIGURE NO.:
	COUNTY: BRUNSWICK	
PREPARED BY: CATLIN 		DESCRIPTION: US17 - WILMINGTON BYPASS PARCEL #59A D&G PROPERTIES OF WILMINGTON SITE MAP WITH POWER PROBE/SAMPLE LOCATIONS



LEGEND

-  POWER PROBE BORING/SAMPLE LOCATION
-  ESTIMATED EXTENT OF ARSENIC IMPACTED SOILS ABOVE THE NORTH CAROLINA INACTIVE HAZARDOUS SITES BRANCH PRELIMINARY HEALTH BASED PRELIMINARY SOIL REMEDIATION GOAL

APPENDICES

APPENDIX A
GEOPHYSICAL REPORT



June 10, 2010

Mr. Richard Garrett, LG
Catlin Engineers and Scientists, Inc
P.O. Box 10279
Wilmington, NC 28404-0279

RE: State Project: R-2633B
 WBS Element: 34491.1.2
 County: Brunswick
 Description: US 17 – Wilmington Bypass

**Subject: Project 09210013.23, Report on Geophysical Surveys
 Parcel 59A, Navassa, North Carolina**

Dear Mr. Garrett:

SCHNABEL ENGINEERING SOUTH, PC (Schnabel) is pleased to present this report on the geophysical surveys we conducted on the subject property. We understand this letter report will be included as an appendix in your report to the NCDOT. The report includes two 11x17 color figures and two 8.5x11 color figures.

INTRODUCTION

The work described in this report was conducted on April 19 and 20, 2010, by Schnabel under our 2009 contract with the NCDOT. The proposed survey areas were not accessible upon our arrival at the site due to tall, thick vegetation. After discussions with Catlin and the NCDOT, our original scope was modified to add clearing of the area around the building for the EM61 survey and to delete the EM31 survey of the area to the west of the road. Pictures of the site before and after the clearing was completed are shown on Figure 1.

The work was conducted within the accessible areas of a 30-foot wide perimeter around the main building as indicated by Catlin to support their environmental assessment of Parcel 59A (D&G Properties of Wilmington, LLC). The purpose of the geophysical surveys was to locate possible metal underground storage tanks (UST's) and associated metal product lines in the accessible areas of the proposed survey area.

The geophysical investigation consisted of electromagnetic (EM) induction surveys using a Geonics EM61-MK2 instrument. The EM61 metal detector is used to locate metal objects buried up to about eight feet below ground surface. Ground-penetrating radar (GPR) investigations of selected EM61 anomalies were conducted using a Geophysical Survey Systems SIR-3000 system equipped with a 400 MHz antenna. Photographs of the equipment used are shown on Figure 2.

FIELD METHODOLOGY

Locations of geophysical data points were obtained using a sub-meter Trimble Pro-XRS DGPS system. References to direction and location in this report are based on the US State Plane 1983 System, North Carolina 3200 Zone, using the NAD 83 datum, with units in US survey feet. The locations of existing site features (building, metallic objects, trees, etc.) were recorded for later correlation with the geophysical data and for location references to the NCDOT drawings.

The EM61 data were collected along parallel survey lines spaced approximately 2.5 feet apart. The EM61 and DGPS data were recorded digitally using a field computer and later transferred to a desktop computer for data processing. The GPR data were collected along survey lines spaced one to two feet apart in two orthogonal directions over anomalous EM readings not attributed to cultural features. The GPR data were reviewed in the field to evaluate the possible presence of UST's. The GPR data also were recorded digitally and later transferred to a desktop computer for further review.

Preliminary results for Parcel 59A were sent to Ben Ashba and Richard Garrett of Catlin and Terry Fox of the NCDOT on May 21, 2010.

DISCUSSION OF RESULTS

The contoured EM61 data for Parcel 59A are shown on Figures 3 and 4. The EM61 early time gate results are plotted on Figure 3. The early time gate data provide the more sensitive detection of metal objects. Figure 4 shows the difference between the response of the top and bottom coils of the EM61 instrument (differential response). The difference is taken to remove the effect of surface and very shallowly buried metallic objects. Typically, the differential response emphasizes anomalies from deeper and larger objects such as UST's.

The early time gate and differential results show anomalies apparently caused by buried utilities or known site features (Figures 3 and 4). The GPR data collected over selected differential EM61 anomalies do not indicate the presence of metallic UST's within the accessible portions of the survey area (Figures 3 and 4).

CONCLUSIONS

Our evaluation of the geophysical data collected on Parcel 59A on Project R-2633B in Navassa, NC indicates the following:

The geophysical data do not indicate the presence of metallic UST's in the areas surveyed on Parcel 59A.

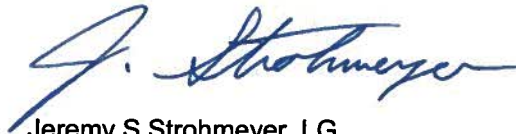
LIMITATIONS

These services have been performed and this report prepared for the North Carolina Department of Transportation in accordance with generally accepted guidelines for conducting geophysical surveys. It is generally recognized that the results of geophysical surveys are non-unique and may not represent actual subsurface conditions.

We appreciate the opportunity to have provided these services. Please call if you need additional information or have any questions.

Sincerely,

SCHNABEL ENGINEERING SOUTH, PC



Jeremy S Strohmeyer, LG
Project Manager



Edward D Billington, LG
Senior Vice President

JW:JS:NB

Attachments: Figures (4)

FILE: G:\2009 PROJECTS\09210013 (NCDOT 2009 GEOTECH UNIT SERVICES)\09210013.23 (R-2633B, BRUNSWICK COUNTY)\REPORTS\SCHNABEL GEOPHYSICS REPORT.DOCX



Parcel 59A – D&G Properties of Wilmington, LLC, looking southwest prior to clearing



Parcel 59A – D&G Properties of Wilmington, LLC, looking southeast after clearing



STATE PROJECT R-2633B
BRUNSWICK CO., NORTH CAROLINA
NC DEPT. OF TRANSPORTATION
PROJECT NO. 09210013.23

PARCEL 59A
SITE PHOTOS

FIGURE 1



Geonics EM61-MK2



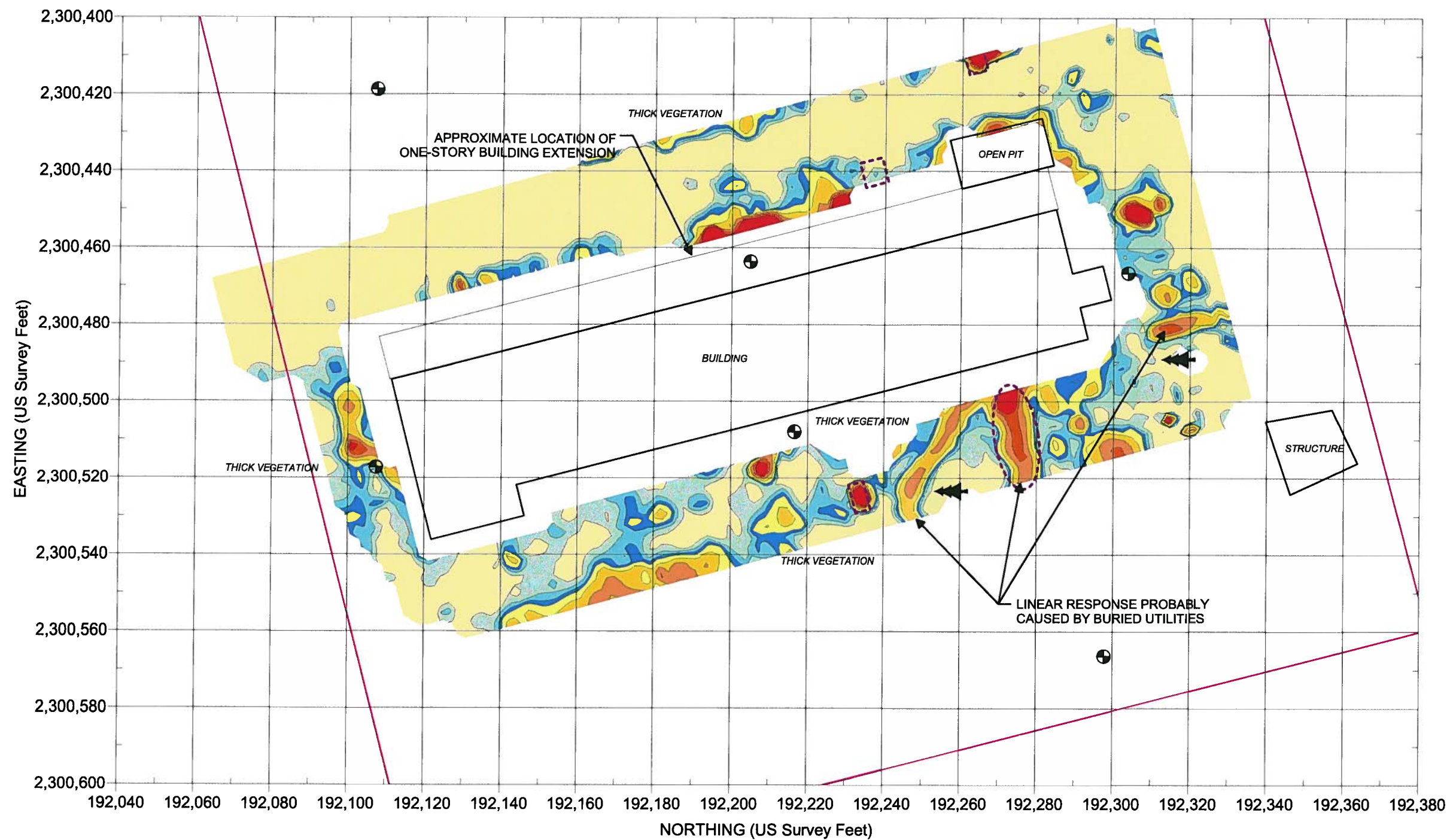
GSSI SIR-3000



STATE PROJECT R-2633B
BRUNSWICK CO., NORTH CAROLINA
NC DEPT. OF TRANSPORTATION
PROJECT NO. 09210013.23

PHOTOS OF
GEOPHYSICAL
EQUIPMENT USED

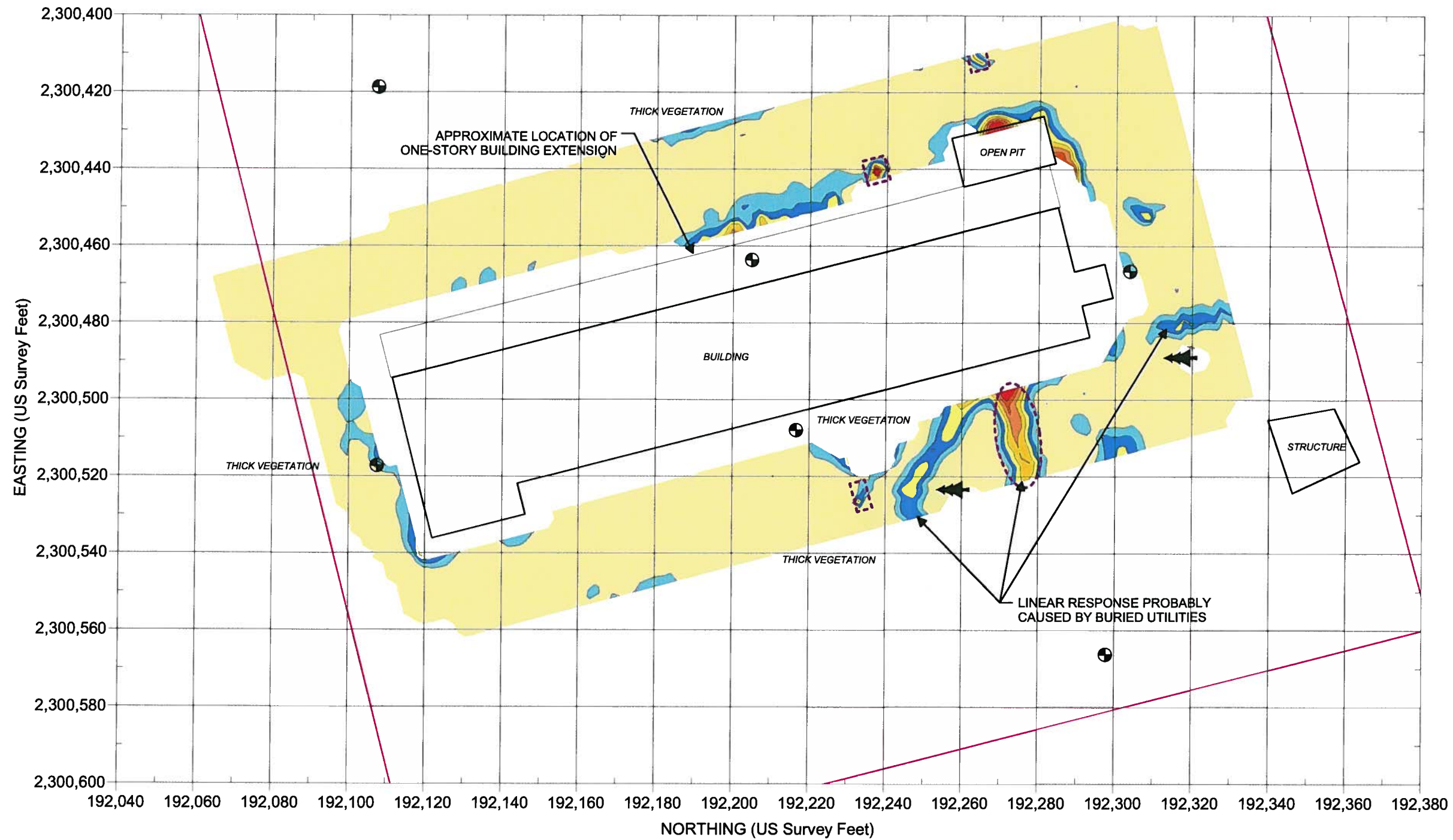
FIGURE 2



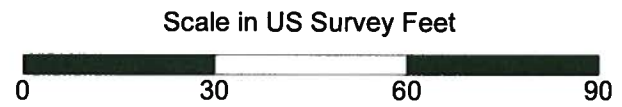
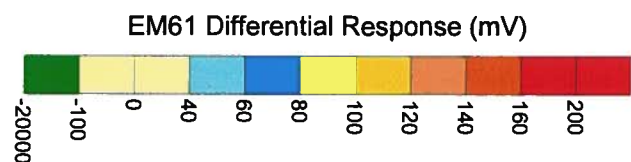
EXPLANATION	
	PROPERTY LINE
	PROPOSED BORING (CATLIN)
	TREE
	GPR SURVEY AREA

Note: The contour plot shows the earliest and most sensitive time gate of the EM61 bottom coil/channel in millivolts (mV). The EM data were collected on May 19 and 20, 2010, using a Geonics EM61-MK2 instrument. Positioning for the EM61 survey was provided using a submeter Trimble ProXRS DGPS system. Coordinates are in the US State Plane 1983 System, North Carolina Zone 3200, using the NAD 1983 datum. GPR data were acquired on May 20, 2010, using a Geophysical Survey Systems SIR 3000 equipped with a 400 MHz antenna.

	STATE PROJECT R-2633B	PARCEL 59A
	BRUNSWICK COUNTY, NORTH CAROLINA	EM61 EARLY TIME GATE
	NC DEPARTMENT OF TRANSPORTATION	RESPONSE
	PROJECT NO. 09210013.23	FIGURE 3



EXPLANATION	
	PROPERTY LINE
	PROPOSED BORING (CATLIN)
	TREE
	GPR SURVEY AREA



Note: The contour plot shows the difference, in millivolts (mV), between the readings from the top and bottom coils of the EM61. The difference is taken to reduce the effect of shallow metal objects and emphasize anomalies caused by deeper metallic objects, such as drums and tanks. The EM data were collected on May 19 and 20, 2010, using a Geonics EM61-MK2 instrument. Positioning for the EM61 survey was provided using a submeter Trimble ProXRS DGPS system. Coordinates are in the US State Plane 1983 System, North Carolina 3200 Zone, using the NAD 1983 datum. GPR data were acquired on May 20, 2010, using a Geophysical Survey Systems SIR 3000 equipped with a 400 MHz antenna.

	STATE PROJECT R-2633B BRUNSWICK COUNTY, NORTH CAROLINA NC DEPARTMENT OF TRANSPORTATION PROJECT NO. 09210013.23	PARCEL 59A EM61 DIFFERENTIAL RESPONSE
	FIGURE 4	

APPENDIX B
BORING LOGS

BORING LOG



PROJECT NO.: 210050	STATE: N.C.	COUNTY: Brunswick	LOCATION: Navassa
PROJECT NAME: Parcel #59A - D&G Properties of Wilmington, LLC		LOGGED BY: Benjamin J. Ashba	BORING ID: DPT01
		DRILLER: William J. Miller	
NORTHING: 12,456,169.22	EASTING: 732,410.03	CREW:	
SYSTEM: UTM NAD83 (USft)	BORING LOCATION:		LAND ELEV.: NM
DRILL MACHINE: Power Probe	METHOD: Direct Push	0 HOUR DTW: N/A	BORING DEPTH: 16.0
START DATE: 5/25/10	FINISH DATE: 5/25/10	24 HOUR DTW: N/A	ROCK DEPTH: --

DEPTH	BLOW COUNT 0.5 0.5 0.5 0.5	MOI.	OVA RESULTS (ppm) 0 1000 2000 3000 4000	LAB.	USCS	LOG	SOIL AND ROCK DESCRIPTION	
							DEPTH	ELEVATION
0.0							0.0	LAND SURFACE
2.0	DIRECT PUSH	D			SP		2.0	Clean brown fine SAND.
4.0	DIRECT PUSH	D	▲1.0				4.0	
6.0	DIRECT PUSH	D	▲2.0		CL		6.0	Brown w/ dark orange fine SANDY CLAY w/ thin clean fine SAND lense ~5.5' BLS. At 6' BLS, light gray w/ some orange fine to very fine SANDY CLAY w/ medium plasticity.
8.0	DIRECT PUSH	D	▲2.0				8.0	
10.0	DIRECT PUSH	D	▲1.0		SC		10.0	Orange and tan CLAYEY SAND.
12.0	DIRECT PUSH	D	▲1.0				12.0	
14.0	DIRECT PUSH	D	▲1.0		SM		14.0	Orange and brown SILTY SAND.
16.0	DIRECT PUSH	M	▲3.0	DPT01 (14-16')	SP		16.0	Light orange and brown fine SAND.

Boring Terminated at Depth 16.0 ft

CATLIN ENVIRO. LOG 210050_NCDOT_PARCEL_59A.GPJ_CATLIN.GDT_6/29/10

▽ = 0hr. DTW

▼ = 24hr. DTW

BORING LOG

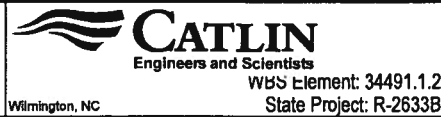


PROJECT NO.: 210050	STATE: N.C.	COUNTY: Brunswick	LOCATION: Navassa
PROJECT NAME: Parcel #59A - D&G Properties of Wilmington, LLC		LOGGED BY: Benjamin J. Ashba	BORING ID: DPT02
		DRILLER: William J. Miller	
NORTHING: 12,456,100.63	EASTING: 732,474.97	CREW:	
SYSTEM: UTM NAD83 (USft)	BORING LOCATION:		LAND ELEV.: NM
DRILL MACHINE: Power Probe	METHOD: Direct Push	0 HOUR DTW: N/A	BORING DEPTH: 8.0
START DATE: 5/25/10	FINISH DATE: 5/25/10	24 HOUR DTW: N/A	ROCK DEPTH: --

DEPTH	BLOW COUNT 0.5 0.5 0.5 0.5	MOI.	OVA RESULTS (ppm) 0 1000 2000 3000 4000	LAB.	USCS	LOG	SOIL AND ROCK DESCRIPTION	
							DEPTH	ELEVATION
0.0							0.0	LAND SURFACE
2.0	DIRECT PUSH	D	▲1.0		SP		4.0	Brown fine SAND w/ some SILTY SAND near surface. Grades to light brown very fine to fine SAND.
4.0	DIRECT PUSH	D	▲1.0	DPT02 (2-4')			6.0	Light orange and brown SANDY CLAY to CLAYEY SAND. Grades to SANDY CLAY w/ depth.
6.0	DIRECT PUSH	D	▲0.0		SC			
8.0	DIRECT PUSH	M	▲0.0		CL		8.0	CLAY.
Boring Terminated at Depth 8.0 ft								

CATLIN ENVIRO. LOG 210050_NCDOT_PARCEL_59A.GPJ.CATLIN.GDT_6/29/10

BORING LOG



PROJECT NO.: 210050	STATE: N.C.	COUNTY: Brunswick	LOCATION: Navassa
PROJECT NAME: Parcel #59A - D&G Properties of Wilmington, LLC		LOGGED BY: Benjamin J. Ashba	BORING ID: DPT03
		DRILLER: William J. Miller	
NORTHING: 12,456,084.52	EASTING: 732,599.64	CREW:	
SYSTEM: UTM NAD83 (USft)	BORING LOCATION:		LAND ELEV.: NM
DRILL MACHINE: Power Probe	METHOD: Direct Push	0 HOUR DTW: N/A	BORING DEPTH: 8.0
START DATE: 5/25/10	FINISH DATE: 5/25/10	24 HOUR DTW: N/A	ROCK DEPTH: --

DEPTH	BLOW COUNT 0.5 0.5 0.5 0.5	MOI.	OVA RESULTS (ppm) 0 1000 2000 3000 4000	LAB.	U S C S	L O G	DEPTH	SOIL AND ROCK DESCRIPTION	ELEVATION
0.0							0.0	LAND SURFACE	
0.0	DIRECT PUSH	D	▲4.0		SM		2.0	Dark brown SILTY SAND.	
2.0	DIRECT PUSH	D	▲5.0	DPT03 (2-4')	SC		6.0	Tan and brown CLAYEY SAND. Color grades to orange-brown with depth.	
4.0	DIRECT PUSH	D	▲1.0						
6.0	DIRECT PUSH	M	▲2.0		SC/CL		8.0	S.A.A. w/ an increase in CLAY content and color is darker orange-brown w/ depth.	
8.0								Boring Terminated at Depth 8.0 ft	

CATLIN.ENVIRO. LOG. 210050_NGDOT_PARCEL_59A.GPJ.CATLIN.GDT.6/29/10

▽ = 0hr. DTW ▼ = 24hr. DTW

BORING LOG



PROJECT NO.: 210050	STATE: N.C.	COUNTY: Brunswick	LOCATION: Navassa
PROJECT NAME: Parcel #59A - D&G Properties of Wilmington, LLC		LOGGED BY: Benjamin J. Ashba	BORING ID: DPT04
NORTHING: 12,456,183.18		EASTING: 732,606.45	CREW:
SYSTEM: UTM NAD83 (USft)	BORING LOCATION:		LAND ELEV.: NM
DRILL MACHINE: Power Probe	METHOD: Direct Push	0 HOUR DTW: N/A	BORING DEPTH: 8.0
START DATE: 5/25/10	FINISH DATE: 5/25/10	24 HOUR DTW: N/A	ROCK DEPTH: --

DEPTH	BLOW COUNT 0.5 0.5 0.5 0.5	MOI.	OVA RESULTS (ppm) 0 1000 2000 3000 4000	LAB.	USCS	LOG	SOIL AND ROCK DESCRIPTION	
							DEPTH	ELEVATION
0.0							0.0	LAND SURFACE
2.0	DIRECT PUSH	D	▲4.0		SM		1.0	Dark brown SILTY SAND.
					SC		2.0	Brown SANDY CLAY w/ low plasticity.
4.0	DIRECT PUSH	D	▲2.0		SC/CL		6.0	Gray and tan w/ orange mottling SANDY CLAY to CLAYEY SAND. Mottling increases w/ depth.
6.0	DIRECT PUSH	D	▲2.0		SP		8.0	Light gray fine to very fine SAND. Damp @ 8ft.
8.0	DIRECT PUSH	D	▲4.0	DPT04 (6-8')				Boring Terminated at Depth 8.0 ft

CATLIN.ENVIRO.LOG.210050.NC.DOT.PARCEL-59A.GP1.CATLIN.GDT.6/29/10

▽ = 0hr. DTW

▼ = 24hr. DTW

BORING LOG



PROJECT NO.: 210050	STATE: N.C.	COUNTY: Brunswick	LOCATION: Navassa
PROJECT NAME: Parcel #59A - D&G Properties of Wilmington, LLC		LOGGED BY: Benjamin J. Ashba	BORING ID: DPT05
		DRILLER: William J. Miller	
NORTHING: 12,456,142.05	EASTING: 732,708.74	CREW:	
SYSTEM: UTM NAD83 (USft)	BORING LOCATION: East of DPT04 & DPT06		LAND ELEV.: NM
DRILL MACHINE: Power Probe	METHOD: Direct Push	0 HOUR DTW: 6.0	BORING DEPTH: 8.0
START DATE: 5/25/10	FINISH DATE: 5/25/10	24 HOUR DTW: N/A	ROCK DEPTH: --

DEPTH	BLOW COUNT 0.5 0.5 0.5 0.5	MOI.	OVA RESULTS (ppm) 0 1000 2000 3000 4000	LAB.	USCS	LOG	SOIL AND ROCK DESCRIPTION	
							DEPTH	ELEVATION
0.0							0.0	LAND SURFACE
2.0	DIRECT PUSH	D	▲2.0		SM		2.0	Dark brown SILTY SAND.
4.0	DIRECT PUSH	D	▲4.0	DPT05 (2-4')	SP		4.0	Tan fine to very fine SAND.
6.0	DIRECT PUSH	M	▲2.0		SC			Tan to brown fine SANDY CLAY to CLAYEY SAND w/ increasing clay content at 5' BLS.
8.0	DIRECT PUSH	Sat.	▲3.0				8.0	

