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June 6, 2008

North Carolina Department of Transportation
Geotechnical Engineering Unit
GeoEnvironmental Section
Attn: Mr. Terry W. Fox, LG
MSC 1589
Raleigh, North Carolina 27699-1589

**Re:** ***Preliminary Site Assessment***
**Parcel 910**
**Tidewater Transit Company, Inc. Property**
**3305 Fredrickson Road**

**State Project: R-2633B**
**WBS Element: 34491.1.2**
**County: New Hanover**
**Description: US 17 / Wilmington Bypass from US 74-76 East of Malmo in Brunswick County to US 421 North of Wilmington in New Hanover County**

**CATLIN Project No. 208-013**

Dear Mr. Fox:

Enclosed are three (3) copies of the *Preliminary Site Assessment* for the above referenced project.

If you have any questions or comments, please feel free to contact us at (910) 452-5861.

Sincerely,

Benjamin J. Ashba
Project Manager

G. Richard Garrett, P.G.
CATLIN Contract Manager

BJA/GRG/ba

Enclosures

*208-013 PSA Ltr.doc*

# PRELIMINARY SITE ASSESSMENT

# FOR

# PARCEL 910
# TIDEWATER TRANSIT COMPANY, INC. PROPERTY
# 3305 FREDRICKSON ROAD
# WILMINGTON, NEW HANOVER COUNTY, NORTH CAROLINA

**STATE PROJECT: R-2633B**
**WBS ELEMENT: 34491.1.2**
**DESCRIPTION: US 17 / Wilmington Bypass**
**from US 74-76 East of Malmo in Brunswick County**
**to US 421 North of Wilmington in New Hanover County**

**PREPARED FOR:**

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

**JUNE 6, 2008**

**PREPARED BY:**

**CATLIN ENGINEERS AND SCIENTISTS**
**P. O. BOX 10279**
**WILMINGTON, NORTH CAROLINA 28404-0279**
**(910) 452-5861**

**CATLIN PROJECT NO. 208-013**

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# 1.0 INTRODUCTION

## 1.1 PURPOSE OF INVESTIGATION AND DESCRIPTION

CATLIN Engineers and Scientists (CATLIN) was retained by the North Carolina Department of Transportation (NCDOT) Geotechnical Engineering Unit in March 2008 to provide a field investigation concluding with a report of findings for the above referenced property. In response to a Request for Technical and Cost Proposal (RFP) dated March 27, 2008, CATLIN submitted a proposal for conducting an investigation at the above referenced parcel in Wilmington, North Carolina. Figure 1 illustrates the project vicinity.

According to the RFP:

> Acquisition of the right-of-way is necessary for the construction of the Wilmington Bypass. A Preliminary Site Assessment (PSA) is to be performed only within the proposed right-of-way and/or easement.

The workscope as requested includes:

- Locate all underground storage tanks (USTs) and determine approximate size and contents (if any).
- Determine if contaminated soils are present with emphasis along any proposed drainage areas.

- If contamination is evident, estimate the quantity of impacted soils and indicate the approximate area of soil contamination on a site map.
- Prepare and submit one report of findings including field activities, findings, and recommendations in triplicate and electronically to the NCDOT GeoEnvironmental Section.

CATLIN began field reconnaissance on April 18, 2008. This report documents our activities and findings.

## 1.2 BACKGROUND INFORMATION

CATLIN contacted the North Carolina Department of Environment and Natural Resources (NCDENR) for historical information near the project area. The property at 3305 Fredrickson Road (Parcel 910 – Tidewater Transit, Facility ID# 0-022721) was identified by the NCDENR as Groundwater Incident Number 16548. According to the NCDENR and information provided by NCDOT, a diesel fuel leak was discovered in 1996. The UST system consisted of a 12,000-gallon diesel fuel tank and a dispenser located above the tank. The UST system was removed and following subsequent soil removal and assessment, the incident was closed in 1998.

A 2005 site reconnaissance (by CATLIN) found two (2) 8,000-gallon diesel ASTs within a containment area, an active diesel dispenser, and five (5) 8-10,000-gallon former chemical ASTs (filled with water and utilized for training purposes according to site personnel).

During this recent investigation, a truck wash down area was in use and according to Tidewater Transit personnel, there are floor drains in the maintenance/repair building that flow to an oil-water separator and/or septic system. The oil-water separator and/or septic tank manholes were identified. The exact location of the oil-water separator and/or septic system leach field was not determined.

The subject site is utilized by a chemical transportation company for tanker trailer storage and fleet maintenance. According to the New Hanover County Register of Deeds information accessed online, the property was purchased by the Tidewater Transit Company, Inc. in 1993. The previous site operations are unknown.

According to the RFP, most of the Tidewater Transit parcel will be covered in fill to create an embankment for four (4) structures to be built over Fredrickson Road (north) and the rail line (south). No apparent drainage features were identified on the Tidewater Transit parcel. In follow-up discussions with Terry Fox it was determined that soil samples would be collected across the Tidewater Transit property in areas of potential contamination and along drainage features identified on the NCDOT

supplied figure within the adjacent parcel south of Sutton Steam Plant Road.

## 2.0 METHODS

### 2.1 FIELD METHODS

Soil boring locations were established at the drainage features adjacent to the Tidewater Transit property south of Sutton Steam Plant Road. Coordinates were determined from figures provided by NCDOT. Coordinates were loaded into a Global Positioning System (GPS) data collector and the locations were identified and flagged in the field utilizing a Trimble® GPS.

Soil boring locations were also established across the Tidewater Transit site at possible areas of suspected contamination. Possible contamination was suspected near the former UST, the active fuel AST and associated dispenser and piping, historical chemical ASTs, and near the oil-water separator(s), septic tank(s), leach field and rear of tanker parking areas.

Soil borings were advanced along the drainage features adjacent to the Tidewater Transit site south of Sutton Steam Plant Road by hand-auger method. Before boring advancement, a stainless steel hand auger bucket was cleaned using liquinox® and rinsed with alcohol and distilled water. Grab soil samples were collected from approximately one foot below land surface (BLS) and packed directly into laboratory provided glassware.

CATLIN personnel gathered subsurface soil data at the Tidewater Transit site by Direct Push Technology (DPT) boring advancement using an AMS PowerProbe™ 9600D (PowerProbe). When using the PowerProbe, the borings are 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 are continuously collected in one and one-half inch 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 eight feet BLS. The first boring, DPT-01 was advanced to 12 feet BLS for approximate depth to water (DTW) determination.

Soil samples from across the Tidewater Transit parcel in areas of potential chemical impact were collected from composited soil material near the surface to eight feet deep. Due to the volume of sample material required for analysis and the small diameter of the PowerProbe® soil sample liners (and thus, small volume of soil recovered), soils were collected from near the surface to eight feet deep for laboratory analysis. The soil samples

near the active fuel dispenser and line [DPT-12 (3-5') and DPT-17 (3-4')] were collected from approximately four feet deep. The soil samples on the Tidewater Transit parcel near the former UST system (DPT-18 and DPT-19) were collected from approximately six to eight feet deep. The soil samples from south of Sutton Steam Plant Road along the proposed drainage ditch were collected approximately one foot deep.

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.

Boreholes were abandoned to 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 equipment. Borehole locations and site features (including proposed drainage) are illustrated on Figure 2.

## 2.2 LABORATORY TESTING

Following boring advancement, soils were removed from the liners and placed in the appropriately labeled glassware. Soil samples collected near the former UST, the active AST fuel dispenser and line, and the proposed drainage features (adjacent to the Tidewater Transit site) were analyzed for total petroleum hydrocarbon (TPH) diesel and gasoline range organics (DRO and GRO) by Environmental Protection Agency (EPA) Methods 5030 and 3550 with analysis by modified 8015. Six (6) soil samples were submitted for TPH analysis. Any soil samples revealing detectable TPH concentrations are considered petroleum impacted.

Soil samples collected across the Tidewater Transit site were analyzed for the presence of possible constituents found in chemicals typically transported by local haulers. Fifteen (15) soil samples were analyzed for the presence of volatile and semi-volatile organics, glycols, and formaldehyde per EPA Methods 8260, 8270, modified 8015, and 8315A respectively. The soil sample's pH was also determined at the laboratory (outside of the 15 minute hold time) by EPA Method 9045.

CATLIN utilized the lesser of the North Carolina Department of Environment and Natural Resources (NCDENR) Hazardous Waste Section (HWS) Soil Screening Levels (SSLs) or the Environmental Protection Agency (EPA) Region 9 Residential Preliminary Remediation Goals (PRGs) for comparison of analytical results and contamination impact determination.

## 3.0 FIELD ACTIVITIES

Soil borings were advanced along the proposed NCDOT drainage features (adjacent to the Tidewater Transit site across Sutton Steam Plant Road) and across the Tidewater Transport property. Based on historical figures reviewed at the NCDENR, the approximate former diesel UST system location was identified. Soil boring and sample locations are shown on Figure 2. A total of 21 borings were advanced for soil sample collection.

Soils were collected continuously to approximately eight (8) feet BLS except one boring was advanced to 12 feet deep (for depth to groundwater determination) and the hand-auger borings adjacent to the Tidewater Transit site were only advanced to one-foot BLS. Soils were visually/manually classified according to the USCS. Soil classifications are provided on the Boring Logs in Appendix A.

## 4.0 RESULTS

Sandy soils were encountered across the project location. The depth to water was measured in the DPT-01 boring at approximately nine feet BLS. Complete boring logs are provided in Appendix A. Summarized analytical results are provided on Tables 1 through 3. Sample locations and summarized results are illustrated on Figure 2. The complete analytical report is provided in Appendix B.

TOTAL PETROLEUM HYDROCARBONS

Summarized TPH DRO and GRO results are provided on Table 1. No TPH DRO or GRO concentrations were revealed above the laboratory reporting limit in any of the soil samples except the DPT-19 (6-8') soil sample. The DPT-19 boring was advanced south of the approximate former UST system location. The soil sample collected from six to eight feet deep from DPT-19 revealed 452 milligrams per kilogram (mg/kg) TPH DRO.

VOLATILE AND SEMI-VOLATILE ORGANICS

Summarized volatile and semi-volatile organics analysis results are provided on Table 2. Numerous compounds were detected across the site above the laboratory method detection limit. The DPT-09 soil sample collected from near the edge of the gravel parking area revealed Benzo[a]pyrene above the North Carolina Hazardous Waste Section Soil Screening Level (NC HWS SSL) and the United States Environmental Protection Agency's Region 9 Residential Risk-Based Preliminary Remediation Goal (US EPA Res. PRG). No other compound concentrations were detected above the corresponding NC HWS SSL or US EPA Res. PRG.

GLYCOLS, FORMALDEHYDE, AND pH

Summarized glycols, formaldehyde, and pH results are provided on Table 3. No Ethylene Glycol concentrations were detected in any of the soil samples above the NC HWS SSL or US EPA Res. PRG. An estimated (J value) Propylene Glycol concentration of 0.78 mg/kg was detected in the DPT-15 soil sample; however, there is no established SSL or PRG for Propylene Glycol. Propylene Glycol was not detected in any of the other soil samples.

Formaldehyde was detected in all the soil samples; however, there is no established Formaldehyde SSL or PRG. Formaldehyde results ranged from 2,100 micrograms per kilogram (ug/kg) to 5,900 ug/kg. According to the laboratory case narrative, 2,800 ug/kg formaldehyde was detected in the associated laboratory method blank. These background concentrations in the method blank introduce a possible high bias for the concentrations found in the samples.

The soil sample pH values ranged from 6.05 to 8.97 standard units. As noted on the analytical report, the hold time for pH analysis in only 15 minutes and the samples were analyzed after the 15 minute hold time.

## 5.0 SUMMARY AND CONCLUSIONS

No proposed drainage features were identified within the Tidewater Transit property on the figures provided by NCDOT. A drainage ditch was identified adjacent to and south of the Tidewater Transit property across Sutton Steam Plant Road. Two hand-auger borings were advanced and two soils samples were collected for TPH analysis. No TPH concentrations were detected above the laboratory reporting limit in the samples collected along the proposed drainage feature (ditch).

Nineteen soil borings were advanced across the Tidewater Transit Company, Inc. property for soil sample collection. Soil samples were collected around a former leaking diesel UST system, an active diesel AST system, and areas of potential contamination including the tanker parking area, historical chemical ASTs and an oil-water separator/septic system. Soil samples collected around the former diesel UST system and active diesel dispenser and line were analyzed for TPH. Additional soil samples were analyzed for potential compounds indicative of chemicals typically hauled by transport companies in the area.

Sandy soils were encountered during boring advancement. One boring was advanced into the water table and the depth to water was measured at approximately nine feet BLS.

Analytical results revealed TPH impacted soil south of the former Tidewater Transit diesel UST system. According to NCDENR file review information, the former diesel dispenser was directly above the tank and there was a leak in the line. The UST system was removed and excavated soils were properly disposed. Based on this information, it is assumed that the former diesel leak did not cause wide spread lateral contamination migration. The diesel impacted soils revealed during this investigation are likely isolated to the area just outside the removed UST system. It is also feasible that the detected TPH DRO concentrations could be interpreted as smear zone contamination. According to NCDOT, the former UST area will be covered with roadway fill for the US 17 Wilmington Bypass construction. Should the soils near the former leaking UST system need to be removed, an estimated area 20 feet long by 5 feet wide by 9 feet deep (33 cubic yards) may be impacted with diesel contamination and need to be properly disposed.

The DPT-09 soil sample revealed Benzo[a]pyrene concentrations above the NC HWS SSL and US EPA Res. PRG. No other soil samples revealed any contaminant concentrations above the corresponding NC HWS SSLs or US EPA Res. PRGs. The Benzo[a]pyrene impacted soils revealed in the DPT-09 soil sample were not delineated to the west. Based on the distances to the closest "clean" samples from DPT-09, an area 80 feet by 50 feet by 9 feet deep (1,333 cubic yards) may be impacted with Benzo[a]pyrene above the NC HWS SSL and/or US EPA Res PRG. As previously mentioned, the proposed roadway construction includes a fill section across the Tidewater Transit Company, Inc. property. If soils are disturbed around the DPT-09 location, soils should be stockpiled and sampled to determine waste (disposal) characterization.

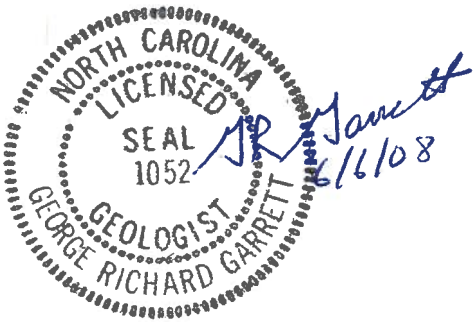
The exact location of the Tidewater Transit septic system's leach field was not determined during this investigation. Based on the nature of operations (chemical transportation, truck wash, and repair) at the site, petroleum and/or chemical impacted soils may be found in the immediate vicinity of the leach field. If during roadway construction, the leach field is uncovered, soils may need to be stockpiled and sampled to determine waste (disposal) characterization.

No other tanks or additional environmental concerns (other than the mentioned soil contamination, existing AST system, and oil-water separator/septic system) were identified within the proposed construction area.

## 6.0 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 sampling, CATLIN cannot guarantee that additional soil and/or groundwater contamination does not exist.

## 7.0 SIGNATURES




Benjamin J. Ashba
Project Manager

G. Richard Garrett, P.G.
Contract Manager

# TABLES

**TABLE 1**
**SUMMARY OF SOIL LABORATORY RESULTS –**
**TOTAL PETROLEUM HYDROCARBONS –**
**DIESEL AND GASOLINE RANGE ORGANICS**

| Sample ID | Contaminant of Concern → | | Diesel Range Organics | Gasoline Range Organics |
|---|---|---|---|---|
| | Date Collected | Sample Depth (ft. BLS) | | |
| **NCDENR ACTION LEVEL (mg/kg)** | | | 10 | 10 |
| DPT-12 (3-5') | 4/30/2008 | 3 - 5 | <6.13 | <5.67 |
| DPT-17 (3-4') | 4/30/2008 | 3 - 4 | <5.95 | <6.41 |
| DPT-18 | 5/1/2008 | 6 - 8 | <6.09 | <6.27 |
| DPT-19 | 5/1/2008 | 6 - 8 | **452** | <5.92 |
| HA-01 | 4/30/2008 | 1 | <5.89 | <5.93 |
| HA-02 | 4/30/2008 | 1 | <6.40 | <6.15 |

All results in milligrams per kilogram (mg/kg).
ft. BLS = Feet Below Land Surface.
< = Less than method detection limit
Results in bold exceed the NCDENR Action Level

**TABLE 2**
**SUMMARY OF SOIL LABORATORY RESULTS –**
**EPA METHODS 8260 AND 8270**

| Sample ID | Date Collected | Sample Depth (ft. BLS) | EPA METHOD 8260 COMPOUNDS | | | | | EPA METHOD 8270 COMPOUNDS | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Acetone | Methylene chloride | Tetrachloroethene | Toluene | All Other EPA Method 8260 Compounds | Acenaphthene | Acenaphthylene | Anthracene | Benzo[a]anthracene | Benzo[a]pyrene | Benzo[b]fluoranthene | Benzo[g,h,i]perylene | Benzo[k]fluoranthene | Bis(2-ethylhexyl)phthalate | Butylbenzylphthalate | Chrysene | Di-n-Butylphthalate | Di-n-octylphthalate | Fluoranthene | Fluorene | Indeno(1,2,3-c,d)pyrene | 2-Methylnaphthalene | Naphthalene | Phenanthrene | Pyrene | All Other EPA Method 8270 Compounds |
| **NC HWS SSL (mg/kg)**<br>**US EPA Region 9 Residential Risk-Based PRG (mg/kg)** | | | 2.81<br>14,000 | 0.0202<br>9.1 | 0.00742<br>0.48 | 7.27<br>520 | Varies<br>Varies | 8.16<br>3,700 | 11.4<br>469 | 995<br>22,000 | 0.343<br>0.62 | 0.0928<br>0.062 | 1.18<br>0.62 | 6,720<br>469 | 11.8<br>6.2 | 6.67<br>35 | 27.8<br>12,000 | 38.15<br>62 | 24.8<br>6,100 | 10,000<br>2,400 | 276<br>2,300 | 44.3<br>2,700 | 3.32<br>0.62 | 1.72<br>63 | 0.585<br>56 | 59.6<br>469 | 286<br>2,300 | Varies<br>Varies |
| DPT-01 | 4/30/2008 | 0 - 8 | <0.0496 | <0.00905 | <0.00509 | <0.00414 | BMDL | 0.108 J | 0.079 J | 0.057 J | 0.063 J | <0.049 | <0.055 | <0.086 | <0.061 | 0.238 J | 0.079 J | 0.063 J | 0.057 J | 0.082 J | 0.067 J | 0.120 J | <0.081 | 0.288 J | 0.086 J | 0.184 J | 0.070 J | BMDL |
| DPT-02 | 4/30/2008 | 0 - 8 | 0.0332 J | <0.00122 | <0.00094 | <0.00102 | BMDL | <0.045 | <0.042 | <0.046 | <0.054 | <0.048 | <0.055 | <0.085 | <0.061 | <0.042 | <0.048 | <0.034 | <0.037 | <0.052 | <0.044 | <0.039 | <0.080 | <0.092 | <0.025 | <0.036 | <0.060 | BMDL |
| DPT-03 | 4/30/2008 | 0 - 8 | 0.0347 J | <0.00115 | <0.00088 | 0.00152 J | BMDL | <0.046 | <0.043 | <0.047 | <0.056 | <0.050 | <0.057 | <0.088 | <0.063 | <0.044 | <0.050 | <0.035 | <0.039 | <0.054 | <0.045 | <0.040 | <0.083 | <0.095 | <0.026 | <0.037 | <0.062 | BMDL |
| DPT-04 | 4/30/2008 | 0 - 8 | 0.0334 J | <0.00123 | <0.00095 | <0.00103 | BMDL | <0.045 | <0.042 | <0.045 | <0.054 | <0.048 | <0.055 | <0.085 | <0.060 | <0.042 | <0.048 | <0.034 | <0.037 | <0.051 | <0.044 | <0.039 | <0.080 | <0.091 | <0.025 | <0.036 | <0.060 | BMDL |
| DPT-05 | 4/30/2008 | 0 - 8 | 0.0236 J | <0.00126 | <0.00097 | <0.00106 | BMDL | <0.047 | <0.044 | <0.048 | <0.057 | <0.050 | <0.057 | <0.089 | <0.063 | <0.044 | <0.051 | <0.035 | <0.039 | <0.054 | <0.046 | <0.041 | <0.084 | <0.096 | <0.027 | <0.037 | <0.063 | BMDL |
| DPT-06 | 4/30/2008 | 0 - 8 | 0.0467 J | <0.00127 | <0.00098 | <0.00107 | BMDL | <0.046 | <0.043 | <0.047 | <0.056 | <0.049 | <0.056 | <0.088 | <0.062 | <0.043 | <0.050 | <0.035 | <0.038 | <0.053 | <0.045 | <0.040 | <0.082 | <0.094 | <0.026 | <0.037 | <0.062 | BMDL |
| DPT-07 | 4/30/2008 | 0 - 8 | 0.0328 J | <0.00124 | <0.00096 | <0.00104 | BMDL | <0.047 | <0.044 | <0.048 | <0.057 | <0.051 | <0.058 | <0.090 | <0.064 | <0.044 | <0.051 | <0.036 | <0.039 | <0.054 | <0.046 | <0.041 | <0.084 | <0.096 | <0.027 | <0.038 | <0.063 | BMDL |
| DPT-08 | 4/30/2008 | 0 - 8 | 0.0464 J | <0.00113 | <0.00087 | <0.00095 | BMDL | <0.044 | <0.041 | <0.045 | <0.054 | <0.047 | <0.054 | <0.084 | <0.060 | <0.042 | <0.048 | <0.034 | <0.037 | <0.051 | <0.043 | <0.038 | <0.079 | <0.091 | <0.025 | <0.035 | <0.060 | BMDL |
| DPT-09 | 4/30/2008 | 0 - 8 | 0.0364 J | <0.00124 | <0.00095 | <0.00104 | BMDL | <0.045 | <0.042 | <0.046 | 0.341 | **0.268 J** | 0.429 | 0.151 J | 0.180 J | <0.042 | <0.049 | 0.322 | <0.038 | <0.052 | 0.388 | <0.039 | 0.133 J | <0.092 | <0.026 | <0.036 | 0.552 | BMDL |
| DPT-10 | 4/30/2008 | 0 - 8 | 0.0207 J | 0.00218 J | <0.00090 | <0.00098 | BMDL | <0.046 | <0.043 | <0.047 | <0.056 | <0.050 | <0.057 | <0.088 | <0.063 | <0.043 | <0.050 | <0.035 | <0.039 | <0.054 | <0.045 | <0.040 | <0.083 | <0.095 | <0.026 | <0.037 | <0.062 | BMDL |
| DPT-11 | 4/30/2008 | 0 - 8 | 0.0190 J | 0.00260 J | <0.00089 | <0.00096 | BMDL | <0.046 | <0.043 | <0.046 | <0.055 | <0.049 | <0.056 | <0.087 | <0.062 | <0.043 | <0.049 | <0.035 | <0.038 | <0.053 | <0.045 | <0.040 | <0.082 | <0.093 | <0.026 | <0.036 | <0.061 | BMDL |
| DPT-13 | 4/30/2008 | 0 - 8 | 0.0165 J | 0.00153 J | <0.00093 | <0.00102 | BMDL | <0.044 | <0.041 | <0.044 | <0.053 | <0.047 | <0.053 | <0.083 | <0.059 | <0.041 | <0.047 | <0.033 | <0.036 | <0.050 | <0.043 | <0.038 | <0.078 | <0.089 | <0.025 | <0.035 | <0.059 | BMDL |
| DPT-14 | 4/30/2008 | 0 - 8 | 0.0248 J | 0.00205 J | <0.00094 | <0.00103 | BMDL | <0.045 | <0.042 | <0.046 | <0.055 | <0.048 | <0.055 | <0.086 | <0.061 | 0.221 J | <0.049 | <0.034 | <0.038 | <0.052 | <0.044 | <0.039 | <0.081 | <0.092 | <0.026 | <0.036 | <0.061 | BMDL |
| DPT-15 | 4/30/2008 | 0 - 8 | 0.00762 J | <0.00124 | <0.00096 | <0.00104 | BMDL | <0.044 | <0.041 | <0.044 | <0.053 | <0.047 | <0.054 | <0.083 | <0.059 | 0.354 | <0.047 | <0.033 | <0.036 | <0.050 | <0.043 | <0.038 | <0.078 | <0.089 | <0.025 | <0.035 | <0.059 | BMDL |
| DPT-16 | 4/30/2008 | 0 - 8 | 0.0199 J | 0.00234 J | 0.00211 J | <0.00106 | BMDL | <0.045 | <0.042 | <0.045 | <0.054 | <0.048 | <0.055 | <0.085 | <0.060 | <0.042 | <0.048 | <0.034 | <0.037 | <0.052 | <0.044 | <0.039 | <0.080 | <0.091 | <0.025 | <0.036 | <0.060 | BMDL |

All results in milligrams per kilogram (mg/kg).
NE = None Established
ft. BLS = Feet Below Land Surface
< = Less than method detection limit
NC HWS SSL = North Carolina Hazardous Waste Section Soil Screening Level
US EPA = United States Environmental Protection Agency
PRG = Preliminary Remediation Goal
BMDL = Below Method Detection Limit
J = Estimated concentration, below calibration range and above method detection limit
Bold results indicate concentrations above the lower of the SSL or PRG.

**TABLE 3**
**SUMMARY OF SOIL LABORATORY RESULTS -**
**GLYCOLS, FORMALDEHYDE, AND pH**

| Sample ID | Contaminant of Concern → Date Collected | Sample Depth (ft. BLS) | Ethylene Glycol (mg/kg) | Propylene Glycol (mg/kg) | Formaldehyde (µg/kg) | pH (Standard Units) |
|---|---|---|---|---|---|---|
| **NC HWS SSL (mg/kg)** | | | 56 | NE | NE | NE |
| **US EPA Region 9 Residential Risk-Based PRG (mg/kg)** | | | 100,000 | NE | NE | NE |
| DPT-01 | 4/30/2008 | 0 - 8 | 12.6 | <0.314 | 2500 JB | 6.05 |
| DPT-02 | 4/30/2008 | 0 - 8 | 11.1 | <0.306 | 2800 JB | 6.27 |
| DPT-03 | 4/30/2008 | 0 - 8 | <0.312 | <0.312 | 2100 JB | 7.77 |
| DPT-04 | 4/30/2008 | 0 - 8 | <0.329 | <0.329 | 3000 JB | 7.07 |
| DPT-05 | 4/30/2008 | 0 - 8 | <0.328 | <0.328 | 3200 JB | 6.47 |
| DPT-06 | 4/30/2008 | 0 - 8 | 12.1 | <0.314 | 2600 JB | 7.90 |
| DPT-07 | 4/30/2008 | 0 - 8 | 14.0 | <0.329 | 2700 JB | 7.26 |
| DPT-08 | 4/30/2008 | 0 - 8 | <0.291 | <0.291 | 4400 B | 7.75 |
| DPT-09 | 4/30/2008 | 0 - 8 | 1.1 J | <0.291 | 2900 JB | 8.34 |
| DPT-10 | 4/30/2008 | 0 - 8 | <0.310 | <0.310 | 2800 JB | 8.60 |
| DPT-11 | 4/30/2008 | 0 - 8 | <0.311 | <0.311 | 2200 JB | 8.04 |
| DPT-13 | 4/30/2008 | 0 - 8 | 12.0 | <0.307 | 3100 JB | 8.20 |
| DPT-14 | 4/30/2008 | 0 - 8 | <0.314 | <0.314 | 5900 JB | 8.17 |
| DPT-15 | 4/30/2008 | 0 - 8 | 2.4 J | 0.78 J | 2700 JB | 8.97 |
| DPT-16 | 4/30/2008 | 0 - 8 | 1.2 J | <0.289 | 2300 JB | 7.75 |

mg/kg = milligrams per kilogram

µg/kg = micrograms per kilogram

NC HWS SSL = North Carolina Hazardous Waste Section Soil Screening Level

US EPA = United States Environmental Protection Agency

PRG = Preliminary Remediation Goal

NE = None Established

< = Less than method detection limit

B = Compound also detected in batch blank

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

# FIGURES

DESCRIPTION:
US 17/WILMINGTON BYPASS FROM US 74-76 EAST OF MALMO TO US 421 NORTH OF WILMINGTON

ENGLISH

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

PREPARED BY:
CATLIN Engineers and Scientists
208-013

SCALE:
AS SHOWN

TITLE:
# GENERAL LOCATION MAP


Source: Adapted from New Hanover County GIS Orthophotos (2006).

1,000 500 0 1,000 2,000
Feet
SCALE

N
W E
S

**SUMMARY OF SOIL LABORATORY RESULTS – TOTAL PETROLEUM HYDROCARBONS – DIESEL AND GASOLINE RANGE ORGANICS**

| Sample ID | Contaminant of Concern → Date Collected | Sample Depth (ft. BLS) | Diesel Range Organics (mg/kg) | Gasoline Range Organics (mg/kg) |
|---|---|---|---|---|
| NCDENR ACTION LEVEL (mg/kg) | | | 10 | 10 |
| DPT-12 (3-5') | 4/30/2008 | 3 - 5 | <6.13 | <5.67 |
| DPT-17 (3-4') | 4/30/2008 | 3 - 4 | <5.95 | <6.41 |
| DPT-18 | 5/1/2008 | 6 - 8 | <6.09 | <6.27 |
| DPT-19 | 5/1/2008 | 6 - 8 | **452** | <5.92 |
| HA-01 | 4/30/2008 | 1 | <5.89 | <5.93 |
| HA-02 | 4/30/2008 | 1 | <6.40 | <6.15 |

ft. BLS = Feet Below Land Surface.
< = Less than method detection limit
Results in bold exceed the NCDENR Action Level

**SUMMARY OF SOIL LABORATORY RESULTS – EPA METHODS 8260 AND 8270**

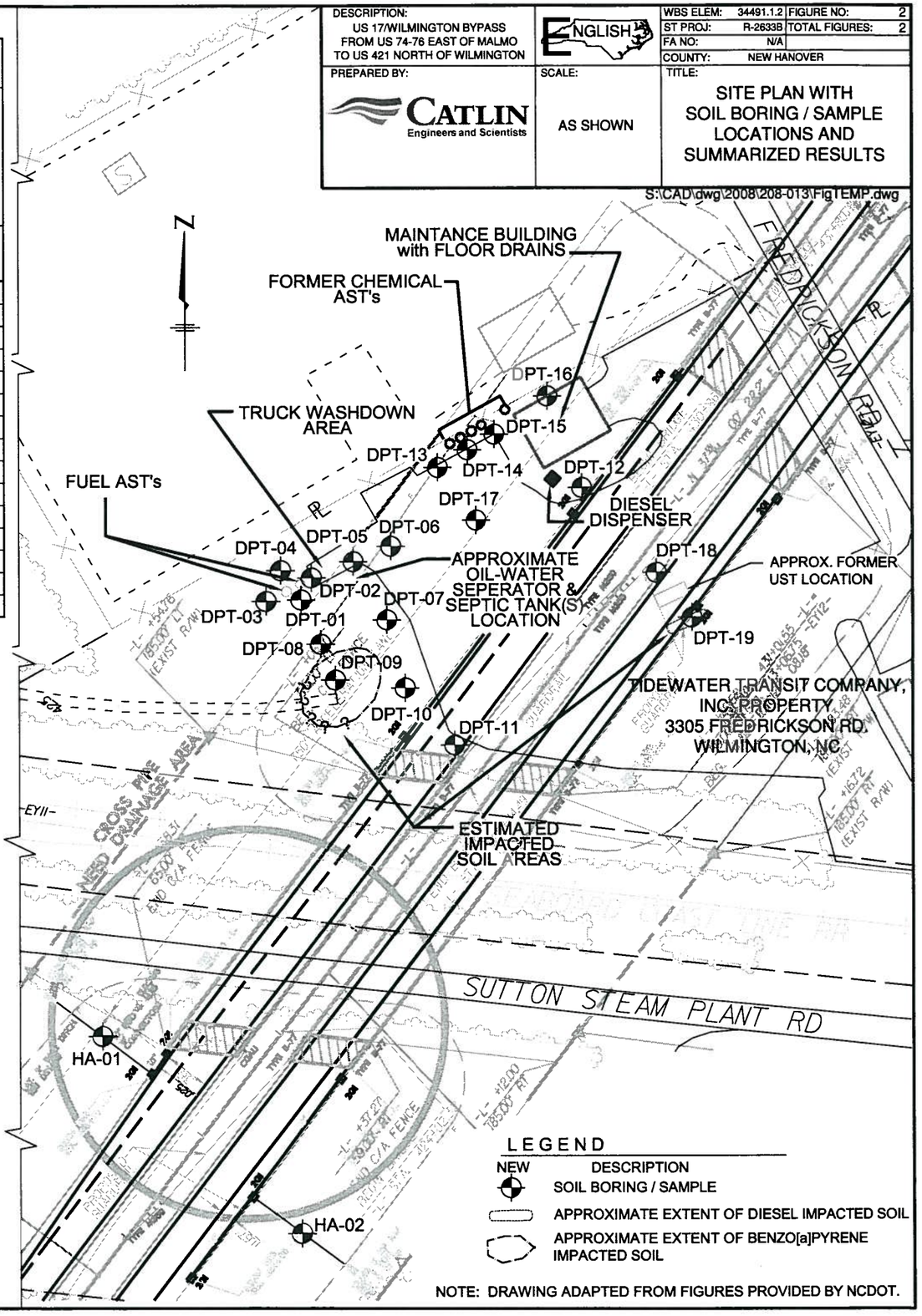
| Sample ID | Date Collected | Sample Depth (ft. BLS) | All EPA Method 8260 Compounds | EPA Method 8270: Benzo[a]pyrene | EPA Method 8270: All other EPA Method 8270 Compounds |
|---|---|---|---|---|---|
| NC HWS SSL (mg/kg) / US EPA Region 9 Residential Risk-Based PRG (mg/kg) | | | Varies / Varies | 0.0928 / 0.062 | Varies / Varies |
| DPT-01 | 4/30/2008 | 0 - 8 | Below SSLs & PRGs | <0.049 | BMDL |
| DPT-02 | 4/30/2008 | 0 - 8 | Below SSLs & PRGs | <0.048 | BMDL |
| DPT-03 | 4/30/2008 | 0 - 8 | Below SSLs & PRGs | <0.050 | BMDL |
| DPT-04 | 4/30/2008 | 0 - 8 | Below SSLs & PRGs | <0.048 | BMDL |
| DPT-05 | 4/30/2008 | 0 - 8 | Below SSLs & PRGs | <0.050 | BMDL |
| DPT-06 | 4/30/2008 | 0 - 8 | Below SSLs & PRGs | <0.049 | BMDL |
| DPT-07 | 4/30/2008 | 0 - 8 | Below SSLs & PRGs | <0.051 | BMDL |
| DPT-08 | 4/30/2008 | 0 - 8 | Below SSLs & PRGs | <0.047 | BMDL |
| DPT-09 | 4/30/2008 | 0 - 8 | Below SSLs & PRGs | **0.268 J** | BMDL |
| DPT-10 | 4/30/2008 | 0 - 8 | Below SSLs & PRGs | <0.050 | BMDL |
| DPT-11 | 4/30/2008 | 0 - 8 | Below SSLs & PRGs | <0.049 | BMDL |
| DPT-13 | 4/30/2008 | 0 - 8 | Below SSLs & PRGs | <0.047 | BMDL |
| DPT-14 | 4/30/2008 | 0 - 8 | Below SSLs & PRGs | <0.048 | BMDL |
| DPT-15 | 4/30/2008 | 0 - 8 | Below SSLs & PRGs | <0.047 | BMDL |
| DPT-16 | 4/30/2008 | 0 - 8 | Below SSLs & PRGs | <0.048 | BMDL |

All results in milligrams per kilogram (mg/kg).
Bold results indicate concentrations above the lower of the SSL or PRG.

**SUMMARY OF SOIL LABORATORY RESULTS - GLYCOLS, FORMALDEHYDE, AND pH**

| Sample ID | Contaminant of Concern → Date Collected | Sample Depth (ft. BLS) | Ethylene Glycol (mg/kg) | Propylene Glycol (mg/kg) | Formaldehyde (µg/kg) | pH (Standard Units) |
|---|---|---|---|---|---|---|
| NC HWS SSL (mg/kg) / US EPA Region 9 Residential Risk-Based PRG (mg/kg) | | | 56 / 100,000 | NE / NE | NE / NE | NE / NE |
| DPT-01 | 4/30/2008 | 0 - 8 | 12.6 | <0.314 | 2500 JB | 6.05 |
| DPT-02 | 4/30/2008 | 0 - 8 | 11.1 | <0.306 | 2500 JB | 6.27 |
| DPT-03 | 4/30/2008 | 0 - 8 | <0.312 | <0.312 | 2100 JB | 7.77 |
| DPT-04 | 4/30/2008 | 0 - 8 | <0.329 | <0.329 | 3000 JB | 7.07 |
| DPT-05 | 4/30/2008 | 0 - 8 | <0.328 | <0.328 | 3200 JB | 6.47 |
| DPT-06 | 4/30/2008 | 0 - 8 | 12.1 | <0.314 | 2600 JB | 7.90 |
| DPT-07 | 4/30/2008 | 0 - 8 | 14.0 | <0.329 | 2700 JB | 7.26 |
| DPT-08 | 4/30/2008 | 0 - 8 | <0.291 | <0.291 | 4400 B | 7.75 |
| DPT-09 | 4/30/2008 | 0 - 8 | 1.1 J | <0.291 | 2900 JB | 8.34 |
| DPT-10 | 4/30/2008 | 0 - 8 | <0.310 | <0.310 | 2800 JB | 8.6 |
| DPT-11 | 4/30/2008 | 0 - 8 | <0.311 | <0.311 | 2200 JB | 8.04 |
| DPT-13 | 4/30/2008 | 0 - 8 | 12.0 | <0.307 | 3100 JB | 8.20 |
| DPT-14 | 4/30/2008 | 0 - 8 | <0.314 | <0.314 | 5900 JB | 8.17 |
| DPT-15 | 4/30/2008 | 0 - 8 | 2.4 J | 0.78 J | 2700 JB | 8.97 |
| DPT-16 | 4/30/2008 | 0 - 8 | 1.2 J | <0.289 | 2300 JB | 7.75 |

mg/kg = milligrams per kilogram
µg/kg = micrograms per kilogram
NC HWS SSL = North Carolina Hazardous Waste Section Soil Screening Level
US EPA = United States Environmental Protection Agency
PRG = Preliminary Remediation Goal
NE = None Established
B = compound also detected in batch blank
J = Estimated concentration, below calibration range and above method detection limit




DESCRIPTION: US 17/WILMINGTON BYPASS FROM US 74-76 EAST OF MALMO TO US 421 NORTH OF WILMINGTON

ENGLISH

| | | | |
|---|---|---|---|
| WBS ELEM: | 34491.1.2 | FIGURE NO: | 2 |
| ST PROJ: | R-2633B | TOTAL FIGURES: | 2 |
| FA NO: | N/A | | |
| COUNTY: | NEW HANOVER | | |

PREPARED BY: CATLIN Engineers and Scientists

SCALE: AS SHOWN

TITLE: SITE PLAN WITH SOIL BORING / SAMPLE LOCATIONS AND SUMMARIZED RESULTS

# APPENDICES

# APPENDIX A

# BORING LOGS

# BORING LOG

CATLIN ENGINEERS and SCIENTISTS
208-013
Wilmington, NC

WBS Element: 34491.1.2
TIP Number: R-2633B

SHEET 1 OF 1

| | | | |
|---|---|---|---|
| PROJECT NO.: 208-013 | STATE: NC | COUNTY: New Hanover | LOCATION: Wilmington |
| PROJECT NAME: Tidewater Transit | | LOGGED BY: Ben Asba | BORING ID: DPT-01 |
| | | DRILLER: John E. Wood, III | |
| NORTHING: 196,054.54 | EASTING: 2,309,946.10 | CREW: Chris Miller | |
| SYSTEM: | BORING LOCATION: South of Fuel AST | | LAND ELEV.: NM |
| DRILL MACHINE: Power Probe | METHOD: Direct Push | 0 HOUR DTW: 9.0 | BORING DEPTH: 12.0 |
| START DATE: 4/30/08 | FINISH DATE: 4/30/08 | 24 HOUR DTW: | 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 | DEPTH | SOIL AND ROCK DESCRIPTION | ELEVATION |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 0.0 | LAND SURFACE | |
| | | | | | SP | | | Fine SAND, browns, saturated at 12feet, HCO | |
| | | | | | ▽ | | 12.0 | | |
| 12.0 | | | | | | | | Boring Terminated at Depth 12.0 ft | |

▽ = 0hr. DTW ▼ = 24hr. DTW

CATLIN ENVIRO LOG 208-013 NCDOT TIDEWATER TRANSIT.GPJ CATLIN.GDT 5/29/08

# BORING LOG

CATLIN ENGINEERS and SCIENTISTS
208-013
Wilmington, NC

WBS Element: 34491.1.2
TIP Number: R-2633B
SHEET 1 OF 1

| | | | |
|---|---|---|---|
| PROJECT NO.: 208-013 | STATE: NC | COUNTY: New Hanover | LOCATION: Wilmington |
| PROJECT NAME: Tidewater Transit | | LOGGED BY: Ben Asba | BORING ID: DPT-02 |
| | | DRILLER: John E. Wood, III | |
| NORTHING: 196,072.50 | EASTING: 2,309,959.50 | CREW: Chris Miller | |
| SYSTEM: | BORING LOCATION: East of Fuel AST | | LAND ELEV.: NM |
| DRILL MACHINE: Power Probe | METHOD: Direct Push | 0 HOUR DTW: | BORING DEPTH: 8.0 |
| START DATE: 4/30/08 | FINISH DATE: 4/30/08 | 24 HOUR DTW: | 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 | DEPTH | SOIL AND ROCK DESCRIPTION | ELEVATION |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 0.0 | LAND SURFACE | |
| | | | | | SP | | | Fine SAND, browns. | |
| 8.0 | | | | | | | 8.0 | | |
| | | | | | | | | Boring Terminated at Depth 8.0 ft | |

▽ = 0hr. DTW ▼ = 24hr. DTW

CATLIN ENVIRO_LOG_208-013 NCDOT TIDEWATER TRANSIT.GPJ CATLIN.GDT 5/29/08

# BORING LOG

CATLIN ENGINEERS and SCIENTISTS
208-013
Wilmington, NC

WBS Element: 34491.1.2
TIP Number: R-2633B

SHEET 1 OF 1

| | | | |
|---|---|---|---|
| PROJECT NO.: 208-013 | STATE: NC | COUNTY: New Hanover | LOCATION: Wilmington |
| PROJECT NAME: Tidewater Transit | | LOGGED BY: Ben Asba | BORING ID: DPT-03 |
| | | DRILLER: John E. Wood, III | |
| NORTHING: 196,052.32 | EASTING: 2,309,917.21 | CREW: Chris Miller | |
| SYSTEM: | BORING LOCATION: West of Fuel AST | | LAND ELEV.: NM |
| DRILL MACHINE: Power Probe | METHOD: Direct Push | 0 HOUR DTW: | BORING DEPTH: 8.0 |
| START DATE: 4/30/08 | FINISH DATE: 4/30/08 | 24 HOUR DTW: | 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 | DEPTH | SOIL AND ROCK DESCRIPTION | ELEVATION |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 0.0 | LAND SURFACE | |
| | | | | | SP | | | Fine SAND, browns. | |
| | | | | | | | 5.0 | | |
| | | | | | GW | | 6.0 | Sand and gravels, wet. | |
| | | | | | SP | | | Fine SAND, browns. | |
| 8.0 | | | | | | | 8.0 | | |
| | | | | | | | | Boring Terminated at Depth 8.0 ft | |

▽ = 0hr. DTW ▼ = 24hr. DTW

CATLIN ENVIRO LOG 208-013 NCDOT TIDEWATER TRANSIT.GPJ CATLIN.GDT 5/29/08

# BORING LOG

CATLIN ENGINEERS and SCIENTISTS
208-013
Wilmington, NC

WBS Element: 34491.1.2
TIP Number: R-2633B

SHEET 1 OF 1

| | | | |
|---|---|---|---|
| PROJECT NO.: 208-013 | STATE: NC | COUNTY: New Hanover | LOCATION: Wilmington |
| PROJECT NAME: Tidewater Transit | | LOGGED BY: Ben Asba | BORING ID: DPT-04 |
| | | DRILLER: John E. Wood, III | |
| NORTHING: 196,076.59 | EASTING: 2,309,928.40 | CREW: Chris Miller | |
| SYSTEM: | BORING LOCATION: North of Fuel AST | | LAND ELEV.: NM |
| DRILL MACHINE: Power Probe | METHOD: Direct Push | 0 HOUR DTW: | BORING DEPTH: 8.0 |
| START DATE: 4/30/08 | FINISH DATE: 4/30/08 | 24 HOUR DTW: | 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 | DEPTH | SOIL AND ROCK DESCRIPTION | ELEVATION |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 0.0 | LAND SURFACE | |
| | | | | | SP | | | Fine SAND, browns | |
| 8.0 | | | | | | | 8.0 | Boring Terminated at Depth 8.0 ft | |

▽ = 0hr. DTW ▼ = 24hr. DTW

CATLIN ENVIRO LOG 208-013 NCDOT TIDEWATER TRANSIT.GPJ CATLIN.GDT 5/29/08

# BORING LOG

CATLIN ENGINEERS and SCIENTISTS
208-013
Wilmington, NC

WBS Element: 34491.1.2
TIP Number: R-2633B
SHEET 1 OF 1

| | | | | | |
|---|---|---|---|---|---|
| PROJECT NO.: 208-013 | STATE: NC | COUNTY: New Hanover | | LOCATION: Wilmington | |
| PROJECT NAME: Tidewater Transit | | LOGGED BY: Ben Asba | | BORING ID: DPT-05 | |
| | | DRILLER: John E. Wood, III | | | |
| NORTHING: 196,083.50 | EASTING: 2,309,984.55 | CREW: Chris Miller | | | |
| SYSTEM: | BORING LOCATION: East of AST, South of Septic | | | LAND ELEV.: NM | |
| DRILL MACHINE: Power Probe | METHOD: Direct Push | | 0 HOUR DTW: | BORING DEPTH: 8.0 | |
| START DATE: 4/30/08 | FINISH DATE: 4/30/08 | | 24 HOUR DTW: | 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 | DEPTH | SOIL AND ROCK DESCRIPTION | ELEVATION |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 0.0 | LAND SURFACE | |
| | | | | | SP | | | Fine SAND, browns, wet at 6 feet | |
| 8.0 | | | | | | | 8.0 | Boring Terminated at Depth 8.0 ft | |

▽ = 0hr. DTW ▼ = 24hr. DTW

CATLIN ENVIRO_LOG 208-013 NCDOT TIDEWATER TRANSIT.GPJ CATLIN.GDT 5/29/08

# BORING LOG

CATLIN ENGINEERS and SCIENTISTS
208-013
Wilmington, NC

WBS Element: 34491.1.2
TIP Number: R-2633B
SHEET 1 OF 1

| | | | |
|---|---|---|---|
| PROJECT NO.: 208-013 | STATE: NC | COUNTY: New Hanover | LOCATION: Wilmington |
| PROJECT NAME: Tidewater Transit | | LOGGED BY: Ben Asba | BORING ID: DPT-06 |
| | | DRILLER: John E. Wood, III | |
| NORTHING: 196,104.30 | EASTING: 2,310,024.31 | CREW: Chris Miller | |
| SYSTEM: | BORING LOCATION: SE of Septic | | LAND ELEV.: NM |
| DRILL MACHINE: Power Probe | METHOD: Direct Push | 0 HOUR DTW: | BORING DEPTH: 8.0 |
| START DATE: 4/30/08 | FINISH DATE: 4/30/08 | 24 HOUR DTW: | 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 | DEPTH | SOIL AND ROCK DESCRIPTION | ELEVATION |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 0.0 | LAND SURFACE | |
| | | | | | SP | | | Fine SAND. Browns | |
| 8.0 | | | | | | | 8.0 | | |
| | | | | | | | | Boring Terminated at Depth 8.0 ft | |

▽ = 0hr. DTW ▼ = 24hr. DTW

CATLIN ENVIRO_LOG_208-013 NCDOT TIDEWATER TRANSIT.GPJ_CATLIN.GDT_5/29/08

# BORING LOG

CATLIN ENGINEERS and SCIENTISTS
208-013
Wilmington, NC

WBS Element: 34491.1.2
TIP Number: R-2633B
SHEET 1 OF 1

| | | | |
|---|---|---|---|
| PROJECT NO.: 208-013 | STATE: NC | COUNTY: New Hanover | LOCATION: Wilmington |
| PROJECT NAME: Tidewater Transit | | LOGGED BY: Ben Asba | BORING ID: DPT-07 |
| | | DRILLER: John E. Wood, III | |
| NORTHING: 196,037.46 | EASTING: 2,310,010.77 | CREW: Chris Miller | |
| SYSTEM: | BORING LOCATION: North edge of Gravel Parking | | LAND ELEV.: NM |
| DRILL MACHINE: Power Probe | METHOD: Direct Push | 0 HOUR DTW: | BORING DEPTH: 8.0 |
| START DATE: 4/30/08 | FINISH DATE: 4/30/08 | 24 HOUR DTW: | 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 LAND SURFACE | |
| | | | | | SP | | Fine SAND. Browns | |
| 8.0 | | | | | | | 8.0 Boring Terminated at Depth 8.0 ft | |

▽ = 0hr. DTW ▼ = 24hr. DTW

CATLIN ENVIRO LOG 208-013 NCDOT TIDEWATER TRANSIT.GPJ CATLIN.GDT 5/29/08

# BORING LOG

CATLIN ENGINEERS and SCIENTISTS
208-013
Wilmington, NC

WBS Element: 34491.1.2
TIP Number: R-2633B
SHEET 1 OF 1

| | | | |
|---|---|---|---|
| PROJECT NO.: 208-013 | STATE: NC | COUNTY: New Hanover | LOCATION: Wilmington |
| PROJECT NAME: Tidewater Transit | | LOGGED BY: Ben Asba | BORING ID: DPT-08 |
| | | DRILLER: John E. Wood, III | |
| NORTHING: 196,018.34 | EASTING: 2,309,959.35 | CREW: Chris Miller | |
| SYSTEM: | BORING LOCATION: SW of DPT-07 | | LAND ELEV.: NM |
| DRILL MACHINE: Power Probe | METHOD: Direct Push | 0 HOUR DTW: | BORING DEPTH: 8.0 |
| START DATE: 4/30/08 | FINISH DATE: 4/30/08 | 24 HOUR DTW: | 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 | DEPTH | SOIL AND ROCK DESCRIPTION | ELEVATION |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 0.0 | LAND SURFACE | |
| | | | | | SP | | | Fine SAND. Browns | |
| 8.0 | | | | | | | 8.0 | Boring Terminated at Depth 8.0 ft | |

▽ = 0hr. DTW ▼ = 24hr. DTW

CATLIN ENVIRO LOG 208-013 NCDOT TIDEWATER TRANSIT.GPJ CATLIN.GDT 5/29/08

# BORING LOG

CATLIN ENGINEERS and SCIENTISTS
208-013
Wilmington, NC

WBS Element: 34491.1.2
TIP Number: R-2633B
SHEET 1 OF 1

| | | | |
|---|---|---|---|
| PROJECT NO.: 208-013 | STATE: NC | COUNTY: New Hanover | LOCATION: Wilmington |
| PROJECT NAME: Tidewater Transit | | LOGGED BY: Ben Asba | BORING ID: DPT-09 |
| | | DRILLER: John E. Wood, III | |
| NORTHING: 195,990.13 | EASTING: 2,309,970.59 | CREW: Chris Miller | |
| SYSTEM: | BORING LOCATION: SE of DPT-08 | | LAND ELEV.: NM |
| DRILL MACHINE: Power Probe | METHOD: Direct Push | 0 HOUR DTW: | BORING DEPTH: 8.0 |
| START DATE: 4/30/08 | FINISH DATE: 4/30/08 | 24 HOUR DTW: | 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 | DEPTH | SOIL AND ROCK DESCRIPTION | ELEVATION |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 0.0 | LAND SURFACE | |
| | | | | | SP | | | Fine SAND. Browns | |
| 8.0 | | | | | | | 8.0 | Boring Terminated at Depth 8.0 ft | |