Boring Terminated at Depth 8.0 ft

CATLIN.ENVIRO.LOG.210050.NCDOI.PARCEL_59A.GPI.CATLIN.GDT.6/29/10

▽ = 0hr. DTW ▼ = 24hr. DTW

BORING LOG



CATLIN
Engineers and Scientists

WBS Element: 34491.1.2
State Project: R-2633B

Wilmington, NC

PROJECT NO.: 210050	STATE: N.C.	COUNTY: Brunswick	LOCATION: Navassa
PROJECT NAME: Parcel #59A - D&G Properties of Wilmington, LLC		LOGGED BY: Benjamin J. Ashba	BORING ID: DPT06
DRILLER: William J. Miller			
NORTHING: 12,456,094.46	EASTING: 732,644.39	CREW:	
SYSTEM: UTM NAD83 (USft)	BORING LOCATION: East of building	LAND ELEV.: NM	
DRILL MACHINE: Power Probe	METHOD: Direct Push	0 HOUR DTW: 6.0	BORING DEPTH: 8.0
START DATE: 5/25/10	FINISH DATE: 5/25/10	24 HOUR DTW: N/A	ROCK DEPTH: --

DEPTH	BLOW COUNT 0.5 0.5 0.5 0.5	MOI.	OVA RESULTS (ppm) 0 1000 2000 3000 4000	LAB.	USCS	LOG	SOIL AND ROCK DESCRIPTION	
							DEPTH	ELEVATION
0.0							0.0	LAND SURFACE
2.0	DIRECT PUSH	D	▲3.0		SM		2.0	Orange and brown SILTY SAND.
4.0	DIRECT PUSH	D	▲2.0		SC		6.0	Orange dark brown CLAYEY fine SAND. Decrease in clay content w/ depth.
6.0	DIRECT PUSH	D	▲5.0	DPT06 (4-6')			6.0	
8.0	DIRECT PUSH	M	▲4.0		SM		8.0	Light brown SILTY SAND.
Boring Terminated at Depth 8.0 ft								

CATLIN ENVIRO. LOG_210050_NCDOT_PARCEL-59A.GPJ_CATLIN.GDT_6/29/10

▽ = 0hr. DTW

▼ = 24hr. DTW

BORING LOG



PROJECT NO.: 210050	STATE: N.C.	COUNTY: Brunswick	LOCATION: Navassa
PROJECT NAME: Parcel #59A - D&G Properties of Wilmington, LLC		LOGGED BY: Benjamin J. Ashba	BORING ID: DPT07
NORTHING: 12,455,977.85		EASTING: 732,451.23	CREW:
SYSTEM: UTM NAD83 (USft)	BORING LOCATION: West end of drainage feature		LAND ELEV.: NM
DRILL MACHINE: Power Probe	METHOD: Direct Push	0 HOUR DTW: N/A	BORING DEPTH: 4.0
START DATE: 5/25/10	FINISH DATE: 5/25/10	24 HOUR DTW: N/A	ROCK DEPTH: --

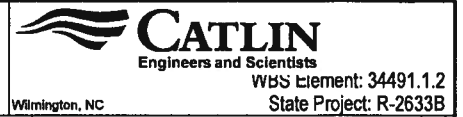
DEPTH	BLOW COUNT 0.5 0.5 0.5 0.5	MOI.	OVA RESULTS (ppm) 0 1000 2000 3000 4000	LAB.	USCS	LOG	SOIL AND ROCK DESCRIPTION	
							DEPTH	ELEVATION
0.0							0.0	LAND SURFACE
2.0	DIRECT PUSH	D	▲1.0		SM	[Hatched Pattern]		Brown SILTY SAND. Thin clean sand lense at 3.5' BLS.
4.0	DIRECT PUSH	M	▲3.0	DPT07 (2-4')			4.0	
Boring Terminated at Depth 4.0 ft								

CATLIN ENVIRO. LOG 210050_NCDOT_PARCEL-59A.GPJ CATLIN.GDT 6/29/10

▽ = 0hr. DTW

▼ = 24hr. DTW

BORING LOG



PROJECT NO.: 210050	STATE: N.C.	COUNTY: Brunswick	LOCATION: Navassa
PROJECT NAME: Parcel #59A - D&G Properties of Wilmington, LLC		LOGGED BY: Benjamin J. Ashba	BORING ID: DPT08
DRILLER: William J. Miller		CREW:	
NORTHING: 12,455,988.62	EASTING: 732,550.88	SYSTEM: UTM NAD83 (USft)	
BORING LOCATION: ~100' East of end of drainage feature			LAND ELEV.: NM
DRILL MACHINE: Power Probe	METHOD: Direct Push	0 HOUR DTW: N/A	BORING DEPTH: 4.0
START DATE: 5/25/10	FINISH DATE: 5/25/10	24 HOUR DTW: N/A	ROCK DEPTH: --

DEPTH	BLOW COUNT 0.5 0.5 0.5 0.5	MOI.	OVA RESULTS (ppm) 0 1000 2000 3000 4000	LAB.	USCS	LOG	SOIL AND ROCK DESCRIPTION	
							DEPTH	ELEVATION
0.0							0.0	LAND SURFACE
2.0	DIRECT PUSH	D	▲1.0	DPT08 (0-2')	SM	[Vertical Line]		Orange dark brown SILTY SAND. Orange color increases w/ depth.
4.0	DIRECT PUSH	M	▲1.0				4.0	
Boring Terminated at Depth 4.0 ft								

CATLIN\ENR\LOG_210050_NCDOT_PARCEL_59A.GPJ_CATLIN.GDT_6/29/10

▽ = 0hr. DTW

▼ = 24hr. DTW

BORING LOG



Wilmington, NC

WBS Element: 34491.1.2
State Project: R-2633B

PROJECT NO.: 210050	STATE: N.C.	COUNTY: Brunswick	LOCATION: Navassa
PROJECT NAME: Parcel #59A - D&G Properties of Wilmington, LLC		LOGGED BY: Benjamin J. Ashba	BORING ID: DPT09
NORTHING: 12,455,984.92		EASTING: 732,649.47	DRILLER: William J. Miller
SYSTEM: UTM NAD83 (USft)		BORING LOCATION:	LAND ELEV.: NM
DRILL MACHINE: Power Probe	METHOD: Direct Push	0 HOUR DTW: 7.0	BORING DEPTH: 10.0
START DATE: 5/25/10	FINISH DATE: 5/25/10	24 HOUR DTW: N/A	ROCK DEPTH: --

DEPTH	BLOW COUNT 0.5 0.5 0.5 0.5	MOI.	OVA RESULTS (ppm) 0 1000 2000 3000 4000	LAB.	USCS	LOG	SOIL AND ROCK DESCRIPTION	ELEVATION
							DEPTH	
0.0							LAND SURFACE	0.0
2.0	DIRECT PUSH	D	▲3.0	DPT09 (0-2')	SM		Dark orange brown SILTY SAND.	3.0
4.0	DIRECT PUSH	D	▲0.0		CL		Tan and brown SANDY CLAY.	4.0
6.0	DIRECT PUSH	D	▲0.0		SM		Tan and brown SILTY SAND.	6.0
8.0	DIRECT PUSH	W	▲0.0		CL		Brown, tan, and gray SANDY CLAY. Orange mottling.	
10.0	DIRECT PUSH	Sat.	▲2.0				Boring Terminated at Depth 10.0 ft	10.0

CATLIN ENVIRO. LOG. 210050_NCDOT_PARCEL_59A.GPJ.CATLIN.GDT 6/29/10

▽ = 0hr. DTW

▼ = 24hr. DTW

BORING LOG



PROJECT NO.: 210050	STATE: N.C.	COUNTY: Brunswick	LOCATION: Navassa
PROJECT NAME: Parcel #59A - D&G Properties of Wilmington, LLC		LOGGED BY: Benjamin J. Ashba	BORING ID: DPT10
NORTHING: 12,456,006.12		EASTING: 732,733.61	CREW:
SYSTEM: UTM NAD83 (USft)	BORING LOCATION:		LAND ELEV.: NM
DRILL MACHINE: Power Probe	METHOD: Direct Push	0 HOUR DTW: N/A	BORING DEPTH: 4.0
START DATE: 5/25/10	FINISH DATE: 5/25/10	24 HOUR DTW: N/A	ROCK DEPTH: --

DEPTH	BLOW COUNT 0.5 0.5 0.5 0.5	MOI.	OVA RESULTS (ppm) 0 1000 2000 3000 4000	LAB.	USCS	LOG	SOIL AND ROCK DESCRIPTION	
							DEPTH	ELEVATION
0.0							0.0	LAND SURFACE
2.0	DIRECT PUSH	M	▲1.0	DPT10 (0-2')	SM	[Hatched Pattern]		Dark brown SILTY SAND. Moist to wet.
4.0	DIRECT PUSH	W	▲0.0				4.0	Boring Terminated at Depth 4.0 ft

CATLIN ENVIRO. LOG-210050_NCDOT_PARCEL-59A.GPJ_CATLIN.GDT_6/29/10

▽ = 0hr. DTW

▼ = 24hr. DTW

APPENDIX C

LABORATORY REPORT AND CHAIN OF CUSTODY RECORD



Ben Ashba
Richard Catlin & Associates
P.O. Box 10279
Wilmington, NC 28404-0279

Report Number: G128-2537

Client Project: NCDOT US 17 ILM Bypass Parcel #59A


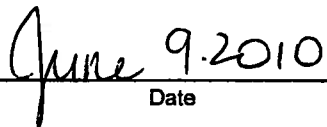
Dear Ben Ashba,

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. 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 Barbara Hager 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.

 
Project Manager Date
Barbara Hager

Case Narrative
Catlin
SGS Project: G128-2537
Project Name: NCDOT US 17 ILM Bypass Parcel #59A

SGS North America Inc.

June 15th, 2010

- Ten soil samples were accepted into the laboratory on May 28th, 2010 at 1100 for analyses as indicated on the chain of custody. The samples were received in good condition, with a temperature of 5.7°C.
- All extractions and analyses were completed within holding time limits, with the following quality control exceptions.

8260 Analyses

- Methylene Chloride was detected in the associated trip blank below the reporting limit, but above the method detection limit. It was detected in the samples at similar concentrations. This compound is a common laboratory solvent and its detection may be due to the background concentration found in the trip blank.

Barbara Hager
Project Manager

Craig Inigo

Date

6/24/10

SGS North America, Inc.
List of Reporting Abbreviations
And Data Qualifiers

B = Compound also detected in batch blank

BQL = Below Quantification Limit (RL or MDL)

DF = Dilution Factor

Dup = Duplicate

D = Detected, but RPD is > 40% between results in dual column method.

E = Estimated concentration, exceeds calibration range.

J = Estimated concentration, below calibration range and above MDL

LCS(D) = Laboratory Control Spike (Duplicate)

MDL = Method Detection Limit

MS(D) = Matrix Spike (Duplicate)

PQL = Practical Quantitation Limit

RL/CL = Reporting Limit / Control Limit

RPD = Relative Percent Difference

UJ = Target analytes with recoveries that are $10\% < \%R < LCL$; # of MEs are allowable and compounds are not detected in the sample.

mg/kg = milligram per kilogram, ppm, parts per million

ug/kg = micrograms per kilogram, ppb, parts per billion

mg/L = milligram per liter, ppm, parts per million

ug/L = micrograms per liter, ppb, parts per billion

% Rec = Percent Recovery

% solids = Percent Solids

Special Notes:

- 1) Metals and mercury samples are digested with a hot block; see the standard operating procedure document for details.
- 2) Uncertainty for all reported data is less than or equal to 30 percent.

SGS North America, Inc.

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: DPT-01 (14-16')
Client Project ID: NCDOT US 17 ILM Bypass Parcel #59A
Lab Sample ID G128-2537-1A
Lab Project ID: G128-2537
Report Basis: Dry Weight

Analyzed By: DVO
Date Collected: 05-25-2010 13:15
Date Received: 5/28/2010
Matrix: Soil
Sample Amount: 5.69 g
%Solids: 75.8

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	MDL MG/KG	Dilution Factor	Date Analyzed	Flag
Acetone	BQL	0.0578	0.00799	1	6/5/2010	
Benzene	BQL	0.00578	0.00124	1	6/5/2010	
Bromobenzene	BQL	0.00578	0.00119	1	6/5/2010	
Bromochloromethane	BQL	0.00578	0.00199	1	6/5/2010	
Bromodichloromethane	BQL	0.00578	0.00115	1	6/5/2010	
Bromoform	BQL	0.00578	0.00116	1	6/5/2010	
Bromomethane	BQL	0.00578	0.00121	1	6/5/2010	
2-Butanone	BQL	0.0289	0.00628	1	6/5/2010	
n-Butylbenzene	BQL	0.00578	0.00110	1	6/5/2010	
sec-Butylbenzene	BQL	0.00578	0.00117	1	6/5/2010	
tert-Butylbenzene	BQL	0.00578	0.00130	1	6/5/2010	
Carbon disulfide	BQL	0.00578	0.00310	1	6/5/2010	
Carbon tetrachloride	BQL	0.00578	0.00118	1	6/5/2010	
Chlorobenzene	BQL	0.00578	0.00138	1	6/5/2010	
Chloroethane	BQL	0.00578	0.00184	1	6/5/2010	
Chloroform	BQL	0.00578	0.00139	1	6/5/2010	
Chloromethane	BQL	0.00578	0.00131	1	6/5/2010	
2-Chlorotoluene	BQL	0.00578	0.00117	1	6/5/2010	
4-Chlorotoluene	BQL	0.00578	0.00145	1	6/5/2010	
Dibromochloromethane	BQL	0.00578	0.00160	1	6/5/2010	
1,2-Dibromo-3-chloropropane	BQL	0.0289	0.00168	1	6/5/2010	
Dibromomethane	BQL	0.00578	0.00175	1	6/5/2010	
1,2-Dibromoethane (EDB)	BQL	0.00578	0.00131	1	6/5/2010	
1,2-Dichlorobenzene	BQL	0.00578	0.00149	1	6/5/2010	
1,3-Dichlorobenzene	BQL	0.00578	0.00148	1	6/5/2010	
1,4-Dichlorobenzene	BQL	0.00578	0.00121	1	6/5/2010	
trans-1,4-Dichloro-2-butene	BQL	0.0289	0.00160	1	6/5/2010	
1,1-Dichloroethane	BQL	0.00578	0.00123	1	6/5/2010	
1,1-Dichloroethene	BQL	0.00578	0.00171	1	6/5/2010	
1,2-Dichloroethane	BQL	0.00578	0.00153	1	6/5/2010	
cis-1,2-Dichloroethene	BQL	0.00578	0.00148	1	6/5/2010	
trans-1,2-dichloroethene	BQL	0.00578	0.00131	1	6/5/2010	
1,2-Dichloropropane	BQL	0.00578	0.00136	1	6/5/2010	
1,3-Dichloropropane	BQL	0.00578	0.00130	1	6/5/2010	
2,2-Dichloropropane	BQL	0.00578	0.00139	1	6/5/2010	
1,1-Dichloropropene	BQL	0.00578	0.00182	1	6/5/2010	
cis-1,3-Dichloropropene	BQL	0.00578	0.00096	1	6/5/2010	
trans-1,3-Dichloropropene	BQL	0.00578	0.00111	1	6/5/2010	
Dichlorodifluoromethane	BQL	0.00578	0.00153	1	6/5/2010	
Diisopropyl ether (DIPE)	BQL	0.00578	0.00131	1	6/5/2010	
Ethylbenzene	BQL	0.00578	0.00100	1	6/5/2010	

**Results for Volatiles
by GCMS 8260-5035**

Client Sample ID: DPT-01 (14-16')
 Client Project ID: NCDOT US 17 ILM Bypass Parcel #59A
 Lab Sample ID G128-2537-1A
 Lab Project ID: G128-2537
 Report Basis: Dry Weight

Analyzed By: DVO
 Date Collected: 05-25-2010 13:15
 Date Received: 5/28/2010
 Matrix: Soil
 Sample Amount: 5.69 g
 %Solids: 75.8

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	MDL MG/KG	Dilution Factor	Date Analyzed	Flag
Hexachlorobutadiene	BQL	0.00578	0.00113	1	6/5/2010	
2-Hexanone	BQL	0.0145	0.00375	1	6/5/2010	
Iodomethane	BQL	0.00578	0.00125	1	6/5/2010	
Isopropylbenzene	BQL	0.00578	0.00103	1	6/5/2010	
4-Isopropyltoluene	BQL	0.00578	0.00124	1	6/5/2010	
Methylene chloride	0.00625	0.0231	0.00138	1	6/5/2010	J
4-Methyl-2-pentanone	BQL	0.0145	0.00536	1	6/5/2010	
Methyl-tert-butyl ether (MTBE)	BQL	0.00578	0.00128	1	6/5/2010	
Naphthalene	BQL	0.00578	0.00098	1	6/5/2010	
n-Propyl benzene	BQL	0.00578	0.00078	1	6/5/2010	
Styrene	BQL	0.00578	0.00127	1	6/5/2010	
1,1,1,2-Tetrachloroethane	BQL	0.00578	0.00118	1	6/5/2010	
1,1,2,2-Tetrachloroethane	BQL	0.00578	0.00131	1	6/5/2010	
Tetrachloroethene	BQL	0.00578	0.00106	1	6/5/2010	
Toluene	BQL	0.00578	0.00115	1	6/5/2010	
1,2,3-Trichlorobenzene	BQL	0.00578	0.00120	1	6/5/2010	
1,2,4-Trichlorobenzene	BQL	0.00578	0.00119	1	6/5/2010	
Trichloroethene	BQL	0.00578	0.00110	1	6/5/2010	
1,1,1-Trichloroethane	BQL	0.00578	0.00131	1	6/5/2010	
1,1,2-Trichloroethane	BQL	0.00578	0.00190	1	6/5/2010	
Trichlorofluoromethane	BQL	0.00578	0.00119	1	6/5/2010	
1,2,3-Trichloropropane	BQL	0.00578	0.00143	1	6/5/2010	
1,2,4-Trimethylbenzene	BQL	0.00578	0.00146	1	6/5/2010	
1,3,5-Trimethylbenzene	BQL	0.00578	0.00132	1	6/5/2010	
Vinyl chloride	BQL	0.00578	0.00157	1	6/5/2010	
m-,p-Xylene	BQL	0.0116	0.00222	1	6/5/2010	
o-Xylene	BQL	0.00578	0.00112	1	6/5/2010	

	Spike Added	Spike Result	Percent Recovered
1,2-Dichloroethane-d4	0.05	0.0539	108
Toluene-d8	0.05	0.0481	96
4-Bromofluorobenzene	0.05	0.0414	83

Comments:

Flags:

BQL = Below Quantitation Limits.
 J = Detected below the quantitation limit.

Analyst: DVO

Reviewed By: 

SGS North America, Inc.

**Results for Volatiles
by GCMS 8260-5035**

Client Sample ID: DPT-02 (2-4')
 Client Project ID: NCDOT US 17 ILM Bypass Parcel #59A
 Lab Sample ID G128-2537-2A
 Lab Project ID: G128-2537
 Report Basis: Dry Weight

Analyzed By: DVO
 Date Collected: 05-25-2010 13:35
 Date Received: 5/28/2010
 Matrix: Soil
 Sample Amount: 5.19 g
 %Solids: 95.4

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	MDL MG/KG	Dilution Factor	Date Analyzed	Flag
Acetone	0.127	0.0504	0.00697	1	6/5/2010	
Benzene	BQL	0.00504	0.00108	1	6/5/2010	
Bromobenzene	BQL	0.00504	0.00104	1	6/5/2010	
Bromochloromethane	BQL	0.00504	0.00173	1	6/5/2010	
Bromodichloromethane	BQL	0.00504	0.00100	1	6/5/2010	
Bromoform	BQL	0.00504	0.00101	1	6/5/2010	
Bromomethane	BQL	0.00504	0.00106	1	6/5/2010	
2-Butanone	0.00851	0.0252	0.00547	1	6/5/2010	J
n-Butylbenzene	BQL	0.00504	0.00096	1	6/5/2010	
sec-Butylbenzene	BQL	0.00504	0.00102	1	6/5/2010	
tert-Butylbenzene	BQL	0.00504	0.00113	1	6/5/2010	
Carbon disulfide	BQL	0.00504	0.00270	1	6/5/2010	
Carbon tetrachloride	BQL	0.00504	0.00103	1	6/5/2010	
Chlorobenzene	BQL	0.00504	0.00120	1	6/5/2010	
Chloroethane	BQL	0.00504	0.00160	1	6/5/2010	
Chloroform	BQL	0.00504	0.00121	1	6/5/2010	
Chloromethane	BQL	0.00504	0.00114	1	6/5/2010	
2-Chlorotoluene	BQL	0.00504	0.00102	1	6/5/2010	
4-Chlorotoluene	BQL	0.00504	0.00126	1	6/5/2010	
Dibromochloromethane	BQL	0.00504	0.00139	1	6/5/2010	
1,2-Dibromo-3-chloropropane	BQL	0.0252	0.00146	1	6/5/2010	
Dibromomethane	BQL	0.00504	0.00152	1	6/5/2010	
1,2-Dibromoethane (EDB)	BQL	0.00504	0.00114	1	6/5/2010	
1,2-Dichlorobenzene	BQL	0.00504	0.00130	1	6/5/2010	
1,3-Dichlorobenzene	BQL	0.00504	0.00129	1	6/5/2010	
1,4-Dichlorobenzene	BQL	0.00504	0.00106	1	6/5/2010	
trans-1,4-Dichloro-2-butene	BQL	0.0252	0.00139	1	6/5/2010	
1,1-Dichloroethane	BQL	0.00504	0.00107	1	6/5/2010	
1,1-Dichloroethene	BQL	0.00504	0.00149	1	6/5/2010	
1,2-Dichloroethane	BQL	0.00504	0.00133	1	6/5/2010	
cis-1,2-Dichloroethene	BQL	0.00504	0.00129	1	6/5/2010	
trans-1,2-dichloroethene	BQL	0.00504	0.00114	1	6/5/2010	
1,2-Dichloropropane	BQL	0.00504	0.00119	1	6/5/2010	
1,3-Dichloropropane	BQL	0.00504	0.00113	1	6/5/2010	
2,2-Dichloropropane	BQL	0.00504	0.00121	1	6/5/2010	
1,1-Dichloropropene	BQL	0.00504	0.00158	1	6/5/2010	
cis-1,3-Dichloropropene	BQL	0.00504	0.00084	1	6/5/2010	
trans-1,3-Dichloropropene	BQL	0.00504	0.00097	1	6/5/2010	
Dichlorodifluoromethane	BQL	0.00504	0.00133	1	6/5/2010	
Diisopropyl ether (DIPE)	BQL	0.00504	0.00114	1	6/5/2010	
Ethylbenzene	BQL	0.00504	0.00087	1	6/5/2010	

**Results for Volatiles
by GCMS 8260-5035**

Client Sample ID: DPT-02 (2-4')
 Client Project ID: NCDOT US 17 ILM Bypass Parcel #59A
 Lab Sample ID G128-2537-2A
 Lab Project ID: G128-2537
 Report Basis: Dry Weight

Analyzed By: DVO
 Date Collected: 05-25-2010 13:35
 Date Received: 5/28/2010
 Matrix: Soil
 Sample Amount: 5.19 g
 %Solids: 95.4

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	MDL MG/KG	Dilution Factor	Date Analyzed	Flag
Hexachlorobutadiene	BQL	0.00504	0.00098	1	6/5/2010	
2-Hexanone	BQL	0.0126	0.00327	1	6/5/2010	
Iodomethane	BQL	0.00504	0.00109	1	6/5/2010	
Isopropylbenzene	BQL	0.00504	0.00090	1	6/5/2010	
4-Isopropyltoluene	BQL	0.00504	0.00108	1	6/5/2010	
Methylene chloride	0.00477	0.0202	0.00120	1	6/5/2010	J
4-Methyl-2-pentanone	BQL	0.0126	0.00467	1	6/5/2010	
Methyl-tert-butyl ether (MTBE)	BQL	0.00504	0.00112	1	6/5/2010	
Naphthalene	BQL	0.00504	0.00086	1	6/5/2010	
n-Propyl benzene	BQL	0.00504	0.00068	1	6/5/2010	
Styrene	BQL	0.00504	0.00111	1	6/5/2010	
1,1,1,2-Tetrachloroethane	BQL	0.00504	0.00103	1	6/5/2010	
1,1,2,2-Tetrachloroethane	BQL	0.00504	0.00114	1	6/5/2010	
Tetrachloroethene	BQL	0.00504	0.00092	1	6/5/2010	
Toluene	BQL	0.00504	0.00101	1	6/5/2010	
1,2,3-Trichlorobenzene	BQL	0.00504	0.00105	1	6/5/2010	
1,2,4-Trichlorobenzene	BQL	0.00504	0.00104	1	6/5/2010	
Trichloroethene	BQL	0.00504	0.00096	1	6/5/2010	
1,1,1-Trichloroethane	BQL	0.00504	0.00114	1	6/5/2010	
1,1,2-Trichloroethane	BQL	0.00504	0.00165	1	6/5/2010	
Trichlorofluoromethane	BQL	0.00504	0.00104	1	6/5/2010	
1,2,3-Trichloropropane	BQL	0.00504	0.00125	1	6/5/2010	
1,2,4-Trimethylbenzene	BQL	0.00504	0.00127	1	6/5/2010	
1,3,5-Trimethylbenzene	BQL	0.00504	0.00115	1	6/5/2010	
Vinyl chloride	BQL	0.00504	0.00137	1	6/5/2010	
m-,p-Xylene	BQL	0.0101	0.00194	1	6/5/2010	
o-Xylene	BQL	0.00504	0.00098	1	6/5/2010	

	Spike Added	Spike Result	Percent Recovered
1,2-Dichloroethane-d4	0.05	0.0535	107
Toluene-d8	0.05	0.0485	97
4-Bromofluorobenzene	0.05	0.0422	84

Comments:

Flags:

BQL = Below Quantitation Limits.
 J = Detected below the quantitation limit.