▽ = 0hr. DTW ▼ = 24hr. DTW

CATLIN ENVIRO LOG 208-013 NCDOT TIDEWATER TRANSIT.GPJ CATLIN.GDT 5/29/08

# BORING LOG

CATLIN ENGINEERS and SCIENTISTS
208-013
Wilmington, NC

WBS Element: 34491.1.2
TIP Number: R-2633B
SHEET 1 OF 1

| | | | |
|---|---|---|---|
| PROJECT NO.: 208-013 | STATE: NC | COUNTY: New Hanover | LOCATION: Wilmington |
| PROJECT NAME: Tidewater Transit | | LOGGED BY: Ben Asba | BORING ID: DPT-10 |
| | | DRILLER: John E. Wood, III | |
| NORTHING: 195,983.91 | EASTING: 2,310,024.94 | CREW: Chris Miller | |
| SYSTEM: | BORING LOCATION: Edge of trailer parking | | LAND ELEV.: NM |
| DRILL MACHINE: Power Probe | METHOD: Direct Push | 0 HOUR DTW: | BORING DEPTH: 8.0 |
| START DATE: 4/30/08 | FINISH DATE: 4/30/08 | 24 HOUR DTW: | 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 | DEPTH | SOIL AND ROCK DESCRIPTION | ELEVATION |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 0.0 | LAND SURFACE | |
| | | | | | SP | | | Fine SAND. Browns | |
| 8.0 | | | | | | | 8.0 | Boring Terminated at Depth 8.0 ft | |

▽ = 0hr. DTW ▼ = 24hr. DTW

CATLIN ENVIRO LOG 208-013 NCDOT TIDEWATER TRANSIT.GPJ CATLIN.GDT 5/29/08

# BORING LOG

CATLIN ENGINEERS and SCIENTISTS
208-013
Wilmington, NC

WBS Element: 34491.1.2
TIP Number: R-2633B

SHEET 1 OF 1

| | | | |
|---|---|---|---|
| PROJECT NO.: 208-013 | STATE: NC | COUNTY: New Hanover | LOCATION: Wilmington |
| PROJECT NAME: Tidewater Transit | | LOGGED BY: Ben Asba | BORING ID: DPT-11 |
| | | DRILLER: John E. Wood, III | |
| NORTHING: 195,939.12 | EASTING: 2,310,063.58 | CREW: Chris Miller | |
| SYSTEM: | BORING LOCATION: Southern edge of trailer parking | | LAND ELEV.: NM |
| DRILL MACHINE: Power Probe | METHOD: Direct Push | 0 HOUR DTW: | BORING DEPTH: 8.0 |
| START DATE: 4/30/08 | FINISH DATE: 4/30/08 | 24 HOUR DTW: | 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 | DEPTH | SOIL AND ROCK DESCRIPTION | ELEVATION |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 0.0 | LAND SURFACE | |
| | | | | | SP | | | Fine SAND. Browns | |
| 8.0 | | | | | | | 8.0 | Boring Terminated at Depth 8.0 ft | |

▽ = 0hr. DTW ▼ = 24hr. DTW

CATLIN ENVIRO LOG 208-013 NCDOT TIDEWATER TRANSIT.GPJ CATLIN.GDT 5/29/08

# BORING LOG

CATLIN ENGINEERS and SCIENTISTS
208-013
Wilmington, NC

WBS Element: 34491.1.2
TIP Number: R-2633B
SHEET 1 OF 1

| | | | |
|---|---|---|---|
| PROJECT NO.: 208-013 | STATE: NC | COUNTY: New Hanover | LOCATION: Wilmington |
| PROJECT NAME: Tidewater Transit | | LOGGED BY: Ben Asba | BORING ID: DPT-12 |
| | | DRILLER: John E. Wood, III | |
| NORTHING: 196,141.50 | EASTING: 2,310,163.95 | CREW: Chris Miller | |
| SYSTEM: | BORING LOCATION: Diesel Dispenser | | LAND ELEV.: NM |
| DRILL MACHINE: Power Probe | METHOD: Direct Push | 0 HOUR DTW: | BORING DEPTH: 8.0 |
| START DATE: 4/30/08 | FINISH DATE: 4/30/08 | 24 HOUR DTW: | 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 | DEPTH | SOIL AND ROCK DESCRIPTION | ELEVATION |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 0.0 | LAND SURFACE | |
| | | | | | SP | | | Fine SAND. Browns | |
| 8.0 | | | | | | | 8.0 | Boring Terminated at Depth 8.0 ft | |

▽ = 0hr. DTW ▼ = 24hr. DTW

CATLIN ENVIRO_LOG_208-013 NCDOT TIDEWATER TRANSIT.GPJ CATLIN.GDT 5/29/08

# BORING LOG

CATLIN ENGINEERS and SCIENTISTS
208-013
Wilmington, NC

WBS Element: 34491.1.2
TIP Number: R-2633B

SHEET 1 OF 1

| | | | |
|---|---|---|---|
| PROJECT NO.: 208-013 | STATE: NC | COUNTY: New Hanover | LOCATION: Wilmington |
| PROJECT NAME: Tidewater Transit | | LOGGED BY: Ben Asba | BORING ID: DPT-13 |
| | | DRILLER: John E. Wood, III | |
| NORTHING: 196,157.19 | EASTING: 2,310,050.75 | CREW: Chris Miller | |
| SYSTEM: | BORING LOCATION: Western edge of H2O ASTs | | LAND ELEV.: NM |
| DRILL MACHINE: Power Probe | METHOD: Direct Push | 0 HOUR DTW: | BORING DEPTH: 8.0 |
| START DATE: 4/30/08 | FINISH DATE: 4/30/08 | 24 HOUR DTW: | 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 | DEPTH | SOIL AND ROCK DESCRIPTION | ELEVATION |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 0.0 | LAND SURFACE | |
| | | | | | SP | | | Fine SAND. Browns | |
| 8.0 | | | | | | | 8.0 | Boring Terminated at Depth 8.0 ft | |

▽ = 0hr. DTW ▼ = 24hr. DTW

CATLIN ENVIRO LOG 208-013 NCDOT TIDEWATER TRANSIT.GPJ CATLIN.GDT 5/29/08

# BORING LOG

CATLIN ENGINEERS and SCIENTISTS
208-013
Wilmington, NC

WBS Element: 34491.1.2
TIP Number: R-2633B
SHEET 1 OF 1

| | | | |
|---|---|---|---|
| PROJECT NO.: 208-013 | STATE: NC | COUNTY: New Hanover | LOCATION: Wilmington |
| PROJECT NAME: Tidewater Transit | | LOGGED BY: Ben Asba | BORING ID: DPT-14 |
| | | DRILLER: John E. Wood, III | |
| NORTHING: 196,172.91 | EASTING: 2,310,073.34 | CREW: Chris Miller | |
| SYSTEM: | BORING LOCATION: Central-H2O ASTs | | LAND ELEV.: NM |
| DRILL MACHINE: Power Probe | METHOD: Direct Push | 0 HOUR DTW: | BORING DEPTH: 8.0 |
| START DATE: 4/30/08 | FINISH DATE: 4/30/08 | 24 HOUR DTW: | 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 | DEPTH | SOIL AND ROCK DESCRIPTION | ELEVATION |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 0.0 | LAND SURFACE | |
| | | | | | SP | | | Fine SAND. Browns | |
| 8.0 | | | | | | | 8.0 | Boring Terminated at Depth 8.0 ft | |

▽ = 0hr. DTW ▼ = 24hr. DTW

CATLIN ENVIRO LOG 208-013 NCDOT TIDEWATER TRANSIT.GPJ CATLIN.GDT 5/29/08

# BORING LOG

CATLIN ENGINEERS and SCIENTISTS
208-013
Wilmington, NC

WBS Element: 34491.1.2
TIP Number: R-2633B

SHEET 1 OF 1

| | | | |
|---|---|---|---|
| PROJECT NO.: 208-013 | STATE: NC | COUNTY: New Hanover | LOCATION: Wilmington |
| PROJECT NAME: Tidewater Transit | | LOGGED BY: Ben Asba | BORING ID: DPT-15 |
| | | DRILLER: John E. Wood, III | |
| NORTHING: 196,173.11 | EASTING: 2,310,089.82 | CREW: Chris Miller | |
| SYSTEM: | BORING LOCATION: East side of H2O ASTs | | LAND ELEV.: NM |
| DRILL MACHINE: Power Probe | METHOD: Direct Push | 0 HOUR DTW: | BORING DEPTH: 8.0 |
| START DATE: 4/30/08 | FINISH DATE: 4/30/08 | 24 HOUR DTW: | 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 LAND SURFACE | |
| | | | | | SP | | Fine SAND. Browns | |
| 8.0 | | | | | | | 8.0 Boring Terminated at Depth 8.0 ft | |

▽ = 0hr. DTW ▼ = 24hr. DTW

CATLIN ENVIRO LOG 208-013 NCDOT TIDEWATER TRANSIT.GPJ CATLIN.GDT 5/29/08

# BORING LOG

CATLIN ENGINEERS and SCIENTISTS
208-013
Wilmington, NC

WBS Element: 34491.1.2
TIP Number: R-2633B

SHEET 1 OF 1

| | | | |
|---|---|---|---|
| PROJECT NO.: 208-013 | STATE: NC | COUNTY: New Hanover | LOCATION: Wilmington |
| PROJECT NAME: Tidewater Transit | | LOGGED BY: Ben Asba | BORING ID: DPT-16 |
| | | DRILLER: John E. Wood, III | |
| NORTHING: 196,267.37 | EASTING: 2,310,104.51 | CREW: Chris Miller | |
| SYSTEM: | BORING LOCATION: NE end of H2O AST pad | | LAND ELEV.: NM |
| DRILL MACHINE: Power Probe | METHOD: Direct Push | 0 HOUR DTW: | BORING DEPTH: 4.0 |
| START DATE: 4/30/08 | FINISH DATE: 4/30/08 | 24 HOUR DTW: | 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 |
|---|---|---|---|---|---|---|---|---|
| 0.0 | | | | | | | LAND SURFACE | |
| 4.0 | | | | | SP | | Fine SAND, Browns<br>Boring Terminated at Depth 4.0 ft | |
| 8.0 | | | | | | | | |

▽ = 0hr. DTW ▼ = 24hr. DTW

CATLIN ENVIRO LOG 208-013 NCDOT TIDEWATER TRANSIT.GPJ CATLIN.GDT 5/29/08

# BORING LOG

CATLIN ENGINEERS and SCIENTISTS
208-013
Wilmington, NC

WBS Element: 34491.1.2
TIP Number: R-2633B
SHEET 1 OF 1

| | | | |
|---|---|---|---|
| PROJECT NO.: 208-013 | STATE: NC | COUNTY: New Hanover | LOCATION: Wilmington |
| PROJECT NAME: Tidewater Transit | | LOGGED BY: Ben Asba | BORING ID: DPT-17 |
| | | DRILLER: John E. Wood, III | |
| NORTHING: 196,115.82 | EASTING: 2,310,080.81 | CREW: Chris Miller | |
| SYSTEM: | BORING LOCATION: Diesel Line | | LAND ELEV.: NM |
| DRILL MACHINE: Power Probe | METHOD: Direct Push | 0 HOUR DTW: | BORING DEPTH: 4.0 |
| START DATE: 4/30/08 | FINISH DATE: 4/30/08 | 24 HOUR DTW: | 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 | DEPTH | SOIL AND ROCK DESCRIPTION | ELEVATION |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 0.0 | LAND SURFACE | |
| | | | | | SP | | | Fine SAND. Browns | |
| 4.0 | | | | | | | 4.0 | Boring Terminated at Depth 4.0 ft | |

▽ = 0hr. DTW ▼ = 24hr. DTW

CATLIN ENVIRO LOG 208-013 NCDOT TIDEWATER TRANSIT.GPJ CATLIN.GDT 5/29/08

# BORING LOG

CATLIN ENGINEERS and SCIENTISTS
208-013
Wilmington, NC

WBS Element: 34491.1.2
TIP Number: R-2633B

SHEET 1 OF 1

| | | | |
|---|---|---|---|
| PROJECT NO.: 208-013 | STATE: NC | COUNTY: New Hanover | LOCATION: Wilmington |
| PROJECT NAME: Tidewater Transit | | LOGGED BY: Ben Asba | BORING ID: DPT-18 |
| | | DRILLER: John E. Wood, III | |
| NORTHING: 196,074.69 | EASTING: 2,310,222.03 | CREW: Chris Miller | |
| SYSTEM: | BORING LOCATION: North of former UST | | LAND ELEV.: NM |
| DRILL MACHINE: Power Probe | METHOD: Direct Push | 0 HOUR DTW: | BORING DEPTH: 8.0 |
| START DATE: 5/1/08 | FINISH DATE: 5/1/08 | 24 HOUR DTW: | 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 | DEPTH | SOIL AND ROCK DESCRIPTION | ELEVATION |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 0.0 | LAND SURFACE | |
| | | | | | SP | | | Fine SAND. Browns | |
| 8.0 | | | | | | | 8.0 | Boring Terminated at Depth 8.0 ft | |

▽ = 0hr. DTW ▼ = 24hr. DTW

CATLIN ENVIRO LOG 208-013 NCDOT TIDEWATER TRANSIT.GPJ CATLIN.GDT 5/29/08

# BORING LOG

CATLIN ENGINEERS and SCIENTISTS
208-013
Wilmington, NC

WBS Element: 34491.1.2
TIP Number: R-2633B
SHEET 1 OF 1

| | | | |
|---|---|---|---|
| PROJECT NO.: 208-013 | STATE: NC | COUNTY: New Hanover | LOCATION: Wilmington |
| PROJECT NAME: Tidewater Transit | | LOGGED BY: Ben Asba | BORING ID: DPT-19 |
| | | DRILLER: John E. Wood, III | |
| NORTHING: 196,039.26 | EASTING: 2,310,249.76 | CREW: Chris Miller | |
| SYSTEM: | BORING LOCATION: South of former UST | | LAND ELEV.: NM |
| DRILL MACHINE: Power Probe | METHOD: Direct Push | 0 HOUR DTW: | BORING DEPTH: 8.0 |
| START DATE: 5/1/08 | FINISH DATE: 5/1/08 | 24 HOUR DTW: | 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 | DEPTH | SOIL AND ROCK DESCRIPTION | ELEVATION |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 0.0 | LAND SURFACE | |
| | | | | | SP | | | Fine SAND. Browns | |
| 8.0 | | | | | | | 8.0 | Boring Terminated at Depth 8.0 ft | |

▽ = 0hr. DTW ▼ = 24hr. DTW

CATLIN ENVIRO LOG 208-013 NCDOT TIDEWATER TRANSIT.GPJ CATLIN.GDT 5/29/08

# APPENDIX B

# LABORATORY REPORT AND CHAIN OF CUSTODY RECORD

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

Report Number: G128-2183

Client Project: NCDOT Tidewater Transit

Dear Mr. Ashba:

Enclosed are the results of the analytical services performed under the referenced project. 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 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 the services performed during this project, please call SGS at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS Environmental Services for your analytical services. We look forward to working with you again on any additional analytical needs which you may have.

Sincerely,
SGS Environmental Services, Inc.

Ashley Nifong 5/20/08

Project Manager Date
Ashley Nifong

**Case Narrative**
Catlin Engineers and Scientists
SGS Project: **G128-2183**
Project Name: **NCDOT Tidewater Transit**

**SGS Environmental Services Inc.**

**May 20, 2008**

- Twenty-one soil samples were accepted into the laboratory on May 1, 2008 at 1245 for analyses as indicated on the chain of custody. The samples were received in good condition, within temperature and holding time limits.
- All extractions and analyses were completed within holding time limits, with the following quality control exceptions.
- The Formaldehyde analysis was subcontracted and performed at SLP Laboratory. The associated method blank resulted in a Formaldehyde concentration of 2800 µg/Kg, which is below the reporting limit, but above the method detection limit. Similar concentrations were also found in some samples, as well as others above the reporting limit. These background concentrations in the method blank introduce a possible high bias for the concentrations found in the samples.

Data Review _____ Date 5/20/08

# List of Reporting Abbreviations and Data Qualifiers

B = Compound also detected in batch blank

BQL = Below Quantitation 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 = Reporting Limit

RPD = Relative Percent Difference

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

% soilds = 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.

**Results for Volatiles**
**by GCMS 8260B/5035**

Client Sample ID: DPT-01
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-1D
Lab Project ID: G128-2183
Report Basis: Dry Weight

Analyzed By: MJC
Date Collected: 4/30/2008 10:45
Date Received: 5/1/2008
Matrix: Soil
Sample Amount: 5.78 g
%Solids: 95.1

| Compound | Result MG/KG | Quantitation Limit MG/KG | MDL MG/KG | Dilution Factor | Date Analyzed | Flag |
|---|---|---|---|---|---|---|
| Acetone | BQL | 1.14 | 0.0496 | 50 | 5/13/2008 | |
| Benzene | BQL | 0.0455 | 0.00364 | 50 | 5/13/2008 | |
| Bromobenzene | BQL | 0.0455 | 0.00650 | 50 | 5/13/2008 | |
| Bromochloromethane | BQL | 0.0455 | 0.0119 | 50 | 5/13/2008 | |
| Bromodichloromethane | BQL | 0.0455 | 0.00664 | 50 | 5/13/2008 | |
| Bromoform | BQL | 0.0455 | 0.0125 | 50 | 5/13/2008 | |
| Bromomethane | BQL | 0.0455 | 0.0119 | 50 | 5/13/2008 | |
| 2-Butanone | BQL | 1.14 | 0.0696 | 50 | 5/13/2008 | |
| n-Butylbenzene | BQL | 0.0455 | 0.00477 | 50 | 5/13/2008 | |
| sec-Butylbenzene | BQL | 0.0455 | 0.00532 | 50 | 5/13/2008 | |
| tert-Butylbenzene | BQL | 0.0455 | 0.00582 | 50 | 5/13/2008 | |
| Carbon disulfide | BQL | 0.0455 | 0.00286 | 50 | 5/13/2008 | |
| Carbon tetrachloride | BQL | 0.0455 | 0.00464 | 50 | 5/13/2008 | |
| Chlorobenzene | BQL | 0.0455 | 0.00327 | 50 | 5/13/2008 | |
| Chloroethane | BQL | 0.0455 | 0.0258 | 50 | 5/13/2008 | |
| Chloroform | BQL | 0.0455 | 0.00550 | 50 | 5/13/2008 | |
| Chloromethane | BQL | 0.0455 | 0.00937 | 50 | 5/13/2008 | |
| 2-Chlorotoluene | BQL | 0.0455 | 0.00500 | 50 | 5/13/2008 | |
| 4-Chlorotoluene | BQL | 0.0455 | 0.00486 | 50 | 5/13/2008 | |
| Dibromochloromethane | BQL | 0.0455 | 0.00564 | 50 | 5/13/2008 | |
| 1,2-Dibromo-3-chloropropane | BQL | 0.227 | 0.0409 | 50 | 5/13/2008 | |
| Dibromomethane | BQL | 0.0455 | 0.00905 | 50 | 5/13/2008 | |
| 1,2-Dibromoethane (EDB) | BQL | 0.0455 | 0.00546 | 50 | 5/13/2008 | |
| 1,2-Dichlorobenzene | BQL | 0.0455 | 0.00527 | 50 | 5/13/2008 | |
| 1,3-Dichlorobenzene | BQL | 0.0455 | 0.00787 | 50 | 5/13/2008 | |
| 1,4-Dichlorobenzene | BQL | 0.0455 | 0.00714 | 50 | 5/13/2008 | |
| trans-1,4-Dichloro-2-butene | BQL | 0.227 | 0.0359 | 50 | 5/13/2008 | |
| 1,1-Dichloroethane | BQL | 0.0455 | 0.00400 | 50 | 5/13/2008 | |
| 1,1-Dichloroethene | BQL | 0.0455 | 0.00928 | 50 | 5/13/2008 | |
| 1,2-Dichloroethane | BQL | 0.0455 | 0.00600 | 50 | 5/13/2008 | |
| cis-1,2-Dichloroethene | BQL | 0.0455 | 0.00159 | 50 | 5/13/2008 | |
| trans-1,2-dichloroethene | BQL | 0.0455 | 0.00718 | 50 | 5/13/2008 | |
| 1,2-Dichloropropane | BQL | 0.0455 | 0.00436 | 50 | 5/13/2008 | |
| 1,3-Dichloropropane | BQL | 0.0455 | 0.00737 | 50 | 5/13/2008 | |
| 2,2-Dichloropropane | BQL | 0.0455 | 0.00823 | 50 | 5/13/2008 | |
| 1,1-Dichloropropene | BQL | 0.0455 | 0.00550 | 50 | 5/13/2008 | |
| cis-1,3-Dichloropropene | BQL | 0.0455 | 0.00550 | 50 | 5/13/2008 | |
| trans-1,3-Dichloropropene | BQL | 0.0455 | 0.00496 | 50 | 5/13/2008 | |
| Dichlorodifluoromethane | BQL | 0.227 | 0.0115 | 50 | 5/13/2008 | |
| Diisopropyl ether (DIPE) | BQL | 0.0455 | 0.00386 | 50 | 5/13/2008 | |
| Ethylbenzene | BQL | 0.0455 | 0.00505 | 50 | 5/13/2008 | |
| Hexachlorobutadiene | BQL | 0.0455 | 0.0104 | 50 | 5/13/2008 | |
| 2-Hexanone | BQL | 0.227 | 0.0396 | 50 | 5/13/2008 | |
| Iodomethane | BQL | 0.0455 | 0.00359 | 50 | 5/13/2008 | |
| Isopropylbenzene | BQL | 0.0455 | 0.00577 | 50 | 5/13/2008 | |

**Results for Volatiles**
**by GCMS 8260B/5035**

Client Sample ID: DPT-01
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-1D
Lab Project ID: G128-2183
Report Basis: Dry Weight

Analyzed By: MJC
Date Collected: 4/30/2008 10:45
Date Received: 5/1/2008
Matrix: Soil
Sample Amount: 5.78 g
%Solids: 95.1

| Compound | Result MG/KG | Quantitation Limit MG/KG | MDL MG/KG | Dilution Factor | Date Analyzed | Flag |
|---|---|---|---|---|---|---|
| 4-Isopropyltoluene | BQL | 0.0455 | 0.00564 | 50 | 5/13/2008 | |
| Methylene chloride | BQL | 0.227 | 0.00905 | 50 | 5/13/2008 | |
| 4-Methyl-2-pentanone | BQL | 0.227 | 0.0473 | 50 | 5/13/2008 | |
| Methyl-tert-butyl ether (MTBE) | BQL | 0.0455 | 0.00627 | 50 | 5/13/2008 | |
| Naphthalene | BQL | 0.0455 | 0.00787 | 50 | 5/13/2008 | |
| n-Propyl benzene | BQL | 0.0455 | 0.00546 | 50 | 5/13/2008 | |
| Styrene | BQL | 0.0455 | 0.00496 | 50 | 5/13/2008 | |
| 1,1,1,2-Tetrachloroethane | BQL | 0.0455 | 0.00568 | 50 | 5/13/2008 | |
| 1,1,2,2-Tetrachloroethane | BQL | 0.0455 | 0.00850 | 50 | 5/13/2008 | |
| Tetrachloroethene | BQL | 0.0455 | 0.00509 | 50 | 5/13/2008 | |
| Toluene | BQL | 0.0455 | 0.00414 | 50 | 5/13/2008 | |
| 1,2,3-Trichlorobenzene | BQL | 0.0455 | 0.00800 | 50 | 5/13/2008 | |
| 1,2,4-Trichlorobenzene | BQL | 0.0455 | 0.00327 | 50 | 5/13/2008 | |
| Trichloroethene | BQL | 0.0455 | 0.00396 | 50 | 5/13/2008 | |
| 1,1,1-Trichloroethane | BQL | 0.0455 | 0.00505 | 50 | 5/13/2008 | |
| 1,1,2-Trichloroethane | BQL | 0.0455 | 0.00796 | 50 | 5/13/2008 | |
| Trichlorofluoromethane | BQL | 0.0455 | 0.0112 | 50 | 5/13/2008 | |
| 1,2,3-Trichloropropane | BQL | 0.0455 | 0.00923 | 50 | 5/13/2008 | |
| 1,2,4-Trimethylbenzene | BQL | 0.0455 | 0.00550 | 50 | 5/13/2008 | |
| 1,3,5-Trimethylbenzene | BQL | 0.0455 | 0.00482 | 50 | 5/13/2008 | |
| Vinyl chloride | BQL | 0.0455 | 0.0139 | 50 | 5/13/2008 | |
| m-,p-Xylene | BQL | 0.0909 | 0.00978 | 50 | 5/13/2008 | |
| o-Xylene | BQL | 0.0455 | 0.00500 | 50 | 5/13/2008 | |

| | Spike Added | Spike Result | Percent Recovered |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 0.01 | 0.00964 | 96 |
| Toluene-d8 | 0.01 | 0.0104 | 104 |
| 4-Bromofluorobenzene | 0.01 | 0.0107 | 107 |

**Comments:**
Sample diluted due to high concentration of non-target interference.

**Flags:**
BQL = Below Quantitation Limits.

Analyst: _____

Reviewed By: _____

SGS ENVIRONMENTAL SERVICES, INC.