Analyst: DVO

Reviewed By: 

SGS North America, Inc.

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: DPT-03 (2-4')
Client Project ID: NCDOT US 17 ILM Bypass Parcel #59A
Lab Sample ID G128-2537-3A
Lab Project ID: G128-2537
Report Basis: Dry Weight

Analyzed By: DVO
Date Collected: 05-25-2010 16:00
Date Received: 5/28/2010
Matrix: Soil
Sample Amount: 7.15 g
%Solids: 85.0

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	MDL MG/KG	Dilution Factor	Date Analyzed	Flag
Acetone	0.214	0.0411	0.00569	1	6/7/2010	E
Benzene	BQL	0.00411	0.00088	1	6/7/2010	
Bromobenzene	BQL	0.00411	0.00085	1	6/7/2010	
Bromochloromethane	BQL	0.00411	0.00142	1	6/7/2010	
Bromodichloromethane	BQL	0.00411	0.00082	1	6/7/2010	
Bromoform	BQL	0.00411	0.00082	1	6/7/2010	
Bromomethane	BQL	0.00411	0.00086	1	6/7/2010	
2-Butanone	0.0114	0.0206	0.00447	1	6/7/2010	J
n-Butylbenzene	BQL	0.00411	0.00079	1	6/7/2010	
sec-Butylbenzene	BQL	0.00411	0.00083	1	6/7/2010	
tert-Butylbenzene	BQL	0.00411	0.00092	1	6/7/2010	
Carbon disulfide	BQL	0.00411	0.00221	1	6/7/2010	
Carbon tetrachloride	BQL	0.00411	0.00084	1	6/7/2010	
Chlorobenzene	BQL	0.00411	0.00098	1	6/7/2010	
Chloroethane	BQL	0.00411	0.00131	1	6/7/2010	
Chloroform	BQL	0.00411	0.00099	1	6/7/2010	
Chloromethane	BQL	0.00411	0.00093	1	6/7/2010	
2-Chlorotoluene	BQL	0.00411	0.00083	1	6/7/2010	
4-Chlorotoluene	BQL	0.00411	0.00103	1	6/7/2010	
Dibromochloromethane	BQL	0.00411	0.00114	1	6/7/2010	
1,2-Dibromo-3-chloropropane	BQL	0.0206	0.00119	1	6/7/2010	
Dibromomethane	BQL	0.00411	0.00124	1	6/7/2010	
1,2-Dibromoethane (EDB)	BQL	0.00411	0.00093	1	6/7/2010	
1,2-Dichlorobenzene	BQL	0.00411	0.00106	1	6/7/2010	
1,3-Dichlorobenzene	BQL	0.00411	0.00105	1	6/7/2010	
1,4-Dichlorobenzene	BQL	0.00411	0.00086	1	6/7/2010	
trans-1,4-Dichloro-2-butene	BQL	0.0206	0.00114	1	6/7/2010	
1,1-Dichloroethane	BQL	0.00411	0.00087	1	6/7/2010	
1,1-Dichloroethene	BQL	0.00411	0.00122	1	6/7/2010	
1,2-Dichloroethane	BQL	0.00411	0.00109	1	6/7/2010	
cis-1,2-Dichloroethene	BQL	0.00411	0.00105	1	6/7/2010	
trans-1,2-dichloroethene	BQL	0.00411	0.00093	1	6/7/2010	
1,2-Dichloropropane	BQL	0.00411	0.00097	1	6/7/2010	
1,3-Dichloropropane	BQL	0.00411	0.00092	1	6/7/2010	
2,2-Dichloropropane	BQL	0.00411	0.00099	1	6/7/2010	
1,1-Dichloropropene	BQL	0.00411	0.00129	1	6/7/2010	
cis-1,3-Dichloropropene	BQL	0.00411	0.00069	1	6/7/2010	
trans-1,3-Dichloropropene	BQL	0.00411	0.00079	1	6/7/2010	
Dichlorodifluoromethane	BQL	0.00411	0.00109	1	6/7/2010	
Diisopropyl ether (DIPE)	BQL	0.00411	0.00093	1	6/7/2010	
Ethylbenzene	BQL	0.00411	0.00071	1	6/7/2010	
Hexachlorobutadiene	BQL	0.00411	0.00080	1	6/7/2010	
2-Hexanone	BQL	0.0103	0.00267	1	6/7/2010	
Iodomethane	BQL	0.00411	0.00089	1	6/7/2010	

SGS North America, Inc.

**Results for Volatiles
by GCMS 8260-5035**

Client Sample ID: DPT-04 (6-8')
 Client Project ID: NCDOT US 17 ILM Bypass Parcel #59A
 Lab Sample ID G128-2537-4A
 Lab Project ID: G128-2537
 Report Basis: Dry Weight

Analyzed By: DVO
 Date Collected: 05-25-2010 14:15
 Date Received: 5/28/2010
 Matrix: Soil
 Sample Amount: 5.51 g
 %Solids: 90.0

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	MDL MG/KG	Dilution Factor	Date Analyzed	Flag
Acetone	0.00794	0.0504	0.00697	1	6/7/2010	J
Benzene	BQL	0.00504	0.00108	1	6/7/2010	
Bromobenzene	BQL	0.00504	0.00104	1	6/7/2010	
Bromochloromethane	BQL	0.00504	0.00173	1	6/7/2010	
Bromodichloromethane	BQL	0.00504	0.00100	1	6/7/2010	
Bromoform	BQL	0.00504	0.00101	1	6/7/2010	
Bromomethane	BQL	0.00504	0.00106	1	6/7/2010	
2-Butanone	BQL	0.0252	0.00547	1	6/7/2010	
n-Butylbenzene	BQL	0.00504	0.00096	1	6/7/2010	
sec-Butylbenzene	BQL	0.00504	0.00102	1	6/7/2010	
tert-Butylbenzene	BQL	0.00504	0.00113	1	6/7/2010	
Carbon disulfide	BQL	0.00504	0.00270	1	6/7/2010	
Carbon tetrachloride	BQL	0.00504	0.00103	1	6/7/2010	
Chlorobenzene	BQL	0.00504	0.00120	1	6/7/2010	
Chloroethane	BQL	0.00504	0.00160	1	6/7/2010	
Chloroform	BQL	0.00504	0.00121	1	6/7/2010	
Chloromethane	BQL	0.00504	0.00114	1	6/7/2010	
2-Chlorotoluene	BQL	0.00504	0.00102	1	6/7/2010	
4-Chlorotoluene	BQL	0.00504	0.00126	1	6/7/2010	
Dibromochloromethane	BQL	0.00504	0.00139	1	6/7/2010	
1,2-Dibromo-3-chloropropane	BQL	0.0252	0.00146	1	6/7/2010	
Dibromomethane	BQL	0.00504	0.00152	1	6/7/2010	
1,2-Dibromoethane (EDB)	BQL	0.00504	0.00114	1	6/7/2010	
1,2-Dichlorobenzene	BQL	0.00504	0.00130	1	6/7/2010	
1,3-Dichlorobenzene	BQL	0.00504	0.00129	1	6/7/2010	
1,4-Dichlorobenzene	BQL	0.00504	0.00106	1	6/7/2010	
trans-1,4-Dichloro-2-butene	BQL	0.0252	0.00139	1	6/7/2010	
1,1-Dichloroethane	BQL	0.00504	0.00107	1	6/7/2010	
1,1-Dichloroethene	BQL	0.00504	0.00149	1	6/7/2010	
1,2-Dichloroethane	BQL	0.00504	0.00133	1	6/7/2010	
cis-1,2-Dichloroethene	BQL	0.00504	0.00129	1	6/7/2010	
trans-1,2-dichloroethene	BQL	0.00504	0.00114	1	6/7/2010	
1,2-Dichloropropane	BQL	0.00504	0.00119	1	6/7/2010	
1,3-Dichloropropane	BQL	0.00504	0.00113	1	6/7/2010	
2,2-Dichloropropane	BQL	0.00504	0.00121	1	6/7/2010	
1,1-Dichloropropene	BQL	0.00504	0.00158	1	6/7/2010	
cis-1,3-Dichloropropene	BQL	0.00504	0.00084	1	6/7/2010	
trans-1,3-Dichloropropene	BQL	0.00504	0.00097	1	6/7/2010	
Dichlorodifluoromethane	BQL	0.00504	0.00133	1	6/7/2010	
Diisopropyl ether (DIPE)	BQL	0.00504	0.00114	1	6/7/2010	
Ethylbenzene	BQL	0.00504	0.00087	1	6/7/2010	
Hexachlorobutadiene	BQL	0.00504	0.00098	1	6/7/2010	
2-Hexanone	BQL	0.0126	0.00327	1	6/7/2010	
Iodomethane	BQL	0.00504	0.00109	1	6/7/2010	

**Results for Volatiles
by GCMS 8260-5035**

Client Sample ID: DPT-04 (6-8')
 Client Project ID: NCDOT US 17 ILM Bypass Parcel #59A
 Lab Sample ID G128-2537-4A
 Lab Project ID: G128-2537
 Report Basis: Dry Weight

Analyzed By: DVO
 Date Collected: 05-25-2010 14:15
 Date Received: 5/28/2010
 Matrix: Soil
 Sample Amount: 5.51 g
 %Solids: 90.0

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	MDL MG/KG	Dilution Factor	Date Analyzed	Flag
Isopropylbenzene	BQL	0.00504	0.00090	1	6/7/2010	
4-Isopropyltoluene	BQL	0.00504	0.00108	1	6/7/2010	
Methylene chloride	0.00405	0.0202	0.00120	1	6/7/2010	J
4-Methyl-2-pentanone	BQL	0.0126	0.00467	1	6/7/2010	
Methyl-tert-butyl ether (MTBE)	BQL	0.00504	0.00112	1	6/7/2010	
Naphthalene	BQL	0.00504	0.00086	1	6/7/2010	
n-Propyl benzene	BQL	0.00504	0.00068	1	6/7/2010	
Styrene	BQL	0.00504	0.00111	1	6/7/2010	
1,1,1,2-Tetrachloroethane	BQL	0.00504	0.00103	1	6/7/2010	
1,1,2,2-Tetrachloroethane	BQL	0.00504	0.00114	1	6/7/2010	
Tetrachloroethene	BQL	0.00504	0.00092	1	6/7/2010	
Toluene	BQL	0.00504	0.00101	1	6/7/2010	
1,2,3-Trichlorobenzene	BQL	0.00504	0.00105	1	6/7/2010	
1,2,4-Trichlorobenzene	BQL	0.00504	0.00104	1	6/7/2010	
Trichloroethene	BQL	0.00504	0.00096	1	6/7/2010	
1,1,1-Trichloroethane	BQL	0.00504	0.00114	1	6/7/2010	
1,1,2-Trichloroethane	BQL	0.00504	0.00165	1	6/7/2010	
Trichlorofluoromethane	BQL	0.00504	0.00104	1	6/7/2010	
1,2,3-Trichloropropane	BQL	0.00504	0.00125	1	6/7/2010	
1,2,4-Trimethylbenzene	BQL	0.00504	0.00127	1	6/7/2010	
1,3,5-Trimethylbenzene	BQL	0.00504	0.00115	1	6/7/2010	
Vinyl chloride	BQL	0.00504	0.00137	1	6/7/2010	
m-,p-Xylene	BQL	0.0101	0.00194	1	6/7/2010	
o-Xylene	BQL	0.00504	0.00098	1	6/7/2010	
		Spike Added	Spike Result	Percent Recovered		
1,2-Dichloroethane-d4		0.05	0.0536	107		
Toluene-d8		0.05	0.0495	99		
4-Bromofluorobenzene		0.05	0.043	86		

Comments:

Flags:

BQL = Below Quantitation Limits.
 J = Detected below the quantitation limit.

Analyst:

Reviewed By:

SGS North America, Inc.

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: DPT-05 (2-4')
Client Project ID: NCDOT US 17 ILM Bypass Parcel #59A
Lab Sample ID G128-2537-5A
Lab Project ID: G128-2537
Report Basis: Dry Weight

Analyzed By: DVO
Date Collected: 05-25-2010 14:00
Date Received: 5/28/2010
Matrix: Soil
Sample Amount: 6.32 g
%Solids: 90.8

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	MDL MG/KG	Dilution Factor	Date Analyzed	Flag
Acetone	0.138	0.0436	0.00602	1	6/7/2010	
Benzene	0.00157	0.00436	0.00093	1	6/7/2010	J
Bromobenzene	BQL	0.00436	0.00090	1	6/7/2010	
Bromochloromethane	BQL	0.00436	0.00150	1	6/7/2010	
Bromodichloromethane	BQL	0.00436	0.00086	1	6/7/2010	
Bromoform	BQL	0.00436	0.00087	1	6/7/2010	
Bromomethane	BQL	0.00436	0.00092	1	6/7/2010	
2-Butanone	BQL	0.0218	0.00473	1	6/7/2010	
n-Butylbenzene	BQL	0.00436	0.00083	1	6/7/2010	
sec-Butylbenzene	BQL	0.00436	0.00088	1	6/7/2010	
tert-Butylbenzene	BQL	0.00436	0.00098	1	6/7/2010	
Carbon disulfide	BQL	0.00436	0.00234	1	6/7/2010	
Carbon tetrachloride	BQL	0.00436	0.00089	1	6/7/2010	
Chlorobenzene	BQL	0.00436	0.00104	1	6/7/2010	
Chloroethane	BQL	0.00436	0.00139	1	6/7/2010	
Chloroform	BQL	0.00436	0.00105	1	6/7/2010	
Chloromethane	BQL	0.00436	0.00099	1	6/7/2010	
2-Chlorotoluene	BQL	0.00436	0.00088	1	6/7/2010	
4-Chlorotoluene	BQL	0.00436	0.00109	1	6/7/2010	
Dibromochloromethane	BQL	0.00436	0.00120	1	6/7/2010	
1,2-Dibromo-3-chloropropane	BQL	0.0218	0.00126	1	6/7/2010	
Dibromomethane	BQL	0.00436	0.00132	1	6/7/2010	
1,2-Dibromoethane (EDB)	BQL	0.00436	0.00099	1	6/7/2010	
1,2-Dichlorobenzene	BQL	0.00436	0.00112	1	6/7/2010	
1,3-Dichlorobenzene	BQL	0.00436	0.00112	1	6/7/2010	
1,4-Dichlorobenzene	BQL	0.00436	0.00092	1	6/7/2010	
trans-1,4-Dichloro-2-butene	BQL	0.0218	0.00120	1	6/7/2010	
1,1-Dichloroethane	BQL	0.00436	0.00092	1	6/7/2010	
1,1-Dichloroethene	BQL	0.00436	0.00129	1	6/7/2010	
1,2-Dichloroethane	BQL	0.00436	0.00115	1	6/7/2010	
cis-1,2-Dichloroethene	BQL	0.00436	0.00112	1	6/7/2010	
trans-1,2-dichloroethene	BQL	0.00436	0.00099	1	6/7/2010	
1,2-Dichloropropane	BQL	0.00436	0.00103	1	6/7/2010	
1,3-Dichloropropane	BQL	0.00436	0.00098	1	6/7/2010	
2,2-Dichloropropane	BQL	0.00436	0.00105	1	6/7/2010	
1,1-Dichloropropene	BQL	0.00436	0.00137	1	6/7/2010	
cis-1,3-Dichloropropene	BQL	0.00436	0.00073	1	6/7/2010	
trans-1,3-Dichloropropene	BQL	0.00436	0.00084	1	6/7/2010	
Dichlorodifluoromethane	BQL	0.00436	0.00115	1	6/7/2010	
Diisopropyl ether (DIPE)	BQL	0.00436	0.00099	1	6/7/2010	
Ethylbenzene	BQL	0.00436	0.00076	1	6/7/2010	
Hexachlorobutadiene	BQL	0.00436	0.00085	1	6/7/2010	
2-Hexanone	BQL	0.0109	0.00282	1	6/7/2010	
Iodomethane	BQL	0.00436	0.00094	1	6/7/2010	

SGS North America, Inc.

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: DPT-06 (4-6")
Client Project ID: NCDOT US 17 ILM Bypass Parcel #59A
Lab Sample ID G128-2537-6A
Lab Project ID: G128-2537
Report Basis: Dry Weight

Analyzed By: DVO
Date Collected: 05-25-2010 14:40
Date Received: 5/28/2010
Matrix: Soil
Sample Amount: 5.82 g
%Solids: 82.2

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	MDL MG/KG	Dilution Factor	Date Analyzed	Flag
Acetone	0.0218	0.0523	0.00722	1	6/7/2010	J
Benzene	BQL	0.00523	0.00112	1	6/7/2010	
Bromobenzene	BQL	0.00523	0.00108	1	6/7/2010	
Bromochloromethane	BQL	0.00523	0.00180	1	6/7/2010	
Bromodichloromethane	BQL	0.00523	0.00104	1	6/7/2010	
Bromoform	BQL	0.00523	0.00105	1	6/7/2010	
Bromomethane	BQL	0.00523	0.00110	1	6/7/2010	
2-Butanone	BQL	0.0261	0.00568	1	6/7/2010	
n-Butylbenzene	BQL	0.00523	0.00100	1	6/7/2010	
sec-Butylbenzene	BQL	0.00523	0.00106	1	6/7/2010	
tert-Butylbenzene	BQL	0.00523	0.00117	1	6/7/2010	
Carbon disulfide	BQL	0.00523	0.00280	1	6/7/2010	
Carbon tetrachloride	BQL	0.00523	0.00107	1	6/7/2010	
Chlorobenzene	BQL	0.00523	0.00124	1	6/7/2010	
Chloroethane	BQL	0.00523	0.00166	1	6/7/2010	
Chloroform	BQL	0.00523	0.00125	1	6/7/2010	
Chloromethane	BQL	0.00523	0.00118	1	6/7/2010	
2-Chlorotoluene	BQL	0.00523	0.00106	1	6/7/2010	
4-Chlorotoluene	BQL	0.00523	0.00131	1	6/7/2010	
Dibromochloromethane	BQL	0.00523	0.00144	1	6/7/2010	
1,2-Dibromo-3-chloropropane	BQL	0.0261	0.00152	1	6/7/2010	
Dibromomethane	BQL	0.00523	0.00158	1	6/7/2010	
1,2-Dibromoethane (EDB)	BQL	0.00523	0.00118	1	6/7/2010	
1,2-Dichlorobenzene	BQL	0.00523	0.00135	1	6/7/2010	
1,3-Dichlorobenzene	BQL	0.00523	0.00134	1	6/7/2010	
1,4-Dichlorobenzene	BQL	0.00523	0.00110	1	6/7/2010	
trans-1,4-Dichloro-2-butene	BQL	0.0261	0.00144	1	6/7/2010	
1,1-Dichloroethane	BQL	0.00523	0.00111	1	6/7/2010	
1,1-Dichloroethene	BQL	0.00523	0.00155	1	6/7/2010	
1,2-Dichloroethane	BQL	0.00523	0.00138	1	6/7/2010	
cis-1,2-Dichloroethene	BQL	0.00523	0.00134	1	6/7/2010	
trans-1,2-dichloroethene	BQL	0.00523	0.00118	1	6/7/2010	
1,2-Dichloropropane	BQL	0.00523	0.00123	1	6/7/2010	
1,3-Dichloropropane	BQL	0.00523	0.00117	1	6/7/2010	
2,2-Dichloropropane	BQL	0.00523	0.00125	1	6/7/2010	
1,1-Dichloropropene	BQL	0.00523	0.00164	1	6/7/2010	
cis-1,3-Dichloropropene	BQL	0.00523	0.00087	1	6/7/2010	
trans-1,3-Dichloropropene	BQL	0.00523	0.00101	1	6/7/2010	
Dichlorodifluoromethane	BQL	0.00523	0.00138	1	6/7/2010	
Diisopropyl ether (DIPE)	BQL	0.00523	0.00118	1	6/7/2010	
Ethylbenzene	BQL	0.00523	0.00091	1	6/7/2010	
Hexachlorobutadiene	BQL	0.00523	0.00102	1	6/7/2010	
2-Hexanone	BQL	0.0131	0.00339	1	6/7/2010	
Iodomethane	BQL	0.00523	0.00113	1	6/7/2010	

**Results for Volatiles
by GCMS 8260-5035**

Client Sample ID: DPT-06 (4-6')
 Client Project ID: NCDOT US 17 ILM Bypass Parcel #59A
 Lab Sample ID G128-2537-6A
 Lab Project ID: G128-2537
 Report Basis: Dry Weight

Analyzed By: DVO
 Date Collected: 05-25-2010 14:40
 Date Received: 5/28/2010
 Matrix: Soil
 Sample Amount: 5.82 g
 %Solids: 82.2

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	MDL MG/KG	Dilution Factor	Date Analyzed	Flag
Isopropylbenzene	BQL	0.00523	0.00093	1	6/7/2010	
4-Isopropyltoluene	BQL	0.00523	0.00112	1	6/7/2010	
Methylene chloride	0.00216	0.0209	0.00124	1	6/7/2010	J
4-Methyl-2-pentanone	BQL	0.0131	0.00484	1	6/7/2010	
Methyl-tert-butyl ether (MTBE)	BQL	0.00523	0.00116	1	6/7/2010	
Naphthalene	BQL	0.00523	0.00089	1	6/7/2010	
n-Propyl benzene	BQL	0.00523	0.00071	1	6/7/2010	
Styrene	BQL	0.00523	0.00115	1	6/7/2010	
1,1,1,2-Tetrachloroethane	BQL	0.00523	0.00107	1	6/7/2010	
1,1,2,2-Tetrachloroethane	BQL	0.00523	0.00118	1	6/7/2010	
Tetrachloroethene	BQL	0.00523	0.00096	1	6/7/2010	
Toluene	0.00138	0.00523	0.00104	1	6/7/2010	J
1,2,3-Trichlorobenzene	BQL	0.00523	0.00109	1	6/7/2010	
1,2,4-Trichlorobenzene	BQL	0.00523	0.00108	1	6/7/2010	
Trichloroethene	BQL	0.00523	0.00100	1	6/7/2010	
1,1,1-Trichloroethane	BQL	0.00523	0.00118	1	6/7/2010	
1,1,2-Trichloroethane	BQL	0.00523	0.00171	1	6/7/2010	
Trichlorofluoromethane	BQL	0.00523	0.00108	1	6/7/2010	
1,2,3-Trichloropropane	BQL	0.00523	0.00130	1	6/7/2010	
1,2,4-Trimethylbenzene	BQL	0.00523	0.00132	1	6/7/2010	
1,3,5-Trimethylbenzene	BQL	0.00523	0.00119	1	6/7/2010	
Vinyl chloride	BQL	0.00523	0.00142	1	6/7/2010	
m-,p-Xylene	BQL	0.0105	0.00201	1	6/7/2010	
o-Xylene	BQL	0.00523	0.00101	1	6/7/2010	
		Spike Added	Spike Result	Percent Recovered		
1,2-Dichloroethane-d4		0.05	0.053	106		
Toluene-d8		0.05	0.0498	100		
4-Bromofluorobenzene		0.05	0.0432	86		

Comments:

Flags:

BQL = Below Quantitation Limits.
 J = Detected below the quantitation limit.

Analyst:

Reviewed By:

SGS North America, Inc.

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: DPT-07 (2-4')
Client Project ID: NCDOT US 17 ILM Bypass Parcel #59A
Lab Sample ID G128-2537-7A
Lab Project ID: G128-2537
Report Basis: Dry Weight

Analyzed By: DVO
Date Collected: 05-25-2010 13:45
Date Received: 5/28/2010
Matrix: Soil
Sample Amount: 5 g
%Solids: 88.4

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	MDL MG/KG	Dilution Factor	Date Analyzed	Flag
Acetone	0.0319	0.0566	0.00782	1	6/7/2010	J
Benzene	BQL	0.00566	0.00121	1	6/7/2010	
Bromobenzene	BQL	0.00566	0.00117	1	6/7/2010	
Bromochloromethane	BQL	0.00566	0.00195	1	6/7/2010	
Bromodichloromethane	BQL	0.00566	0.00112	1	6/7/2010	
Bromoform	BQL	0.00566	0.00113	1	6/7/2010	
Bromomethane	BQL	0.00566	0.00119	1	6/7/2010	
2-Butanone	BQL	0.0283	0.00615	1	6/7/2010	
n-Butylbenzene	BQL	0.00566	0.00108	1	6/7/2010	
sec-Butylbenzene	BQL	0.00566	0.00114	1	6/7/2010	
tert-Butylbenzene	BQL	0.00566	0.00127	1	6/7/2010	
Carbon disulfide	BQL	0.00566	0.00303	1	6/7/2010	
Carbon tetrachloride	BQL	0.00566	0.00115	1	6/7/2010	
Chlorobenzene	BQL	0.00566	0.00135	1	6/7/2010	
Chloroethane	BQL	0.00566	0.00180	1	6/7/2010	
Chloroform	BQL	0.00566	0.00136	1	6/7/2010	
Chloromethane	BQL	0.00566	0.00128	1	6/7/2010	
2-Chlorotoluene	BQL	0.00566	0.00114	1	6/7/2010	
4-Chlorotoluene	BQL	0.00566	0.00141	1	6/7/2010	
Dibromochloromethane	BQL	0.00566	0.00156	1	6/7/2010	
1,2-Dibromo-3-chloropropane	BQL	0.0283	0.00164	1	6/7/2010	
Dibromomethane	BQL	0.00566	0.00171	1	6/7/2010	
1,2-Dibromoethane (EDB)	BQL	0.00566	0.00128	1	6/7/2010	
1,2-Dichlorobenzene	BQL	0.00566	0.00146	1	6/7/2010	
1,3-Dichlorobenzene	BQL	0.00566	0.00145	1	6/7/2010	
1,4-Dichlorobenzene	BQL	0.00566	0.00119	1	6/7/2010	
trans-1,4-Dichloro-2-butene	BQL	0.0283	0.00156	1	6/7/2010	
1,1-Dichloroethane	BQL	0.00566	0.00120	1	6/7/2010	
1,1-Dichloroethene	BQL	0.00566	0.00168	1	6/7/2010	
1,2-Dichloroethane	BQL	0.00566	0.00149	1	6/7/2010	
cis-1,2-Dichloroethene	BQL	0.00566	0.00145	1	6/7/2010	
trans-1,2-dichloroethene	BQL	0.00566	0.00128	1	6/7/2010	
1,2-Dichloropropane	BQL	0.00566	0.00134	1	6/7/2010	
1,3-Dichloropropane	BQL	0.00566	0.00127	1	6/7/2010	
2,2-Dichloropropane	BQL	0.00566	0.00136	1	6/7/2010	
1,1-Dichloropropene	BQL	0.00566	0.00178	1	6/7/2010	
cis-1,3-Dichloropropene	BQL	0.00566	0.00094	1	6/7/2010	
trans-1,3-Dichloropropene	BQL	0.00566	0.00109	1	6/7/2010	
Dichlorodifluoromethane	BQL	0.00566	0.00149	1	6/7/2010	
Diisopropyl ether (DIPE)	BQL	0.00566	0.00128	1	6/7/2010	
Ethylbenzene	BQL	0.00566	0.00098	1	6/7/2010	
Hexachlorobutadiene	BQL	0.00566	0.00110	1	6/7/2010	
2-Hexanone	BQL	0.0141	0.00367	1	6/7/2010	
Iodomethane	BQL	0.00566	0.00122	1	6/7/2010	

**Results for Volatiles
by GCMS 8260-5035**

Client Sample ID: DPT-07 (2-4')
 Client Project ID: NCDOT US 17 ILM Bypass Parcel #59A
 Lab Sample ID G128-2537-7A
 Lab Project ID: G128-2537
 Report Basis: Dry Weight

Analyzed By: DVO
 Date Collected: 05-25-2010 13:45
 Date Received: 5/28/2010
 Matrix: Soil
 Sample Amount: 5 g
 %Solids: 88.4

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	MDL MG/KG	Dilution Factor	Date Analyzed	Flag
Isopropylbenzene	BQL	0.00566	0.00101	1	6/7/2010	
4-Isopropyltoluene	BQL	0.00566	0.00121	1	6/7/2010	
Methylene chloride	0.00465	0.0226	0.00135	1	6/7/2010	J
4-Methyl-2-pentanone	BQL	0.0141	0.00524	1	6/7/2010	
Methyl-tert-butyl ether (MTBE)	BQL	0.00566	0.00126	1	6/7/2010	
Naphthalene	BQL	0.00566	0.00096	1	6/7/2010	
n-Propyl benzene	BQL	0.00566	0.00077	1	6/7/2010	
Styrene	BQL	0.00566	0.00125	1	6/7/2010	
1,1,1,2-Tetrachloroethane	BQL	0.00566	0.00115	1	6/7/2010	
1,1,2,2-Tetrachloroethane	BQL	0.00566	0.00128	1	6/7/2010	
Tetrachloroethene	BQL	0.00566	0.00104	1	6/7/2010	
Toluene	BQL	0.00566	0.00113	1	6/7/2010	
1,2,3-Trichlorobenzene	BQL	0.00566	0.00118	1	6/7/2010	
1,2,4-Trichlorobenzene	BQL	0.00566	0.00117	1	6/7/2010	
Trichloroethene	BQL	0.00566	0.00108	1	6/7/2010	
1,1,1-Trichloroethane	BQL	0.00566	0.00128	1	6/7/2010	
1,1,2-Trichloroethane	BQL	0.00566	0.00186	1	6/7/2010	
Trichlorofluoromethane	BQL	0.00566	0.00117	1	6/7/2010	
1,2,3-Trichloropropane	BQL	0.00566	0.00140	1	6/7/2010	
1,2,4-Trimethylbenzene	BQL	0.00566	0.00143	1	6/7/2010	
1,3,5-Trimethylbenzene	BQL	0.00566	0.00129	1	6/7/2010	
Vinyl chloride	BQL	0.00566	0.00154	1	6/7/2010	
m-,p-Xylene	BQL	0.0113	0.00217	1	6/7/2010	
o-Xylene	BQL	0.00566	0.00110	1	6/7/2010	
		Spike Added	Spike Result	Percent Recovered		
1,2-Dichloroethane-d4		0.05	0.0552	110		
Toluene-d8		0.05	0.0499	100		
4-Bromofluorobenzene		0.05	0.0432	86		

Comments:

Flags:

BQL = Below Quantitation Limits.
 J = Detected below the quantitation limit.

Analyst:

Reviewed By:

SGS North America, Inc.

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: DPT-08 (0-2')
Client Project ID: NCDOT US 17 ILM Bypass Parcel #59A
Lab Sample ID G128-2537-8B
Lab Project ID: G128-2537
Report Basis: Dry Weight

Analyzed By: DVO
Date Collected: 05-25-2010 13:55
Date Received: 5/28/2010
Matrix: Soil
Sample Amount: 6.13 g
%Solids: 93.1

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	MDL MG/KG	Dilution Factor	Date Analyzed	Flag
Acetone	0.0391	0.0438	0.00606	1	6/7/2010	J
Benzene	BQL	0.00438	0.00094	1	6/7/2010	
Bromobenzene	BQL	0.00438	0.00090	1	6/7/2010	
Bromochloromethane	BQL	0.00438	0.00151	1	6/7/2010	
Bromodichloromethane	BQL	0.00438	0.00087	1	6/7/2010	
Bromoform	BQL	0.00438	0.00088	1	6/7/2010	
Bromomethane	BQL	0.00438	0.00092	1	6/7/2010	
2-Butanone	BQL	0.0219	0.00476	1	6/7/2010	
n-Butylbenzene	BQL	0.00438	0.00084	1	6/7/2010	
sec-Butylbenzene	BQL	0.00438	0.00089	1	6/7/2010	
tert-Butylbenzene	BQL	0.00438	0.00098	1	6/7/2010	
Carbon disulfide	BQL	0.00438	0.00235	1	6/7/2010	
Carbon tetrachloride	BQL	0.00438	0.00089	1	6/7/2010	
Chlorobenzene	BQL	0.00438	0.00104	1	6/7/2010	
Chloroethane	BQL	0.00438	0.00139	1	6/7/2010	
Chloroform	BQL	0.00438	0.00105	1	6/7/2010	
Chloromethane	BQL	0.00438	0.00099	1	6/7/2010	
2-Chlorotoluene	BQL	0.00438	0.00089	1	6/7/2010	
4-Chlorotoluene	BQL	0.00438	0.00110	1	6/7/2010	
Dibromochloromethane	BQL	0.00438	0.00121	1	6/7/2010	
1,2-Dibromo-3-chloropropane	BQL	0.0219	0.00127	1	6/7/2010	
Dibromomethane	BQL	0.00438	0.00132	1	6/7/2010	
1,2-Dibromoethane (EDB)	BQL	0.00438	0.00099	1	6/7/2010	
1,2-Dichlorobenzene	BQL	0.00438	0.00113	1	6/7/2010	
1,3-Dichlorobenzene	BQL	0.00438	0.00112	1	6/7/2010	
1,4-Dichlorobenzene	BQL	0.00438	0.00092	1	6/7/2010	
trans-1,4-Dichloro-2-butene	BQL	0.0219	0.00121	1	6/7/2010	
1,1-Dichloroethane	BQL	0.00438	0.00093	1	6/7/2010	
1,1-Dichloroethene	BQL	0.00438	0.00130	1	6/7/2010	
1,2-Dichloroethane	BQL	0.00438	0.00116	1	6/7/2010	
cis-1,2-Dichloroethene	BQL	0.00438	0.00112	1	6/7/2010	
trans-1,2-dichloroethene	BQL	0.00438	0.00099	1	6/7/2010	
1,2-Dichloropropane	BQL	0.00438	0.00103	1	6/7/2010	
1,3-Dichloropropane	BQL	0.00438	0.00098	1	6/7/2010	
2,2-Dichloropropane	BQL	0.00438	0.00105	1	6/7/2010	
1,1-Dichloropropene	BQL	0.00438	0.00138	1	6/7/2010	
cis-1,3-Dichloropropene	BQL	0.00438	0.00073	1	6/7/2010	
trans-1,3-Dichloropropene	BQL	0.00438	0.00084	1	6/7/2010	
Dichlorodifluoromethane	BQL	0.00438	0.00116	1	6/7/2010	
Diisopropyl ether (DIPE)	BQL	0.00438	0.00099	1	6/7/2010	
Ethylbenzene	BQL	0.00438	0.00076	1	6/7/2010	
Hexachlorobutadiene	BQL	0.00438	0.00085	1	6/7/2010	
2-Hexanone	BQL	0.0110	0.00284	1	6/7/2010	
Iodomethane	BQL	0.00438	0.00095	1	6/7/2010	

**Results for Volatiles
by GCMS 8260-5035**

Client Sample ID: DPT-08 (0-2')
 Client Project ID: NCDOT US 17 ILM Bypass Parcel #59A
 Lab Sample ID G128-2537-8B
 Lab Project ID: G128-2537
 Report Basis: Dry Weight

Analyzed By: DVO
 Date Collected: 05-25-2010 13:55
 Date Received: 5/28/2010
 Matrix: Soil
 Sample Amount: 6.13 g
 %Solids: 93.1

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	MDL MG/KG	Dilution Factor	Date Analyzed	Flag
Isopropylbenzene	BQL	0.00438	0.00078	1	6/7/2010	
4-Isopropyltoluene	BQL	0.00438	0.00094	1	6/7/2010	
Methylene chloride	0.00457	0.0175	0.00104	1	6/7/2010	J
4-Methyl-2-pentanone	BQL	0.0110	0.00406	1	6/7/2010	
Methyl-tert-butyl ether (MTBE)	BQL	0.00438	0.00097	1	6/7/2010	
Naphthalene	BQL	0.00438	0.00075	1	6/7/2010	
n-Propyl benzene	BQL	0.00438	0.00059	1	6/7/2010	
Styrene	BQL	0.00438	0.00096	1	6/7/2010	
1,1,1,2-Tetrachloroethane	BQL	0.00438	0.00089	1	6/7/2010	
1,1,2,2-Tetrachloroethane	BQL	0.00438	0.00099	1	6/7/2010	
Tetrachloroethene	BQL	0.00438	0.00080	1	6/7/2010	
Toluene	BQL	0.00438	0.00087	1	6/7/2010	
1,2,3-Trichlorobenzene	BQL	0.00438	0.00091	1	6/7/2010	
1,2,4-Trichlorobenzene	BQL	0.00438	0.00090	1	6/7/2010	
Trichloroethene	BQL	0.00438	0.00084	1	6/7/2010	
1,1,1-Trichloroethane	BQL	0.00438	0.00099	1	6/7/2010	
1,1,2-Trichloroethane	BQL	0.00438	0.00144	1	6/7/2010	
Trichlorofluoromethane	BQL	0.00438	0.00090	1	6/7/2010	
1,2,3-Trichloropropane	BQL	0.00438	0.00109	1	6/7/2010	
1,2,4-Trimethylbenzene	BQL	0.00438	0.00110	1	6/7/2010	
1,3,5-Trimethylbenzene	BQL	0.00438	0.00100	1	6/7/2010	
Vinyl chloride	BQL	0.00438	0.00119	1	6/7/2010	
m-,p-Xylene	BQL	0.00876	0.00168	1	6/7/2010	
o-Xylene	BQL	0.00438	0.00085	1	6/7/2010	
		Spike Added	Spike Result	Percent Recovered		
1,2-Dichloroethane-d4		0.05	0.0537	107		
Toluene-d8		0.05	0.0489	98		
4-Bromofluorobenzene		0.05	0.0431	86		

Comments:

Flags:

BQL = Below Quantitation Limits.
 J = Detected below the quantitation limit.

Analyst:

Reviewed By:

SGS North America, Inc.

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: DPT-09 (0-2')
Client Project ID: NCDOT US 17 ILM Bypass Parcel #59A
Lab Sample ID G128-2537-9A
Lab Project ID: G128-2537
Report Basis: Dry Weight

Analyzed By: DVO
Date Collected: 05-25-2010 15:30
Date Received: 5/28/2010
Matrix: Soil
Sample Amount: 6.55 g
%Solids: 89.8

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	MDL MG/KG	Dilution Factor	Date Analyzed	Flag
Acetone	0.0246	0.0424	0.00586	1	6/7/2010	J
Benzene	BQL	0.00424	0.00091	1	6/7/2010	
Bromobenzene	BQL	0.00424	0.00087	1	6/7/2010	
Bromochloromethane	BQL	0.00424	0.00146	1	6/7/2010	
Bromodichloromethane	BQL	0.00424	0.00084	1	6/7/2010	
Bromoform	BQL	0.00424	0.00085	1	6/7/2010	
Bromomethane	BQL	0.00424	0.00089	1	6/7/2010	
2-Butanone	BQL	0.0212	0.00461	1	6/7/2010	
n-Butylbenzene	BQL	0.00424	0.00081	1	6/7/2010	
sec-Butylbenzene	BQL	0.00424	0.00086	1	6/7/2010	
tert-Butylbenzene	BQL	0.00424	0.00095	1	6/7/2010	
Carbon disulfide	BQL	0.00424	0.00227	1	6/7/2010	
Carbon tetrachloride	BQL	0.00424	0.00087	1	6/7/2010	
Chlorobenzene	BQL	0.00424	0.00101	1	6/7/2010	
Chloroethane	BQL	0.00424	0.00135	1	6/7/2010	
Chloroform	BQL	0.00424	0.00102	1	6/7/2010	
Chloromethane	BQL	0.00424	0.00096	1	6/7/2010	
2-Chlorotoluene	BQL	0.00424	0.00086	1	6/7/2010	
4-Chlorotoluene	BQL	0.00424	0.00106	1	6/7/2010	
Dibromochloromethane	BQL	0.00424	0.00117	1	6/7/2010	
1,2-Dibromo-3-chloropropane	BQL	0.0212	0.00123	1	6/7/2010	
Dibromomethane	BQL	0.00424	0.00128	1	6/7/2010	
1,2-Dibromoethane (EDB)	BQL	0.00424	0.00096	1	6/7/2010	
1,2-Dichlorobenzene	BQL	0.00424	0.00109	1	6/7/2010	
1,3-Dichlorobenzene	BQL	0.00424	0.00109	1	6/7/2010	
1,4-Dichlorobenzene	BQL	0.00424	0.00089	1	6/7/2010	
trans-1,4-Dichloro-2-butene	BQL	0.0212	0.00117	1	6/7/2010	
1,1-Dichloroethane	BQL	0.00424	0.00090	1	6/7/2010	
1,1-Dichloroethene	BQL	0.00424	0.00126	1	6/7/2010	
1,2-Dichloroethane	BQL	0.00424	0.00112	1	6/7/2010	
cis-1,2-Dichloroethene	BQL	0.00424	0.00109	1	6/7/2010	
trans-1,2-dichloroethene	BQL	0.00424	0.00096	1	6/7/2010	
1,2-Dichloropropane	BQL	0.00424	0.00100	1	6/7/2010	
1,3-Dichloropropane	BQL	0.00424	0.00095	1	6/7/2010	
2,2-Dichloropropane	BQL	0.00424	0.00102	1	6/7/2010	
1,1-Dichloropropene	BQL	0.00424	0.00133	1	6/7/2010	
cis-1,3-Dichloropropene	BQL	0.00424	0.00071	1	6/7/2010	
trans-1,3-Dichloropropene	BQL	0.00424	0.00082	1	6/7/2010	
Dichlorodifluoromethane	BQL	0.00424	0.00112	1	6/7/2010	
Diisopropyl ether (DIPE)	BQL	0.00424	0.00096	1	6/7/2010	
Ethylbenzene	BQL	0.00424	0.00074	1	6/7/2010	
Hexachlorobutadiene	BQL	0.00424	0.00083	1	6/7/2010	
2-Hexanone	BQL	0.0106	0.00275	1	6/7/2010	
Iodomethane	BQL	0.00424	0.00092	1	6/7/2010	

SGS North America, Inc.

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: DPT-09 (0-2')
Client Project ID: NCDOT US 17 ILM Bypass Parcel #59A
Lab Sample ID G128-2537-9A
Lab Project ID: G128-2537
Report Basis: Dry Weight

Analyzed By: DVO
Date Collected: 05-25-2010 15:30
Date Received: 5/28/2010
Matrix: Soil
Sample Amount: 6.55 g
%Solids: 89.8

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	MDL MG/KG	Dilution Factor	Date Analyzed	Flag
Isopropylbenzene	BQL	0.00424	0.00075	1	6/7/2010	
4-Isopropyltoluene	BQL	0.00424	0.00091	1	6/7/2010	
Methylene chloride	0.00257	0.0170	0.00101	1	6/7/2010	J
4-Methyl-2-pentanone	BQL	0.0106	0.00393	1	6/7/2010	
Methyl-tert-butyl ether (MTBE)	BQL	0.00424	0.00094	1	6/7/2010	
Naphthalene	BQL	0.00424	0.00072	1	6/7/2010	
n-Propyl benzene	BQL	0.00424	0.00057	1	6/7/2010	
Styrene	BQL	0.00424	0.00093	1	6/7/2010	
1,1,1,2-Tetrachloroethane	BQL	0.00424	0.00087	1	6/7/2010	
1,1,2,2-Tetrachloroethane	BQL	0.00424	0.00096	1	6/7/2010	
Tetrachloroethene	BQL	0.00424	0.00078	1	6/7/2010	
Toluene	BQL	0.00424	0.00085	1	6/7/2010	
1,2,3-Trichlorobenzene	BQL	0.00424	0.00088	1	6/7/2010	
1,2,4-Trichlorobenzene	BQL	0.00424	0.00087	1	6/7/2010	
Trichloroethene	BQL	0.00424	0.00081	1	6/7/2010	
1,1,1-Trichloroethane	BQL	0.00424	0.00096	1	6/7/2010	
1,1,2-Trichloroethane	BQL	0.00424	0.00139	1	6/7/2010	
Trichlorofluoromethane	BQL	0.00424	0.00087	1	6/7/2010	
1,2,3-Trichloropropane	BQL	0.00424	0.00105	1	6/7/2010	
1,2,4-Trimethylbenzene	BQL	0.00424	0.00107	1	6/7/2010	
1,3,5-Trimethylbenzene	BQL	0.00424	0.00097	1	6/7/2010	
Vinyl chloride	BQL	0.00424	0.00115	1	6/7/2010	
m-,p-Xylene	BQL	0.00848	0.00163	1	6/7/2010	
o-Xylene	BQL	0.00424	0.00082	1	6/7/2010	
		Spike Added	Spike Result	Percent Recovered		
1,2-Dichloroethane-d4		0.05	0.0559	112		
Toluene-d8		0.05	0.0495	99		
4-Bromofluorobenzene		0.05	0.0427	85		

Comments:

Flags:

BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Analyst:

Reviewed By:

SGS North America, Inc.

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: DPT-10 (0-2')
Client Project ID: NCDOT US 17 ILM Bypass Parcel #59A
Lab Sample ID G128-2537-10A
Lab Project ID: G128-2537
Report Basis: Dry Weight

Analyzed By: DVO
Date Collected: 05-25-2010 15:00
Date Received: 5/28/2010
Matrix: Soil
Sample Amount: 5.21 g
%Solids: 84.9

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	MDL MG/KG	Dilution Factor	Date Analyzed	Flag
Acetone	0.0493	0.0565	0.00781	1	6/7/2010	J
Benzene	BQL	0.00565	0.00121	1	6/7/2010	
Bromobenzene	BQL	0.00565	0.00116	1	6/7/2010	
Bromochloromethane	BQL	0.00565	0.00194	1	6/7/2010	
Bromodichloromethane	BQL	0.00565	0.00112	1	6/7/2010	
Bromoform	BQL	0.00565	0.00113	1	6/7/2010	
Bromomethane	BQL	0.00565	0.00119	1	6/7/2010	
2-Butanone	BQL	0.0283	0.00614	1	6/7/2010	
n-Butylbenzene	BQL	0.00565	0.00108	1	6/7/2010	
sec-Butylbenzene	BQL	0.00565	0.00114	1	6/7/2010	
tert-Butylbenzene	BQL	0.00565	0.00127	1	6/7/2010	
Carbon disulfide	BQL	0.00565	0.00303	1	6/7/2010	
Carbon tetrachloride	BQL	0.00565	0.00115	1	6/7/2010	
Chlorobenzene	BQL	0.00565	0.00134	1	6/7/2010	
Chloroethane	BQL	0.00565	0.00180	1	6/7/2010	
Chloroform	BQL	0.00565	0.00136	1	6/7/2010	
Chloromethane	BQL	0.00565	0.00128	1	6/7/2010	
2-Chlorotoluene	BQL	0.00565	0.00114	1	6/7/2010	
4-Chlorotoluene	BQL	0.00565	0.00141	1	6/7/2010	
Dibromochloromethane	BQL	0.00565	0.00156	1	6/7/2010	
1,2-Dibromo-3-chloropropane	BQL	0.0283	0.00164	1	6/7/2010	
Dibromomethane	BQL	0.00565	0.00171	1	6/7/2010	
1,2-Dibromoethane (EDB)	BQL	0.00565	0.00128	1	6/7/2010	
1,2-Dichlorobenzene	BQL	0.00565	0.00146	1	6/7/2010	
1,3-Dichlorobenzene	BQL	0.00565	0.00145	1	6/7/2010	
1,4-Dichlorobenzene	BQL	0.00565	0.00119	1	6/7/2010	
trans-1,4-Dichloro-2-butene	BQL	0.0283	0.00156	1	6/7/2010	
1,1-Dichloroethane	BQL	0.00565	0.00120	1	6/7/2010	
1,1-Dichloroethene	BQL	0.00565	0.00167	1	6/7/2010	
1,2-Dichloroethane	BQL	0.00565	0.00149	1	6/7/2010	
cis-1,2-Dichloroethene	BQL	0.00565	0.00145	1	6/7/2010	
trans-1,2-dichloroethene	BQL	0.00565	0.00128	1	6/7/2010	
1,2-Dichloropropane	BQL	0.00565	0.00133	1	6/7/2010	
1,3-Dichloropropane	BQL	0.00565	0.00127	1	6/7/2010	
2,2-Dichloropropane	BQL	0.00565	0.00136	1	6/7/2010	
1,1-Dichloropropene	BQL	0.00565	0.00177	1	6/7/2010	
cis-1,3-Dichloropropene	BQL	0.00565	0.00094	1	6/7/2010	
trans-1,3-Dichloropropene	BQL	0.00565	0.00109	1	6/7/2010	
Dichlorodifluoromethane	BQL	0.00565	0.00149	1	6/7/2010	
Diisopropyl ether (DIPE)	BQL	0.00565	0.00128	1	6/7/2010	
Ethylbenzene	BQL	0.00565	0.00098	1	6/7/2010	
Hexachlorobutadiene	BQL	0.00565	0.00110	1	6/7/2010	
2-Hexanone	BQL	0.0141	0.00366	1	6/7/2010	
Iodomethane	BQL	0.00565	0.00122	1	6/7/2010	

**Results for Volatiles
by GCMS 8260-5035**

Client Sample ID: DPT-10 (0-2')
 Client Project ID: NCDOT US 17 ILM Bypass Parcel #59A
 Lab Sample ID G128-2537-10A
 Lab Project ID: G128-2537
 Report Basis: Dry Weight

Analyzed By: DVO
 Date Collected: 05-25-2010 15:00
 Date Received: 5/28/2010
 Matrix: Soil
 Sample Amount: 5.21 g
 %Solids: 84.9

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	MDL MG/KG	Dilution Factor	Date Analyzed	Flag
Isopropylbenzene	BQL	0.00565	0.00100	1	6/7/2010	
4-Isopropyltoluene	BQL	0.00565	0.00121	1	6/7/2010	
Methylene chloride	0.00502	0.0226	0.00134	1	6/7/2010	J
4-Methyl-2-pentanone	BQL	0.0141	0.00523	1	6/7/2010	
Methyl-tert-butyl ether (MTBE)	BQL	0.00565	0.00125	1	6/7/2010	
Naphthalene	BQL	0.00565	0.00096	1	6/7/2010	
n-Propyl benzene	BQL	0.00565	0.00077	1	6/7/2010	
Styrene	BQL	0.00565	0.00124	1	6/7/2010	
1,1,1,2-Tetrachloroethane	BQL	0.00565	0.00115	1	6/7/2010	
1,1,2,2-Tetrachloroethane	BQL	0.00565	0.00128	1	6/7/2010	
Tetrachloroethene	BQL	0.00565	0.00104	1	6/7/2010	
Toluene	BQL	0.00565	0.00113	1	6/7/2010	
1,2,3-Trichlorobenzene	BQL	0.00565	0.00118	1	6/7/2010	
1,2,4-Trichlorobenzene	BQL	0.00565	0.00116	1	6/7/2010	
Trichloroethene	BQL	0.00565	0.00108	1	6/7/2010	
1,1,1-Trichloroethane	BQL	0.00565	0.00128	1	6/7/2010	
1,1,2-Trichloroethane	BQL	0.00565	0.00185	1	6/7/2010	
Trichlorofluoromethane	BQL	0.00565	0.00116	1	6/7/2010	
1,2,3-Trichloropropane	BQL	0.00565	0.00140	1	6/7/2010	
1,2,4-Trimethylbenzene	BQL	0.00565	0.00142	1	6/7/2010	
1,3,5-Trimethylbenzene	BQL	0.00565	0.00129	1	6/7/2010	
Vinyl chloride	BQL	0.00565	0.00154	1	6/7/2010	
m-,p-Xylene	BQL	0.0113	0.00217	1	6/7/2010	
o-Xylene	BQL	0.00565	0.00110	1	6/7/2010	
		Spike Added	Spike Result	Percent Recovered		
1,2-Dichloroethane-d4		0.05	0.0562	112		
Toluene-d8		0.05	0.0481	96		
4-Bromofluorobenzene		0.05	0.0422	84		

Comments:

Flags:

BQL = Below Quantitation Limits.
 J = Detected below the quantitation limit.