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

Client Sample ID: DPT-02
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID G128-2183-2A
Lab Project ID: G128-2183
Report Basis: Dry Weight

Analyzed By: MJC
Date Collected: 04-30-2008 11:00
Date Received: 5/1/2008
Matrix: Soil
Sample Amount: 5 g
%Solids: 97.5

| Report Name<br>Compound | Result<br>MG/KG | Quantitation<br>Limit MG/KG | MDL<br>MG/KG | Dilution<br>Factor | Date<br>Analyzed | Flag |
|---|---|---|---|---|---|---|
| Acetone | **0.0332** | 0.0513 | 0.00708 | 1 | 5/14/2008 | J |
| Benzene | BQL | 0.00513 | 0.00110 | 1 | 5/14/2008 | |
| Bromobenzene | BQL | 0.00513 | 0.00106 | 1 | 5/14/2008 | |
| Bromochloromethane | BQL | 0.00513 | 0.00176 | 1 | 5/14/2008 | |
| Bromodichloromethane | BQL | 0.00513 | 0.00102 | 1 | 5/14/2008 | |
| Bromoform | BQL | 0.00513 | 0.00103 | 1 | 5/14/2008 | |
| Bromomethane | BQL | 0.00513 | 0.00108 | 1 | 5/14/2008 | |
| 2-Butanone | BQL | 0.0256 | 0.00557 | 1 | 5/14/2008 | |
| n-Butylbenzene | BQL | 0.00513 | 0.00098 | 1 | 5/14/2008 | |
| sec-Butylbenzene | BQL | 0.00513 | 0.00104 | 1 | 5/14/2008 | |
| tert-Butylbenzene | BQL | 0.00513 | 0.00115 | 1 | 5/14/2008 | |
| Carbon disulfide | BQL | 0.00513 | 0.00275 | 1 | 5/14/2008 | |
| Carbon tetrachloride | BQL | 0.00513 | 0.00105 | 1 | 5/14/2008 | |
| Chlorobenzene | BQL | 0.00513 | 0.00122 | 1 | 5/14/2008 | |
| Chloroethane | BQL | 0.00513 | 0.00163 | 1 | 5/14/2008 | |
| Chloroform | BQL | 0.00513 | 0.00123 | 1 | 5/14/2008 | |
| Chloromethane | BQL | 0.00513 | 0.00116 | 1 | 5/14/2008 | |
| 2-Chlorotoluene | BQL | 0.00513 | 0.00104 | 1 | 5/14/2008 | |
| 4-Chlorotoluene | BQL | 0.00513 | 0.00128 | 1 | 5/14/2008 | |
| Dibromochloromethane | BQL | 0.00513 | 0.00141 | 1 | 5/14/2008 | |
| 1,2-Dibromo-3-chloropropane | BQL | 0.0256 | 0.00149 | 1 | 5/14/2008 | |
| Dibromomethane | BQL | 0.00513 | 0.00155 | 1 | 5/14/2008 | |
| 1,2-Dibromoethane (EDB) | BQL | 0.00513 | 0.00116 | 1 | 5/14/2008 | |
| 1,2-Dichlorobenzene | BQL | 0.00513 | 0.00132 | 1 | 5/14/2008 | |
| 1,3-Dichlorobenzene | BQL | 0.00513 | 0.00131 | 1 | 5/14/2008 | |
| 1,4-Dichlorobenzene | BQL | 0.00513 | 0.00108 | 1 | 5/14/2008 | |
| trans-1,4-Dichloro-2-butene | BQL | 0.0256 | 0.00141 | 1 | 5/14/2008 | |
| 1,1-Dichloroethane | BQL | 0.00513 | 0.00109 | 1 | 5/14/2008 | |
| 1,1-Dichloroethene | BQL | 0.00513 | 0.00152 | 1 | 5/14/2008 | |
| 1,2-Dichloroethane | BQL | 0.00513 | 0.00135 | 1 | 5/14/2008 | |
| cis-1,2-Dichloroethene | BQL | 0.00513 | 0.00131 | 1 | 5/14/2008 | |
| trans-1,2-dichloroethene | BQL | 0.00513 | 0.00116 | 1 | 5/14/2008 | |
| 1,2-Dichloropropane | BQL | 0.00513 | 0.00121 | 1 | 5/14/2008 | |
| 1,3-Dichloropropane | BQL | 0.00513 | 0.00115 | 1 | 5/14/2008 | |
| 2,2-Dichloropropane | BQL | 0.00513 | 0.00123 | 1 | 5/14/2008 | |
| 1,1-Dichloropropene | BQL | 0.00513 | 0.00161 | 1 | 5/14/2008 | |
| cis-1,3-Dichloropropene | BQL | 0.00513 | 0.00085 | 1 | 5/14/2008 | |
| trans-1,3-Dichloropropene | BQL | 0.00513 | 0.00099 | 1 | 5/14/2008 | |
| Dichlorodifluoromethane | BQL | 0.00513 | 0.00135 | 1 | 5/14/2008 | |
| Diisopropyl ether (DIPE) | BQL | 0.00513 | 0.00116 | 1 | 5/14/2008 | |
| Ethylbenzene | BQL | 0.00513 | 0.00089 | 1 | 5/14/2008 | |
| Hexachlorobutadiene | BQL | 0.00513 | 0.00100 | 1 | 5/14/2008 | |
| 2-Hexanone | BQL | 0.00513 | 0.00332 | 1 | 5/14/2008 | |
| Iodomethane | BQL | 0.00513 | 0.00111 | 1 | 5/14/2008 | |

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

Client Sample ID: DPT-02
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID G128-2183-2A
Lab Project ID: G128-2183
Report Basis: Dry Weight

Analyzed By: MJC
Date Collected: 04-30-2008 11:00
Date Received: 5/1/2008
Matrix: Soil
Sample Amount: 5 g
%Solids: 97.5

| Report Name<br>Compound | Result<br>MG/KG | Quantitation<br>Limit MG/KG | MDL<br>MG/KG | Dilution<br>Factor | Date<br>Analyzed | Flag |
|---|---|---|---|---|---|---|
| Isopropylbenzene | BQL | 0.00513 | 0.00091 | 1 | 5/14/2008 | |
| 4-Isopropyltoluene | BQL | 0.00513 | 0.00110 | 1 | 5/14/2008 | |
| Methylene chloride | BQL | 0.0205 | 0.00122 | 1 | 5/14/2008 | |
| 4-Methyl-2-pentanone | BQL | 0.00513 | 0.00475 | 1 | 5/14/2008 | |
| Methyl-tert-butyl ether (MTBE) | BQL | 0.00513 | 0.00114 | 1 | 5/14/2008 | |
| Naphthalene | BQL | 0.00513 | 0.00087 | 1 | 5/14/2008 | |
| n-Propyl benzene | BQL | 0.00513 | 0.00129 | 1 | 5/14/2008 | |
| Styrene | BQL | 0.00513 | 0.00113 | 1 | 5/14/2008 | |
| 1,1,1,2-Tetrachloroethane | BQL | 0.00513 | 0.00105 | 1 | 5/14/2008 | |
| 1,1,2,2-Tetrachloroethane | BQL | 0.00513 | 0.00116 | 1 | 5/14/2008 | |
| Tetrachloroethene | BQL | 0.00513 | 0.00094 | 1 | 5/14/2008 | |
| Toluene | BQL | 0.00513 | 0.00102 | 1 | 5/14/2008 | |
| 1,2,3-Trichlorobenzene | BQL | 0.00513 | 0.00107 | 1 | 5/14/2008 | |
| 1,2,4-Trichlorobenzene | BQL | 0.00513 | 0.00106 | 1 | 5/14/2008 | |
| Trichloroethene | BQL | 0.00513 | 0.00098 | 1 | 5/14/2008 | |
| 1,1,1-Trichloroethane | BQL | 0.00513 | 0.00116 | 1 | 5/14/2008 | |
| 1,1,2-Trichloroethane | BQL | 0.00513 | 0.00168 | 1 | 5/14/2008 | |
| Trichlorofluoromethane | BQL | 0.00513 | 0.00106 | 1 | 5/14/2008 | |
| 1,2,3-Trichloropropane | BQL | 0.00513 | 0.00127 | 1 | 5/14/2008 | |
| 1,2,4-Trimethylbenzene | BQL | 0.00513 | 0.00129 | 1 | 5/14/2008 | |
| 1,3,5-Trimethylbenzene | BQL | 0.00513 | 0.00117 | 1 | 5/14/2008 | |
| Vinyl chloride | BQL | 0.00513 | 0.00139 | 1 | 5/14/2008 | |
| m-,p-Xylene | BQL | 0.0103 | 0.00197 | 1 | 5/14/2008 | |
| o-Xylene | BQL | 0.00513 | 0.00099 | 1 | 5/14/2008 | |

| | Spike Added | Spike Result | Percent Recovered |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 0.05 | 0.0658 | 132 |
| Toluene-d8 | 0.05 | 0.0513 | 103 |
| 4-Bromofluorobenzene | 0.05 | 0.0425 | 85 |

**Comments:**

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

Analyst: _____

Reviewed By: _____

SGS ENVIRONMENTAL SERVICES, INC.

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

Client Sample ID: DPT-03
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID G128-2183-3A
Lab Project ID: G128-2183
Report Basis: Dry Weight

Analyzed By: MJC
Date Collected: 04-30-2008 11:15
Date Received: 5/1/2008
Matrix: Soil
Sample Amount: 5.44 g
%Solids: 95.3

| Report Name<br>Compound | Result<br>MG/KG | Quantitation<br>Limit MG/KG | MDL<br>MG/KG | Dilution<br>Factor | Date<br>Analyzed | Flag |
|---|---|---|---|---|---|---|
| Acetone | **0.0347** | 0.0482 | 0.00667 | 1 | 5/6/2008 | J |
| Benzene | BQL | 0.00482 | 0.00103 | 1 | 5/6/2008 | |
| Bromobenzene | BQL | 0.00482 | 0.00099 | 1 | 5/6/2008 | |
| Bromochloromethane | BQL | 0.00482 | 0.00166 | 1 | 5/6/2008 | |
| Bromodichloromethane | BQL | 0.00482 | 0.00096 | 1 | 5/6/2008 | |
| Bromoform | BQL | 0.00482 | 0.00097 | 1 | 5/6/2008 | |
| Bromomethane | BQL | 0.00482 | 0.00101 | 1 | 5/6/2008 | |
| 2-Butanone | BQL | 0.0241 | 0.00524 | 1 | 5/6/2008 | |
| n-Butylbenzene | BQL | 0.00482 | 0.00092 | 1 | 5/6/2008 | |
| sec-Butylbenzene | BQL | 0.00482 | 0.00097 | 1 | 5/6/2008 | |
| tert-Butylbenzene | BQL | 0.00482 | 0.00108 | 1 | 5/6/2008 | |
| Carbon disulfide | BQL | 0.00482 | 0.00259 | 1 | 5/6/2008 | |
| Carbon tetrachloride | BQL | 0.00482 | 0.00098 | 1 | 5/6/2008 | |
| Chlorobenzene | BQL | 0.00482 | 0.00115 | 1 | 5/6/2008 | |
| Chloroethane | BQL | 0.00482 | 0.00153 | 1 | 5/6/2008 | |
| Chloroform | BQL | 0.00482 | 0.00116 | 1 | 5/6/2008 | |
| Chloromethane | BQL | 0.00482 | 0.00109 | 1 | 5/6/2008 | |
| 2-Chlorotoluene | BQL | 0.00482 | 0.00097 | 1 | 5/6/2008 | |
| 4-Chlorotoluene | BQL | 0.00482 | 0.00121 | 1 | 5/6/2008 | |
| Dibromochloromethane | BQL | 0.00482 | 0.00133 | 1 | 5/6/2008 | |
| 1,2-Dibromo-3-chloropropane | BQL | 0.0241 | 0.00140 | 1 | 5/6/2008 | |
| Dibromomethane | BQL | 0.00482 | 0.00146 | 1 | 5/6/2008 | |
| 1,2-Dibromoethane (EDB) | BQL | 0.00482 | 0.00109 | 1 | 5/6/2008 | |
| 1,2-Dichlorobenzene | BQL | 0.00482 | 0.00124 | 1 | 5/6/2008 | |
| 1,3-Dichlorobenzene | BQL | 0.00482 | 0.00123 | 1 | 5/6/2008 | |
| 1,4-Dichlorobenzene | BQL | 0.00482 | 0.00101 | 1 | 5/6/2008 | |
| trans-1,4-Dichloro-2-butene | BQL | 0.0241 | 0.00133 | 1 | 5/6/2008 | |
| 1,1-Dichloroethane | BQL | 0.00482 | 0.00102 | 1 | 5/6/2008 | |
| 1,1-Dichloroethene | BQL | 0.00482 | 0.00143 | 1 | 5/6/2008 | |
| 1,2-Dichloroethane | BQL | 0.00482 | 0.00127 | 1 | 5/6/2008 | |
| cis-1,2-Dichloroethene | BQL | 0.00482 | 0.00123 | 1 | 5/6/2008 | |
| trans-1,2-dichloroethene | BQL | 0.00482 | 0.00109 | 1 | 5/6/2008 | |
| 1,2-Dichloropropane | BQL | 0.00482 | 0.00114 | 1 | 5/6/2008 | |
| 1,3-Dichloropropane | BQL | 0.00482 | 0.00108 | 1 | 5/6/2008 | |
| 2,2-Dichloropropane | BQL | 0.00482 | 0.00116 | 1 | 5/6/2008 | |
| 1,1-Dichloropropene | BQL | 0.00482 | 0.00151 | 1 | 5/6/2008 | |
| cis-1,3-Dichloropropene | BQL | 0.00482 | 0.00080 | 1 | 5/6/2008 | |
| trans-1,3-Dichloropropene | BQL | 0.00482 | 0.00093 | 1 | 5/6/2008 | |
| Dichlorodifluoromethane | BQL | 0.00482 | 0.00127 | 1 | 5/6/2008 | |
| Diisopropyl ether (DIPE) | BQL | 0.00482 | 0.00109 | 1 | 5/6/2008 | |
| Ethylbenzene | BQL | 0.00482 | 0.00084 | 1 | 5/6/2008 | |
| Hexachlorobutadiene | BQL | 0.00482 | 0.00094 | 1 | 5/6/2008 | |
| 2-Hexanone | BQL | 0.00482 | 0.00313 | 1 | 5/6/2008 | |
| Iodomethane | BQL | 0.00482 | 0.00104 | 1 | 5/6/2008 | |

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

Client Sample ID: DPT-03
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID G128-2183-3A
Lab Project ID: G128-2183
Report Basis: Dry Weight

Analyzed By: MJC
Date Collected: 04-30-2008 11:15
Date Received: 5/1/2008
Matrix: Soil
Sample Amount: 5.44 g
%Solids: 95.3

| Report Name<br>Compound | Result<br>MG/KG | Quantitation<br>Limit MG/KG | MDL<br>MG/KG | Dilution<br>Factor | Date<br>Analyzed | Flag |
|---|---|---|---|---|---|---|
| Isopropylbenzene | BQL | 0.00482 | 0.00086 | 1 | 5/6/2008 | |
| 4-Isopropyltoluene | BQL | 0.00482 | 0.00103 | 1 | 5/6/2008 | |
| Methylene chloride | BQL | 0.0193 | 0.00115 | 1 | 5/6/2008 | |
| 4-Methyl-2-pentanone | BQL | 0.00482 | 0.00447 | 1 | 5/6/2008 | |
| Methyl-tert-butyl ether (MTBE) | BQL | 0.00482 | 0.00107 | 1 | 5/6/2008 | |
| Naphthalene | BQL | 0.00482 | 0.00082 | 1 | 5/6/2008 | |
| n-Propyl benzene | BQL | 0.00482 | 0.00122 | 1 | 5/6/2008 | |
| Styrene | BQL | 0.00482 | 0.00106 | 1 | 5/6/2008 | |
| 1,1,1,2-Tetrachloroethane | BQL | 0.00482 | 0.00098 | 1 | 5/6/2008 | |
| 1,1,2,2-Tetrachloroethane | BQL | 0.00482 | 0.00109 | 1 | 5/6/2008 | |
| Tetrachloroethene | BQL | 0.00482 | 0.00088 | 1 | 5/6/2008 | |
| Toluene | **0.00152** | 0.00482 | 0.00096 | 1 | 5/6/2008 | J |
| 1,2,3-Trichlorobenzene | BQL | 0.00482 | 0.00100 | 1 | 5/6/2008 | |
| 1,2,4-Trichlorobenzene | BQL | 0.00482 | 0.00099 | 1 | 5/6/2008 | |
| Trichloroethene | BQL | 0.00482 | 0.00092 | 1 | 5/6/2008 | |
| 1,1,1-Trichloroethane | BQL | 0.00482 | 0.00109 | 1 | 5/6/2008 | |
| 1,1,2-Trichloroethane | BQL | 0.00482 | 0.00158 | 1 | 5/6/2008 | |
| Trichlorofluoromethane | BQL | 0.00482 | 0.00099 | 1 | 5/6/2008 | |
| 1,2,3-Trichloropropane | BQL | 0.00482 | 0.00120 | 1 | 5/6/2008 | |
| 1,2,4-Trimethylbenzene | BQL | 0.00482 | 0.00122 | 1 | 5/6/2008 | |
| 1,3,5-Trimethylbenzene | BQL | 0.00482 | 0.00110 | 1 | 5/6/2008 | |
| Vinyl chloride | BQL | 0.00482 | 0.00131 | 1 | 5/6/2008 | |
| m-,p-Xylene | BQL | 0.00965 | 0.00185 | 1 | 5/6/2008 | |
| o-Xylene | BQL | 0.00482 | 0.00094 | 1 | 5/6/2008 | |

| | Spike Added | Spike Result | Percent Recovered |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 0.05 | 0.0607 | 121 |
| Toluene-d8 | 0.05 | 0.0473 | 95 |
| 4-Bromofluorobenzene | 0.05 | 0.0387 | 77 |

**Comments:**

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

Analyst: _____

Reviewed By: _____

SGS ENVIRONMENTAL SERVICES, INC.

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

Client Sample ID: DPT-04
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID G128-2183-4A
Lab Project ID: G128-2183
Report Basis: Dry Weight

Analyzed By: MJC
Date Collected: 04-30-2008 11:25
Date Received: 5/1/2008
Matrix: Soil
Sample Amount: 5.07 g
%Solids: 95.6

| Report Name<br>Compound | Result<br>MG/KG | Quantitation<br>Limit MG/KG | MDL<br>MG/KG | Dilution<br>Factor | Date<br>Analyzed | Flag |
|---|---|---|---|---|---|---|
| Acetone | **0.0334** | 0.0516 | 0.00713 | 1 | 5/6/2008 | J |
| Benzene | BQL | 0.00516 | 0.00110 | 1 | 5/6/2008 | |
| Bromobenzene | BQL | 0.00516 | 0.00106 | 1 | 5/6/2008 | |
| Bromochloromethane | BQL | 0.00516 | 0.00177 | 1 | 5/6/2008 | |
| Bromodichloromethane | BQL | 0.00516 | 0.00102 | 1 | 5/6/2008 | |
| Bromoform | BQL | 0.00516 | 0.00103 | 1 | 5/6/2008 | |
| Bromomethane | BQL | 0.00516 | 0.00108 | 1 | 5/6/2008 | |
| 2-Butanone | BQL | 0.0258 | 0.00560 | 1 | 5/6/2008 | |
| n-Butylbenzene | BQL | 0.00516 | 0.00099 | 1 | 5/6/2008 | |
| sec-Butylbenzene | BQL | 0.00516 | 0.00104 | 1 | 5/6/2008 | |
| tert-Butylbenzene | BQL | 0.00516 | 0.00116 | 1 | 5/6/2008 | |
| Carbon disulfide | BQL | 0.00516 | 0.00276 | 1 | 5/6/2008 | |
| Carbon tetrachloride | BQL | 0.00516 | 0.00105 | 1 | 5/6/2008 | |
| Chlorobenzene | BQL | 0.00516 | 0.00123 | 1 | 5/6/2008 | |
| Chloroethane | BQL | 0.00516 | 0.00164 | 1 | 5/6/2008 | |
| Chloroform | BQL | 0.00516 | 0.00124 | 1 | 5/6/2008 | |
| Chloromethane | BQL | 0.00516 | 0.00117 | 1 | 5/6/2008 | |
| 2-Chlorotoluene | BQL | 0.00516 | 0.00104 | 1 | 5/6/2008 | |
| 4-Chlorotoluene | BQL | 0.00516 | 0.00129 | 1 | 5/6/2008 | |
| Dibromochloromethane | BQL | 0.00516 | 0.00142 | 1 | 5/6/2008 | |
| 1,2-Dibromo-3-chloropropane | BQL | 0.0258 | 0.00150 | 1 | 5/6/2008 | |
| Dibromomethane | BQL | 0.00516 | 0.00156 | 1 | 5/6/2008 | |
| 1,2-Dibromoethane (EDB) | BQL | 0.00516 | 0.00117 | 1 | 5/6/2008 | |
| 1,2-Dichlorobenzene | BQL | 0.00516 | 0.00133 | 1 | 5/6/2008 | |
| 1,3-Dichlorobenzene | BQL | 0.00516 | 0.00132 | 1 | 5/6/2008 | |
| 1,4-Dichlorobenzene | BQL | 0.00516 | 0.00108 | 1 | 5/6/2008 | |
| trans-1,4-Dichloro-2-butene | BQL | 0.0258 | 0.00142 | 1 | 5/6/2008 | |
| 1,1-Dichloroethane | BQL | 0.00516 | 0.00109 | 1 | 5/6/2008 | |
| 1,1-Dichloroethene | BQL | 0.00516 | 0.00153 | 1 | 5/6/2008 | |
| 1,2-Dichloroethane | BQL | 0.00516 | 0.00136 | 1 | 5/6/2008 | |
| cis-1,2-Dichloroethene | BQL | 0.00516 | 0.00132 | 1 | 5/6/2008 | |
| trans-1,2-dichloroethene | BQL | 0.00516 | 0.00117 | 1 | 5/6/2008 | |
| 1,2-Dichloropropane | BQL | 0.00516 | 0.00122 | 1 | 5/6/2008 | |
| 1,3-Dichloropropane | BQL | 0.00516 | 0.00116 | 1 | 5/6/2008 | |
| 2,2-Dichloropropane | BQL | 0.00516 | 0.00124 | 1 | 5/6/2008 | |
| 1,1-Dichloropropene | BQL | 0.00516 | 0.00162 | 1 | 5/6/2008 | |
| cis-1,3-Dichloropropene | BQL | 0.00516 | 0.00086 | 1 | 5/6/2008 | |
| trans-1,3-Dichloropropene | BQL | 0.00516 | 0.00099 | 1 | 5/6/2008 | |
| Dichlorodifluoromethane | BQL | 0.00516 | 0.00136 | 1 | 5/6/2008 | |
| Diisopropyl ether (DIPE) | BQL | 0.00516 | 0.00117 | 1 | 5/6/2008 | |
| Ethylbenzene | BQL | 0.00516 | 0.00089 | 1 | 5/6/2008 | |
| Hexachlorobutadiene | BQL | 0.00516 | 0.00101 | 1 | 5/6/2008 | |
| 2-Hexanone | BQL | 0.00516 | 0.00334 | 1 | 5/6/2008 | |
| Iodomethane | BQL | 0.00516 | 0.00111 | 1 | 5/6/2008 | |

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

Client Sample ID: DPT-04
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID G128-2183-4A
Lab Project ID: G128-2183
Report Basis: Dry Weight

Analyzed By: MJC
Date Collected: 04-30-2008 11:25
Date Received: 5/1/2008
Matrix: Soil
Sample Amount: 5.07 g
%Solids: 95.6

| Report Name<br>Compound | Result<br>MG/KG | Quantitation<br>Limit MG/KG | MDL<br>MG/KG | Dilution<br>Factor | Date<br>Analyzed | Flag |
|---|---|---|---|---|---|---|
| Isopropylbenzene | BQL | 0.00516 | 0.00092 | 1 | 5/6/2008 | |
| 4-Isopropyltoluene | BQL | 0.00516 | 0.00110 | 1 | 5/6/2008 | |
| Methylene chloride | BQL | 0.0206 | 0.00123 | 1 | 5/6/2008 | |
| 4-Methyl-2-pentanone | BQL | 0.00516 | 0.00478 | 1 | 5/6/2008 | |
| Methyl-tert-butyl ether (MTBE) | BQL | 0.00516 | 0.00115 | 1 | 5/6/2008 | |
| Naphthalene | BQL | 0.00516 | 0.00088 | 1 | 5/6/2008 | |
| n-Propyl benzene | BQL | 0.00516 | 0.00130 | 1 | 5/6/2008 | |
| Styrene | BQL | 0.00516 | 0.00113 | 1 | 5/6/2008 | |
| 1,1,1,2-Tetrachloroethane | BQL | 0.00516 | 0.00105 | 1 | 5/6/2008 | |
| 1,1,2,2-Tetrachloroethane | BQL | 0.00516 | 0.00117 | 1 | 5/6/2008 | |
| Tetrachloroethene | BQL | 0.00516 | 0.00095 | 1 | 5/6/2008 | |
| Toluene | BQL | 0.00516 | 0.00103 | 1 | 5/6/2008 | |
| 1,2,3-Trichlorobenzene | BQL | 0.00516 | 0.00107 | 1 | 5/6/2008 | |
| 1,2,4-Trichlorobenzene | BQL | 0.00516 | 0.00106 | 1 | 5/6/2008 | |
| Trichloroethene | BQL | 0.00516 | 0.00098 | 1 | 5/6/2008 | |
| 1,1,1-Trichloroethane | BQL | 0.00516 | 0.00117 | 1 | 5/6/2008 | |
| 1,1,2-Trichloroethane | BQL | 0.00516 | 0.00169 | 1 | 5/6/2008 | |
| Trichlorofluoromethane | BQL | 0.00516 | 0.00106 | 1 | 5/6/2008 | |
| 1,2,3-Trichloropropane | BQL | 0.00516 | 0.00128 | 1 | 5/6/2008 | |
| 1,2,4-Trimethylbenzene | BQL | 0.00516 | 0.00130 | 1 | 5/6/2008 | |
| 1,3,5-Trimethylbenzene | BQL | 0.00516 | 0.00118 | 1 | 5/6/2008 | |
| Vinyl chloride | BQL | 0.00516 | 0.00140 | 1 | 5/6/2008 | |
| m-,p-Xylene | BQL | 0.0103 | 0.00198 | 1 | 5/6/2008 | |
| o-Xylene | BQL | 0.00516 | 0.00100 | 1 | 5/6/2008 | |

| | Spike Added | Spike Result | Percent Recovered |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 0.05 | 0.0677 | 135 |
| Toluene-d8 | 0.05 | 0.045 | 90 |
| 4-Bromofluorobenzene | 0.05 | 0.0208 | 42 |

**Comments:**

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

Analyst: _____

Reviewed By: _____

SGS ENVIRONMENTAL SERVICES, INC.

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

Client Sample ID: DPT-05
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID G128-2183-5A
Lab Project ID: G128-2183
Report Basis: Dry Weight

Analyzed By: MJC
Date Collected: 04-30-2008 11:40
Date Received: 5/1/2008
Matrix: Soil
Sample Amount: 5.03 g
%Solids: 93.8

| Report Name<br>Compound | Result<br>MG/KG | Quantitation<br>Limit MG/KG | MDL<br>MG/KG | Dilution<br>Factor | Date<br>Analyzed | Flag |
|---|---|---|---|---|---|---|
| Acetone | **0.0236** | 0.0530 | 0.00733 | 1 | 5/6/2008 | J |
| Benzene | BQL | 0.00530 | 0.00113 | 1 | 5/6/2008 | |
| Bromobenzene | BQL | 0.00530 | 0.00109 | 1 | 5/6/2008 | |
| Bromochloromethane | BQL | 0.00530 | 0.00182 | 1 | 5/6/2008 | |
| Bromodichloromethane | BQL | 0.00530 | 0.00105 | 1 | 5/6/2008 | |
| Bromoform | BQL | 0.00530 | 0.00106 | 1 | 5/6/2008 | |
| Bromomethane | BQL | 0.00530 | 0.00111 | 1 | 5/6/2008 | |
| 2-Butanone | BQL | 0.0265 | 0.00576 | 1 | 5/6/2008 | |
| n-Butylbenzene | BQL | 0.00530 | 0.00101 | 1 | 5/6/2008 | |
| sec-Butylbenzene | BQL | 0.00530 | 0.00107 | 1 | 5/6/2008 | |
| tert-Butylbenzene | BQL | 0.00530 | 0.00119 | 1 | 5/6/2008 | |
| Carbon disulfide | BQL | 0.00530 | 0.00284 | 1 | 5/6/2008 | |
| Carbon tetrachloride | BQL | 0.00530 | 0.00108 | 1 | 5/6/2008 | |
| Chlorobenzene | BQL | 0.00530 | 0.00126 | 1 | 5/6/2008 | |
| Chloroethane | BQL | 0.00530 | 0.00169 | 1 | 5/6/2008 | |
| Chloroform | BQL | 0.00530 | 0.00127 | 1 | 5/6/2008 | |
| Chloromethane | BQL | 0.00530 | 0.00120 | 1 | 5/6/2008 | |
| 2-Chlorotoluene | BQL | 0.00530 | 0.00107 | 1 | 5/6/2008 | |
| 4-Chlorotoluene | BQL | 0.00530 | 0.00133 | 1 | 5/6/2008 | |
| Dibromochloromethane | BQL | 0.00530 | 0.00146 | 1 | 5/6/2008 | |
| 1,2-Dibromo-3-chloropropane | BQL | 0.0265 | 0.00154 | 1 | 5/6/2008 | |
| Dibromomethane | BQL | 0.00530 | 0.00160 | 1 | 5/6/2008 | |
| 1,2-Dibromoethane (EDB) | BQL | 0.00530 | 0.00120 | 1 | 5/6/2008 | |
| 1,2-Dichlorobenzene | BQL | 0.00530 | 0.00137 | 1 | 5/6/2008 | |
| 1,3-Dichlorobenzene | BQL | 0.00530 | 0.00136 | 1 | 5/6/2008 | |
| 1,4-Dichlorobenzene | BQL | 0.00530 | 0.00111 | 1 | 5/6/2008 | |
| trans-1,4-Dichloro-2-butene | BQL | 0.0265 | 0.00146 | 1 | 5/6/2008 | |
| 1,1-Dichloroethane | BQL | 0.00530 | 0.00112 | 1 | 5/6/2008 | |
| 1,1-Dichloroethene | BQL | 0.00530 | 0.00157 | 1 | 5/6/2008 | |
| 1,2-Dichloroethane | BQL | 0.00530 | 0.00140 | 1 | 5/6/2008 | |
| cis-1,2-Dichloroethene | BQL | 0.00530 | 0.00136 | 1 | 5/6/2008 | |
| trans-1,2-dichloroethene | BQL | 0.00530 | 0.00120 | 1 | 5/6/2008 | |
| 1,2-Dichloropropane | BQL | 0.00530 | 0.00125 | 1 | 5/6/2008 | |
| 1,3-Dichloropropane | BQL | 0.00530 | 0.00119 | 1 | 5/6/2008 | |
| 2,2-Dichloropropane | BQL | 0.00530 | 0.00127 | 1 | 5/6/2008 | |
| 1,1-Dichloropropene | BQL | 0.00530 | 0.00166 | 1 | 5/6/2008 | |
| cis-1,3-Dichloropropene | BQL | 0.00530 | 0.00088 | 1 | 5/6/2008 | |
| trans-1,3-Dichloropropene | BQL | 0.00530 | 0.00102 | 1 | 5/6/2008 | |
| Dichlorodifluoromethane | BQL | 0.00530 | 0.00140 | 1 | 5/6/2008 | |
| Diisopropyl ether (DIPE) | BQL | 0.00530 | 0.00120 | 1 | 5/6/2008 | |
| Ethylbenzene | BQL | 0.00530 | 0.00092 | 1 | 5/6/2008 | |
| Hexachlorobutadiene | BQL | 0.00530 | 0.00103 | 1 | 5/6/2008 | |
| 2-Hexanone | BQL | 0.00530 | 0.00344 | 1 | 5/6/2008 | |
| Iodomethane | BQL | 0.00530 | 0.00115 | 1 | 5/6/2008 | |

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

Client Sample ID: DPT-05
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID G128-2183-5A
Lab Project ID: G128-2183
Report Basis: Dry Weight

Analyzed By: MJC
Date Collected: 04-30-2008 11:40
Date Received: 5/1/2008
Matrix: Soil
Sample Amount: 5.03 g
%Solids: 93.8

| Report Name<br>Compound | Result<br>MG/KG | Quantitation<br>Limit MG/KG | MDL<br>MG/KG | Dilution<br>Factor | Date<br>Analyzed | Flag |
|---|---|---|---|---|---|---|
| Isopropylbenzene | BQL | 0.00530 | 0.00094 | 1 | 5/6/2008 | |
| 4-Isopropyltoluene | BQL | 0.00530 | 0.00113 | 1 | 5/6/2008 | |
| Methylene chloride | BQL | 0.0212 | 0.00126 | 1 | 5/6/2008 | |
| 4-Methyl-2-pentanone | BQL | 0.00530 | 0.00491 | 1 | 5/6/2008 | |
| Methyl-tert-butyl ether (MTBE) | BQL | 0.00530 | 0.00118 | 1 | 5/6/2008 | |
| Naphthalene | BQL | 0.00530 | 0.00090 | 1 | 5/6/2008 | |
| n-Propyl benzene | BQL | 0.00530 | 0.00134 | 1 | 5/6/2008 | |
| Styrene | BQL | 0.00530 | 0.00117 | 1 | 5/6/2008 | |
| 1,1,1,2-Tetrachloroethane | BQL | 0.00530 | 0.00108 | 1 | 5/6/2008 | |
| 1,1,2,2-Tetrachloroethane | BQL | 0.00530 | 0.00120 | 1 | 5/6/2008 | |
| Tetrachloroethene | BQL | 0.00530 | 0.00097 | 1 | 5/6/2008 | |
| Toluene | BQL | 0.00530 | 0.00106 | 1 | 5/6/2008 | |
| 1,2,3-Trichlorobenzene | BQL | 0.00530 | 0.00110 | 1 | 5/6/2008 | |
| 1,2,4-Trichlorobenzene | BQL | 0.00530 | 0.00109 | 1 | 5/6/2008 | |
| Trichloroethene | BQL | 0.00530 | 0.00101 | 1 | 5/6/2008 | |
| 1,1,1-Trichloroethane | BQL | 0.00530 | 0.00120 | 1 | 5/6/2008 | |
| 1,1,2-Trichloroethane | BQL | 0.00530 | 0.00174 | 1 | 5/6/2008 | |
| Trichlorofluoromethane | BQL | 0.00530 | 0.00109 | 1 | 5/6/2008 | |
| 1,2,3-Trichloropropane | BQL | 0.00530 | 0.00131 | 1 | 5/6/2008 | |
| 1,2,4-Trimethylbenzene | BQL | 0.00530 | 0.00134 | 1 | 5/6/2008 | |
| 1,3,5-Trimethylbenzene | BQL | 0.00530 | 0.00121 | 1 | 5/6/2008 | |
| Vinyl chloride | BQL | 0.00530 | 0.00144 | 1 | 5/6/2008 | |
| m-,p-Xylene | BQL | 0.0106 | 0.00204 | 1 | 5/6/2008 | |
| o-Xylene | BQL | 0.00530 | 0.00103 | 1 | 5/6/2008 | |

| | Spike Added | Spike Result | Percent Recovered |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 0.05 | 0.0661 | 132 |
| Toluene-d8 | 0.05 | 0.0458 | 92 |
| 4-Bromofluorobenzene | 0.05 | 0.0241 | 48 |

**Comments:**

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

Analyst: _____

Reviewed By: _____

SGS ENVIRONMENTAL SERVICES, INC.

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

Client Sample ID: DPT-06
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID G128-2183-6A
Lab Project ID: G128-2183
Report Basis: Dry Weight

Analyzed By: MJC
Date Collected: 04-30-2008 11:50
Date Received: 5/1/2008
Matrix: Soil
Sample Amount: 4.90 g
%Solids: 95.3

| Report Name<br>Compound | Result<br>MG/KG | Quantitation<br>Limit MG/KG | MDL<br>MG/KG | Dilution<br>Factor | Date<br>Analyzed | Flag |
|---|---|---|---|---|---|---|
| Acetone | **0.0467** | 0.0535 | 0.00739 | 1 | 5/6/2008 | J |
| Benzene | BQL | 0.00535 | 0.00114 | 1 | 5/6/2008 | |
| Bromobenzene | BQL | 0.00535 | 0.00110 | 1 | 5/6/2008 | |
| Bromochloromethane | BQL | 0.00535 | 0.00184 | 1 | 5/6/2008 | |
| Bromodichloromethane | BQL | 0.00535 | 0.00106 | 1 | 5/6/2008 | |
| Bromoform | BQL | 0.00535 | 0.00107 | 1 | 5/6/2008 | |
| Bromomethane | BQL | 0.00535 | 0.00112 | 1 | 5/6/2008 | |
| 2-Butanone | BQL | 0.0267 | 0.00581 | 1 | 5/6/2008 | |
| n-Butylbenzene | BQL | 0.00535 | 0.00102 | 1 | 5/6/2008 | |
| sec-Butylbenzene | BQL | 0.00535 | 0.00108 | 1 | 5/6/2008 | |
| tert-Butylbenzene | BQL | 0.00535 | 0.00120 | 1 | 5/6/2008 | |
| Carbon disulfide | BQL | 0.00535 | 0.00287 | 1 | 5/6/2008 | |
| Carbon tetrachloride | BQL | 0.00535 | 0.00109 | 1 | 5/6/2008 | |
| Chlorobenzene | BQL | 0.00535 | 0.00127 | 1 | 5/6/2008 | |
| Chloroethane | BQL | 0.00535 | 0.00170 | 1 | 5/6/2008 | |
| Chloroform | BQL | 0.00535 | 0.00128 | 1 | 5/6/2008 | |
| Chloromethane | BQL | 0.00535 | 0.00121 | 1 | 5/6/2008 | |
| 2-Chlorotoluene | BQL | 0.00535 | 0.00108 | 1 | 5/6/2008 | |
| 4-Chlorotoluene | BQL | 0.00535 | 0.00134 | 1 | 5/6/2008 | |
| Dibromochloromethane | BQL | 0.00535 | 0.00148 | 1 | 5/6/2008 | |
| 1,2-Dibromo-3-chloropropane | BQL | 0.0267 | 0.00155 | 1 | 5/6/2008 | |
| Dibromomethane | BQL | 0.00535 | 0.00161 | 1 | 5/6/2008 | |
| 1,2-Dibromoethane (EDB) | BQL | 0.00535 | 0.00121 | 1 | 5/6/2008 | |
| 1,2-Dichlorobenzene | BQL | 0.00535 | 0.00138 | 1 | 5/6/2008 | |
| 1,3-Dichlorobenzene | BQL | 0.00535 | 0.00137 | 1 | 5/6/2008 | |
| 1,4-Dichlorobenzene | BQL | 0.00535 | 0.00112 | 1 | 5/6/2008 | |
| trans-1,4-Dichloro-2-butene | BQL | 0.0267 | 0.00148 | 1 | 5/6/2008 | |
| 1,1-Dichloroethane | BQL | 0.00535 | 0.00113 | 1 | 5/6/2008 | |
| 1,1-Dichloroethene | BQL | 0.00535 | 0.00158 | 1 | 5/6/2008 | |
| 1,2-Dichloroethane | BQL | 0.00535 | 0.00141 | 1 | 5/6/2008 | |
| cis-1,2-Dichloroethene | BQL | 0.00535 | 0.00137 | 1 | 5/6/2008 | |
| trans-1,2-dichloroethene | BQL | 0.00535 | 0.00121 | 1 | 5/6/2008 | |
| 1,2-Dichloropropane | BQL | 0.00535 | 0.00126 | 1 | 5/6/2008 | |
| 1,3-Dichloropropane | BQL | 0.00535 | 0.00120 | 1 | 5/6/2008 | |
| 2,2-Dichloropropane | BQL | 0.00535 | 0.00128 | 1 | 5/6/2008 | |
| 1,1-Dichloropropene | BQL | 0.00535 | 0.00168 | 1 | 5/6/2008 | |
| cis-1,3-Dichloropropene | BQL | 0.00535 | 0.00089 | 1 | 5/6/2008 | |
| trans-1,3-Dichloropropene | BQL | 0.00535 | 0.00103 | 1 | 5/6/2008 | |
| Dichlorodifluoromethane | BQL | 0.00535 | 0.00141 | 1 | 5/6/2008 | |
| Diisopropyl ether (DIPE) | BQL | 0.00535 | 0.00121 | 1 | 5/6/2008 | |
| Ethylbenzene | BQL | 0.00535 | 0.00093 | 1 | 5/6/2008 | |
| Hexachlorobutadiene | BQL | 0.00535 | 0.00104 | 1 | 5/6/2008 | |
| 2-Hexanone | BQL | 0.00535 | 0.00346 | 1 | 5/6/2008 | |
| Iodomethane | BQL | 0.00535 | 0.00115 | 1 | 5/6/2008 | |

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

Client Sample ID: DPT-06
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID G128-2183-6A
Lab Project ID: G128-2183
Report Basis: Dry Weight

Analyzed By: MJC
Date Collected: 04-30-2008 11:50
Date Received: 5/1/2008
Matrix: Soil
Sample Amount: 4.90 g
%Solids: 95.3

| Report Name<br>Compound | Result<br>MG/KG | Quantitation<br>Limit MG/KG | MDL<br>MG/KG | Dilution<br>Factor | Date<br>Analyzed | Flag |
|---|---|---|---|---|---|---|
| Isopropylbenzene | BQL | 0.00535 | 0.00095 | 1 | 5/6/2008 | |
| 4-Isopropyltoluene | BQL | 0.00535 | 0.00114 | 1 | 5/6/2008 | |
| Methylene chloride | BQL | 0.0214 | 0.00127 | 1 | 5/6/2008 | |
| 4-Methyl-2-pentanone | BQL | 0.00535 | 0.00495 | 1 | 5/6/2008 | |
| Methyl-tert-butyl ether (MTBE) | BQL | 0.00535 | 0.00119 | 1 | 5/6/2008 | |
| Naphthalene | BQL | 0.00535 | 0.00091 | 1 | 5/6/2008 | |
| n-Propyl benzene | BQL | 0.00535 | 0.00135 | 1 | 5/6/2008 | |
| Styrene | BQL | 0.00535 | 0.00118 | 1 | 5/6/2008 | |
| 1,1,1,2-Tetrachloroethane | BQL | 0.00535 | 0.00109 | 1 | 5/6/2008 | |
| 1,1,2,2-Tetrachloroethane | BQL | 0.00535 | 0.00121 | 1 | 5/6/2008 | |
| Tetrachloroethene | BQL | 0.00535 | 0.00098 | 1 | 5/6/2008 | |
| Toluene | BQL | 0.00535 | 0.00107 | 1 | 5/6/2008 | |
| 1,2,3-Trichlorobenzene | BQL | 0.00535 | 0.00111 | 1 | 5/6/2008 | |
| 1,2,4-Trichlorobenzene | BQL | 0.00535 | 0.00110 | 1 | 5/6/2008 | |
| Trichloroethene | BQL | 0.00535 | 0.00102 | 1 | 5/6/2008 | |
| 1,1,1-Trichloroethane | BQL | 0.00535 | 0.00121 | 1 | 5/6/2008 | |
| 1,1,2-Trichloroethane | BQL | 0.00535 | 0.00175 | 1 | 5/6/2008 | |
| Trichlorofluoromethane | BQL | 0.00535 | 0.00110 | 1 | 5/6/2008 | |
| 1,2,3-Trichloropropane | BQL | 0.00535 | 0.00133 | 1 | 5/6/2008 | |
| 1,2,4-Trimethylbenzene | BQL | 0.00535 | 0.00135 | 1 | 5/6/2008 | |
| 1,3,5-Trimethylbenzene | BQL | 0.00535 | 0.00122 | 1 | 5/6/2008 | |
| Vinyl chloride | BQL | 0.00535 | 0.00145 | 1 | 5/6/2008 | |
| m-,p-Xylene | BQL | 0.0107 | 0.00205 | 1 | 5/6/2008 | |
| o-Xylene | BQL | 0.00535 | 0.00104 | 1 | 5/6/2008 | |

| | Spike Added | Spike Result | Percent Recovered |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 0.05 | 0.062 | 124 |
| Toluene-d8 | 0.05 | 0.0489 | 98 |
| 4-Bromofluorobenzene | 0.05 | 0.0456 | 91 |

**Comments:**

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

Analyst: _____

Reviewed By: _____

SGS ENVIRONMENTAL SERVICES, INC.

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

Client Sample ID: DPT-07
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID G128-2183-7A
Lab Project ID: G128-2183
Report Basis: Dry Weight

Analyzed By: MJC
Date Collected: 04-30-2008 12:15
Date Received: 5/1/2008
Matrix: Soil
Sample Amount: 5.11 g
%Solids: 93.4

| Report Name<br>Compound | Result<br>MG/KG | Quantitation<br>Limit MG/KG | MDL<br>MG/KG | Dilution<br>Factor | Date<br>Analyzed | Flag |
|---|---|---|---|---|---|---|
| Acetone | **0.0328** | 0.0523 | 0.00723 | 1 | 5/6/2008 | J |
| Benzene | BQL | 0.00523 | 0.00112 | 1 | 5/6/2008 | |
| Bromobenzene | BQL | 0.00523 | 0.00108 | 1 | 5/6/2008 | |
| Bromochloromethane | BQL | 0.00523 | 0.00180 | 1 | 5/6/2008 | |
| Bromodichloromethane | BQL | 0.00523 | 0.00104 | 1 | 5/6/2008 | |
| Bromoform | BQL | 0.00523 | 0.00105 | 1 | 5/6/2008 | |
| Bromomethane | BQL | 0.00523 | 0.00110 | 1 | 5/6/2008 | |
| 2-Butanone | BQL | 0.0262 | 0.00568 | 1 | 5/6/2008 | |
| n-Butylbenzene | BQL | 0.00523 | 0.00100 | 1 | 5/6/2008 | |
| sec-Butylbenzene | BQL | 0.00523 | 0.00106 | 1 | 5/6/2008 | |
| tert-Butylbenzene | BQL | 0.00523 | 0.00117 | 1 | 5/6/2008 | |
| Carbon disulfide | BQL | 0.00523 | 0.00280 | 1 | 5/6/2008 | |
| Carbon tetrachloride | BQL | 0.00523 | 0.00107 | 1 | 5/6/2008 | |
| Chlorobenzene | BQL | 0.00523 | 0.00124 | 1 | 5/6/2008 | |
| Chloroethane | BQL | 0.00523 | 0.00166 | 1 | 5/6/2008 | |
| Chloroform | BQL | 0.00523 | 0.00126 | 1 | 5/6/2008 | |
| Chloromethane | BQL | 0.00523 | 0.00118 | 1 | 5/6/2008 | |
| 2-Chlorotoluene | BQL | 0.00523 | 0.00106 | 1 | 5/6/2008 | |
| 4-Chlorotoluene | BQL | 0.00523 | 0.00131 | 1 | 5/6/2008 | |
| Dibromochloromethane | BQL | 0.00523 | 0.00144 | 1 | 5/6/2008 | |
| 1,2-Dibromo-3-chloropropane | BQL | 0.0262 | 0.00152 | 1 | 5/6/2008 | |
| Dibromomethane | BQL | 0.00523 | 0.00158 | 1 | 5/6/2008 | |
| 1,2-Dibromoethane (EDB) | BQL | 0.00523 | 0.00118 | 1 | 5/6/2008 | |
| 1,2-Dichlorobenzene | BQL | 0.00523 | 0.00135 | 1 | 5/6/2008 | |
| 1,3-Dichlorobenzene | BQL | 0.00523 | 0.00134 | 1 | 5/6/2008 | |
| 1,4-Dichlorobenzene | BQL | 0.00523 | 0.00110 | 1 | 5/6/2008 | |
| trans-1,4-Dichloro-2-butene | BQL | 0.0262 | 0.00144 | 1 | 5/6/2008 | |
| 1,1-Dichloroethane | BQL | 0.00523 | 0.00111 | 1 | 5/6/2008 | |
| 1,1-Dichloroethene | BQL | 0.00523 | 0.00155 | 1 | 5/6/2008 | |
| 1,2-Dichloroethane | BQL | 0.00523 | 0.00138 | 1 | 5/6/2008 | |
| cis-1,2-Dichloroethene | BQL | 0.00523 | 0.00134 | 1 | 5/6/2008 | |
| trans-1,2-dichloroethene | BQL | 0.00523 | 0.00118 | 1 | 5/6/2008 | |
| 1,2-Dichloropropane | BQL | 0.00523 | 0.00123 | 1 | 5/6/2008 | |
| 1,3-Dichloropropane | BQL | 0.00523 | 0.00117 | 1 | 5/6/2008 | |
| 2,2-Dichloropropane | BQL | 0.00523 | 0.00126 | 1 | 5/6/2008 | |
| 1,1-Dichloropropene | BQL | 0.00523 | 0.00164 | 1 | 5/6/2008 | |
| cis-1,3-Dichloropropene | BQL | 0.00523 | 0.00087 | 1 | 5/6/2008 | |
| trans-1,3-Dichloropropene | BQL | 0.00523 | 0.00101 | 1 | 5/6/2008 | |
| Dichlorodifluoromethane | BQL | 0.00523 | 0.00138 | 1 | 5/6/2008 | |
| Diisopropyl ether (DIPE) | BQL | 0.00523 | 0.00118 | 1 | 5/6/2008 | |
| Ethylbenzene | BQL | 0.00523 | 0.00091 | 1 | 5/6/2008 | |
| Hexachlorobutadiene | BQL | 0.00523 | 0.00102 | 1 | 5/6/2008 | |
| 2-Hexanone | BQL | 0.00523 | 0.00339 | 1 | 5/6/2008 | |
| Iodomethane | BQL | 0.00523 | 0.00113 | 1 | 5/6/2008 | |

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

Client Sample ID: DPT-07
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID G128-2183-7A
Lab Project ID: G128-2183
Report Basis: Dry Weight

Analyzed By: MJC
Date Collected: 04-30-2008 12:15
Date Received: 5/1/2008
Matrix: Soil
Sample Amount: 5.11 g
%Solids: 93.4

| Report Name<br>Compound | Result<br>MG/KG | Quantitation<br>Limit MG/KG | MDL<br>MG/KG | Dilution<br>Factor | Date<br>Analyzed | Flag |
|---|---|---|---|---|---|---|
| Isopropylbenzene | BQL | 0.00523 | 0.00093 | 1 | 5/6/2008 | |
| 4-Isopropyltoluene | BQL | 0.00523 | 0.00112 | 1 | 5/6/2008 | |
| Methylene chloride | BQL | 0.0209 | 0.00124 | 1 | 5/6/2008 | |
| 4-Methyl-2-pentanone | BQL | 0.00523 | 0.00484 | 1 | 5/6/2008 | |
| Methyl-tert-butyl ether (MTBE) | BQL | 0.00523 | 0.00116 | 1 | 5/6/2008 | |
| Naphthalene | BQL | 0.00523 | 0.00089 | 1 | 5/6/2008 | |
| n-Propyl benzene | BQL | 0.00523 | 0.00132 | 1 | 5/6/2008 | |
| Styrene | BQL | 0.00523 | 0.00115 | 1 | 5/6/2008 | |
| 1,1,1,2-Tetrachloroethane | BQL | 0.00523 | 0.00107 | 1 | 5/6/2008 | |
| 1,1,2,2-Tetrachloroethane | BQL | 0.00523 | 0.00118 | 1 | 5/6/2008 | |
| Tetrachloroethene | BQL | 0.00523 | 0.00096 | 1 | 5/6/2008 | |
| Toluene | BQL | 0.00523 | 0.00104 | 1 | 5/6/2008 | |
| 1,2,3-Trichlorobenzene | BQL | 0.00523 | 0.00109 | 1 | 5/6/2008 | |
| 1,2,4-Trichlorobenzene | BQL | 0.00523 | 0.00108 | 1 | 5/6/2008 | |
| Trichloroethene | BQL | 0.00523 | 0.00100 | 1 | 5/6/2008 | |
| 1,1,1-Trichloroethane | BQL | 0.00523 | 0.00118 | 1 | 5/6/2008 | |
| 1,1,2-Trichloroethane | BQL | 0.00523 | 0.00172 | 1 | 5/6/2008 | |
| Trichlorofluoromethane | BQL | 0.00523 | 0.00108 | 1 | 5/6/2008 | |
| 1,2,3-Trichloropropane | BQL | 0.00523 | 0.00130 | 1 | 5/6/2008 | |
| 1,2,4-Trimethylbenzene | BQL | 0.00523 | 0.00132 | 1 | 5/6/2008 | |
| 1,3,5-Trimethylbenzene | BQL | 0.00523 | 0.00119 | 1 | 5/6/2008 | |
| Vinyl chloride | BQL | 0.00523 | 0.00142 | 1 | 5/6/2008 | |
| m-,p-Xylene | BQL | 0.0105 | 0.00201 | 1 | 5/6/2008 | |
| o-Xylene | BQL | 0.00523 | 0.00101 | 1 | 5/6/2008 | |

| | Spike Added | Spike Result | Percent Recovered |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 0.05 | 0.0637 | 127 |
| Toluene-d8 | 0.05 | 0.0477 | 95 |
| 4-Bromofluorobenzene | 0.05 | 0.0392 | 78 |