Analyst:

Reviewed By:

SGS North America, Inc.

Results for Volatiles
by GCMS 8260

Client Sample ID: DPT-09
Client Project ID: NCDOT US 17 ILM Bypass Parcel #59A
Lab Sample ID: G128-2537-11B
Lab Project ID: G128-2537

Analyzed By: DVO
Date Collected: 5/25/2010 15:30
Date Received: 5/28/2010
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Acetone	BQL	25.0	2.18	1	6/5/2010	
Benzene	BQL	1.00	0.0650	1	6/5/2010	
Bromobenzene	BQL	1.00	0.0560	1	6/5/2010	
Bromochloromethane	BQL	1.00	0.101	1	6/5/2010	
Bromodichloromethane	BQL	1.00	0.0760	1	6/5/2010	
Bromoform	BQL	1.00	0.120	1	6/5/2010	
Bromomethane	BQL	1.00	0.133	1	6/5/2010	
2-Butanone	BQL	25.0	0.544	1	6/5/2010	
n-Butylbenzene	BQL	1.00	0.109	1	6/5/2010	
sec-Butylbenzene	BQL	1.00	0.0840	1	6/5/2010	
tert-Butylbenzene	BQL	1.00	0.0500	1	6/5/2010	
Carbon disulfide	BQL	1.00	0.0690	1	6/5/2010	
Carbon tetrachloride	BQL	1.00	0.0870	1	6/5/2010	
Chlorobenzene	BQL	1.00	0.0820	1	6/5/2010	
Chloroethane	BQL	1.00	0.106	1	6/5/2010	
Chloroform	BQL	1.00	0.0790	1	6/5/2010	
Chloromethane	BQL	1.00	0.146	1	6/5/2010	
2-Chlorotoluene	BQL	1.00	0.0990	1	6/5/2010	
4-Chlorotoluene	BQL	1.00	0.0800	1	6/5/2010	
Dibromochloromethane	BQL	1.00	0.0900	1	6/5/2010	
1,2-Dibromo-3-chloropropane	BQL	5.00	1.21	1	6/5/2010	
Dibromomethane	BQL	1.00	0.113	1	6/5/2010	
1,2-Dibromoethane (EDB)	BQL	1.00	0.124	1	6/5/2010	
1,2-Dichlorobenzene	BQL	1.00	0.127	1	6/5/2010	
1,3-Dichlorobenzene	BQL	1.00	0.0810	1	6/5/2010	
1,4-Dichlorobenzene	BQL	1.00	0.0790	1	6/5/2010	
trans-1,4-Dichloro-2-butene	BQL	5.00	0.630	1	6/5/2010	
1,1-Dichloroethane	BQL	1.00	0.0740	1	6/5/2010	
1,1-Dichloroethene	BQL	1.00	0.0890	1	6/5/2010	
1,2-Dichloroethane	BQL	1.00	0.0790	1	6/5/2010	
cis-1,2-Dichloroethene	BQL	1.00	0.0650	1	6/5/2010	
trans-1,2-dichloroethene	BQL	1.00	0.0890	1	6/5/2010	
1,2-Dichloropropane	BQL	1.00	0.0940	1	6/5/2010	
1,3-Dichloropropane	BQL	1.00	0.127	1	6/5/2010	
2,2-Dichloropropane	BQL	1.00	0.0590	1	6/5/2010	
1,1-Dichloropropene	BQL	1.00	0.0720	1	6/5/2010	
cis-1,3-Dichloropropene	BQL	1.00	0.0760	1	6/5/2010	
trans-1,3-Dichloropropene	BQL	1.00	0.0760	1	6/5/2010	
Dichlorodifluoromethane	BQL	5.00	0.0940	1	6/5/2010	
Diisopropyl ether (DIPE)	BQL	1.00	0.0730	1	6/5/2010	
Ethylbenzene	BQL	1.00	0.0770	1	6/5/2010	
Hexachlorobutadiene	BQL	1.00	0.228	1	6/5/2010	
2-Hexanone	BQL	5.00	0.720	1	6/5/2010	
Iodomethane	BQL	1.00	0.0420	1	6/5/2010	
Isopropylbenzene	BQL	1.00	0.0710	1	6/5/2010	

SGS North America, Inc.

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: Trip Blank (Not on COC)
Client Project ID: NCDOT US 17 ILM Bypass Parcel #59A
Lab Sample ID G128-2537-13A
Lab Project ID: G128-2537
Report Basis: 0.0

Analyzed By: DVO
Date Collected: 05-25-2010 00:00
Date Received: 5/28/2010
Matrix: Soil
Sample Amount: 5 g
%Solids: 100.0

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	MDL MG/KG	Dilution Factor	Date Analyzed	Flag
Acetone	BQL	0.0500	0.00691	1	6/7/2010	
Benzene	BQL	0.00500	0.00107	1	6/7/2010	
Bromobenzene	BQL	0.00500	0.00103	1	6/7/2010	
Bromochloromethane	BQL	0.00500	0.00172	1	6/7/2010	
Bromodichloromethane	BQL	0.00500	0.00099	1	6/7/2010	
Bromoform	BQL	0.00500	0.00100	1	6/7/2010	
Bromomethane	BQL	0.00500	0.00105	1	6/7/2010	
2-Butanone	BQL	0.0250	0.00543	1	6/7/2010	
n-Butylbenzene	BQL	0.00500	0.00096	1	6/7/2010	
sec-Butylbenzene	BQL	0.00500	0.00101	1	6/7/2010	
tert-Butylbenzene	BQL	0.00500	0.00112	1	6/7/2010	
Carbon disulfide	BQL	0.00500	0.00268	1	6/7/2010	
Carbon tetrachloride	BQL	0.00500	0.00102	1	6/7/2010	
Chlorobenzene	BQL	0.00500	0.00119	1	6/7/2010	
Chloroethane	BQL	0.00500	0.00159	1	6/7/2010	
Chloroform	BQL	0.00500	0.00120	1	6/7/2010	
Chloromethane	BQL	0.00500	0.00113	1	6/7/2010	
2-Chlorotoluene	BQL	0.00500	0.00101	1	6/7/2010	
4-Chlorotoluene	BQL	0.00500	0.00125	1	6/7/2010	
Dibromochloromethane	BQL	0.00500	0.00138	1	6/7/2010	
1,2-Dibromo-3-chloropropane	BQL	0.0250	0.00145	1	6/7/2010	
Dibromomethane	BQL	0.00500	0.00151	1	6/7/2010	
1,2-Dibromoethane (EDB)	BQL	0.00500	0.00113	1	6/7/2010	
1,2-Dichlorobenzene	BQL	0.00500	0.00129	1	6/7/2010	
1,3-Dichlorobenzene	BQL	0.00500	0.00128	1	6/7/2010	
1,4-Dichlorobenzene	BQL	0.00500	0.00105	1	6/7/2010	
trans-1,4-Dichloro-2-butene	BQL	0.0250	0.00138	1	6/7/2010	
1,1-Dichloroethane	BQL	0.00500	0.00106	1	6/7/2010	
1,1-Dichloroethene	BQL	0.00500	0.00148	1	6/7/2010	
1,2-Dichloroethane	BQL	0.00500	0.00132	1	6/7/2010	
cis-1,2-Dichloroethene	BQL	0.00500	0.00128	1	6/7/2010	
trans-1,2-dichloroethene	BQL	0.00500	0.00113	1	6/7/2010	
1,2-Dichloropropane	BQL	0.00500	0.00118	1	6/7/2010	
1,3-Dichloropropane	BQL	0.00500	0.00112	1	6/7/2010	
2,2-Dichloropropane	BQL	0.00500	0.00120	1	6/7/2010	
1,1-Dichloropropene	BQL	0.00500	0.00157	1	6/7/2010	
cis-1,3-Dichloropropene	BQL	0.00500	0.00083	1	6/7/2010	
trans-1,3-Dichloropropene	BQL	0.00500	0.00096	1	6/7/2010	
Dichlorodifluoromethane	BQL	0.00500	0.00132	1	6/7/2010	
Diisopropyl ether (DIPE)	BQL	0.00500	0.00113	1	6/7/2010	
Ethylbenzene	BQL	0.00500	0.00087	1	6/7/2010	
Hexachlorobutadiene	BQL	0.00500	0.00098	1	6/7/2010	
2-Hexanone	BQL	0.0125	0.00324	1	6/7/2010	
Iodomethane	BQL	0.00500	0.00108	1	6/7/2010	

SGS North America, Inc.

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: Trip Blank (Not on COC)
Client Project ID: NCDOT US 17 ILM Bypass Parcel #59A
Lab Sample ID G128-2537-13A
Lab Project ID: G128-2537
Report Basis: 0.0

Analyzed By: DVO
Date Collected: 05-25-2010 00:00
Date Received: 5/28/2010
Matrix: Soil
Sample Amount: 5 g
%Solids: 100.0

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	MDL MG/KG	Dilution Factor	Date Analyzed	Flag
Isopropylbenzene	BQL	0.00500	0.00089	1	6/7/2010	
4-Isopropyltoluene	BQL	0.00500	0.00107	1	6/7/2010	
Methylene chloride	0.00633	0.0200	0.00119	1	6/7/2010	J
4-Methyl-2-pentanone	BQL	0.0125	0.00463	1	6/7/2010	
Methyl-tert-butyl ether (MTBE)	BQL	0.00500	0.00111	1	6/7/2010	
Naphthalene	BQL	0.00500	0.00085	1	6/7/2010	
n-Propyl benzene	BQL	0.00500	0.00068	1	6/7/2010	
Styrene	BQL	0.00500	0.00110	1	6/7/2010	
1,1,1,2-Tetrachloroethane	BQL	0.00500	0.00102	1	6/7/2010	
1,1,2,2-Tetrachloroethane	BQL	0.00500	0.00113	1	6/7/2010	
Tetrachloroethene	BQL	0.00500	0.00092	1	6/7/2010	
Toluene	0.00112	0.00500	0.00100	1	6/7/2010	J
1,2,3-Trichlorobenzene	BQL	0.00500	0.00104	1	6/7/2010	
1,2,4-Trichlorobenzene	BQL	0.00500	0.00103	1	6/7/2010	
Trichloroethene	BQL	0.00500	0.00095	1	6/7/2010	
1,1,1-Trichloroethane	BQL	0.00500	0.00113	1	6/7/2010	
1,1,2-Trichloroethane	BQL	0.00500	0.00164	1	6/7/2010	
Trichlorofluoromethane	BQL	0.00500	0.00103	1	6/7/2010	
1,2,3-Trichloropropane	BQL	0.00500	0.00124	1	6/7/2010	
1,2,4-Trimethylbenzene	BQL	0.00500	0.00126	1	6/7/2010	
1,3,5-Trimethylbenzene	BQL	0.00500	0.00114	1	6/7/2010	
Vinyl chloride	BQL	0.00500	0.00136	1	6/7/2010	
m-,p-Xylene	BQL	0.0100	0.00192	1	6/7/2010	
o-Xylene	BQL	0.00500	0.00097	1	6/7/2010	

	Spike Added	Spike Result	Percent Recovered
1,2-Dichloroethane-d4	0.05	0.0543	109
Toluene-d8	0.05	0.0497	99
4-Bromofluorobenzene	0.05	0.0428	86

Comments:

Flags:

BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Analyst:

Reviewed By:

**Results for Semivolatiles
by GCMS 8270**

Client Sample ID: DPT-01 (14-16')
 Client Project ID: NCDOT US 17 ILM Bypass Parcel #59A
 Lab Sample ID: G128-2537-1H
 Lab Project ID: G128-2537
 Report Basis: Dry weight
 Initial Weight: 33.53 g

Analyzed By: DCS
 Date Collected: 5/25/2010 13:15
 Date Received: 5/28/2010
 Date Extracted: 6/3/2010
 Matrix: Soil
 % Solids: 75.84

Compound	Result mg/Kg	RL mg/Kg	MDL mg/Kg	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	0.393	0.060	1	6/4/2010	
Acenaphthylene	BQL	0.393	0.055	1	6/4/2010	
Anthracene	BQL	0.393	0.054	1	6/4/2010	
Benzo[a]anthracene	BQL	0.393	0.054	1	6/4/2010	
Benzo[a]pyrene	BQL	0.393	0.057	1	6/4/2010	
Benzo[b]fluoranthene	BQL	0.393	0.055	1	6/4/2010	
Benzo[g,h,i]perylene	BQL	0.393	0.068	1	6/4/2010	
Benzo[k]fluoranthene	BQL	0.393	0.056	1	6/4/2010	
Benzoic Acid	BQL	1.97	0.486	1	6/4/2010	
Bis(2-chloroethoxy)methane	BQL	0.393	0.058	1	6/4/2010	
Bis(2-chloroethyl)ether	BQL	0.393	0.080	1	6/4/2010	
Bis(2-chloroisopropyl)ether	BQL	0.393	0.063	1	6/4/2010	
Bis(2-ethylhexyl)phthalate	BQL	0.393	0.060	1	6/4/2010	
4-bromophenyl phenyl ether	BQL	0.393	0.070	1	6/4/2010	
Butylbenzylphthalate	BQL	0.393	0.058	1	6/4/2010	
2-Chloronaphthalene	BQL	0.393	0.055	1	6/4/2010	
2-Chlorophenol	BQL	0.393	0.050	1	6/4/2010	
4-Chloro-3-methylphenol	BQL	0.393	0.057	1	6/4/2010	
4-Chloroaniline	BQL	1.97	0.064	1	6/4/2010	
4-Chlorophenyl phenyl ether	BQL	0.393	0.058	1	6/4/2010	
Chrysene	BQL	0.393	0.038	1	6/4/2010	
Dibenzo[a,h]anthracene	BQL	0.393	0.050	1	6/4/2010	
Dibenzofuran	BQL	0.393	0.055	1	6/4/2010	
Di-n-Butylphthalate	BQL	0.393	0.057	1	6/4/2010	
1,2-Dichlorobenzene	BQL	0.393	0.067	1	6/4/2010	
1,3-Dichlorobenzene	BQL	0.393	0.064	1	6/4/2010	
1,4-Dichlorobenzene	BQL	0.393	0.057	1	6/4/2010	
3,3'-Dichlorobenzidine	BQL	0.786	0.065	1	6/4/2010	
2,4-Dichlorophenol	BQL	0.393	0.043	1	6/4/2010	
Diethylphthalate	BQL	0.393	0.053	1	6/4/2010	
Dimethylphthalate	BQL	0.393	0.061	1	6/4/2010	
2,4-Dimethylphenol	BQL	0.393	0.071	1	6/4/2010	
Di-n-octylphthalate	BQL	0.393	0.061	1	6/4/2010	
4,6-Dinitro-2-methylphenol	BQL	1.97	0.047	1	6/4/2010	
2,4-Dinitrophenol	BQL	1.97	0.051	1	6/4/2010	
2,4-Dinitrotoluene	BQL	0.393	0.060	1	6/4/2010	
2,6-Dinitrotoluene	BQL	0.393	0.065	1	6/4/2010	
Diphenylamine *	BQL	0.393	0.050	1	6/4/2010	
Fluoranthene	BQL	0.393	0.063	1	6/4/2010	
Fluorene	BQL	0.393	0.061	1	6/4/2010	
Hexachlorobenzene	BQL	0.393	0.085	1	6/4/2010	
Hexachlorobutadiene	BQL	0.393	0.072	1	6/4/2010	
Hexachlorocyclopentadiene	BQL	0.786	0.077	1	6/4/2010	
Hexachloroethane	BQL	0.393	0.061	1	6/4/2010	
Indeno(1,2,3-c,d)pyrene	BQL	0.393	0.046	1	6/4/2010	
Isophorone	BQL	0.393	0.057	1	6/4/2010	
2-Methylnaphthalene	BQL	0.393	0.064	1	6/4/2010	

**Results for Semivolatiles
by GCMS 8270**

Client Sample ID: DPT-01 (14-16')
 Client Project ID: NCDOT US 17 ILM Bypass Parcel #59A
 Lab Sample ID: G128-2537-1H
 Lab Project ID: G128-2537
 Report Basis: Dry weight
 Initial Weight: 33.53 g

Analyzed By: DCS
 Date Collected: 5/25/2010 13:15
 Date Received: 5/28/2010
 Date Extracted: 6/3/2010
 Matrix: Soil
 % Solids: 75.84

Compound	Result mg/Kg	RL mg/Kg	MDL mg/Kg	Dilution Factor	Date Analyzed	Flag
2-Methylphenol	BQL	0.393	0.060	1	6/4/2010	
3- & 4-Methylphenol	BQL	0.393	0.051	1	6/4/2010	
Naphthalene	BQL	0.393	0.055	1	6/4/2010	
2-Nitroaniline	BQL	0.393	0.053	1	6/4/2010	
3-Nitroaniline	BQL	1.97	0.058	1	6/4/2010	
4-Nitroaniline	BQL	1.97	0.053	1	6/4/2010	
Nitrobenzene	BQL	0.393	0.052	1	6/4/2010	
2-Nitrophenol	BQL	0.393	0.057	1	6/4/2010	
4-Nitrophenol	BQL	1.97	0.068	1	6/4/2010	
N-Nitrosodi-n-propylamine	BQL	0.393	0.063	1	6/4/2010	
Pentachlorophenol	BQL	1.97	0.036	1	6/4/2010	
Phenanthrene	BQL	0.393	0.055	1	6/4/2010	
Phenol	BQL	0.393	0.054	1	6/4/2010	
Pyrene	BQL	0.393	0.054	1	6/4/2010	
1,2,4-Trichlorobenzene	BQL	0.393	0.071	1	6/4/2010	
2,4,5-Trichlorophenol	BQL	0.393	0.059	1	6/4/2010	
2,4,6-Trichlorophenol	BQL	0.393	0.035	1	6/4/2010	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	9.2	92		
2-Fluorophenol		10	10.1	101		
Nitrobenzene-d5		10	9.6	96		
Phenol-d6		10	10.3	103		
2,4,6-Tribromophenol		10	10.1	101		
4-Terphenyl-d14		10	10.3	103		

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.
 J = Detected below the quantitation limit.

Reviewed By: 

**Results for Semivolatiles
by GCMS 8270**

Client Sample ID: DPT-02 (2-4')
 Client Project ID: NCDOT US 17 ILM Bypass Parcel #59A
 Lab Sample ID: G128-2537-2H
 Lab Project ID: G128-2537
 Report Basis: Dry weight
 Initial Weight: 32.52 g

Analized By: DCS
 Date Collected: 5/25/2010 13:35
 Date Received: 5/28/2010
 Date Extracted: 6/3/2010
 Matrix: Soil
 % Solids: 95.37

Compound	Result mg/Kg	RL mg/Kg	MDL mg/Kg	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	0.322	0.049	1	6/4/2010	
Acenaphthylene	BQL	0.322	0.045	1	6/4/2010	
Anthracene	BQL	0.322	0.044	1	6/4/2010	
Benzo[a]anthracene	BQL	0.322	0.044	1	6/4/2010	
Benzo[a]pyrene	BQL	0.322	0.046	1	6/4/2010	
Benzo[b]fluoranthene	BQL	0.322	0.045	1	6/4/2010	
Benzo[g,h,i]perylene	BQL	0.322	0.056	1	6/4/2010	
Benzo[k]fluoranthene	BQL	0.322	0.046	1	6/4/2010	
Benzoic Acid	BQL	1.61	0.398	1	6/4/2010	
Bis(2-chloroethoxy)methane	BQL	0.322	0.047	1	6/4/2010	
Bis(2-chloroethyl)ether	BQL	0.322	0.066	1	6/4/2010	
Bis(2-chloroisopropyl)ether	BQL	0.322	0.052	1	6/4/2010	
Bis(2-ethylhexyl)phthalate	BQL	0.322	0.049	1	6/4/2010	
4-bromophenyl phenyl ether	BQL	0.322	0.057	1	6/4/2010	
Butylbenzylphthalate	BQL	0.322	0.048	1	6/4/2010	
2-Chloronaphthalene	BQL	0.322	0.045	1	6/4/2010	
2-Chlorophenol	BQL	0.322	0.041	1	6/4/2010	
4-Chloro-3-methylphenol	BQL	0.322	0.047	1	6/4/2010	
4-Chloroaniline	BQL	1.61	0.053	1	6/4/2010	
4-Chlorophenyl phenyl ether	BQL	0.322	0.047	1	6/4/2010	
Chrysene	BQL	0.322	0.031	1	6/4/2010	
Dibenzo[a,h]anthracene	BQL	0.322	0.041	1	6/4/2010	
Dibenzofuran	BQL	0.322	0.046	1	6/4/2010	
Di-n-Butylphthalate	BQL	0.322	0.047	1	6/4/2010	
1,2-Dichlorobenzene	BQL	0.322	0.055	1	6/4/2010	
1,3-Dichlorobenzene	BQL	0.322	0.052	1	6/4/2010	
1,4-Dichlorobenzene	BQL	0.322	0.047	1	6/4/2010	
3,3'-Dichlorobenzidine	BQL	0.645	0.053	1	6/4/2010	
2,4-Dichlorophenol	BQL	0.322	0.035	1	6/4/2010	
Diethylphthalate	BQL	0.322	0.043	1	6/4/2010	
Dimethylphthalate	BQL	0.322	0.050	1	6/4/2010	
2,4-Dimethylphenol	BQL	0.322	0.058	1	6/4/2010	
Di-n-octylphthalate	BQL	0.322	0.050	1	6/4/2010	
4,6-Dinitro-2-methylphenol	BQL	1.61	0.038	1	6/4/2010	
2,4-Dinitrophenol	BQL	1.61	0.042	1	6/4/2010	
2,4-Dinitrotoluene	BQL	0.322	0.049	1	6/4/2010	
2,6-Dinitrotoluene	BQL	0.322	0.053	1	6/4/2010	
Diphenylamine *	BQL	0.322	0.041	1	6/4/2010	
Fluoranthene	BQL	0.322	0.052	1	6/4/2010	
Fluorene	BQL	0.322	0.050	1	6/4/2010	
Hexachlorobenzene	BQL	0.322	0.070	1	6/4/2010	
Hexachlorobutadiene	BQL	0.322	0.059	1	6/4/2010	
Hexachlorocyclopentadiene	BQL	0.645	0.063	1	6/4/2010	
Hexachloroethane	BQL	0.322	0.050	1	6/4/2010	
Indeno(1,2,3-c,d)pyrene	BQL	0.322	0.038	1	6/4/2010	
Isophorone	BQL	0.322	0.047	1	6/4/2010	
2-Methylnaphthalene	BQL	0.322	0.053	1	6/4/2010	

**Results for Semivolatiles
by GCMS 8270**

Client Sample ID: DPT-02 (2-4')
 Client Project ID: NCDOT US 17 ILM Bypass Parcel #59A
 Lab Sample ID: G128-2537-2H
 Lab Project ID: G128-2537
 Report Basis: Dry weight
 Initial Weight: 32.52 g

Analyzed By: DCS
 Date Collected: 5/25/2010 13:35
 Date Received: 5/28/2010
 Date Extracted: 6/3/2010
 Matrix: Soil
 % Solids: 95.37

Compound	Result mg/Kg	RL mg/Kg	MDL mg/Kg	Dilution Factor	Date Analyzed	Flag
2-Methylphenol	BQL	0.322	0.049	1	6/4/2010	
3- & 4-Methylphenol	BQL	0.322	0.042	1	6/4/2010	
Naphthalene	BQL	0.322	0.045	1	6/4/2010	
2-Nitroaniline	BQL	0.322	0.043	1	6/4/2010	
3-Nitroaniline	BQL	1.61	0.047	1	6/4/2010	
4-Nitroaniline	BQL	1.61	0.043	1	6/4/2010	
Nitrobenzene	BQL	0.322	0.043	1	6/4/2010	
2-Nitrophenol	BQL	0.322	0.047	1	6/4/2010	
4-Nitrophenol	BQL	1.61	0.056	1	6/4/2010	
N-Nitrosodi-n-propylamine	BQL	0.322	0.052	1	6/4/2010	
Pentachlorophenol	BQL	1.61	0.030	1	6/4/2010	
Phenanthrene	BQL	0.322	0.045	1	6/4/2010	
Phenol	BQL	0.322	0.044	1	6/4/2010	
Pyrene	BQL	0.322	0.044	1	6/4/2010	
1,2,4-Trichlorobenzene	BQL	0.322	0.058	1	6/4/2010	
2,4,5-Trichlorophenol	BQL	0.322	0.048	1	6/4/2010	
2,4,6-Trichlorophenol	BQL	0.322	0.029	1	6/4/2010	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	10.1	101		
2-Fluorophenol		10	10	100		
Nitrobenzene-d5		10	10.3	103		
Phenol-d6		10	10.4	104		
2,4,6-Tribromophenol		10	10.9	109		
4-Terphenyl-d14		10	11.4	114		

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.
 J = Detected below the quantitation limit.