**Comments:**

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

Analyst: _____

Reviewed By: _____

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

Client Sample ID: DPT-08
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID G128-2183-8A
Lab Project ID: G128-2183
Report Basis: Dry Weight

Analyzed By: MJC
Date Collected: 04-30-2008 12:30
Date Received: 5/1/2008
Matrix: Soil
Sample Amount: 5.40 g
%Solids: 96.9

| Report Name<br>Compound | Result<br>MG/KG | Quantitation<br>Limit MG/KG | MDL<br>MG/KG | Dilution<br>Factor | Date<br>Analyzed | Flag |
|---|---|---|---|---|---|---|
| Acetone | **0.0464** | 0.0477 | 0.00659 | 1 | 5/6/2008 | J |
| Benzene | BQL | 0.00477 | 0.00102 | 1 | 5/6/2008 | |
| Bromobenzene | BQL | 0.00477 | 0.00098 | 1 | 5/6/2008 | |
| Bromochloromethane | BQL | 0.00477 | 0.00164 | 1 | 5/6/2008 | |
| Bromodichloromethane | BQL | 0.00477 | 0.00095 | 1 | 5/6/2008 | |
| Bromoform | BQL | 0.00477 | 0.00095 | 1 | 5/6/2008 | |
| Bromomethane | BQL | 0.00477 | 0.00100 | 1 | 5/6/2008 | |
| 2-Butanone | BQL | 0.0238 | 0.00518 | 1 | 5/6/2008 | |
| n-Butylbenzene | BQL | 0.00477 | 0.00091 | 1 | 5/6/2008 | |
| sec-Butylbenzene | BQL | 0.00477 | 0.00096 | 1 | 5/6/2008 | |
| tert-Butylbenzene | BQL | 0.00477 | 0.00107 | 1 | 5/6/2008 | |
| Carbon disulfide | BQL | 0.00477 | 0.00256 | 1 | 5/6/2008 | |
| Carbon tetrachloride | BQL | 0.00477 | 0.00097 | 1 | 5/6/2008 | |
| Chlorobenzene | BQL | 0.00477 | 0.00113 | 1 | 5/6/2008 | |
| Chloroethane | BQL | 0.00477 | 0.00152 | 1 | 5/6/2008 | |
| Chloroform | BQL | 0.00477 | 0.00114 | 1 | 5/6/2008 | |
| Chloromethane | BQL | 0.00477 | 0.00108 | 1 | 5/6/2008 | |
| 2-Chlorotoluene | BQL | 0.00477 | 0.00096 | 1 | 5/6/2008 | |
| 4-Chlorotoluene | BQL | 0.00477 | 0.00119 | 1 | 5/6/2008 | |
| Dibromochloromethane | BQL | 0.00477 | 0.00132 | 1 | 5/6/2008 | |
| 1,2-Dibromo-3-chloropropane | BQL | 0.0238 | 0.00138 | 1 | 5/6/2008 | |
| Dibromomethane | BQL | 0.00477 | 0.00144 | 1 | 5/6/2008 | |
| 1,2-Dibromoethane (EDB) | BQL | 0.00477 | 0.00108 | 1 | 5/6/2008 | |
| 1,2-Dichlorobenzene | BQL | 0.00477 | 0.00123 | 1 | 5/6/2008 | |
| 1,3-Dichlorobenzene | BQL | 0.00477 | 0.00122 | 1 | 5/6/2008 | |
| 1,4-Dichlorobenzene | BQL | 0.00477 | 0.00100 | 1 | 5/6/2008 | |
| trans-1,4-Dichloro-2-butene | BQL | 0.0238 | 0.00132 | 1 | 5/6/2008 | |
| 1,1-Dichloroethane | BQL | 0.00477 | 0.00101 | 1 | 5/6/2008 | |
| 1,1-Dichloroethene | BQL | 0.00477 | 0.00141 | 1 | 5/6/2008 | |
| 1,2-Dichloroethane | BQL | 0.00477 | 0.00126 | 1 | 5/6/2008 | |
| cis-1,2-Dichloroethene | BQL | 0.00477 | 0.00122 | 1 | 5/6/2008 | |
| trans-1,2-dichloroethene | BQL | 0.00477 | 0.00108 | 1 | 5/6/2008 | |
| 1,2-Dichloropropane | BQL | 0.00477 | 0.00113 | 1 | 5/6/2008 | |
| 1,3-Dichloropropane | BQL | 0.00477 | 0.00107 | 1 | 5/6/2008 | |
| 2,2-Dichloropropane | BQL | 0.00477 | 0.00114 | 1 | 5/6/2008 | |
| 1,1-Dichloropropene | BQL | 0.00477 | 0.00150 | 1 | 5/6/2008 | |
| cis-1,3-Dichloropropene | BQL | 0.00477 | 0.00079 | 1 | 5/6/2008 | |
| trans-1,3-Dichloropropene | BQL | 0.00477 | 0.00092 | 1 | 5/6/2008 | |
| Dichlorodifluoromethane | BQL | 0.00477 | 0.00126 | 1 | 5/6/2008 | |
| Diisopropyl ether (DIPE) | BQL | 0.00477 | 0.00108 | 1 | 5/6/2008 | |
| Ethylbenzene | BQL | 0.00477 | 0.00083 | 1 | 5/6/2008 | |
| Hexachlorobutadiene | BQL | 0.00477 | 0.00093 | 1 | 5/6/2008 | |
| 2-Hexanone | BQL | 0.00477 | 0.00309 | 1 | 5/6/2008 | |
| Iodomethane | BQL | 0.00477 | 0.00103 | 1 | 5/6/2008 | |

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

Client Sample ID: DPT-08
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID G128-2183-8A
Lab Project ID: G128-2183
Report Basis: Dry Weight

Analyzed By: MJC
Date Collected: 04-30-2008 12:30
Date Received: 5/1/2008
Matrix: Soil
Sample Amount: 5.40 g
%Solids: 96.9

| Report Name<br>Compound | Result<br>MG/KG | Quantitation<br>Limit MG/KG | MDL<br>MG/KG | Dilution<br>Factor | Date<br>Analyzed | Flag |
|---|---|---|---|---|---|---|
| Isopropylbenzene | BQL | 0.00477 | 0.00085 | 1 | 5/6/2008 | |
| 4-Isopropyltoluene | BQL | 0.00477 | 0.00102 | 1 | 5/6/2008 | |
| Methylene chloride | BQL | 0.0191 | 0.00113 | 1 | 5/6/2008 | |
| 4-Methyl-2-pentanone | BQL | 0.00477 | 0.00442 | 1 | 5/6/2008 | |
| Methyl-tert-butyl ether (MTBE) | BQL | 0.00477 | 0.00106 | 1 | 5/6/2008 | |
| Naphthalene | BQL | 0.00477 | 0.00081 | 1 | 5/6/2008 | |
| n-Propyl benzene | BQL | 0.00477 | 0.00120 | 1 | 5/6/2008 | |
| Styrene | BQL | 0.00477 | 0.00105 | 1 | 5/6/2008 | |
| 1,1,1,2-Tetrachloroethane | BQL | 0.00477 | 0.00097 | 1 | 5/6/2008 | |
| 1,1,2,2-Tetrachloroethane | BQL | 0.00477 | 0.00108 | 1 | 5/6/2008 | |
| Tetrachloroethene | BQL | 0.00477 | 0.00087 | 1 | 5/6/2008 | |
| Toluene | BQL | 0.00477 | 0.00095 | 1 | 5/6/2008 | |
| 1,2,3-Trichlorobenzene | BQL | 0.00477 | 0.00099 | 1 | 5/6/2008 | |
| 1,2,4-Trichlorobenzene | BQL | 0.00477 | 0.00098 | 1 | 5/6/2008 | |
| Trichloroethene | BQL | 0.00477 | 0.00091 | 1 | 5/6/2008 | |
| 1,1,1-Trichloroethane | BQL | 0.00477 | 0.00108 | 1 | 5/6/2008 | |
| 1,1,2-Trichloroethane | BQL | 0.00477 | 0.00156 | 1 | 5/6/2008 | |
| Trichlorofluoromethane | BQL | 0.00477 | 0.00098 | 1 | 5/6/2008 | |
| 1,2,3-Trichloropropane | BQL | 0.00477 | 0.00118 | 1 | 5/6/2008 | |
| 1,2,4-Trimethylbenzene | BQL | 0.00477 | 0.00120 | 1 | 5/6/2008 | |
| 1,3,5-Trimethylbenzene | BQL | 0.00477 | 0.00109 | 1 | 5/6/2008 | |
| Vinyl chloride | BQL | 0.00477 | 0.00130 | 1 | 5/6/2008 | |
| m-,p-Xylene | BQL | 0.00954 | 0.00183 | 1 | 5/6/2008 | |
| o-Xylene | BQL | 0.00477 | 0.00092 | 1 | 5/6/2008 | |

| | Spike Added | Spike Result | Percent Recovered |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 0.05 | 0.0654 | 131 |
| Toluene-d8 | 0.05 | 0.0502 | 100 |
| 4-Bromofluorobenzene | 0.05 | 0.0432 | 86 |

**Comments:**

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

Analyst: _____

Reviewed By: _____

SGS ENVIRONMENTAL SERVICES, INC.

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

Client Sample ID: DPT-09
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID G128-2183-9B
Lab Project ID: G128-2183
Report Basis: Dry Weight

Analyzed By: MJC
Date Collected: 04-30-2008 12:55
Date Received: 5/1/2008
Matrix: Soil
Sample Amount: 5.07 g
%Solids: 94.7

| Report Name<br>Compound | Result<br>MG/KG | Quantitation<br>Limit MG/KG | MDL<br>MG/KG | Dilution<br>Factor | Date<br>Analyzed | Flag |
|---|---|---|---|---|---|---|
| Acetone | **0.0364** | 0.0520 | 0.00718 | 1 | 5/7/2008 | J |
| Benzene | BQL | 0.00520 | 0.00111 | 1 | 5/7/2008 | |
| Bromobenzene | BQL | 0.00520 | 0.00107 | 1 | 5/7/2008 | |
| Bromochloromethane | BQL | 0.00520 | 0.00179 | 1 | 5/7/2008 | |
| Bromodichloromethane | BQL | 0.00520 | 0.00103 | 1 | 5/7/2008 | |
| Bromoform | BQL | 0.00520 | 0.00104 | 1 | 5/7/2008 | |
| Bromomethane | BQL | 0.00520 | 0.00109 | 1 | 5/7/2008 | |
| 2-Butanone | BQL | 0.0260 | 0.00565 | 1 | 5/7/2008 | |
| n-Butylbenzene | BQL | 0.00520 | 0.00099 | 1 | 5/7/2008 | |
| sec-Butylbenzene | BQL | 0.00520 | 0.00105 | 1 | 5/7/2008 | |
| tert-Butylbenzene | BQL | 0.00520 | 0.00116 | 1 | 5/7/2008 | |
| Carbon disulfide | BQL | 0.00520 | 0.00279 | 1 | 5/7/2008 | |
| Carbon tetrachloride | BQL | 0.00520 | 0.00106 | 1 | 5/7/2008 | |
| Chlorobenzene | BQL | 0.00520 | 0.00124 | 1 | 5/7/2008 | |
| Chloroethane | BQL | 0.00520 | 0.00165 | 1 | 5/7/2008 | |
| Chloroform | BQL | 0.00520 | 0.00125 | 1 | 5/7/2008 | |
| Chloromethane | BQL | 0.00520 | 0.00117 | 1 | 5/7/2008 | |
| 2-Chlorotoluene | BQL | 0.00520 | 0.00105 | 1 | 5/7/2008 | |
| 4-Chlorotoluene | BQL | 0.00520 | 0.00130 | 1 | 5/7/2008 | |
| Dibromochloromethane | BQL | 0.00520 | 0.00143 | 1 | 5/7/2008 | |
| 1,2-Dibromo-3-chloropropane | BQL | 0.0260 | 0.00151 | 1 | 5/7/2008 | |
| Dibromomethane | BQL | 0.00520 | 0.00157 | 1 | 5/7/2008 | |
| 1,2-Dibromoethane (EDB) | BQL | 0.00520 | 0.00117 | 1 | 5/7/2008 | |
| 1,2-Dichlorobenzene | BQL | 0.00520 | 0.00134 | 1 | 5/7/2008 | |
| 1,3-Dichlorobenzene | BQL | 0.00520 | 0.00133 | 1 | 5/7/2008 | |
| 1,4-Dichlorobenzene | BQL | 0.00520 | 0.00109 | 1 | 5/7/2008 | |
| trans-1,4-Dichloro-2-butene | BQL | 0.0260 | 0.00143 | 1 | 5/7/2008 | |
| 1,1-Dichloroethane | BQL | 0.00520 | 0.00110 | 1 | 5/7/2008 | |
| 1,1-Dichloroethene | BQL | 0.00520 | 0.00154 | 1 | 5/7/2008 | |
| 1,2-Dichloroethane | BQL | 0.00520 | 0.00137 | 1 | 5/7/2008 | |
| cis-1,2-Dichloroethene | BQL | 0.00520 | 0.00133 | 1 | 5/7/2008 | |
| trans-1,2-dichloroethene | BQL | 0.00520 | 0.00117 | 1 | 5/7/2008 | |
| 1,2-Dichloropropane | BQL | 0.00520 | 0.00123 | 1 | 5/7/2008 | |
| 1,3-Dichloropropane | BQL | 0.00520 | 0.00116 | 1 | 5/7/2008 | |
| 2,2-Dichloropropane | BQL | 0.00520 | 0.00125 | 1 | 5/7/2008 | |
| 1,1-Dichloropropene | BQL | 0.00520 | 0.00163 | 1 | 5/7/2008 | |
| cis-1,3-Dichloropropene | BQL | 0.00520 | 0.00087 | 1 | 5/7/2008 | |
| trans-1,3-Dichloropropene | BQL | 0.00520 | 0.00100 | 1 | 5/7/2008 | |
| Dichlorodifluoromethane | BQL | 0.00520 | 0.00137 | 1 | 5/7/2008 | |
| Diisopropyl ether (DIPE) | BQL | 0.00520 | 0.00117 | 1 | 5/7/2008 | |
| Ethylbenzene | BQL | 0.00520 | 0.00090 | 1 | 5/7/2008 | |
| Hexachlorobutadiene | BQL | 0.00520 | 0.00101 | 1 | 5/7/2008 | |
| 2-Hexanone | BQL | 0.00520 | 0.00337 | 1 | 5/7/2008 | |
| Iodomethane | BQL | 0.00520 | 0.00112 | 1 | 5/7/2008 | |

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

Client Sample ID: DPT-09
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID G128-2183-9B
Lab Project ID: G128-2183
Report Basis: Dry Weight

Analyzed By: MJC
Date Collected: 04-30-2008 12:55
Date Received: 5/1/2008
Matrix: Soil
Sample Amount: 5.07 g
%Solids: 94.7

| Report Name<br>Compound | Result<br>MG/KG | Quantitation<br>Limit MG/KG | MDL<br>MG/KG | Dilution<br>Factor | Date<br>Analyzed | Flag |
|---|---|---|---|---|---|---|
| Isopropylbenzene | BQL | 0.00520 | 0.00092 | 1 | 5/7/2008 | |
| 4-Isopropyltoluene | BQL | 0.00520 | 0.00111 | 1 | 5/7/2008 | |
| Methylene chloride | BQL | 0.0208 | 0.00124 | 1 | 5/7/2008 | |
| 4-Methyl-2-pentanone | BQL | 0.00520 | 0.00481 | 1 | 5/7/2008 | |
| Methyl-tert-butyl ether (MTBE) | BQL | 0.00520 | 0.00115 | 1 | 5/7/2008 | |
| Naphthalene | BQL | 0.00520 | 0.00088 | 1 | 5/7/2008 | |
| n-Propyl benzene | BQL | 0.00520 | 0.00131 | 1 | 5/7/2008 | |
| Styrene | BQL | 0.00520 | 0.00114 | 1 | 5/7/2008 | |
| 1,1,1,2-Tetrachloroethane | BQL | 0.00520 | 0.00106 | 1 | 5/7/2008 | |
| 1,1,2,2-Tetrachloroethane | BQL | 0.00520 | 0.00117 | 1 | 5/7/2008 | |
| Tetrachloroethene | BQL | 0.00520 | 0.00095 | 1 | 5/7/2008 | |
| Toluene | BQL | 0.00520 | 0.00104 | 1 | 5/7/2008 | |
| 1,2,3-Trichlorobenzene | BQL | 0.00520 | 0.00108 | 1 | 5/7/2008 | |
| 1,2,4-Trichlorobenzene | BQL | 0.00520 | 0.00107 | 1 | 5/7/2008 | |
| Trichloroethene | BQL | 0.00520 | 0.00099 | 1 | 5/7/2008 | |
| 1,1,1-Trichloroethane | BQL | 0.00520 | 0.00117 | 1 | 5/7/2008 | |
| 1,1,2-Trichloroethane | BQL | 0.00520 | 0.00171 | 1 | 5/7/2008 | |
| Trichlorofluoromethane | BQL | 0.00520 | 0.00107 | 1 | 5/7/2008 | |
| 1,2,3-Trichloropropane | BQL | 0.00520 | 0.00129 | 1 | 5/7/2008 | |
| 1,2,4-Trimethylbenzene | BQL | 0.00520 | 0.00131 | 1 | 5/7/2008 | |
| 1,3,5-Trimethylbenzene | BQL | 0.00520 | 0.00119 | 1 | 5/7/2008 | |
| Vinyl chloride | BQL | 0.00520 | 0.00141 | 1 | 5/7/2008 | |
| m-,p-Xylene | BQL | 0.0104 | 0.00200 | 1 | 5/7/2008 | |
| o-Xylene | BQL | 0.00520 | 0.00101 | 1 | 5/7/2008 | |

| | Spike Added | Spike Result | Percent Recovered |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 0.05 | 0.0613 | 123 |
| Toluene-d8 | 0.05 | 0.0492 | 98 |
| 4-Bromofluorobenzene | 0.05 | 0.0438 | 88 |

**Comments:**

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

Analyst: _____

Reviewed By: _____

SGS ENVIRONMENTAL SERVICES, INC.

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

Client Sample ID: DPT-10
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID G128-2183-10A
Lab Project ID: G128-2183
Report Basis: Dry Weight

Analyzed By: MJC
Date Collected: 04-30-2008 13:05
Date Received: 5/1/2008
Matrix: Soil
Sample Amount: 5.28 g
%Solids: 95.9

| Report Name<br>Compound | Result<br>MG/KG | Quantitation<br>Limit MG/KG | MDL<br>MG/KG | Dilution<br>Factor | Date<br>Analyzed | Flag |
|---|---|---|---|---|---|---|
| Acetone | **0.0207** | 0.0493 | 0.00681 | 1 | 5/6/2008 | J |
| Benzene | BQL | 0.00493 | 0.00106 | 1 | 5/6/2008 | |
| Bromobenzene | BQL | 0.00493 | 0.00102 | 1 | 5/6/2008 | |
| Bromochloromethane | BQL | 0.00493 | 0.00170 | 1 | 5/6/2008 | |
| Bromodichloromethane | BQL | 0.00493 | 0.00098 | 1 | 5/6/2008 | |
| Bromoform | BQL | 0.00493 | 0.00099 | 1 | 5/6/2008 | |
| Bromomethane | BQL | 0.00493 | 0.00104 | 1 | 5/6/2008 | |
| 2-Butanone | BQL | 0.0246 | 0.00535 | 1 | 5/6/2008 | |
| n-Butylbenzene | BQL | 0.00493 | 0.00094 | 1 | 5/6/2008 | |
| sec-Butylbenzene | BQL | 0.00493 | 0.00100 | 1 | 5/6/2008 | |
| tert-Butylbenzene | BQL | 0.00493 | 0.00110 | 1 | 5/6/2008 | |
| Carbon disulfide | BQL | 0.00493 | 0.00264 | 1 | 5/6/2008 | |
| Carbon tetrachloride | BQL | 0.00493 | 0.00101 | 1 | 5/6/2008 | |
| Chlorobenzene | BQL | 0.00493 | 0.00117 | 1 | 5/6/2008 | |
| Chloroethane | BQL | 0.00493 | 0.00157 | 1 | 5/6/2008 | |
| Chloroform | BQL | 0.00493 | 0.00118 | 1 | 5/6/2008 | |
| Chloromethane | BQL | 0.00493 | 0.00111 | 1 | 5/6/2008 | |
| 2-Chlorotoluene | BQL | 0.00493 | 0.00100 | 1 | 5/6/2008 | |
| 4-Chlorotoluene | BQL | 0.00493 | 0.00123 | 1 | 5/6/2008 | |
| Dibromochloromethane | BQL | 0.00493 | 0.00136 | 1 | 5/6/2008 | |
| 1,2-Dibromo-3-chloropropane | BQL | 0.0246 | 0.00143 | 1 | 5/6/2008 | |
| Dibromomethane | BQL | 0.00493 | 0.00149 | 1 | 5/6/2008 | |
| 1,2-Dibromoethane (EDB) | BQL | 0.00493 | 0.00111 | 1 | 5/6/2008 | |
| 1,2-Dichlorobenzene | BQL | 0.00493 | 0.00127 | 1 | 5/6/2008 | |
| 1,3-Dichlorobenzene | BQL | 0.00493 | 0.00126 | 1 | 5/6/2008 | |
| 1,4-Dichlorobenzene | BQL | 0.00493 | 0.00104 | 1 | 5/6/2008 | |
| trans-1,4-Dichloro-2-butene | BQL | 0.0246 | 0.00136 | 1 | 5/6/2008 | |
| 1,1-Dichloroethane | BQL | 0.00493 | 0.00105 | 1 | 5/6/2008 | |
| 1,1-Dichloroethene | BQL | 0.00493 | 0.00146 | 1 | 5/6/2008 | |
| 1,2-Dichloroethane | BQL | 0.00493 | 0.00130 | 1 | 5/6/2008 | |
| cis-1,2-Dichloroethene | BQL | 0.00493 | 0.00126 | 1 | 5/6/2008 | |
| trans-1,2-dichloroethene | BQL | 0.00493 | 0.00111 | 1 | 5/6/2008 | |
| 1,2-Dichloropropane | BQL | 0.00493 | 0.00116 | 1 | 5/6/2008 | |
| 1,3-Dichloropropane | BQL | 0.00493 | 0.00110 | 1 | 5/6/2008 | |
| 2,2-Dichloropropane | BQL | 0.00493 | 0.00118 | 1 | 5/6/2008 | |
| 1,1-Dichloropropene | BQL | 0.00493 | 0.00155 | 1 | 5/6/2008 | |
| cis-1,3-Dichloropropene | BQL | 0.00493 | 0.00082 | 1 | 5/6/2008 | |
| trans-1,3-Dichloropropene | BQL | 0.00493 | 0.00095 | 1 | 5/6/2008 | |
| Dichlorodifluoromethane | BQL | 0.00493 | 0.00130 | 1 | 5/6/2008 | |
| Diisopropyl ether (DIPE) | BQL | 0.00493 | 0.00111 | 1 | 5/6/2008 | |
| Ethylbenzene | BQL | 0.00493 | 0.00085 | 1 | 5/6/2008 | |
| Hexachlorobutadiene | BQL | 0.00493 | 0.00096 | 1 | 5/6/2008 | |
| 2-Hexanone | BQL | 0.00493 | 0.00319 | 1 | 5/6/2008 | |
| Iodomethane | BQL | 0.00493 | 0.00106 | 1 | 5/6/2008 | |

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

Client Sample ID: DPT-10
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID G128-2183-10A
Lab Project ID: G128-2183
Report Basis: Dry Weight

Analyzed By: MJC
Date Collected: 04-30-2008 13:05
Date Received: 5/1/2008
Matrix: Soil
Sample Amount: 5.28 g
%Solids: 95.9

| Report Name<br>Compound | Result<br>MG/KG | Quantitation<br>Limit MG/KG | MDL<br>MG/KG | Dilution<br>Factor | Date<br>Analyzed | Flag |
|---|---|---|---|---|---|---|
| Isopropylbenzene | BQL | 0.00493 | 0.00088 | 1 | 5/6/2008 | |
| 4-Isopropyltoluene | BQL | 0.00493 | 0.00106 | 1 | 5/6/2008 | |
| Methylene chloride | **0.00218** | 0.0197 | 0.00117 | 1 | 5/6/2008 | J |
| 4-Methyl-2-pentanone | BQL | 0.00493 | 0.00457 | 1 | 5/6/2008 | |
| Methyl-tert-butyl ether (MTBE) | BQL | 0.00493 | 0.00109 | 1 | 5/6/2008 | |
| Naphthalene | BQL | 0.00493 | 0.00084 | 1 | 5/6/2008 | |
| n-Propyl benzene | BQL | 0.00493 | 0.00124 | 1 | 5/6/2008 | |
| Styrene | BQL | 0.00493 | 0.00108 | 1 | 5/6/2008 | |
| 1,1,1,2-Tetrachloroethane | BQL | 0.00493 | 0.00101 | 1 | 5/6/2008 | |
| 1,1,2,2-Tetrachloroethane | BQL | 0.00493 | 0.00111 | 1 | 5/6/2008 | |
| Tetrachloroethene | BQL | 0.00493 | 0.00090 | 1 | 5/6/2008 | |
| Toluene | BQL | 0.00493 | 0.00098 | 1 | 5/6/2008 | |
| 1,2,3-Trichlorobenzene | BQL | 0.00493 | 0.00103 | 1 | 5/6/2008 | |
| 1,2,4-Trichlorobenzene | BQL | 0.00493 | 0.00102 | 1 | 5/6/2008 | |
| Trichloroethene | BQL | 0.00493 | 0.00094 | 1 | 5/6/2008 | |
| 1,1,1-Trichloroethane | BQL | 0.00493 | 0.00111 | 1 | 5/6/2008 | |
| 1,1,2-Trichloroethane | BQL | 0.00493 | 0.00162 | 1 | 5/6/2008 | |
| Trichlorofluoromethane | BQL | 0.00493 | 0.00102 | 1 | 5/6/2008 | |
| 1,2,3-Trichloropropane | BQL | 0.00493 | 0.00122 | 1 | 5/6/2008 | |
| 1,2,4-Trimethylbenzene | BQL | 0.00493 | 0.00124 | 1 | 5/6/2008 | |
| 1,3,5-Trimethylbenzene | BQL | 0.00493 | 0.00112 | 1 | 5/6/2008 | |
| Vinyl chloride | BQL | 0.00493 | 0.00134 | 1 | 5/6/2008 | |
| m-,p-Xylene | BQL | 0.00986 | 0.00189 | 1 | 5/6/2008 | |
| o-Xylene | BQL | 0.00493 | 0.00096 | 1 | 5/6/2008 | |

| | Spike Added | Spike Result | Percent Recovered |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 0.05 | 0.0643 | 129 |
| Toluene-d8 | 0.05 | 0.0478 | 96 |
| 4-Bromofluorobenzene | 0.05 | 0.031 | 62 |

**Comments:**

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

Analyst: _____

Reviewed By: _____

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

Client Sample ID: DPT-11
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID G128-2183-11A
Lab Project ID: G128-2183
Report Basis: Dry Weight

Analyzed By: MJC
Date Collected: 04-30-2008 13:15
Date Received: 5/1/2008
Matrix: Soil
Sample Amount: 5.30 g
%Solids: 97.4

| Report Name<br>Compound | Result<br>MG/KG | Quantitation<br>Limit MG/KG | MDL<br>MG/KG | Dilution<br>Factor | Date<br>Analyzed | Flag |
|---|---|---|---|---|---|---|
| Acetone | **0.0190** | 0.0483 | 0.00668 | 1 | 5/7/2008 | J |
| Benzene | BQL | 0.00483 | 0.00103 | 1 | 5/7/2008 | |
| Bromobenzene | BQL | 0.00483 | 0.00100 | 1 | 5/7/2008 | |
| Bromochloromethane | BQL | 0.00483 | 0.00166 | 1 | 5/7/2008 | |
| Bromodichloromethane | BQL | 0.00483 | 0.00096 | 1 | 5/7/2008 | |
| Bromoform | BQL | 0.00483 | 0.00097 | 1 | 5/7/2008 | |
| Bromomethane | BQL | 0.00483 | 0.00101 | 1 | 5/7/2008 | |
| 2-Butanone | BQL | 0.0242 | 0.00525 | 1 | 5/7/2008 | |
| n-Butylbenzene | BQL | 0.00483 | 0.00092 | 1 | 5/7/2008 | |
| sec-Butylbenzene | BQL | 0.00483 | 0.00098 | 1 | 5/7/2008 | |
| tert-Butylbenzene | BQL | 0.00483 | 0.00108 | 1 | 5/7/2008 | |
| Carbon disulfide | BQL | 0.00483 | 0.00259 | 1 | 5/7/2008 | |
| Carbon tetrachloride | BQL | 0.00483 | 0.00099 | 1 | 5/7/2008 | |
| Chlorobenzene | BQL | 0.00483 | 0.00115 | 1 | 5/7/2008 | |
| Chloroethane | BQL | 0.00483 | 0.00154 | 1 | 5/7/2008 | |
| Chloroform | BQL | 0.00483 | 0.00116 | 1 | 5/7/2008 | |
| Chloromethane | BQL | 0.00483 | 0.00109 | 1 | 5/7/2008 | |
| 2-Chlorotoluene | BQL | 0.00483 | 0.00098 | 1 | 5/7/2008 | |
| 4-Chlorotoluene | BQL | 0.00483 | 0.00121 | 1 | 5/7/2008 | |
| Dibromochloromethane | BQL | 0.00483 | 0.00133 | 1 | 5/7/2008 | |
| 1,2-Dibromo-3-chloropropane | BQL | 0.0242 | 0.00140 | 1 | 5/7/2008 | |
| Dibromomethane | BQL | 0.00483 | 0.00146 | 1 | 5/7/2008 | |
| 1,2-Dibromoethane (EDB) | BQL | 0.00483 | 0.00109 | 1 | 5/7/2008 | |
| 1,2-Dichlorobenzene | BQL | 0.00483 | 0.00125 | 1 | 5/7/2008 | |
| 1,3-Dichlorobenzene | BQL | 0.00483 | 0.00124 | 1 | 5/7/2008 | |
| 1,4-Dichlorobenzene | BQL | 0.00483 | 0.00101 | 1 | 5/7/2008 | |
| trans-1,4-Dichloro-2-butene | BQL | 0.0242 | 0.00133 | 1 | 5/7/2008 | |
| 1,1-Dichloroethane | BQL | 0.00483 | 0.00102 | 1 | 5/7/2008 | |
| 1,1-Dichloroethene | BQL | 0.00483 | 0.00143 | 1 | 5/7/2008 | |
| 1,2-Dichloroethane | BQL | 0.00483 | 0.00128 | 1 | 5/7/2008 | |
| cis-1,2-Dichloroethene | BQL | 0.00483 | 0.00124 | 1 | 5/7/2008 | |
| trans-1,2-dichloroethene | BQL | 0.00483 | 0.00109 | 1 | 5/7/2008 | |
| 1,2-Dichloropropane | BQL | 0.00483 | 0.00114 | 1 | 5/7/2008 | |
| 1,3-Dichloropropane | BQL | 0.00483 | 0.00108 | 1 | 5/7/2008 | |
| 2,2-Dichloropropane | BQL | 0.00483 | 0.00116 | 1 | 5/7/2008 | |
| 1,1-Dichloropropene | BQL | 0.00483 | 0.00152 | 1 | 5/7/2008 | |
| cis-1,3-Dichloropropene | BQL | 0.00483 | 0.00081 | 1 | 5/7/2008 | |
| trans-1,3-Dichloropropene | BQL | 0.00483 | 0.00093 | 1 | 5/7/2008 | |
| Dichlorodifluoromethane | BQL | 0.00483 | 0.00128 | 1 | 5/7/2008 | |
| Diisopropyl ether (DIPE) | BQL | 0.00483 | 0.00109 | 1 | 5/7/2008 | |
| Ethylbenzene | BQL | 0.00483 | 0.00084 | 1 | 5/7/2008 | |
| Hexachlorobutadiene | BQL | 0.00483 | 0.00094 | 1 | 5/7/2008 | |
| 2-Hexanone | BQL | 0.00483 | 0.00313 | 1 | 5/7/2008 | |
| Iodomethane | BQL | 0.00483 | 0.00104 | 1 | 5/7/2008 | |

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

Client Sample ID: DPT-11
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID G128-2183-11A
Lab Project ID: G128-2183
Report Basis: Dry Weight

Analyzed By: MJC
Date Collected: 04-30-2008 13:15
Date Received: 5/1/2008
Matrix: Soil
Sample Amount: 5.30 g
%Solids: 97.4

| Report Name<br>Compound | Result<br>MG/KG | Quantitation<br>Limit MG/KG | MDL<br>MG/KG | Dilution<br>Factor | Date<br>Analyzed | Flag |
|---|---|---|---|---|---|---|
| Isopropylbenzene | BQL | 0.00483 | 0.00086 | 1 | 5/7/2008 | |
| 4-Isopropyltoluene | BQL | 0.00483 | 0.00103 | 1 | 5/7/2008 | |
| Methylene chloride | **0.00260** | 0.0193 | 0.00115 | 1 | 5/7/2008 | J |
| 4-Methyl-2-pentanone | BQL | 0.00483 | 0.00448 | 1 | 5/7/2008 | |
| Methyl-tert-butyl ether (MTBE) | BQL | 0.00483 | 0.00107 | 1 | 5/7/2008 | |
| Naphthalene | BQL | 0.00483 | 0.00082 | 1 | 5/7/2008 | |
| n-Propyl benzene | BQL | 0.00483 | 0.00122 | 1 | 5/7/2008 | |
| Styrene | BQL | 0.00483 | 0.00106 | 1 | 5/7/2008 | |
| 1,1,1,2-Tetrachloroethane | BQL | 0.00483 | 0.00099 | 1 | 5/7/2008 | |
| 1,1,2,2-Tetrachloroethane | BQL | 0.00483 | 0.00109 | 1 | 5/7/2008 | |
| Tetrachloroethene | BQL | 0.00483 | 0.00089 | 1 | 5/7/2008 | |
| Toluene | BQL | 0.00483 | 0.00096 | 1 | 5/7/2008 | |
| 1,2,3-Trichlorobenzene | BQL | 0.00483 | 0.00101 | 1 | 5/7/2008 | |
| 1,2,4-Trichlorobenzene | BQL | 0.00483 | 0.00100 | 1 | 5/7/2008 | |
| Trichloroethene | BQL | 0.00483 | 0.00092 | 1 | 5/7/2008 | |
| 1,1,1-Trichloroethane | BQL | 0.00483 | 0.00109 | 1 | 5/7/2008 | |
| 1,1,2-Trichloroethane | BQL | 0.00483 | 0.00159 | 1 | 5/7/2008 | |
| Trichlorofluoromethane | BQL | 0.00483 | 0.00100 | 1 | 5/7/2008 | |
| 1,2,3-Trichloropropane | BQL | 0.00483 | 0.00120 | 1 | 5/7/2008 | |
| 1,2,4-Trimethylbenzene | BQL | 0.00483 | 0.00122 | 1 | 5/7/2008 | |
| 1,3,5-Trimethylbenzene | BQL | 0.00483 | 0.00110 | 1 | 5/7/2008 | |
| Vinyl chloride | BQL | 0.00483 | 0.00131 | 1 | 5/7/2008 | |
| m-,p-Xylene | BQL | 0.00967 | 0.00186 | 1 | 5/7/2008 | |
| o-Xylene | BQL | 0.00483 | 0.00094 | 1 | 5/7/2008 | |

| | Spike Added | Spike Result | Percent Recovered |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 0.05 | 0.0646 | 129 |
| Toluene-d8 | 0.05 | 0.046 | 92 |
| 4-Bromofluorobenzene | 0.05 | 0.0279 | 56 |

**Comments:**

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

Analyst: _____

Reviewed By: _____

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

Client Sample ID: DPT-13
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID G128-2183-13A
Lab Project ID: G128-2183
Report Basis: Dry Weight

Analyzed By: MJC
Date Collected: 04-30-2008 14:00
Date Received: 5/1/2008
Matrix: Soil
Sample Amount: 5.03 g
%Solids: 97.6

| Report Name<br>Compound | Result<br>MG/KG | Quantitation<br>Limit MG/KG | MDL<br>MG/KG | Dilution<br>Factor | Date<br>Analyzed | Flag |
|---|---|---|---|---|---|---|
| Acetone | **0.0165** | 0.0509 | 0.00704 | 1 | 5/7/2008 | J |
| Benzene | BQL | 0.00509 | 0.00109 | 1 | 5/7/2008 | |
| Bromobenzene | BQL | 0.00509 | 0.00105 | 1 | 5/7/2008 | |
| Bromochloromethane | BQL | 0.00509 | 0.00175 | 1 | 5/7/2008 | |
| Bromodichloromethane | BQL | 0.00509 | 0.00101 | 1 | 5/7/2008 | |
| Bromoform | BQL | 0.00509 | 0.00102 | 1 | 5/7/2008 | |
| Bromomethane | BQL | 0.00509 | 0.00107 | 1 | 5/7/2008 | |
| 2-Butanone | BQL | 0.0255 | 0.00553 | 1 | 5/7/2008 | |
| n-Butylbenzene | BQL | 0.00509 | 0.00097 | 1 | 5/7/2008 | |
| sec-Butylbenzene | BQL | 0.00509 | 0.00103 | 1 | 5/7/2008 | |
| tert-Butylbenzene | BQL | 0.00509 | 0.00114 | 1 | 5/7/2008 | |
| Carbon disulfide | BQL | 0.00509 | 0.00273 | 1 | 5/7/2008 | |
| Carbon tetrachloride | BQL | 0.00509 | 0.00104 | 1 | 5/7/2008 | |
| Chlorobenzene | BQL | 0.00509 | 0.00121 | 1 | 5/7/2008 | |
| Chloroethane | BQL | 0.00509 | 0.00162 | 1 | 5/7/2008 | |
| Chloroform | BQL | 0.00509 | 0.00122 | 1 | 5/7/2008 | |
| Chloromethane | BQL | 0.00509 | 0.00115 | 1 | 5/7/2008 | |
| 2-Chlorotoluene | BQL | 0.00509 | 0.00103 | 1 | 5/7/2008 | |
| 4-Chlorotoluene | BQL | 0.00509 | 0.00127 | 1 | 5/7/2008 | |
| Dibromochloromethane | BQL | 0.00509 | 0.00141 | 1 | 5/7/2008 | |
| 1,2-Dibromo-3-chloropropane | BQL | 0.0255 | 0.00148 | 1 | 5/7/2008 | |
| Dibromomethane | BQL | 0.00509 | 0.00154 | 1 | 5/7/2008 | |
| 1,2-Dibromoethane (EDB) | BQL | 0.00509 | 0.00115 | 1 | 5/7/2008 | |
| 1,2-Dichlorobenzene | BQL | 0.00509 | 0.00131 | 1 | 5/7/2008 | |
| 1,3-Dichlorobenzene | BQL | 0.00509 | 0.00130 | 1 | 5/7/2008 | |
| 1,4-Dichlorobenzene | BQL | 0.00509 | 0.00107 | 1 | 5/7/2008 | |
| trans-1,4-Dichloro-2-butene | BQL | 0.0255 | 0.00141 | 1 | 5/7/2008 | |
| 1,1-Dichloroethane | BQL | 0.00509 | 0.00108 | 1 | 5/7/2008 | |
| 1,1-Dichloroethene | BQL | 0.00509 | 0.00151 | 1 | 5/7/2008 | |
| 1,2-Dichloroethane | BQL | 0.00509 | 0.00134 | 1 | 5/7/2008 | |
| cis-1,2-Dichloroethene | BQL | 0.00509 | 0.00130 | 1 | 5/7/2008 | |
| trans-1,2-dichloroethene | BQL | 0.00509 | 0.00115 | 1 | 5/7/2008 | |
| 1,2-Dichloropropane | BQL | 0.00509 | 0.00120 | 1 | 5/7/2008 | |
| 1,3-Dichloropropane | BQL | 0.00509 | 0.00114 | 1 | 5/7/2008 | |
| 2,2-Dichloropropane | BQL | 0.00509 | 0.00122 | 1 | 5/7/2008 | |
| 1,1-Dichloropropene | BQL | 0.00509 | 0.00160 | 1 | 5/7/2008 | |
| cis-1,3-Dichloropropene | BQL | 0.00509 | 0.00085 | 1 | 5/7/2008 | |
| trans-1,3-Dichloropropene | BQL | 0.00509 | 0.00098 | 1 | 5/7/2008 | |
| Dichlorodifluoromethane | BQL | 0.00509 | 0.00134 | 1 | 5/7/2008 | |
| Diisopropyl ether (DIPE) | BQL | 0.00509 | 0.00115 | 1 | 5/7/2008 | |
| Ethylbenzene | BQL | 0.00509 | 0.00088 | 1 | 5/7/2008 | |
| Hexachlorobutadiene | BQL | 0.00509 | 0.00099 | 1 | 5/7/2008 | |
| 2-Hexanone | BQL | 0.00509 | 0.00330 | 1 | 5/7/2008 | |
| Iodomethane | BQL | 0.00509 | 0.00110 | 1 | 5/7/2008 | |

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

Client Sample ID: DPT-13
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID G128-2183-13A
Lab Project ID: G128-2183
Report Basis: Dry Weight

Analyzed By: MJC
Date Collected: 04-30-2008 14:00
Date Received: 5/1/2008
Matrix: Soil
Sample Amount: 5.03 g
%Solids: 97.6

| Report Name<br>Compound | Result<br>MG/KG | Quantitation<br>Limit MG/KG | MDL<br>MG/KG | Dilution<br>Factor | Date<br>Analyzed | Flag |
|---|---|---|---|---|---|---|
| Isopropylbenzene | BQL | 0.00509 | 0.00090 | 1 | 5/7/2008 | |
| 4-Isopropyltoluene | BQL | 0.00509 | 0.00109 | 1 | 5/7/2008 | |
| Methylene chloride | **0.00153** | 0.0204 | 0.00121 | 1 | 5/7/2008 | J |
| 4-Methyl-2-pentanone | BQL | 0.00509 | 0.00472 | 1 | 5/7/2008 | |
| Methyl-tert-butyl ether (MTBE) | BQL | 0.00509 | 0.00113 | 1 | 5/7/2008 | |
| Naphthalene | BQL | 0.00509 | 0.00087 | 1 | 5/7/2008 | |
| n-Propyl benzene | BQL | 0.00509 | 0.00128 | 1 | 5/7/2008 | |
| Styrene | BQL | 0.00509 | 0.00112 | 1 | 5/7/2008 | |
| 1,1,1,2-Tetrachloroethane | BQL | 0.00509 | 0.00104 | 1 | 5/7/2008 | |
| 1,1,2,2-Tetrachloroethane | BQL | 0.00509 | 0.00115 | 1 | 5/7/2008 | |
| Tetrachloroethene | BQL | 0.00509 | 0.00093 | 1 | 5/7/2008 | |
| Toluene | BQL | 0.00509 | 0.00102 | 1 | 5/7/2008 | |
| 1,2,3-Trichlorobenzene | BQL | 0.00509 | 0.00106 | 1 | 5/7/2008 | |
| 1,2,4-Trichlorobenzene | BQL | 0.00509 | 0.00105 | 1 | 5/7/2008 | |
| Trichloroethene | BQL | 0.00509 | 0.00097 | 1 | 5/7/2008 | |
| 1,1,1-Trichloroethane | BQL | 0.00509 | 0.00115 | 1 | 5/7/2008 | |
| 1,1,2-Trichloroethane | BQL | 0.00509 | 0.00167 | 1 | 5/7/2008 | |
| Trichlorofluoromethane | BQL | 0.00509 | 0.00105 | 1 | 5/7/2008 | |
| 1,2,3-Trichloropropane | BQL | 0.00509 | 0.00126 | 1 | 5/7/2008 | |
| 1,2,4-Trimethylbenzene | BQL | 0.00509 | 0.00128 | 1 | 5/7/2008 | |
| 1,3,5-Trimethylbenzene | BQL | 0.00509 | 0.00116 | 1 | 5/7/2008 | |
| Vinyl chloride | BQL | 0.00509 | 0.00138 | 1 | 5/7/2008 | |
| m-,p-Xylene | BQL | 0.0102 | 0.00196 | 1 | 5/7/2008 | |
| o-Xylene | BQL | 0.00509 | 0.00099 | 1 | 5/7/2008 | |

| | Spike Added | Spike Result | Percent Recovered |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 0.05 | 0.0602 | 120 |
| Toluene-d8 | 0.05 | 0.0494 | 99 |
| 4-Bromofluorobenzene | 0.05 | 0.0458 | 92 |

**Comments:**

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

Analyst: _____

Reviewed By: _____

SGS ENVIRONMENTAL SERVICES, INC.

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

Client Sample ID: DPT-14
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID G128-2183-14A
Lab Project ID: G128-2183
Report Basis: Dry Weight

Analyzed By: MJC
Date Collected: 04-30-2008 14:20
Date Received: 5/1/2008
Matrix: Soil
Sample Amount: 5.07 g
%Solids: 95.7

| Report Name<br>Compound | Result<br>MG/KG | Quantitation<br>Limit MG/KG | MDL<br>MG/KG | Dilution<br>Factor | Date<br>Analyzed | Flag |
|---|---|---|---|---|---|---|
| Acetone | **0.0248** | 0.0515 | 0.00712 | 1 | 5/7/2008 | J |
| Benzene | BQL | 0.00515 | 0.00110 | 1 | 5/7/2008 | |
| Bromobenzene | BQL | 0.00515 | 0.00106 | 1 | 5/7/2008 | |
| Bromochloromethane | BQL | 0.00515 | 0.00177 | 1 | 5/7/2008 | |
| Bromodichloromethane | BQL | 0.00515 | 0.00102 | 1 | 5/7/2008 | |
| Bromoform | BQL | 0.00515 | 0.00103 | 1 | 5/7/2008 | |
| Bromomethane | BQL | 0.00515 | 0.00108 | 1 | 5/7/2008 | |
| 2-Butanone | BQL | 0.0258 | 0.00559 | 1 | 5/7/2008 | |
| n-Butylbenzene | BQL | 0.00515 | 0.00098 | 1 | 5/7/2008 | |
| sec-Butylbenzene | BQL | 0.00515 | 0.00104 | 1 | 5/7/2008 | |
| tert-Butylbenzene | BQL | 0.00515 | 0.00115 | 1 | 5/7/2008 | |
| Carbon disulfide | BQL | 0.00515 | 0.00276 | 1 | 5/7/2008 | |
| Carbon tetrachloride | BQL | 0.00515 | 0.00105 | 1 | 5/7/2008 | |
| Chlorobenzene | BQL | 0.00515 | 0.00123 | 1 | 5/7/2008 | |
| Chloroethane | BQL | 0.00515 | 0.00164 | 1 | 5/7/2008 | |
| Chloroform | BQL | 0.00515 | 0.00124 | 1 | 5/7/2008 | |
| Chloromethane | BQL | 0.00515 | 0.00116 | 1 | 5/7/2008 | |
| 2-Chlorotoluene | BQL | 0.00515 | 0.00104 | 1 | 5/7/2008 | |
| 4-Chlorotoluene | BQL | 0.00515 | 0.00129 | 1 | 5/7/2008 | |
| Dibromochloromethane | BQL | 0.00515 | 0.00142 | 1 | 5/7/2008 | |
| 1,2-Dibromo-3-chloropropane | BQL | 0.0258 | 0.00149 | 1 | 5/7/2008 | |
| Dibromomethane | BQL | 0.00515 | 0.00156 | 1 | 5/7/2008 | |
| 1,2-Dibromoethane (EDB) | BQL | 0.00515 | 0.00116 | 1 | 5/7/2008 | |
| 1,2-Dichlorobenzene | BQL | 0.00515 | 0.00133 | 1 | 5/7/2008 | |
| 1,3-Dichlorobenzene | BQL | 0.00515 | 0.00132 | 1 | 5/7/2008 | |
| 1,4-Dichlorobenzene | BQL | 0.00515 | 0.00108 | 1 | 5/7/2008 | |
| trans-1,4-Dichloro-2-butene | BQL | 0.0258 | 0.00142 | 1 | 5/7/2008 | |
| 1,1-Dichloroethane | BQL | 0.00515 | 0.00109 | 1 | 5/7/2008 | |
| 1,1-Dichloroethene | BQL | 0.00515 | 0.00152 | 1 | 5/7/2008 | |
| 1,2-Dichloroethane | BQL | 0.00515 | 0.00136 | 1 | 5/7/2008 | |
| cis-1,2-Dichloroethene | BQL | 0.00515 | 0.00132 | 1 | 5/7/2008 | |
| trans-1,2-dichloroethene | BQL | 0.00515 | 0.00116 | 1 | 5/7/2008 | |
| 1,2-Dichloropropane | BQL | 0.00515 | 0.00122 | 1 | 5/7/2008 | |
| 1,3-Dichloropropane | BQL | 0.00515 | 0.00115 | 1 | 5/7/2008 | |
| 2,2-Dichloropropane | BQL | 0.00515 | 0.00124 | 1 | 5/7/2008 | |
| 1,1-Dichloropropene | BQL | 0.00515 | 0.00162 | 1 | 5/7/2008 | |
| cis-1,3-Dichloropropene | BQL | 0.00515 | 0.00086 | 1 | 5/7/2008 | |
| trans-1,3-Dichloropropene | BQL | 0.00515 | 0.00099 | 1 | 5/7/2008 | |
| Dichlorodifluoromethane | BQL | 0.00515 | 0.00136 | 1 | 5/7/2008 | |
| Diisopropyl ether (DIPE) | BQL | 0.00515 | 0.00116 | 1 | 5/7/2008 | |
| Ethylbenzene | BQL | 0.00515 | 0.00089 | 1 | 5/7/2008 | |
| Hexachlorobutadiene | BQL | 0.00515 | 0.00100 | 1 | 5/7/2008 | |
| 2-Hexanone | BQL | 0.00515 | 0.00334 | 1 | 5/7/2008 | |
| Iodomethane | BQL | 0.00515 | 0.00111 | 1 | 5/7/2008 | |

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

Client Sample ID: DPT-14
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID G128-2183-14A
Lab Project ID: G128-2183
Report Basis: Dry Weight

Analyzed By: MJC
Date Collected: 04-30-2008 14:20
Date Received: 5/1/2008
Matrix: Soil
Sample Amount: 5.07 g
%Solids: 95.7

| Report Name<br>Compound | Result<br>MG/KG | Quantitation<br>Limit MG/KG | MDL<br>MG/KG | Dilution<br>Factor | Date<br>Analyzed | Flag |
|---|---|---|---|---|---|---|
| Isopropylbenzene | BQL | 0.00515 | 0.00092 | 1 | 5/7/2008 | |
| 4-Isopropyltoluene | BQL | 0.00515 | 0.00110 | 1 | 5/7/2008 | |
| Methylene chloride | **0.00205** | 0.0206 | 0.00123 | 1 | 5/7/2008 | J |
| 4-Methyl-2-pentanone | BQL | 0.00515 | 0.00477 | 1 | 5/7/2008 | |
| Methyl-tert-butyl ether (MTBE) | BQL | 0.00515 | 0.00114 | 1 | 5/7/2008 | |
| Naphthalene | BQL | 0.00515 | 0.00088 | 1 | 5/7/2008 | |
| n-Propyl benzene | BQL | 0.00515 | 0.00130 | 1 | 5/7/2008 | |
| Styrene | BQL | 0.00515 | 0.00113 | 1 | 5/7/2008 | |
| 1,1,1,2-Tetrachloroethane | BQL | 0.00515 | 0.00105 | 1 | 5/7/2008 | |
| 1,1,2,2-Tetrachloroethane | BQL | 0.00515 | 0.00116 | 1 | 5/7/2008 | |
| Tetrachloroethene | BQL | 0.00515 | 0.00094 | 1 | 5/7/2008 | |
| Toluene | BQL | 0.00515 | 0.00103 | 1 | 5/7/2008 | |
| 1,2,3-Trichlorobenzene | BQL | 0.00515 | 0.00107 | 1 | 5/7/2008 | |
| 1,2,4-Trichlorobenzene | BQL | 0.00515 | 0.00106 | 1 | 5/7/2008 | |
| Trichloroethene | BQL | 0.00515 | 0.00098 | 1 | 5/7/2008 | |
| 1,1,1-Trichloroethane | BQL | 0.00515 | 0.00116 | 1 | 5/7/2008 | |
| 1,1,2-Trichloroethane | BQL | 0.00515 | 0.00169 | 1 | 5/7/2008 | |
| Trichlorofluoromethane | BQL | 0.00515 | 0.00106 | 1 | 5/7/2008 | |
| 1,2,3-Trichloropropane | BQL | 0.00515 | 0.00128 | 1 | 5/7/2008 | |
| 1,2,4-Trimethylbenzene | BQL | 0.00515 | 0.00130 | 1 | 5/7/2008 | |
| 1,3,5-Trimethylbenzene | BQL | 0.00515 | 0.00117 | 1 | 5/7/2008 | |
| Vinyl chloride | BQL | 0.00515 | 0.00140 | 1 | 5/7/2008 | |
| m-,p-Xylene | BQL | 0.0103 | 0.00198 | 1 | 5/7/2008 | |
| o-Xylene | BQL | 0.00515 | 0.00100 | 1 | 5/7/2008 | |

| | Spike Added | Spike Result | Percent Recovered |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 0.05 | 0.0625 | 125 |
| Toluene-d8 | 0.05 | 0.0503 | 101 |
| 4-Bromofluorobenzene | 0.05 | 0.0428 | 86 |

**Comments:**

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

Analyst: _____

Reviewed By: _____

SGS ENVIRONMENTAL SERVICES, INC.