Reviewed By: 

**Results for Semivolatiles
by GCMS 8270**

Client Sample ID: DPT-03 (2-4')
 Client Project ID: NCDOT US 17 ILM Bypass Parcel #59A
 Lab Sample ID: G128-2537-3H
 Lab Project ID: G128-2537
 Report Basis: Dry weight
 Initial Weight: 32.45 g

Analyzed By: DCS
 Date Collected: 5/25/2010 16:00
 Date Received: 5/28/2010
 Date Extracted: 6/3/2010
 Matrix: Soil
 % Solids: 84.97

Compound	Result mg/Kg	RL mg/Kg	MDL mg/Kg	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	0.363	0.056	1	6/4/2010	
Acenaphthylene	BQL	0.363	0.051	1	6/4/2010	
Anthracene	BQL	0.363	0.049	1	6/4/2010	
Benzo[a]anthracene	BQL	0.363	0.050	1	6/4/2010	
Benzo[a]pyrene	BQL	0.363	0.052	1	6/4/2010	
Benzo[b]fluoranthene	BQL	0.363	0.050	1	6/4/2010	
Benzo[g,h,i]perylene	BQL	0.363	0.063	1	6/4/2010	
Benzo[k]fluoranthene	BQL	0.363	0.052	1	6/4/2010	
Benzoic Acid	BQL	1.81	0.448	1	6/4/2010	
Bis(2-chloroethoxy)methane	BQL	0.363	0.053	1	6/4/2010	
Bis(2-chloroethyl)ether	BQL	0.363	0.074	1	6/4/2010	
Bis(2-chloroisopropyl)ether	BQL	0.363	0.058	1	6/4/2010	
Bis(2-ethylhexyl)phthalate	BQL	0.363	0.056	1	6/4/2010	
4-bromophenyl phenyl ether	BQL	0.363	0.064	1	6/4/2010	
Butylbenzylphthalate	BQL	0.363	0.054	1	6/4/2010	
2-Chloronaphthalene	BQL	0.363	0.050	1	6/4/2010	
2-Chlorophenol	BQL	0.363	0.046	1	6/4/2010	
4-Chloro-3-methylphenol	BQL	0.363	0.053	1	6/4/2010	
4-Chloroaniline	BQL	1.81	0.059	1	6/4/2010	
4-Chlorophenyl phenyl ether	BQL	0.363	0.053	1	6/4/2010	
Chrysene	BQL	0.363	0.035	1	6/4/2010	
Dibenzo[a,h]anthracene	BQL	0.363	0.046	1	6/4/2010	
Dibenzofuran	BQL	0.363	0.051	1	6/4/2010	
Di-n-Butylphthalate	BQL	0.363	0.053	1	6/4/2010	
1,2-Dichlorobenzene	BQL	0.363	0.061	1	6/4/2010	
1,3-Dichlorobenzene	BQL	0.363	0.059	1	6/4/2010	
1,4-Dichlorobenzene	BQL	0.363	0.053	1	6/4/2010	
3,3'-Dichlorobenzidine	BQL	0.725	0.060	1	6/4/2010	
2,4-Dichlorophenol	BQL	0.363	0.040	1	6/4/2010	
Diethylphthalate	BQL	0.363	0.049	1	6/4/2010	
Dimethylphthalate	BQL	0.363	0.056	1	6/4/2010	
2,4-Dimethylphenol	BQL	0.363	0.066	1	6/4/2010	
Di-n-octylphthalate	BQL	0.363	0.056	1	6/4/2010	
4,6-Dinitro-2-methylphenol	BQL	1.81	0.043	1	6/4/2010	
2,4-Dinitrophenol	BQL	1.81	0.047	1	6/4/2010	
2,4-Dinitrotoluene	BQL	0.363	0.055	1	6/4/2010	
2,6-Dinitrotoluene	BQL	0.363	0.060	1	6/4/2010	
Diphenylamine *	BQL	0.363	0.046	1	6/4/2010	
Fluoranthene	BQL	0.363	0.058	1	6/4/2010	
Fluorene	BQL	0.363	0.057	1	6/4/2010	
Hexachlorobenzene	BQL	0.363	0.079	1	6/4/2010	
Hexachlorobutadiene	BQL	0.363	0.066	1	6/4/2010	
Hexachlorocyclopentadiene	BQL	0.725	0.071	1	6/4/2010	
Hexachloroethane	BQL	0.363	0.057	1	6/4/2010	
Indeno(1,2,3-c,d)pyrene	BQL	0.363	0.043	1	6/4/2010	
Isophorone	BQL	0.363	0.053	1	6/4/2010	
2-Methylnaphthalene	BQL	0.363	0.059	1	6/4/2010	

**Results for Semivolatiles
by GCMS 8270**

Client Sample ID: DPT-03 (2-4')
 Client Project ID: NCDOT US 17 ILM Bypass Parcel #59A
 Lab Sample ID: G128-2537-3H
 Lab Project ID: G128-2537
 Report Basis: Dry weight
 Initial Weight: 32.45 g

Analyzed By: DCS
 Date Collected: 5/25/2010 16:00
 Date Received: 5/28/2010
 Date Extracted: 6/3/2010
 Matrix: Soil
 % Solids: 84.97

Compound	Result mg/Kg	RL mg/Kg	MDL mg/Kg	Dilution Factor	Date Analyzed	Flag
2-Methylphenol	BQL	0.363	0.056	1	6/4/2010	
3- & 4-Methylphenol	BQL	0.363	0.047	1	6/4/2010	
Naphthalene	BQL	0.363	0.051	1	6/4/2010	
2-Nitroaniline	BQL	0.363	0.049	1	6/4/2010	
3-Nitroaniline	BQL	1.81	0.053	1	6/4/2010	
4-Nitroaniline	BQL	1.81	0.049	1	6/4/2010	
Nitrobenzene	BQL	0.363	0.048	1	6/4/2010	
2-Nitrophenol	BQL	0.363	0.053	1	6/4/2010	
4-Nitrophenol	BQL	1.81	0.063	1	6/4/2010	
N-Nitrosodi-n-propylamine	BQL	0.363	0.058	1	6/4/2010	
Pentachlorophenol	BQL	1.81	0.033	1	6/4/2010	
Phenanthrene	BQL	0.363	0.051	1	6/4/2010	
Phenol	BQL	0.363	0.049	1	6/4/2010	
Pyrene	BQL	0.363	0.049	1	6/4/2010	
1,2,4-Trichlorobenzene	BQL	0.363	0.065	1	6/4/2010	
2,4,5-Trichlorophenol	BQL	0.363	0.054	1	6/4/2010	
2,4,6-Trichlorophenol	BQL	0.363	0.032	1	6/4/2010	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	8.1	81		
2-Fluorophenol		10	9.5	95		
Nitrobenzene-d5		10	9	90		
Phenol-d6		10	9.7	97		
2,4,6-Tribromophenol		10	8.9	89		
4-Terphenyl-d14		10	10.3	103		

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.
 J = Detected below the quantitation limit.

Reviewed By: 

**Results for Semivolatiles
by GCMS 8270**

Client Sample ID: DPT-04 (6-8')
 Client Project ID: NCDOT US 17 ILM Bypass Parcel #59A
 Lab Sample ID: G128-2537-4H
 Lab Project ID: G128-2537
 Report Basis: Dry weight
 Initial Weight: 33.96 g

Analyzed By: DCS
 Date Collected: 5/25/2010 14:15
 Date Received: 5/28/2010
 Date Extracted: 6/3/2010
 Matrix: Soil
 % Solids: 90.01

Compound	Result mg/Kg	RL mg/Kg	MDL mg/Kg	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	0.327	0.050	1	6/4/2010	
Acenaphthylene	BQL	0.327	0.046	1	6/4/2010	
Anthracene	BQL	0.327	0.045	1	6/4/2010	
Benzo[a]anthracene	BQL	0.327	0.045	1	6/4/2010	
Benzo[a]pyrene	BQL	0.327	0.047	1	6/4/2010	
Benzo[b]fluoranthene	BQL	0.327	0.046	1	6/4/2010	
Benzo[g,h,i]perylene	BQL	0.327	0.057	1	6/4/2010	
Benzo[k]fluoranthene	BQL	0.327	0.047	1	6/4/2010	
Benzoic Acid	BQL	1.64	0.404	1	6/4/2010	
Bis(2-chloroethoxy)methane	BQL	0.327	0.048	1	6/4/2010	
Bis(2-chloroethyl)ether	BQL	0.327	0.066	1	6/4/2010	
Bis(2-chloroisopropyl)ether	BQL	0.327	0.053	1	6/4/2010	
Bis(2-ethylhexyl)phthalate	BQL	0.327	0.050	1	6/4/2010	
4-bromophenyl phenyl ether	BQL	0.327	0.058	1	6/4/2010	
Butylbenzylphthalate	BQL	0.327	0.048	1	6/4/2010	
2-Chloronaphthalene	BQL	0.327	0.046	1	6/4/2010	
2-Chlorophenol	BQL	0.327	0.042	1	6/4/2010	
4-Chloro-3-methylphenol	BQL	0.327	0.048	1	6/4/2010	
4-Chloroaniline	BQL	1.64	0.053	1	6/4/2010	
4-Chlorophenyl phenyl ether	BQL	0.327	0.048	1	6/4/2010	
Chrysene	BQL	0.327	0.031	1	6/4/2010	
Dibenzo[a,h]anthracene	BQL	0.327	0.042	1	6/4/2010	
Dibenzofuran	BQL	0.327	0.046	1	6/4/2010	
Di-n-Butylphthalate	BQL	0.327	0.048	1	6/4/2010	
1,2-Dichlorobenzene	BQL	0.327	0.055	1	6/4/2010	
1,3-Dichlorobenzene	BQL	0.327	0.053	1	6/4/2010	
1,4-Dichlorobenzene	BQL	0.327	0.047	1	6/4/2010	
3,3'-Dichlorobenzidine	BQL	0.654	0.054	1	6/4/2010	
2,4-Dichlorophenol	BQL	0.327	0.036	1	6/4/2010	
Diethylphthalate	BQL	0.327	0.044	1	6/4/2010	
Dimethylphthalate	BQL	0.327	0.051	1	6/4/2010	
2,4-Dimethylphenol	BQL	0.327	0.059	1	6/4/2010	
Di-n-octylphthalate	BQL	0.327	0.050	1	6/4/2010	
4,6-Dinitro-2-methylphenol	BQL	1.64	0.039	1	6/4/2010	
2,4-Dinitrophenol	BQL	1.64	0.043	1	6/4/2010	
2,4-Dinitrotoluene	BQL	0.327	0.050	1	6/4/2010	
2,6-Dinitrotoluene	BQL	0.327	0.054	1	6/4/2010	
Diphenylamine *	BQL	0.327	0.041	1	6/4/2010	
Fluoranthene	BQL	0.327	0.053	1	6/4/2010	
Fluorene	BQL	0.327	0.051	1	6/4/2010	
Hexachlorobenzene	BQL	0.327	0.071	1	6/4/2010	
Hexachlorobutadiene	BQL	0.327	0.060	1	6/4/2010	
Hexachlorocyclopentadiene	BQL	0.654	0.064	1	6/4/2010	
Hexachloroethane	BQL	0.327	0.051	1	6/4/2010	
Indeno(1,2,3-c,d)pyrene	BQL	0.327	0.039	1	6/4/2010	
Isophorone	BQL	0.327	0.048	1	6/4/2010	
2-Methylnaphthalene	BQL	0.327	0.053	1	6/4/2010	

**Results for Semivolatiles
by GCMS 8270**

Client Sample ID: DPT-04 (6-8')
 Client Project ID: NCDOT US 17 ILM Bypass Parcel #59A
 Lab Sample ID: G128-2537-4H
 Lab Project ID: G128-2537
 Report Basis: Dry weight
 Initial Weight: 33.96 g

Analyzed By: DCS
 Date Collected: 5/25/2010 14:15
 Date Received: 5/28/2010
 Date Extracted: 6/3/2010
 Matrix: Soil
 % Solids: 90.01

Compound	Result mg/Kg	RL mg/Kg	MDL mg/Kg	Dilution Factor	Date Analyzed	Flag
2-Methylphenol	BQL	0.327	0.050	1	6/4/2010	
3- & 4-Methylphenol	BQL	0.327	0.043	1	6/4/2010	
Naphthalene	BQL	0.327	0.046	1	6/4/2010	
2-Nitroaniline	BQL	0.327	0.044	1	6/4/2010	
3-Nitroaniline	BQL	1.64	0.048	1	6/4/2010	
4-Nitroaniline	BQL	1.64	0.044	1	6/4/2010	
Nitrobenzene	BQL	0.327	0.044	1	6/4/2010	
2-Nitrophenol	BQL	0.327	0.048	1	6/4/2010	
4-Nitrophenol	BQL	1.64	0.057	1	6/4/2010	
N-Nitrosodi-n-propylamine	BQL	0.327	0.053	1	6/4/2010	
Pentachlorophenol	BQL	1.64	0.030	1	6/4/2010	
Phenanthrene	BQL	0.327	0.046	1	6/4/2010	
Phenol	BQL	0.327	0.045	1	6/4/2010	
Pyrene	BQL	0.327	0.045	1	6/4/2010	
1,2,4-Trichlorobenzene	BQL	0.327	0.059	1	6/4/2010	
2,4,5-Trichlorophenol	BQL	0.327	0.049	1	6/4/2010	
2,4,6-Trichlorophenol	BQL	0.327	0.029	1	6/4/2010	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	8.9	89		
2-Fluorophenol		10	9.4	94		
Nitrobenzene-d5		10	9.4	94		
Phenol-d6		10	9.4	94		
2,4,6-Tribromophenol		10	9.6	96		
4-Terphenyl-d14		10	10.2	102		

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.
 J = Detected below the quantitation limit.

Reviewed By: *CS*

**Results for Semivolatiles
by GCMS 8270**

Client Sample ID: DPT-05 (2-4')
 Client Project ID: NCDOT US 17 ILM Bypass Parcel #59A
 Lab Sample ID: G128-2537-5H
 Lab Project ID: G128-2537
 Report Basis: Dry weight
 Initial Weight: 34.55 g

Analyzed By: DCS
 Date Collected: 5/25/2010 14:00
 Date Received: 5/28/2010
 Date Extracted: 6/3/2010
 Matrix: Soil
 % Solids: 90.79

Compound	Result mg/Kg	RL mg/Kg	MDL mg/Kg	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	0.319	0.049	1	6/4/2010	
Acenaphthylene	BQL	0.319	0.045	1	6/4/2010	
Anthracene	BQL	0.319	0.043	1	6/4/2010	
Benzo[a]anthracene	BQL	0.319	0.044	1	6/4/2010	
Benzo[a]pyrene	BQL	0.319	0.046	1	6/4/2010	
Benzo[b]fluoranthene	BQL	0.319	0.044	1	6/4/2010	
Benzo[g,h,i]perylene	BQL	0.319	0.056	1	6/4/2010	
Benzo[k]fluoranthene	BQL	0.319	0.045	1	6/4/2010	
Benzoic Acid	BQL	1.59	0.394	1	6/4/2010	
Bis(2-chloroethoxy)methane	BQL	0.319	0.047	1	6/4/2010	
Bis(2-chloroethyl)ether	BQL	0.319	0.065	1	6/4/2010	
Bis(2-chloroisopropyl)ether	BQL	0.319	0.051	1	6/4/2010	
Bis(2-ethylhexyl)phthalate	BQL	0.319	0.049	1	6/4/2010	
4-bromophenyl phenyl ether	BQL	0.319	0.056	1	6/4/2010	
Butylbenzylphthalate	BQL	0.319	0.047	1	6/4/2010	
2-Chloronaphthalene	BQL	0.319	0.044	1	6/4/2010	
2-Chlorophenol	BQL	0.319	0.041	1	6/4/2010	
4-Chloro-3-methylphenol	BQL	0.319	0.047	1	6/4/2010	
4-Chloroaniline	BQL	1.59	0.052	1	6/4/2010	
4-Chlorophenyl phenyl ether	BQL	0.319	0.047	1	6/4/2010	
Chrysene	BQL	0.319	0.031	1	6/4/2010	
Dibenzo[a,h]anthracene	BQL	0.319	0.041	1	6/4/2010	
Dibenzofuran	BQL	0.319	0.045	1	6/4/2010	
Di-n-Butylphthalate	BQL	0.319	0.047	1	6/4/2010	
1,2-Dichlorobenzene	BQL	0.319	0.054	1	6/4/2010	
1,3-Dichlorobenzene	BQL	0.319	0.052	1	6/4/2010	
1,4-Dichlorobenzene	BQL	0.319	0.046	1	6/4/2010	
3,3'-Dichlorobenzidine	BQL	0.638	0.053	1	6/4/2010	
2,4-Dichlorophenol	BQL	0.319	0.035	1	6/4/2010	
Diethylphthalate	BQL	0.319	0.043	1	6/4/2010	
Dimethylphthalate	BQL	0.319	0.049	1	6/4/2010	
2,4-Dimethylphenol	BQL	0.319	0.058	1	6/4/2010	
Di-n-octylphthalate	BQL	0.319	0.049	1	6/4/2010	
4,6-Dinitro-2-methylphenol	BQL	1.59	0.038	1	6/4/2010	
2,4-Dinitrophenol	BQL	1.59	0.041	1	6/4/2010	
2,4-Dinitrotoluene	BQL	0.319	0.049	1	6/4/2010	
2,6-Dinitrotoluene	BQL	0.319	0.053	1	6/4/2010	
Diphenylamine *	BQL	0.319	0.040	1	6/4/2010	
Fluoranthene	BQL	0.319	0.051	1	6/4/2010	
Fluorene	BQL	0.319	0.050	1	6/4/2010	
Hexachlorobenzene	BQL	0.319	0.069	1	6/4/2010	
Hexachlorobutadiene	BQL	0.319	0.058	1	6/4/2010	
Hexachlorocyclopentadiene	BQL	0.638	0.062	1	6/4/2010	
Hexachloroethane	BQL	0.319	0.050	1	6/4/2010	
Indeno(1,2,3-c,d)pyrene	BQL	0.319	0.038	1	6/4/2010	
Isophorone	BQL	0.319	0.047	1	6/4/2010	
2-Methylnaphthalene	BQL	0.319	0.052	1	6/4/2010	

**Results for Semivolatiles
by GCMS 8270**

Client Sample ID: DPT-05 (2-4')
 Client Project ID: NCDOT US 17 ILM Bypass Parcel #59A
 Lab Sample ID: G128-2537-5H
 Lab Project ID: G128-2537
 Report Basis: Dry weight
 Initial Weight: 34.55 g

Analyzed By: DCS
 Date Collected: 5/25/2010 14:00
 Date Received: 5/28/2010
 Date Extracted: 6/3/2010
 Matrix: Soil
 % Solids: 90.79

Compound	Result mg/Kg	RL mg/Kg	MDL mg/Kg	Dilution Factor	Date Analyzed	Flag
2-Methylphenol	BQL	0.319	0.049	1	6/4/2010	
3- & 4-Methylphenol	BQL	0.319	0.041	1	6/4/2010	
Naphthalene	BQL	0.319	0.045	1	6/4/2010	
2-Nitroaniline	BQL	0.319	0.043	1	6/4/2010	
3-Nitroaniline	BQL	1.59	0.047	1	6/4/2010	
4-Nitroaniline	BQL	1.59	0.043	1	6/4/2010	
Nitrobenzene	BQL	0.319	0.042	1	6/4/2010	
2-Nitrophenol	BQL	0.319	0.047	1	6/4/2010	
4-Nitrophenol	BQL	1.59	0.056	1	6/4/2010	
N-Nitrosodi-n-propylamine	BQL	0.319	0.051	1	6/4/2010	
Pentachlorophenol	BQL	1.59	0.029	1	6/4/2010	
Phenanthrene	BQL	0.319	0.045	1	6/4/2010	
Phenol	BQL	0.319	0.043	1	6/4/2010	
Pyrene	BQL	0.319	0.043	1	6/4/2010	
1,2,4-Trichlorobenzene	BQL	0.319	0.057	1	6/4/2010	
2,4,5-Trichlorophenol	BQL	0.319	0.048	1	6/4/2010	
2,4,6-Trichlorophenol	BQL	0.319	0.028	1	6/4/2010	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	9.3	93		
2-Fluorophenol		10	9.8	98		
Nitrobenzene-d5		10	10	100		
Phenol-d6		10	10	100		
2,4,6-Tribromophenol		10	9.6	96		
4-Terphenyl-d14		10	10.5	105		

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.
 J = Detected below the quantitation limit.

Reviewed By: 

SGS North America, Inc.

Results for Semivolatiles
by GCMS 8270

Client Sample ID: DPT-06 (4-6')
Client Project ID: NCDOT US 17 ILM Bypass Parcel #59A
Lab Sample ID: G128-2537-6H
Lab Project ID: G128-2537
Report Basis: Dry weight
Initial Weight: 32.69 g

Analyzed By: DCS
Date Collected: 5/25/2010 14:40
Date Received: 5/28/2010
Date Extracted: 6/3/2010
Matrix: Soil
% Solids: 82.19

Compound	Result mg/Kg	RL mg/Kg	MDL mg/Kg	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	0.372	0.057	1	6/4/2010	
Acenaphthylene	BQL	0.372	0.052	1	6/4/2010	
Anthracene	BQL	0.372	0.051	1	6/4/2010	
Benzo[a]anthracene	BQL	0.372	0.051	1	6/4/2010	
Benzo[a]pyrene	BQL	0.372	0.054	1	6/4/2010	
Benzo[b]fluoranthene	BQL	0.372	0.052	1	6/4/2010	
Benzo[g,h,i]perylene	BQL	0.372	0.065	1	6/4/2010	
Benzo[k]fluoranthene	BQL	0.372	0.053	1	6/4/2010	
Benzoic Acid	BQL	1.86	0.460	1	6/4/2010	
Bis(2-chloroethoxy)methane	BQL	0.372	0.055	1	6/4/2010	
Bis(2-chloroethyl)ether	BQL	0.372	0.076	1	6/4/2010	
Bis(2-chloroisopropyl)ether	BQL	0.372	0.060	1	6/4/2010	
Bis(2-ethylhexyl)phthalate	BQL	0.372	0.057	1	6/4/2010	
4-bromophenyl phenyl ether	BQL	0.372	0.066	1	6/4/2010	
Butylbenzylphthalate	BQL	0.372	0.055	1	6/4/2010	
2-Chloronaphthalene	BQL	0.372	0.052	1	6/4/2010	
2-Chlorophenol	BQL	0.372	0.047	1	6/4/2010	
4-Chloro-3-methylphenol	BQL	0.372	0.054	1	6/4/2010	
4-Chloroaniline	BQL	1.86	0.061	1	6/4/2010	
4-Chlorophenyl phenyl ether	BQL	0.372	0.055	1	6/4/2010	
Chrysene	BQL	0.372	0.036	1	6/4/2010	
Dibenzo[a,h]anthracene	BQL	0.372	0.048	1	6/4/2010	
Dibenzofuran	BQL	0.372	0.053	1	6/4/2010	
Di-n-Butylphthalate	BQL	0.372	0.054	1	6/4/2010	
1,2-Dichlorobenzene	BQL	0.372	0.063	1	6/4/2010	
1,3-Dichlorobenzene	BQL	0.372	0.060	1	6/4/2010	
1,4-Dichlorobenzene	BQL	0.372	0.054	1	6/4/2010	
3,3'-Dichlorobenzidine	BQL	0.744	0.061	1	6/4/2010	
2,4-Dichlorophenol	BQL	0.372	0.041	1	6/4/2010	
Diethylphthalate	BQL	0.372	0.050	1	6/4/2010	
Dimethylphthalate	BQL	0.372	0.058	1	6/4/2010	
2,4-Dimethylphenol	BQL	0.372	0.067	1	6/4/2010	
Di-n-octylphthalate	BQL	0.372	0.057	1	6/4/2010	
4,6-Dinitro-2-methylphenol	BQL	1.86	0.044	1	6/4/2010	
2,4-Dinitrophenol	BQL	1.86	0.048	1	6/4/2010	
2,4-Dinitrotoluene	BQL	0.372	0.057	1	6/4/2010	
2,6-Dinitrotoluene	BQL	0.372	0.061	1	6/4/2010	
Diphenylamine *	BQL	0.372	0.047	1	6/4/2010	
Fluoranthene	BQL	0.372	0.060	1	6/4/2010	
Fluorene	BQL	0.372	0.058	1	6/4/2010	
Hexachlorobenzene	BQL	0.372	0.081	1	6/4/2010	
Hexachlorobutadiene	BQL	0.372	0.068	1	6/4/2010	
Hexachlorocyclopentadiene	BQL	0.744	0.073	1	6/4/2010	
Hexachloroethane	BQL	0.372	0.058	1	6/4/2010	
Indeno(1,2,3-c,d)pyrene	BQL	0.372	0.044	1	6/4/2010	
Isophorone	BQL	0.372	0.054	1	6/4/2010	
2-Methylnaphthalene	BQL	0.372	0.061	1	6/4/2010	

**Results for Semivolatiles
by GCMS 8270**

Client Sample ID: DPT-06 (4-6')
 Client Project ID: NCDOT US 17 ILM Bypass Parcel #59A
 Lab Sample ID: G128-2537-6H
 Lab Project ID: G128-2537
 Report Basis: Dry weight
 Initial Weight: 32.69 g

Analyzed By: DCS
 Date Collected: 5/25/2010 14:40
 Date Received: 5/28/2010
 Date Extracted: 6/3/2010
 Matrix: Soil
 % Solids: 82.19

Compound	Result mg/Kg	RL mg/Kg	MDL mg/Kg	Dilution Factor	Date Analyzed	Flag
2-Methylphenol	BQL	0.372	0.057	1	6/4/2010	
3- & 4-Methylphenol	BQL	0.372	0.048	1	6/4/2010	
Naphthalene	BQL	0.372	0.052	1	6/4/2010	
2-Nitroaniline	BQL	0.372	0.050	1	6/4/2010	
3-Nitroaniline	BQL	1.86	0.055	1	6/4/2010	
4-Nitroaniline	BQL	1.86	0.050	1	6/4/2010	
Nitrobenzene	BQL	0.372	0.050	1	6/4/2010	
2-Nitrophenol	BQL	0.372	0.054	1	6/4/2010	
4-Nitrophenol	BQL	1.86	0.065	1	6/4/2010	
N-Nitrosodi-n-propylamine	BQL	0.372	0.060	1	6/4/2010	
Pentachlorophenol	BQL	1.86	0.034	1	6/4/2010	
Phenanthrene	BQL	0.372	0.052	1	6/4/2010	
Phenol	BQL	0.372	0.051	1	6/4/2010	
Pyrene	BQL	0.372	0.051	1	6/4/2010	
1,2,4-Trichlorobenzene	BQL	0.372	0.067	1	6/4/2010	
2,4,5-Trichlorophenol	BQL	0.372	0.056	1	6/4/2010	
2,4,6-Trichlorophenol	BQL	0.372	0.033	1	6/4/2010	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	9	90		
2-Fluorophenol		10	9	90		
Nitrobenzene-d5		10	9.2	92		
Phenol-d6		10	9.5	95		
2,4,6-Tribromophenol		10	9.1	91		
4-Terphenyl-d14		10	10	100		

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.
 J = Detected below the quantitation limit.

Reviewed By: 

SGS North America, Inc.

Results for Semivolatiles
by GCMS 8270

Client Sample ID: DPT-07 (2-4')
Client Project ID: NCDOT US 17 ILM Bypass Parcel #59A
Lab Sample ID: G128-2537-7H
Lab Project ID: G128-2537
Report Basis: Dry weight
Initial Weight: 32.33 g

Analyzed By: DCS
Date Collected: 5/25/2010 13:45
Date Received: 5/28/2010
Date Extracted: 6/3/2010
Matrix: Soil
% Solids: 88.35

Compound	Result mg/Kg	RL mg/Kg	MDL mg/Kg	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	0.350	0.054	1	6/4/2010	
Acenaphthylene	BQL	0.350	0.049	1	6/4/2010	
Anthracene	BQL	0.350	0.048	1	6/4/2010	
Benzo[a]anthracene	BQL	0.350	0.048	1	6/4/2010	
Benzo[a]pyrene	BQL	0.350	0.050	1	6/4/2010	
Benzo[b]fluoranthene	BQL	0.350	0.049	1	6/4/2010	
Benzo[g,h,i]perylene	BQL	0.350	0.061	1	6/4/2010	
Benzo[k]fluoranthene	BQL	0.350	0.050	1	6/4/2010	
Benzoic Acid	BQL	1.75	0.432	1	6/4/2010	
Bis(2-chloroethoxy)methane	BQL	0.350	0.052	1	6/4/2010	
Bis(2-chloroethyl)ether	BQL	0.350	0.071	1	6/4/2010	
Bis(2-chloroisopropyl)ether	BQL	0.350	0.056	1	6/4/2010	
Bis(2-ethylhexyl)phthalate	BQL	0.350	0.054	1	6/4/2010	
4-bromophenyl phenyl ether	BQL	0.350	0.062	1	6/4/2010	
Butylbenzylphthalate	BQL	0.350	0.052	1	6/4/2010	
2-Chloronaphthalene	BQL	0.350	0.049	1	6/4/2010	
2-Chlorophenol	BQL	0.350	0.045	1	6/4/2010	
4-Chloro-3-methylphenol	BQL	0.350	0.051	1	6/4/2010	
4-Chloroaniline	BQL	1.75	0.057	1	6/4/2010	
4-Chlorophenyl phenyl ether	BQL	0.350	0.052	1	6/4/2010	
Chrysene	BQL	0.350	0.034	1	6/4/2010	
Dibenzo[a,h]anthracene	BQL	0.350	0.045	1	6/4/2010	
Dibenzofuran	BQL	0.350	0.049	1	6/4/2010	
Di-n-Butylphthalate	BQL	0.350	0.051	1	6/4/2010	
1,2-Dichlorobenzene	BQL	0.350	0.059	1	6/4/2010	
1,3-Dichlorobenzene	BQL	0.350	0.057	1	6/4/2010	
1,4-Dichlorobenzene	BQL	0.350	0.051	1	6/4/2010	
3,3'-Dichlorobenzidine	BQL	0.700	0.058	1	6/4/2010	
2,4-Dichlorophenol	BQL	0.350	0.038	1	6/4/2010	
Diethylphthalate	BQL	0.350	0.047	1	6/4/2010	
Dimethylphthalate	BQL	0.350	0.054	1	6/4/2010	
2,4-Dimethylphenol	BQL	0.350	0.063	1	6/4/2010	
Di-n-octylphthalate	BQL	0.350	0.054	1	6/4/2010	
4,6-Dinitro-2-methylphenol	BQL	1.75	0.042	1	6/4/2010	
2,4-Dinitrophenol	BQL	1.75	0.046	1	6/4/2010	
2,4-Dinitrotoluene	BQL	0.350	0.053	1	6/4/2010	
2,6-Dinitrotoluene	BQL	0.350	0.058	1	6/4/2010	
Diphenylamine *	BQL	0.350	0.044	1	6/4/2010	
Fluoranthene	BQL	0.350	0.056	1	6/4/2010	
Fluorene	BQL	0.350	0.055	1	6/4/2010	
Hexachlorobenzene	BQL	0.350	0.076	1	6/4/2010	
Hexachlorobutadiene	BQL	0.350	0.064	1	6/4/2010	
Hexachlorocyclopentadiene	BQL	0.700	0.068	1	6/4/2010	
Hexachloroethane	BQL	0.350	0.055	1	6/4/2010	
Indeno(1,2,3-c,d)pyrene	BQL	0.350	0.041	1	6/4/2010	
Isophorone	BQL	0.350	0.051	1	6/4/2010	
2-Methylnaphthalene	BQL	0.350	0.057	1	6/4/2010	

**Results for Semivolatiles
by GCMS 8270**

Client Sample ID: DPT-07 (2-4')
 Client Project ID: NCDOT US 17 ILM Bypass Parcel #59A
 Lab Sample ID: G128-2537-7H
 Lab Project ID: G128-2537
 Report Basis: Dry weight
 Initial Weight: 32.33 g

Analyzed By: DCS
 Date Collected: 5/25/2010 13:45
 Date Received: 5/28/2010
 Date Extracted: 6/3/2010
 Matrix: Soil
 % Solids: 88.35

Compound	Result mg/Kg	RL mg/Kg	MDL mg/Kg	Dilution Factor	Date Analyzed	Flag
2-Methylphenol	BQL	0.350	0.054	1	6/4/2010	
3- & 4-Methylphenol	BQL	0.350	0.046	1	6/4/2010	
Naphthalene	BQL	0.350	0.049	1	6/4/2010	
2-Nitroaniline	BQL	0.350	0.047	1	6/4/2010	
3-Nitroaniline	BQL	1.75	0.052	1	6/4/2010	
4-Nitroaniline	BQL	1.75	0.047	1	6/4/2010	
Nitrobenzene	BQL	0.350	0.047	1	6/4/2010	
2-Nitrophenol	BQL	0.350	0.051	1	6/4/2010	
4-Nitrophenol	BQL	1.75	0.061	1	6/4/2010	
N-Nitrosodi-n-propylamine	BQL	0.350	0.056	1	6/4/2010	
Pentachlorophenol	BQL	1.75	0.032	1	6/4/2010	
Phenanthrene	BQL	0.350	0.049	1	6/4/2010	
Phenol	BQL	0.350	0.048	1	6/4/2010	
Pyrene	BQL	0.350	0.048	1	6/4/2010	
1,2,4-Trichlorobenzene	BQL	0.350	0.063	1	6/4/2010	
2,4,5-Trichlorophenol	BQL	0.350	0.052	1	6/4/2010	
2,4,6-Trichlorophenol	BQL	0.350	0.031	1	6/4/2010	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	9.5	95		
2-Fluorophenol		10	10.2	102		
Nitrobenzene-d5		10	10	99		
Phenol-d6		10	10.5	105		
2,4,6-Tribromophenol		10	9.4	94		
4-Terphenyl-d14		10	11.1	110		

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.
 J = Detected below the quantitation limit.

Reviewed By: 

**Results for Semivolatiles
by GCMS 8270**

Client Sample ID: DPT-08 (0-2')
 Client Project ID: NCDOT US 17 ILM Bypass Parcel #59A
 Lab Sample ID: G128-2537-8H
 Lab Project ID: G128-2537
 Report Basis: Dry weight
 Initial Weight: 32.68 g

Analyzed By: DCS
 Date Collected: 5/25/2010 13:55
 Date Received: 5/28/2010
 Date Extracted: 6/3/2010
 Matrix: Soil
 % Solids: 93.07

Compound	Result mg/Kg	RL mg/Kg	MDL mg/Kg	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	0.329	0.050	1	6/4/2010	
Acenaphthylene	BQL	0.329	0.046	1	6/4/2010	
Anthracene	BQL	0.329	0.045	1	6/4/2010	
Benzo[a]anthracene	BQL	0.329	0.045	1	6/4/2010	
Benzo[a]pyrene	BQL	0.329	0.047	1	6/4/2010	
Benzo[b]fluoranthene	BQL	0.329	0.046	1	6/4/2010	
Benzo[g,h,i]perylene	BQL	0.329	0.057	1	6/4/2010	
Benzo[k]fluoranthene	BQL	0.329	0.047	1	6/4/2010	
Benzoic Acid	BQL	1.64	0.406	1	6/4/2010	
Bis(2-chloroethoxy)methane	BQL	0.329	0.048	1	6/4/2010	
Bis(2-chloroethyl)ether	BQL	0.329	0.067	1	6/4/2010	
Bis(2-chloroisopropyl)ether	BQL	0.329	0.053	1	6/4/2010	
Bis(2-ethylhexyl)phthalate	BQL	0.329	0.050	1	6/4/2010	
4-bromophenyl phenyl ether	BQL	0.329	0.058	1	6/4/2010	
Butylbenzylphthalate	BQL	0.329	0.049	1	6/4/2010	
2-Chloronaphthalene	BQL	0.329	0.046	1	6/4/2010	
2-Chlorophenol	BQL	0.329	0.042	1	6/4/2010	
4-Chloro-3-methylphenol	BQL	0.329	0.048	1	6/4/2010	
4-Chloroaniline	BQL	1.64	0.054	1	6/4/2010	
4-Chlorophenyl phenyl ether	BQL	0.329	0.048	1	6/4/2010	
Chrysene	BQL	0.329	0.032	1	6/4/2010	
Dibenzo[a,h]anthracene	BQL	0.329	0.042	1	6/4/2010	
Dibenzofuran	BQL	0.329	0.046	1	6/4/2010	
Di-n-Butylphthalate	BQL	0.329	0.048	1	6/4/2010	
1,2-Dichlorobenzene	BQL	0.329	0.056	1	6/4/2010	
1,3-Dichlorobenzene	BQL	0.329	0.053	1	6/4/2010	
1,4-Dichlorobenzene	BQL	0.329	0.048	1	6/4/2010	
3,3'-Dichlorobenzidine	BQL	0.658	0.054	1	6/4/2010	
2,4-Dichlorophenol	BQL	0.329	0.036	1	6/4/2010	
Diethylphthalate	BQL	0.329	0.044	1	6/4/2010	
Dimethylphthalate	BQL	0.329	0.051	1	6/4/2010	
2,4-Dimethylphenol	BQL	0.329	0.060	1	6/4/2010	
Di-n-octylphthalate	BQL	0.329	0.051	1	6/4/2010	
4,6-Dinitro-2-methylphenol	BQL	1.64	0.039	1	6/4/2010	
2,4-Dinitrophenol	BQL	1.64	0.043	1	6/4/2010	
2,4-Dinitrotoluene	BQL	0.329	0.050	1	6/4/2010	
2,6-Dinitrotoluene	BQL	0.329	0.054	1	6/4/2010	
Diphenylamine *	BQL	0.329	0.041	1	6/4/2010	
Fluoranthene	BQL	0.329	0.053	1	6/4/2010	
Fluorene	BQL	0.329	0.051	1	6/4/2010	
Hexachlorobenzene	BQL	0.329	0.071	1	6/4/2010	
Hexachlorobutadiene	BQL	0.329	0.060	1	6/4/2010	
Hexachlorocyclopentadiene	BQL	0.658	0.064	1	6/4/2010	
Hexachloroethane	BQL	0.329	0.051	1	6/4/2010	
Indeno(1,2,3-c,d)pyrene	BQL	0.329	0.039	1	6/4/2010	
Isophorone	BQL	0.329	0.048	1	6/4/2010	
2-Methylnaphthalene	BQL	0.329	0.054	1	6/4/2010	

**Results for Semivolatiles
by GCMS 8270**

Client Sample ID: DPT-08 (0-2')
 Client Project ID: NCDOT US 17 ILM Bypass Parcel #59A
 Lab Sample ID: G128-2537-8H
 Lab Project ID: G128-2537
 Report Basis: Dry weight
 Initial Weight: 32.68 g

Analyzed By: DCS
 Date Collected: 5/25/2010 13:55
 Date Received: 5/28/2010
 Date Extracted: 6/3/2010
 Matrix: Soil
 % Solids: 93.07

Compound	Result mg/Kg	RL mg/Kg	MDL mg/Kg	Dilution Factor	Date Analyzed	Flag
2-Methylphenol	BQL	0.329	0.050	1	6/4/2010	
3- & 4-Methylphenol	BQL	0.329	0.043	1	6/4/2010	
Naphthalene	BQL	0.329	0.046	1	6/4/2010	
2-Nitroaniline	BQL	0.329	0.044	1	6/4/2010	
3-Nitroaniline	BQL	1.64	0.048	1	6/4/2010	
4-Nitroaniline	BQL	1.64	0.044	1	6/4/2010	
Nitrobenzene	BQL	0.329	0.044	1	6/4/2010	
2-Nitrophenol	BQL	0.329	0.048	1	6/4/2010	
4-Nitrophenol	BQL	1.64	0.057	1	6/4/2010	
N-Nitrosodi-n-propylamine	BQL	0.329	0.053	1	6/4/2010	
Pentachlorophenol	BQL	1.64	0.030	1	6/4/2010	
Phenanthrene	BQL	0.329	0.046	1	6/4/2010	
Phenol	BQL	0.329	0.045	1	6/4/2010	
Pyrene	BQL	0.329	0.045	1	6/4/2010	
1,2,4-Trichlorobenzene	BQL	0.329	0.059	1	6/4/2010	
2,4,5-Trichlorophenol	BQL	0.329	0.049	1	6/4/2010	
2,4,6-Trichlorophenol	BQL	0.329	0.029	1	6/4/2010	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	10.5	105		
2-Fluorophenol		10	10.2	102		
Nitrobenzene-d5		10	10.5	105		
Phenol-d6		10	10.3	103		
2,4,6-Tribromophenol		10	10.8	108		
4-Terphenyl-d14		10	11.3	113		

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By:  _____

**Results for Semivolatiles
by GCMS 8270**

Client Sample ID: DPT-09 (0-2')
 Client Project ID: NCDOT US 17 ILM Bypass Parcel #59A
 Lab Sample ID: G128-2537-9H
 Lab Project ID: G128-2537
 Report Basis: Dry weight
 Initial Weight: 34.43 g

Analyzed By: DCS
 Date Collected: 5/25/2010 15:30
 Date Received: 5/28/2010
 Date Extracted: 6/3/2010
 Matrix: Soil
 % Solids: 89.84

Compound	Result mg/Kg	RL mg/Kg	MDL mg/Kg	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	0.323	0.050	1	6/4/2010	
Acenaphthylene	BQL	0.323	0.045	1	6/4/2010	
Anthracene	BQL	0.323	0.044	1	6/4/2010	
Benzo[a]anthracene	BQL	0.323	0.044	1	6/4/2010	
Benzo[a]pyrene	BQL	0.323	0.047	1	6/4/2010	
Benzo[b]fluoranthene	BQL	0.323	0.045	1	6/4/2010	
Benzo[g,h,i]perylene	BQL	0.323	0.056	1	6/4/2010	
Benzo[k]fluoranthene	BQL	0.323	0.046	1	6/4/2010	
Benzoic Acid	BQL	1.62	0.399	1	6/4/2010	
Bis(2-chloroethoxy)methane	BQL	0.323	0.048	1	6/4/2010	
Bis(2-chloroethyl)ether	BQL	0.323	0.066	1	6/4/2010	
Bis(2-chloroisopropyl)ether	BQL	0.323	0.052	1	6/4/2010	
Bis(2-ethylhexyl)phthalate	BQL	0.323	0.050	1	6/4/2010	
4-bromophenyl phenyl ether	BQL	0.323	0.057	1	6/4/2010	
Butylbenzylphthalate	BQL	0.323	0.048	1	6/4/2010	
2-Chloronaphthalene	BQL	0.323	0.045	1	6/4/2010	
2-Chlorophenol	BQL	0.323	0.041	1	6/4/2010	
4-Chloro-3-methylphenol	BQL	0.323	0.047	1	6/4/2010	
4-Chloroaniline	BQL	1.62	0.053	1	6/4/2010	
4-Chlorophenyl phenyl ether	BQL	0.323	0.048	1	6/4/2010	
Chrysene	BQL	0.323	0.031	1	6/4/2010	
Dibenzo[a,h]anthracene	BQL	0.323	0.041	1	6/4/2010	
Dibenzofuran	BQL	0.323	0.046	1	6/4/2010	
Di-n-Butylphthalate	BQL	0.323	0.047	1	6/4/2010	
1,2-Dichlorobenzene	BQL	0.323	0.055	1	6/4/2010	
1,3-Dichlorobenzene	BQL	0.323	0.052	1	6/4/2010	
1,4-Dichlorobenzene	BQL	0.323	0.047	1	6/4/2010	
3,3'-Dichlorobenzidine	BQL	0.647	0.053	1	6/4/2010	
2,4-Dichlorophenol	BQL	0.323	0.035	1	6/4/2010	
Diethylphthalate	BQL	0.323	0.043	1	6/4/2010	
Dimethylphthalate	BQL	0.323	0.050	1	6/4/2010	
2,4-Dimethylphenol	BQL	0.323	0.059	1	6/4/2010	
Di-n-octylphthalate	BQL	0.323	0.050	1	6/4/2010	
4,6-Dinitro-2-methylphenol	BQL	1.62	0.039	1	6/4/2010	
2,4-Dinitrophenol	BQL	1.62	0.042	1	6/4/2010	
2,4-Dinitrotoluene	BQL	0.323	0.049	1	6/4/2010	
2,6-Dinitrotoluene	BQL	0.323	0.053	1	6/4/2010	
Diphenylamine *	BQL	0.323	0.041	1	6/4/2010	
Fluoranthene	BQL	0.323	0.052	1	6/4/2010	
Fluorene	BQL	0.323	0.050	1	6/4/2010	
Hexachlorobenzene	BQL	0.323	0.070	1	6/4/2010	
Hexachlorobutadiene	BQL	0.323	0.059	1	6/4/2010	
Hexachlorocyclopentadiene	BQL	0.647	0.063	1	6/4/2010	
Hexachloroethane	BQL	0.323	0.050	1	6/4/2010	
Indeno(1,2,3-c,d)pyrene	BQL	0.323	0.038	1	6/4/2010	
Isophorone	BQL	0.323	0.047	1	6/4/2010	
2-Methylnaphthalene	BQL	0.323	0.053	1	6/4/2010	

**Results for Semivolatiles
by GCMS 8270**

Client Sample ID: DPT-09 (0-2')
 Client Project ID: NCDOT US 17 ILM Bypass Parcel #59A
 Lab Sample ID: G128-2537-9H
 Lab Project ID: G128-2537
 Report Basis: Dry weight
 Initial Weight: 34.43 g

Analyzed By: DCS
 Date Collected: 5/25/2010 15:30
 Date Received: 5/28/2010
 Date Extracted: 6/3/2010
 Matrix: Soil
 % Solids: 89.84

Compound	Result mg/Kg	RL mg/Kg	MDL mg/Kg	Dilution Factor	Date Analyzed	Flag
2-Methylphenol	BQL	0.323	0.050	1	6/4/2010	
3- & 4-Methylphenol	BQL	0.323	0.042	1	6/4/2010	
Naphthalene	BQL	0.323	0.045	1	6/4/2010	
2-Nitroaniline	BQL	0.323	0.043	1	6/4/2010	
3-Nitroaniline	BQL	1.62	0.048	1	6/4/2010	
4-Nitroaniline	BQL	1.62	0.043	1	6/4/2010	
Nitrobenzene	BQL	0.323	0.043	1	6/4/2010	
2-Nitrophenol	BQL	0.323	0.047	1	6/4/2010	
4-Nitrophenol	BQL	1.62	0.056	1	6/4/2010	
N-Nitrosodi-n-propylamine	BQL	0.323	0.052	1	6/4/2010	
Pentachlorophenol	BQL	1.62	0.030	1	6/4/2010	
Phenanthrene	BQL	0.323	0.045	1	6/4/2010	
Phenol	BQL	0.323	0.044	1	6/4/2010	
Pyrene	BQL	0.323	0.044	1	6/4/2010	
1,2,4-Trichlorobenzene	BQL	0.323	0.058	1	6/4/2010	
2,4,5-Trichlorophenol	BQL	0.323	0.048	1	6/4/2010	
2,4,6-Trichlorophenol	BQL	0.323	0.029	1	6/4/2010	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	9.2	92		
2-Fluorophenol		10	9.7	97		
Nitrobenzene-d5		10	9.7	97		
Phenol-d6		10	9.8	98		
2,4,6-Tribromophenol		10	9.6	96		
4-Terphenyl-d14		10	10.6	106		

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.
 J = Detected below the quantitation limit.

Reviewed By: 

**Results for Semivolatiles
by GCMS 8270**

Client Sample ID: DPT-10 (0-2')
 Client Project ID: NCDOT US 17 ILM Bypass Parcel #59A
 Lab Sample ID: G128-2537-10J
 Lab Project ID: G128-2537
 Report Basis: Dry weight
 Initial Weight: 32.59 g

Analyzed By: DCS
 Date Collected: 5/25/2010 15:00
 Date Received: 5/28/2010
 Date Extracted: 6/3/2010
 Matrix: Soil
 % Solids: 84.91

Compound	Result mg/Kg	RL mg/Kg	MDL mg/Kg	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	0.361	0.055	1	6/4/2010	
Acenaphthylene	BQL	0.361	0.051	1	6/4/2010	
Anthracene	BQL	0.361	0.049	1	6/4/2010	
Benzo[a]anthracene	BQL	0.361	0.050	1	6/4/2010	
Benzo[a]pyrene	BQL	0.361	0.052	1	6/4/2010	
Benzo[b]fluoranthene	BQL	0.361	0.050	1	6/4/2010	
Benzo[g,h,i]perylene	BQL	0.361	0.063	1	6/4/2010	
Benzo[k]fluoranthene	BQL	0.361	0.051	1	6/4/2010	
Benzoic Acid	BQL	1.81	0.446	1	6/4/2010	
Bis(2-chloroethoxy)methane	BQL	0.361	0.053	1	6/4/2010	
Bis(2-chloroethyl)ether	BQL	0.361	0.073	1	6/4/2010	
Bis(2-chloroisopropyl)ether	BQL	0.361	0.058	1	6/4/2010	
Bis(2-ethylhexyl)phthalate	BQL	0.361	0.055	1	6/4/2010	
4-bromophenyl phenyl ether	BQL	0.361	0.064	1	6/4/2010	
Butylbenzylphthalate	BQL	0.361	0.054	1	6/4/2010	
2-Chloronaphthalene	BQL	0.361	0.050	1	6/4/2010	
2-Chlorophenol	BQL	0.361	0.046	1	6/4/2010	
4-Chloro-3-methylphenol	BQL	0.361	0.053	1	6/4/2010	
4-Chloroaniline	BQL	1.81	0.059	1	6/4/2010	
4-Chlorophenyl phenyl ether	BQL	0.361	0.053	1	6/4/2010	
Chrysene	BQL	0.361	0.035	1	6/4/2010	
Dibenzo[a,h]anthracene	BQL	0.361	0.046	1	6/4/2010	
Dibenzofuran	BQL	0.361	0.051	1	6/4/2010	
Di-n-Butylphthalate	BQL	0.361	0.053	1	6/4/2010	
1,2-Dichlorobenzene	BQL	0.361	0.061	1	6/4/2010	
1,3-Dichlorobenzene	BQL	0.361	0.059	1	6/4/2010	
1,4-Dichlorobenzene	BQL	0.361	0.052	1	6/4/2010	
3,3'-Dichlorobenzidine	BQL	0.723	0.060	1	6/4/2010	
2,4-Dichlorophenol	BQL	0.361	0.039	1	6/4/2010	
Diethylphthalate	BQL	0.361	0.048	1	6/4/2010	
Dimethylphthalate	BQL	0.361	0.056	1	6/4/2010	
2,4-Dimethylphenol	BQL	0.361	0.065	1	6/4/2010	
Di-n-octylphthalate	BQL	0.361	0.056	1	6/4/2010	
4,6-Dinitro-2-methylphenol	BQL	1.81	0.043	1	6/4/2010	
2,4-Dinitrophenol	BQL	1.81	0.047	1	6/4/2010	
2,4-Dinitrotoluene	BQL	0.361	0.055	1	6/4/2010	
2,6-Dinitrotoluene	BQL	0.361	0.060	1	6/4/2010	
Diphenylamine *	BQL	0.361	0.046	1	6/4/2010	
Fluoranthene	BQL	0.361	0.058	1	6/4/2010	
Fluorene	BQL	0.361	0.056	1	6/4/2010	
Hexachlorobenzene	BQL	0.361	0.078	1	6/4/2010	
Hexachlorobutadiene	BQL	0.361	0.066	1	6/4/2010	
Hexachlorocyclopentadiene	BQL	0.723	0.071	1	6/4/2010	
Hexachloroethane	BQL	0.361	0.056	1	6/4/2010	
Indeno(1,2,3-c,d)pyrene	BQL	0.361	0.043	1	6/4/2010	
Isophorone	BQL	0.361	0.053	1	6/4/2010	
2-Methylnaphthalene	BQL	0.361	0.059	1	6/4/2010	

**Results for Semivolatiles
by GCMS 8270**

Client Sample ID: DPT-10 (0-2')
 Client Project ID: NCDOT US 17 ILM Bypass Parcel #59A
 Lab Sample ID: G128-2537-10J
 Lab Project ID: G128-2537
 Report Basis: Dry weight
 Initial Weight: 32.59 g

Analyzed By: DCS
 Date Collected: 5/25/2010 15:00
 Date Received: 5/28/2010
 Date Extracted: 6/3/2010
 Matrix: Soil
 % Solids: 84.91

Compound	Result mg/Kg	RL mg/Kg	MDL mg/Kg	Dilution Factor	Date Analyzed	Flag
2-Methylphenol	BQL	0.361	0.055	1	6/4/2010	
3- & 4-Methylphenol	BQL	0.361	0.047	1	6/4/2010	
Naphthalene	BQL	0.361	0.051	1	6/4/2010	
2-Nitroaniline	BQL	0.361	0.048	1	6/4/2010	
3-Nitroaniline	BQL	1.81	0.053	1	6/4/2010	
4-Nitroaniline	BQL	1.81	0.048	1	6/4/2010	
Nitrobenzene	BQL	0.361	0.048	1	6/4/2010	
2-Nitrophenol	BQL	0.361	0.053	1	6/4/2010	
4-Nitrophenol	BQL	1.81	0.063	1	6/4/2010	
N-Nitrosodi-n-propylamine	BQL	0.361	0.058	1	6/4/2010	
Pentachlorophenol	BQL	1.81	0.033	1	6/4/2010	
Phenanthrene	BQL	0.361	0.051	1	6/4/2010	
Phenol	BQL	0.361	0.049	1	6/4/2010	
Pyrene	BQL	0.361	0.049	1	6/4/2010	
1,2,4-Trichlorobenzene	BQL	0.361	0.065	1	6/4/2010	
2,4,5-Trichlorophenol	BQL	0.361	0.054	1	6/4/2010	
2,4,6-Trichlorophenol	BQL	0.361	0.032	1	6/4/2010	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	7.1	71		
2-Fluorophenol		10	9.8	98		
Nitrobenzene-d5		10	9	90		
Phenol-d6		10	10.2	102		
2,4,6-Tribromophenol		10	7.6	76		
4-Terphenyl-d14		10	8.6	86		

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.
 J = Detected below the quantitation limit.

Reviewed By:

**Results for Semivolatiles
by GCMS 8270**

Client Sample ID: DPT-09
 Client Project ID: NCDOT US 17 ILM Bypass Parcel #59A
 Lab Sample ID: G128-2537-11E
 Lab Project ID: G128-2537

Analyzed By: DCS
 Date Collected: 5/25/2010 15:30
 Date Received: 5/28/2010
 Date Extracted: 6/1/2010
 Matrix: Water

Initial Volume: 942 mL

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	5.31	1.18	1	6/2/2010	
Acenaphthylene	BQL	5.31	1.11	1	6/2/2010	
Anthracene	BQL	5.31	1.27	1	6/2/2010	
Benzo[a]anthracene	BQL	5.31	1.18	1	6/2/2010	
Benzo[a]pyrene	BQL	5.31	1.05	1	6/2/2010	
Benzo[b]fluoranthene	BQL	5.31	0.993	1	6/2/2010	
Benzo[g,h,i]perylene	BQL	5.31	1.19	1	6/2/2010	
Benzo[k]fluoranthene	BQL	5.31	1.46	1	6/2/2010	
Benzoic Acid	BQL	26.5	4.29	1	6/2/2010	
Bis(2-chloroethoxy)methane	BQL	5.31	1.22	1	6/2/2010	
Bis(2-chloroethyl)ether	BQL	5.31	1.18	1	6/2/2010	
Bis(2-chloroisopropyl)ether	BQL	5.31	1.13	1	6/2/2010	
Bis(2-ethylhexyl)phthalate	BQL	5.31	1.35	1	6/2/2010	
4-bromophenyl phenyl ether	BQL	5.31	1.17	1	6/2/2010	
Butylbenzylphthalate	BQL	5.31	1.18	1	6/2/2010	
2-Chloronaphthalene	BQL	5.31	0.908	1	6/2/2010	
2-Chlorophenol	BQL	5.31	1.07	1	6/2/2010	
4-Chloro-3-methylphenol	BQL	5.31	1.08	1	6/2/2010	
4-Chloroaniline	BQL	26.5	1.62	1	6/2/2010	
4-Chlorophenyl phenyl ether	BQL	5.31	1.17	1	6/2/2010	
Chrysene	BQL	5.31	1.39	1	6/2/2010	
Dibenzo[a,h]anthracene	BQL	5.31	1.22	1	6/2/2010	
Dibenzofuran	BQL	5.31	1.35	1	6/2/2010	
Di-n-Butylphthalate	BQL	5.31	1.50	1	6/2/2010	
1,2-Dichlorobenzene	BQL	5.31	0.663	1	6/2/2010	
1,3-Dichlorobenzene	BQL	5.31	0.552	1	6/2/2010	
1,4-Dichlorobenzene	BQL	5.31	0.568	1	6/2/2010	
3,3'-Dichlorobenzidine	BQL	10.6	1.34	1	6/2/2010	
2,4-Dichlorophenol	BQL	5.31	0.977	1	6/2/2010	
Diethylphthalate	BQL	5.31	1.44	1	6/2/2010	
Dimethylphthalate	BQL	5.31	1.27	1	6/2/2010	
2,4-Dimethylphenol	BQL	5.31	0.727	1	6/2/2010	
Di-n-octylphthalate	BQL	5.31	1.14	1	6/2/2010	
4,6-Dinitro-2-methylphenol	BQL	26.5	2.26	1	6/2/2010	
2,4-Dinitrophenol	BQL	26.5	0.775	1	6/2/2010	
2,4-Dinitrotoluene	BQL	5.31	1.28	1	6/2/2010	
2,6-Dinitrotoluene	BQL	5.31	1.41	1	6/2/2010	
Diphenylamine *	BQL	5.31	1.42	1	6/2/2010	
Fluoranthene	BQL	5.31	1.46	1	6/2/2010	
Fluorene	BQL	5.31	1.36	1	6/2/2010	
Hexachlorobenzene	BQL	5.31	1.74	1	6/2/2010	
Hexachlorobutadiene	BQL	5.31	0.658	1	6/2/2010	
Hexachlorocyclopentadiene	BQL	10.6	1.03	1	6/2/2010	
Hexachloroethane	BQL	5.31	0.786	1	6/2/2010	
Indeno(1,2,3-c,d)pyrene	BQL	5.31	1.10	1	6/2/2010	
Isophorone	BQL	5.31	1.02	1	6/2/2010	
2-Methylnaphthalene	BQL	5.31	0.876	1	6/2/2010	

**Results for Semivolatiles
by GCMS 8270**

Client Sample ID: DPT-09
 Client Project ID: NCDOT US 17 ILM Bypass Parcel #59A
 Lab Sample ID: G128-2537-11E
 Lab Project ID: G128-2537

Analyzed By: DCS
 Date Collected: 5/25/2010 15:30
 Date Received: 5/28/2010
 Date Extracted: 6/1/2010
 Matrix: Water

Initial Volume: 942 mL

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
2-Methylphenol	BQL	5.31	0.817	1	6/2/2010	
3- & 4-Methylphenol	BQL	5.31	1.78	1	6/2/2010	
Naphthalene	BQL	5.31	0.833	1	6/2/2010	
2-Nitroaniline	BQL	5.31	1.45	1	6/2/2010	
3-Nitroaniline	BQL	26.5	1.27	1	6/2/2010	
4-Nitroaniline	BQL	26.5	1.10	1	6/2/2010	
Nitrobenzene	BQL	5.31	1.06	1	6/2/2010	
2-Nitrophenol	BQL	5.31	0.950	1	6/2/2010	
4-Nitrophenol	BQL	26.5	1.51	1	6/2/2010	
N-Nitrosodi-n-propylamine	BQL	5.31	1.62	1	6/2/2010	
Pentachlorophenol	BQL	26.5	1.30	1	6/2/2010	
Phenanthrene	BQL	5.31	1.27	1	6/2/2010	
Phenol	BQL	5.31	0.966	1	6/2/2010	
Pyrene	BQL	5.31	1.23	1	6/2/2010	
1,2,4-Trichlorobenzene	BQL	5.31	0.823	1	6/2/2010	
2,4,5-Trichlorophenol	BQL	5.31	1.21	1	6/2/2010	
2,4,6-Trichlorophenol	BQL	5.31	0.982	1	6/2/2010	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	8.6	86		
2-Fluorophenol		10	7.6	76		
Nitrobenzene-d5		10	8.6	86		
Phenol-d6		10	8.6	86		
2,4,6-Tribromophenol		10	10.3	103		
4-Terphenyl-d14		10	8.5	85		

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.
 J = Detected below the quantitation limit.

Reviewed By: 

Results for Metals

Client Sample ID:	DPT-01 (14-16')	Analyzed By:	CRN PSW
Client Project ID:	NCDOT US 17 ILM Bypass Parcel #59A	Date Collected:	5/25/2010 13:15
Lab Sample ID:	G128-2537-1	Date Received:	5/28/2010
Lab Project ID:	G128-2537	Matrix:	SOIL
ICP InitWt/Vol:	0.58 g	Final Vol:	50 mL
Hg InitWt/Vol:	0.51 g	Final Vol:	50 mL
Prep Batch:	16727 16730	Report Basis:	Dry

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Arsenic	3.09	1.14	0.671	1	MG/KG	6010C	6/5/2010	
Barium	3.07	11.4	1.26	1	MG/KG	6010C	6/5/2010	J
Cadmium	0.429	1.14	0.0918	1	MG/KG	6010C	6/5/2010	JB
Chromium	13.1	1.14	0.135	1	MG/KG	6010C	6/5/2010	
Lead	0.926	1.14	0.704	1	MG/KG	6010C	6/5/2010	J
Mercury	BQL	0.0259	0.00149	1	MG/KG	7471	6/3/2010	
Selenium	BQL	2.27	0.642	1	MG/KG	6010C	6/5/2010	
Silver	0.684	1.14	0.105	1	MG/KG	6010C	6/5/2010	JB

Comments

BQL = Below Quantitation Limits
 DF = Dilution Factor
 J = Between MDL and RL
 B= Amount in Prep Blank > MDL

Reviewed By: 
 METALS.XLS

Results for Metals

Client Sample ID:	DPT-02 (2-4')		Analyzed By:	CRN PSW
Client Project ID:	NCDOT US 17 ILM Bypass Parcel #59A		Date Collected:	5/25/2010 13:35
Lab Sample ID:	G128-2537-2		Date Received:	5/28/2010
Lab Project ID:	G128-2537		Matrix:	SOIL
ICP InitWt/Vol:	0.57 g	Final Vol: 50 mL	Solids	95.37
Hg InitWt/Vol:	0.55 g	Final Vol: 50 mL	Report Basis:	Dry
Prep Batch:	16727 16730			

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Arsenic	BQL	0.920	0.543	1	MG/KG	6010C	6/5/2010	
Barium	2.80	9.20	1.02	1	MG/KG	6010C	6/5/2010	J
Cadmium	0.244	0.920	0.0743	1	MG/KG	6010C	6/5/2010	JB
Chromium	1.10	0.920	0.109	1	MG/KG	6010C	6/5/2010	
Lead	0.730	0.920	0.569	1	MG/KG	6010C	6/5/2010	J
Mercury	0.00493	0.0191	0.00110	1	MG/KG	7471	6/3/2010	J
Selenium	BQL	1.84	0.520	1	MG/KG	6010C	6/5/2010	
Silver	0.568	0.920	0.0846	1	MG/KG	6010C	6/5/2010	JB

Comments

BQL = Below Quantitation Limits
 DF = Dilution Factor
 J = Between MDL and RL
 B= Amount in Prep Blank > MDL

Reviewed By: 
 METALS.XLS

Results for Metals

Client Sample ID:	DPT-03 (2-4')	Analyzed By:	CRN PSW
Client Project ID:	NCDOT US 17 ILM Bypass Parcel #59A	Date Collected:	5/25/2010 16:00
Lab Sample ID:	G128-2537-3	Date Received:	5/28/2010
Lab Project ID:	G128-2537	Matrix:	SOIL
ICP InitWt/Vol:	0.52 g	Final Vol:	50 mL
Hg InitWt/Vol:	0.57 g	Final Vol:	50 mL
Prep Batch:	16727 16730	Solids	84.97
		Report Basis:	Dry

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Arsenic	1.33	1.13	0.668	1	MG/KG	6010C	6/5/2010	
Barium	15.1	11.3	1.26	1	MG/KG	6010C	6/5/2010	
Cadmium	0.329	1.13	0.0914	1	MG/KG	6010C	6/5/2010	JB
Chromium	9.71	1.13	0.135	1	MG/KG	6010C	6/5/2010	
Lead	5.94	1.13	0.700	1	MG/KG	6010C	6/5/2010	
Mercury	0.0100	0.0206	0.00119	1	MG/KG	7471	6/3/2010	J
Selenium	BQL	2.26	0.639	1	MG/KG	6010C	6/5/2010	
Silver	0.733	1.13	0.104	1	MG/KG	6010C	6/5/2010	JB

Comments

BQL = Below Quantitation Limits
 DF = Dilution Factor
 J = Between MDL and RL
 B= Amount in Prep Blank > MDL

Reviewed By: 
 METALS.XLS

Results for Metals

Client Sample ID:	DPT-04 (6-8')	Analyzed By:	CRN PSW
Client Project ID:	NCDOT US 17 ILM Bypass Parcel #59A	Date Collected:	5/25/2010 14:15
Lab Sample ID:	G128-2537-4	Date Received:	5/28/2010
Lab Project ID:	G128-2537	Matrix:	SOIL
ICP InitWt/Vol:	0.6 g	Final Vol:	50 mL
Hg InitWt/Vol:	0.57 g	Final Vol:	50 mL
Prep Batch:	16727 16730	Solids	90.01
		Report Basis:	Dry

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Arsenic	1.48	0.926	0.546	1	MG/KG	6010C	6/5/2010	
Barium	5.64	9.26	1.03	1	MG/KG	6010C	6/5/2010	J
Cadmium	0.307	0.926	0.0748	1	MG/KG	6010C	6/5/2010	JB
Chromium	13.5	0.926	0.110	1	MG/KG	6010C	6/5/2010	
Lead	4.86	0.926	0.573	1	MG/KG	6010C	6/5/2010	
Mercury	BQL	0.0195	0.00112	1	MG/KG	7471	6/3/2010	
Selenium	BQL	1.85	0.523	1	MG/KG	6010C	6/5/2010	
Silver	0.624	0.926	0.0852	1	MG/KG	6010C	6/5/2010	JB

Comments

BQL = Below Quantitation Limits
 DF = Dilution Factor
 J = Between MDL and RL
 B= Amount in Prep Blank > MDL

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Results for Metals

Client Sample ID:	DPT-05 (2-4')		Analyzed By:	CRN PSW
Client Project ID:	NCDOT US 17 ILM Bypass Parcel #59A		Date Collected:	5/25/2010 14:00
Lab Sample ID:	G128-2537-5		Date Received:	5/28/2010
Lab Project ID:	G128-2537		Matrix:	SOIL
ICP InitWt/Vol:	0.53 g	Final Vol: 50 mL	Solids	90.79
Hg InitWt/Vol:	0.54 g	Final Vol: 50 mL	Report Basis:	Dry
Prep Batch:	16727 16730			

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Arsenic	BQL	1.04	0.613	1	MG/KG	6010C	6/5/2010	
Barium	7.49	10.4	1.15	1	MG/KG	6010C	6/5/2010	J
Cadmium	0.311	1.04	0.0840	1	MG/KG	6010C	6/5/2010	JB
Chromium	2.62	1.04	0.124	1	MG/KG	6010C	6/5/2010	
Lead	2.14	1.04	0.643	1	MG/KG	6010C	6/5/2010	
Mercury	BQL	0.0204	0.00117	1	MG/KG	7471	6/3/2010	
Selenium	BQL	2.08	0.587	1	MG/KG	6010C	6/5/2010	
Silver	0.654	1.04	0.0956	1	MG/KG	6010C	6/5/2010	JB

Comments

BQL = Below Quantitation Limits
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 B= Amount in Prep Blank > MDL

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Results for Metals

Client Sample ID:	DPT-06 (4-6')	Analyzed By:	CRN PSW
Client Project ID:	NCDOT US 17 ILM Bypass Parcel #59A	Date Collected:	5/25/2010 14:40
Lab Sample ID:	G128-2537-6	Date Received:	5/28/2010
Lab Project ID:	G128-2537	Matrix:	SOIL
ICP InitWt/Vol:	0.54 g	Final Vol:	50 mL
Hg InitWt/Vol:	0.58 g	Final Vol:	50 mL
Prep Batch:	16727 16730	Solids	82.19
		Report Basis:	Dry

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Arsenic	4.62	1.13	0.565	1	MG/KG	6010C	6/5/2010	
Barium	7.61	11.3	1.25	1	MG/KG	6010C	6/5/2010	J
Cadmium	0.538	1.13	0.0910	1	MG/KG	6010C	6/5/2010	JB
Chromium	16.5	1.13	0.134	1	MG/KG	6010C	6/5/2010	
Lead	4.38	1.13	0.697	1	MG/KG	6010C	6/5/2010	
Mercury	0.00936	0.0210	0.00121	1	MG/KG	7471	6/3/2010	J
Selenium	BQL	2.25	0.637	1	MG/KG	6010C	6/5/2010	
Silver	0.749	1.13	0.104	1	MG/KG	6010C	6/5/2010	JB

Comments

BQL = Below Quantitation Limits
 DF = Dilution Factor
 J = Between MDL and RL
 B= Amount in Prep Blank > MDL

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Results for Metals

Client Sample ID:	DPT-07 (2-4')		Analyzed By:	CRN PSW	
Client Project ID:	NCDOT US 17 ILM Bypass Parcel #59A		Date Collected:	5/25/2010 13:45	
Lab Sample ID:	G128-2537-7		Date Received:	5/28/2010	
Lab Project ID:	G128-2537		Matrix:	SOIL	
ICP InitWt/Vol:	0.6 g	Final Vol:	50 mL	Solids	88.35
Hg InitWt/Vol:	0.51 g	Final Vol:	50 mL	Report Basis:	Dry
Prep Batch:	16727 16730				

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Arsenic	4.72	0.943	0.556	1	MG/KG	6010C	6/5/2010	
Barium	11.2	9.43	1.05	1	MG/KG	6010C	6/5/2010	
Cadmium	0.606	0.943	0.0762	1	MG/KG	6010C	6/5/2010	JB
Chromium	17.9	0.943	0.112	1	MG/KG	6010C	6/5/2010	
Lead	4.45	0.943	0.584	1	MG/KG	6010C	6/5/2010	
Mercury	0.0292	0.0222	0.00128	1	MG/KG	7471	6/3/2010	
Selenium	1.50	1.89	0.533	1	MG/KG	6010C	6/5/2010	J
Silver	0.605	0.943	0.0868	1	MG/KG	6010C	6/5/2010	JB

Comments

BQL = Below Quantitation Limits
 DF = Dilution Factor
 J = Between MDL and RL
 B= Amount in Prep Blank > MDL

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Results for Metals

Client Sample ID:	DPT-08 (0-2')		Analyzed By:	CRN PSW
Client Project ID:	NCDOT US 17 ILM Bypass Parcel #59A		Date Collected:	5/25/2010 13:55
Lab Sample ID:	G128-2537-8		Date Received:	5/28/2010
Lab Project ID:	G128-2537		Matrix:	SOIL
ICP InitWt/Vol:	0.58 g	Final Vol: 50 mL	Solids	93.07
Hg InitWt/Vol:	0.56 g	Final Vol: 50 mL	Report Basis:	Dry
Prep Batch:	16727 16730			

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Arsenic	0.809	0.926	0.546	1	MG/KG	6010C	6/5/2010	J
Barium	8.40	9.26	1.03	1	MG/KG	6010C	6/5/2010	J
Cadmium	0.329	0.926	0.0748	1	MG/KG	6010C	6/5/2010	JB
Chromium	3.08	0.926	0.110	1	MG/KG	6010C	6/5/2010	
Lead	4.70	0.926	0.573	1	MG/KG	6010C	6/5/2010	
Mercury	0.0185	0.0192	0.00110	1	MG/KG	7471	6/3/2010	J
Selenium	BQL	1.85	0.523	1	MG/KG	6010C	6/5/2010	
Silver	0.627	0.926	0.0852	1	MG/KG	6010C	6/5/2010	JB

Comments

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Results for Metals

Client Sample ID:	DPT-09 (0-2')	Analyzed By:	CRN PSW
Client Project ID:	NCDOT US 17 ILM Bypass Parcel #59A	Date Collected:	5/25/2010 15:30
Lab Sample ID:	G128-2537-9	Date Received:	5/28/2010
Lab Project ID:	G128-2537	Matrix:	SOIL
ICP InitWt/Vol:	0.51 g	Final Vol:	50 mL
Hg InitWt/Vol:	0.55 g	Final Vol:	50 mL
Prep Batch:	16727 16730	Solids	89.84
		Report Basis:	Dry

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Arsenic	4.66	1.09	0.644	1	MG/KG	6010C	6/5/2010	
Barium	17.0	10.9	1.21	1	MG/KG	6010C	6/5/2010	
Cadmium	0.475	1.09	0.0882	1	MG/KG	6010C	6/5/2010	JB
Chromium	12.2	1.09	0.130	1	MG/KG	6010C	6/5/2010	
Lead	5.19	1.09	0.675	1	MG/KG	6010C	6/5/2010	
Mercury	0.00663	0.0202	0.00116	1	MG/KG	7471	6/3/2010	J
Selenium	0.818	2.18	0.617	1	MG/KG	6010C	6/5/2010	J
Silver	0.704	1.09	0.100	1	MG/KG	6010C	6/5/2010	JB

Comments

BQL = Below Quantitation Limits
 DF = Dilution Factor
 J = Between MDL and RL
 B= Amount in Prep Blank > MDL

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Results for Metals

Client Sample ID:	DPT-10 (0-2')	Analyzed By:	CRN PSW
Client Project ID:	NCDOT US 17 ILM Bypass Parcel #59A	Date Collected:	5/25/2010 15:00
Lab Sample ID:	G128-2537-10	Date Received:	5/28/2010
Lab Project ID:	G128-2537	Matrix:	SOIL
ICP InitWt/Vol:	0.52 g	Final Vol:	50 mL
Hg InitWt/Vol:	0.56 g	Final Vol:	50 mL
Prep Batch:	16727 16730	Report Basis:	Dry

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Arsenic	1.40	1.13	0.668	1	MG/KG	6010C	6/5/2010	
Barium	15.7	11.3	1.26	1	MG/KG	6010C	6/5/2010	
Cadmium	0.486	1.13	0.0915	1	MG/KG	6010C	6/5/2010	JB
Chromium	4.45	1.13	0.135	1	MG/KG	6010C	6/5/2010	
Lead	12.1	1.13	0.701	1	MG/KG	6010C	6/5/2010	
Mercury	0.00829	0.0210	0.00121	1	MG/KG	7471	6/3/2010	J
Selenium	BQL	2.26	0.640	1	MG/KG	6010C	6/5/2010	
Silver	0.755	1.13	0.104	1	MG/KG	6010C	6/5/2010	JB

Comments

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1 CLIENT: CATLIN / NCDOT
 CONTACT: Ben Ashbro CATLIN PHONE NO: (910) 452-5861
 PROJECT: NCDOT US17-ILM ~~SP/ISS~~ PARCEL #59A
 REPORTS TO: Ben Ashbr @ CATLIN FAX NO: ()
 INVOICE TO: NCDOT
 QUOTE # WBS: 3449-1.2
 PO NUMBER: 26333B

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	CONTAINERS	SAMPLE TYPE	Preservatives Used	Analysis Required	REMARKS
	DPT-01 (14-16')	5-25-10	1315	SOIL	S	G	✓	✓	Wet labels - Boring/ Sample ID written on top of jars
	DPT-02 (2-4')		1335		S	G	✓	✓	
	DPT-03 (2-4')		1600		S	G	✓	✓	
	DPT-04 (6-8')		1415		S	G	✓	✓	
	DPT-05 (2-4')		1400		S	G	✓	✓	
	DPT-06 (4-6')		1440		S	G	✓	✓	
	DPT-07 (2-4')		1345		S	G	✓	✓	
	DPT-08 (0-2')		1355		S	G	✓	✓	
	DPT-09 (0-2')		1530		S	G	✓	✓	
	DPT-10 (0-2')		1500		S	G	✓	✓	
	DPT-08				S	G	✓	✓	

SGS Reference: 6128-2537
 PAGE 1 OF 1

Shipping Carrier:
 Shipping Ticket No: 209
 Samples Received Cold? (Circle YES) NO
 Temperature °C: 20.9
 Chain of Custody Seal: (Circle) INTACT BROKEN
 Summary EDD
 Special Instructions: Please report any low runs, screening OK.
 Requested Turnaround Time: RUSH STD

2 Collected/Relinquished By: (1) Ben Ashbr Date 5/28/10 Time 1100
 Received By: [Signature] Time [Signature]
 Relinquished By: (2) [Signature] Time [Signature]
 Relinquished By: (3) [Signature] Time [Signature]
 Relinquished By: (4) [Signature] Time [Signature]