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

Client Sample ID: DPT-15
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID G128-2183-15A
Lab Project ID: G128-2183
Report Basis: Dry Weight

Analyzed By: MJC
Date Collected: 04-30-2008 14:30
Date Received: 5/1/2008
Matrix: Soil
Sample Amount: 5 g
%Solids: 95.9

| Report Name<br>Compound | Result<br>MG/KG | Quantitation<br>Limit MG/KG | MDL<br>MG/KG | Dilution<br>Factor | Date<br>Analyzed | Flag |
|---|---|---|---|---|---|---|
| Acetone | **0.00762** | 0.0521 | 0.00720 | 1 | 5/7/2008 | J |
| Benzene | BQL | 0.00521 | 0.00112 | 1 | 5/7/2008 | |
| Bromobenzene | BQL | 0.00521 | 0.00107 | 1 | 5/7/2008 | |
| Bromochloromethane | BQL | 0.00521 | 0.00179 | 1 | 5/7/2008 | |
| Bromodichloromethane | BQL | 0.00521 | 0.00103 | 1 | 5/7/2008 | |
| Bromoform | BQL | 0.00521 | 0.00104 | 1 | 5/7/2008 | |
| Bromomethane | BQL | 0.00521 | 0.00109 | 1 | 5/7/2008 | |
| 2-Butanone | BQL | 0.0261 | 0.00566 | 1 | 5/7/2008 | |
| n-Butylbenzene | BQL | 0.00521 | 0.00100 | 1 | 5/7/2008 | |
| sec-Butylbenzene | BQL | 0.00521 | 0.00105 | 1 | 5/7/2008 | |
| tert-Butylbenzene | BQL | 0.00521 | 0.00117 | 1 | 5/7/2008 | |
| Carbon disulfide | BQL | 0.00521 | 0.00279 | 1 | 5/7/2008 | |
| Carbon tetrachloride | BQL | 0.00521 | 0.00106 | 1 | 5/7/2008 | |
| Chlorobenzene | BQL | 0.00521 | 0.00124 | 1 | 5/7/2008 | |
| Chloroethane | BQL | 0.00521 | 0.00166 | 1 | 5/7/2008 | |
| Chloroform | BQL | 0.00521 | 0.00125 | 1 | 5/7/2008 | |
| Chloromethane | BQL | 0.00521 | 0.00118 | 1 | 5/7/2008 | |
| 2-Chlorotoluene | BQL | 0.00521 | 0.00105 | 1 | 5/7/2008 | |
| 4-Chlorotoluene | BQL | 0.00521 | 0.00130 | 1 | 5/7/2008 | |
| Dibromochloromethane | BQL | 0.00521 | 0.00144 | 1 | 5/7/2008 | |
| 1,2-Dibromo-3-chloropropane | BQL | 0.0261 | 0.00151 | 1 | 5/7/2008 | |
| Dibromomethane | BQL | 0.00521 | 0.00157 | 1 | 5/7/2008 | |
| 1,2-Dibromoethane (EDB) | BQL | 0.00521 | 0.00118 | 1 | 5/7/2008 | |
| 1,2-Dichlorobenzene | BQL | 0.00521 | 0.00134 | 1 | 5/7/2008 | |
| 1,3-Dichlorobenzene | BQL | 0.00521 | 0.00133 | 1 | 5/7/2008 | |
| 1,4-Dichlorobenzene | BQL | 0.00521 | 0.00109 | 1 | 5/7/2008 | |
| trans-1,4-Dichloro-2-butene | BQL | 0.0261 | 0.00144 | 1 | 5/7/2008 | |
| 1,1-Dichloroethane | BQL | 0.00521 | 0.00111 | 1 | 5/7/2008 | |
| 1,1-Dichloroethene | BQL | 0.00521 | 0.00154 | 1 | 5/7/2008 | |
| 1,2-Dichloroethane | BQL | 0.00521 | 0.00138 | 1 | 5/7/2008 | |
| cis-1,2-Dichloroethene | BQL | 0.00521 | 0.00133 | 1 | 5/7/2008 | |
| trans-1,2-dichloroethene | BQL | 0.00521 | 0.00118 | 1 | 5/7/2008 | |
| 1,2-Dichloropropane | BQL | 0.00521 | 0.00123 | 1 | 5/7/2008 | |
| 1,3-Dichloropropane | BQL | 0.00521 | 0.00117 | 1 | 5/7/2008 | |
| 2,2-Dichloropropane | BQL | 0.00521 | 0.00125 | 1 | 5/7/2008 | |
| 1,1-Dichloropropene | BQL | 0.00521 | 0.00164 | 1 | 5/7/2008 | |
| cis-1,3-Dichloropropene | BQL | 0.00521 | 0.00087 | 1 | 5/7/2008 | |
| trans-1,3-Dichloropropene | BQL | 0.00521 | 0.00100 | 1 | 5/7/2008 | |
| Dichlorodifluoromethane | BQL | 0.00521 | 0.00138 | 1 | 5/7/2008 | |
| Diisopropyl ether (DIPE) | BQL | 0.00521 | 0.00118 | 1 | 5/7/2008 | |
| Ethylbenzene | BQL | 0.00521 | 0.00090 | 1 | 5/7/2008 | |
| Hexachlorobutadiene | BQL | 0.00521 | 0.00102 | 1 | 5/7/2008 | |
| 2-Hexanone | BQL | 0.00521 | 0.00338 | 1 | 5/7/2008 | |
| Iodomethane | BQL | 0.00521 | 0.00113 | 1 | 5/7/2008 | |

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

Client Sample ID: DPT-15
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID G128-2183-15A
Lab Project ID: G128-2183
Report Basis: Dry Weight

Analyzed By: MJC
Date Collected: 04-30-2008 14:30
Date Received: 5/1/2008
Matrix: Soil
Sample Amount: 5 g
%Solids: 95.9

| Report Name<br>Compound | Result<br>MG/KG | Quantitation<br>Limit MG/KG | MDL<br>MG/KG | Dilution<br>Factor | Date<br>Analyzed | Flag |
|---|---|---|---|---|---|---|
| Isopropylbenzene | BQL | 0.00521 | 0.00093 | 1 | 5/7/2008 | |
| 4-Isopropyltoluene | BQL | 0.00521 | 0.00112 | 1 | 5/7/2008 | |
| Methylene chloride | BQL | 0.0209 | 0.00124 | 1 | 5/7/2008 | |
| 4-Methyl-2-pentanone | BQL | 0.00521 | 0.00483 | 1 | 5/7/2008 | |
| Methyl-tert-butyl ether (MTBE) | BQL | 0.00521 | 0.00116 | 1 | 5/7/2008 | |
| Naphthalene | BQL | 0.00521 | 0.00089 | 1 | 5/7/2008 | |
| n-Propyl benzene | BQL | 0.00521 | 0.00131 | 1 | 5/7/2008 | |
| Styrene | BQL | 0.00521 | 0.00115 | 1 | 5/7/2008 | |
| 1,1,1,2-Tetrachloroethane | BQL | 0.00521 | 0.00106 | 1 | 5/7/2008 | |
| 1,1,2,2-Tetrachloroethane | BQL | 0.00521 | 0.00118 | 1 | 5/7/2008 | |
| Tetrachloroethene | BQL | 0.00521 | 0.00096 | 1 | 5/7/2008 | |
| Toluene | BQL | 0.00521 | 0.00104 | 1 | 5/7/2008 | |
| 1,2,3-Trichlorobenzene | BQL | 0.00521 | 0.00108 | 1 | 5/7/2008 | |
| 1,2,4-Trichlorobenzene | BQL | 0.00521 | 0.00107 | 1 | 5/7/2008 | |
| Trichloroethene | BQL | 0.00521 | 0.00100 | 1 | 5/7/2008 | |
| 1,1,1-Trichloroethane | BQL | 0.00521 | 0.00118 | 1 | 5/7/2008 | |
| 1,1,2-Trichloroethane | BQL | 0.00521 | 0.00171 | 1 | 5/7/2008 | |
| Trichlorofluoromethane | BQL | 0.00521 | 0.00107 | 1 | 5/7/2008 | |
| 1,2,3-Trichloropropane | BQL | 0.00521 | 0.00129 | 1 | 5/7/2008 | |
| 1,2,4-Trimethylbenzene | BQL | 0.00521 | 0.00131 | 1 | 5/7/2008 | |
| 1,3,5-Trimethylbenzene | BQL | 0.00521 | 0.00119 | 1 | 5/7/2008 | |
| Vinyl chloride | BQL | 0.00521 | 0.00142 | 1 | 5/7/2008 | |
| m-,p-Xylene | BQL | 0.0104 | 0.00200 | 1 | 5/7/2008 | |
| o-Xylene | BQL | 0.00521 | 0.00101 | 1 | 5/7/2008 | |

| | Spike Added | Spike Result | Percent Recovered |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 0.05 | 0.057 | 114 |
| Toluene-d8 | 0.05 | 0.0488 | 98 |
| 4-Bromofluorobenzene | 0.05 | 0.0452 | 90 |

**Comments:**

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

Analyst: _____

Reviewed By: _____

SGS ENVIRONMENTAL SERVICES, INC.

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

Client Sample ID: DPT-16
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID G128-2183-16A
Lab Project ID: G128-2183
Report Basis: Dry Weight

Analyzed By: MJC
Date Collected: 04-30-2008 14:45
Date Received: 5/1/2008
Matrix: Soil
Sample Amount: 4.88 g
%Solids: 96.7

| Report Name<br>Compound | Result<br>MG/KG | Quantitation<br>Limit MG/KG | MDL<br>MG/KG | Dilution<br>Factor | Date<br>Analyzed | Flag |
|---|---|---|---|---|---|---|
| Acetone | **0.0199** | 0.0530 | 0.00732 | 1 | 5/7/2008 | J |
| Benzene | BQL | 0.00530 | 0.00113 | 1 | 5/7/2008 | |
| Bromobenzene | BQL | 0.00530 | 0.00109 | 1 | 5/7/2008 | |
| Bromochloromethane | BQL | 0.00530 | 0.00182 | 1 | 5/7/2008 | |
| Bromodichloromethane | BQL | 0.00530 | 0.00105 | 1 | 5/7/2008 | |
| Bromoform | BQL | 0.00530 | 0.00106 | 1 | 5/7/2008 | |
| Bromomethane | BQL | 0.00530 | 0.00111 | 1 | 5/7/2008 | |
| 2-Butanone | BQL | 0.0265 | 0.00575 | 1 | 5/7/2008 | |
| n-Butylbenzene | BQL | 0.00530 | 0.00101 | 1 | 5/7/2008 | |
| sec-Butylbenzene | BQL | 0.00530 | 0.00107 | 1 | 5/7/2008 | |
| tert-Butylbenzene | BQL | 0.00530 | 0.00119 | 1 | 5/7/2008 | |
| Carbon disulfide | BQL | 0.00530 | 0.00284 | 1 | 5/7/2008 | |
| Carbon tetrachloride | BQL | 0.00530 | 0.00108 | 1 | 5/7/2008 | |
| Chlorobenzene | BQL | 0.00530 | 0.00126 | 1 | 5/7/2008 | |
| Chloroethane | BQL | 0.00530 | 0.00168 | 1 | 5/7/2008 | |
| Chloroform | BQL | 0.00530 | 0.00127 | 1 | 5/7/2008 | |
| Chloromethane | BQL | 0.00530 | 0.00120 | 1 | 5/7/2008 | |
| 2-Chlorotoluene | BQL | 0.00530 | 0.00107 | 1 | 5/7/2008 | |
| 4-Chlorotoluene | BQL | 0.00530 | 0.00132 | 1 | 5/7/2008 | |
| Dibromochloromethane | BQL | 0.00530 | 0.00146 | 1 | 5/7/2008 | |
| 1,2-Dibromo-3-chloropropane | BQL | 0.0265 | 0.00154 | 1 | 5/7/2008 | |
| Dibromomethane | BQL | 0.00530 | 0.00160 | 1 | 5/7/2008 | |
| 1,2-Dibromoethane (EDB) | BQL | 0.00530 | 0.00120 | 1 | 5/7/2008 | |
| 1,2-Dichlorobenzene | BQL | 0.00530 | 0.00137 | 1 | 5/7/2008 | |
| 1,3-Dichlorobenzene | BQL | 0.00530 | 0.00136 | 1 | 5/7/2008 | |
| 1,4-Dichlorobenzene | BQL | 0.00530 | 0.00111 | 1 | 5/7/2008 | |
| trans-1,4-Dichloro-2-butene | BQL | 0.0265 | 0.00146 | 1 | 5/7/2008 | |
| 1,1-Dichloroethane | BQL | 0.00530 | 0.00112 | 1 | 5/7/2008 | |
| 1,1-Dichloroethene | BQL | 0.00530 | 0.00157 | 1 | 5/7/2008 | |
| 1,2-Dichloroethane | BQL | 0.00530 | 0.00140 | 1 | 5/7/2008 | |
| cis-1,2-Dichloroethene | BQL | 0.00530 | 0.00136 | 1 | 5/7/2008 | |
| trans-1,2-dichloroethene | BQL | 0.00530 | 0.00120 | 1 | 5/7/2008 | |
| 1,2-Dichloropropane | BQL | 0.00530 | 0.00125 | 1 | 5/7/2008 | |
| 1,3-Dichloropropane | BQL | 0.00530 | 0.00119 | 1 | 5/7/2008 | |
| 2,2-Dichloropropane | BQL | 0.00530 | 0.00127 | 1 | 5/7/2008 | |
| 1,1-Dichloropropene | BQL | 0.00530 | 0.00166 | 1 | 5/7/2008 | |
| cis-1,3-Dichloropropene | BQL | 0.00530 | 0.00088 | 1 | 5/7/2008 | |
| trans-1,3-Dichloropropene | BQL | 0.00530 | 0.00102 | 1 | 5/7/2008 | |
| Dichlorodifluoromethane | BQL | 0.00530 | 0.00140 | 1 | 5/7/2008 | |
| Diisopropyl ether (DIPE) | BQL | 0.00530 | 0.00120 | 1 | 5/7/2008 | |
| Ethylbenzene | BQL | 0.00530 | 0.00092 | 1 | 5/7/2008 | |
| Hexachlorobutadiene | BQL | 0.00530 | 0.00103 | 1 | 5/7/2008 | |
| 2-Hexanone | BQL | 0.00530 | 0.00343 | 1 | 5/7/2008 | |
| Iodomethane | BQL | 0.00530 | 0.00114 | 1 | 5/7/2008 | |

SGS ENVIRONMENTAL SERVICES, INC.

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

Client Sample ID: DPT-16
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID G128-2183-16A
Lab Project ID: G128-2183
Report Basis: Dry Weight

Analyzed By: MJC
Date Collected: 04-30-2008 14:45
Date Received: 5/1/2008
Matrix: Soil
Sample Amount: 4.88 g
%Solids: 96.7

| Report Name<br>Compound | Result<br>MG/KG | Quantitation<br>Limit MG/KG | MDL<br>MG/KG | Dilution<br>Factor | Date<br>Analyzed | Flag |
|---|---|---|---|---|---|---|
| Isopropylbenzene | BQL | 0.00530 | 0.00094 | 1 | 5/7/2008 | |
| 4-Isopropyltoluene | BQL | 0.00530 | 0.00113 | 1 | 5/7/2008 | |
| Methylene chloride | **0.00234** | 0.0212 | 0.00126 | 1 | 5/7/2008 | J |
| 4-Methyl-2-pentanone | BQL | 0.00530 | 0.00490 | 1 | 5/7/2008 | |
| Methyl-tert-butyl ether (MTBE) | BQL | 0.00530 | 0.00118 | 1 | 5/7/2008 | |
| Naphthalene | BQL | 0.00530 | 0.00090 | 1 | 5/7/2008 | |
| n-Propyl benzene | BQL | 0.00530 | 0.00133 | 1 | 5/7/2008 | |
| Styrene | BQL | 0.00530 | 0.00117 | 1 | 5/7/2008 | |
| 1,1,1,2-Tetrachloroethane | BQL | 0.00530 | 0.00108 | 1 | 5/7/2008 | |
| 1,1,2,2-Tetrachloroethane | BQL | 0.00530 | 0.00120 | 1 | 5/7/2008 | |
| Tetrachloroethene | **0.00211** | 0.00530 | 0.00097 | 1 | 5/7/2008 | J |
| Toluene | BQL | 0.00530 | 0.00106 | 1 | 5/7/2008 | |
| 1,2,3-Trichlorobenzene | BQL | 0.00530 | 0.00110 | 1 | 5/7/2008 | |
| 1,2,4-Trichlorobenzene | BQL | 0.00530 | 0.00109 | 1 | 5/7/2008 | |
| Trichloroethene | BQL | 0.00530 | 0.00101 | 1 | 5/7/2008 | |
| 1,1,1-Trichloroethane | BQL | 0.00530 | 0.00120 | 1 | 5/7/2008 | |
| 1,1,2-Trichloroethane | BQL | 0.00530 | 0.00174 | 1 | 5/7/2008 | |
| Trichlorofluoromethane | BQL | 0.00530 | 0.00109 | 1 | 5/7/2008 | |
| 1,2,3-Trichloropropane | BQL | 0.00530 | 0.00131 | 1 | 5/7/2008 | |
| 1,2,4-Trimethylbenzene | BQL | 0.00530 | 0.00133 | 1 | 5/7/2008 | |
| 1,3,5-Trimethylbenzene | BQL | 0.00530 | 0.00121 | 1 | 5/7/2008 | |
| Vinyl chloride | BQL | 0.00530 | 0.00144 | 1 | 5/7/2008 | |
| m-,p-Xylene | BQL | 0.0106 | 0.00203 | 1 | 5/7/2008 | |
| o-Xylene | BQL | 0.00530 | 0.00103 | 1 | 5/7/2008 | |

| | Spike Added | Spike Result | Percent Recovered |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 0.05 | 0.0627 | 125 |
| Toluene-d8 | 0.05 | 0.0502 | 100 |
| 4-Bromofluorobenzene | 0.05 | 0.0419 | 84 |

**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
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-1I
Lab Project ID: G128-2183
Report Basis: Dry weight

Analyzed By: DES
Date Collected: 4/30/2008 10:45
Date Received: 5/1/2008
Date Extracted: 5/2/2008
Matrix: Soil
% Solids: 95.13

| Compound | Result mg/Kg | RL mg/Kg | MDL mg/Kg | Dilution Factor | Date Analyzed | Flag |
|---|---|---|---|---|---|---|
| Acenaphthene | **0.108** | 0.317 | 0.045 | 1 | 5/6/2008 | J |
| Acenaphthylene | **0.079** | 0.317 | 0.042 | 1 | 5/6/2008 | J |
| Anthracene | **0.057** | 0.317 | 0.046 | 1 | 5/6/2008 | J |
| Benzo[a]anthracene | **0.063** | 0.317 | 0.055 | 1 | 5/6/2008 | J |
| Benzo[a]pyrene | BQL | 0.317 | 0.049 | 1 | 5/6/2008 | |
| Benzo[b]fluoranthene | BQL | 0.317 | 0.055 | 1 | 5/6/2008 | |
| Benzo[g,h,i]perylene | BQL | 0.317 | 0.086 | 1 | 5/6/2008 | |
| Benzo[k]fluoranthene | BQL | 0.317 | 0.061 | 1 | 5/6/2008 | |
| Benzoic Acid | BQL | 0.634 | 0.634 | 1 | 5/6/2008 | |
| Bis(2-chloroethoxy)methane | BQL | 0.317 | 0.047 | 1 | 5/6/2008 | |
| Bis(2-chloroethyl)ether | BQL | 0.317 | 0.038 | 1 | 5/6/2008 | |
| Bis(2-chloroisopropyl)ether | BQL | 0.317 | 0.040 | 1 | 5/6/2008 | |
| Bis(2-ethylhexyl)phthalate | **0.238** | 0.317 | 0.043 | 1 | 5/6/2008 | J |
| 4-bromophenyl phenyl ether | BQL | 0.317 | 0.054 | 1 | 5/6/2008 | |
| Butylbenzylphthalate | **0.079** | 0.317 | 0.049 | 1 | 5/6/2008 | J |
| 2-Chloronaphthalene | BQL | 0.317 | 0.050 | 1 | 5/6/2008 | |
| 2-Chlorophenol | BQL | 0.317 | 0.099 | 1 | 5/6/2008 | |
| 4-Chloro-3-methylphenol | BQL | 0.317 | 0.099 | 1 | 5/6/2008 | |
| 4-Chloroaniline | BQL | 1.58 | 0.241 | 1 | 5/6/2008 | |
| 4-Chlorophenyl phenyl ether | BQL | 0.317 | 0.047 | 1 | 5/6/2008 | |
| Chrysene | **0.063** | 0.317 | 0.034 | 1 | 5/6/2008 | J |
| Dibenzo[a,h]anthracene | BQL | 0.317 | 0.089 | 1 | 5/6/2008 | |
| Dibenzofuran | BQL | 0.317 | 0.058 | 1 | 5/6/2008 | |
| Di-n-Butylphthalate | **0.057** | 0.317 | 0.038 | 1 | 5/6/2008 | J |
| 1,2-Dichlorobenzene | BQL | 0.317 | 0.035 | 1 | 5/6/2008 | |
| 1,3-Dichlorobenzene | BQL | 0.317 | 0.035 | 1 | 5/6/2008 | |
| 1,4-Dichlorobenzene | BQL | 0.317 | 0.036 | 1 | 5/6/2008 | |
| 3,3'-Dichlorobenzidine | BQL | 0.634 | 0.080 | 1 | 5/6/2008 | |
| 2,4-Dichlorophenol | BQL | 0.317 | 0.114 | 1 | 5/6/2008 | |
| Diethylphthalate | BQL | 0.317 | 0.041 | 1 | 5/6/2008 | |
| Dimethylphthalate | BQL | 0.317 | 0.038 | 1 | 5/6/2008 | |
| 2,4-Dimethylphenol | BQL | 0.317 | 0.227 | 1 | 5/6/2008 | |
| Di-n-octylphthalate | **0.082** | 0.317 | 0.052 | 1 | 5/6/2008 | J |
| 4,6-Dinitro-2-methylphenol | BQL | 1.58 | 0.187 | 1 | 5/6/2008 | |
| 2,4-Dinitrophenol | BQL | 1.58 | 0.698 | 1 | 5/6/2008 | |
| 2,4-Dinitrotoluene | BQL | 0.317 | 0.041 | 1 | 5/6/2008 | |
| 2,6-Dinitrotoluene | BQL | 0.317 | 0.058 | 1 | 5/6/2008 | |
| Diphenylamine * | BQL | 0.317 | 0.031 | 1 | 5/6/2008 | |
| Fluoranthene | **0.067** | 0.317 | 0.044 | 1 | 5/6/2008 | J |
| Fluorene | **0.120** | 0.317 | 0.039 | 1 | 5/6/2008 | J |
| Hexachlorobenzene | BQL | 0.317 | 0.049 | 1 | 5/6/2008 | |
| Hexachlorobutadiene | BQL | 0.317 | 0.051 | 1 | 5/6/2008 | |
| Hexachlorocyclopentadiene | BQL | 0.634 | 0.033 | 1 | 5/6/2008 | |
| Hexachloroethane | BQL | 0.317 | 0.029 | 1 | 5/6/2008 | |
| Indeno(1,2,3-c,d)pyrene | BQL | 0.317 | 0.081 | 1 | 5/6/2008 | |
| Isophorone | BQL | 0.317 | 0.047 | 1 | 5/6/2008 | |
| 2-Methylnaphthalene | **0.288** | 0.317 | 0.093 | 1 | 5/6/2008 | J |
| 2-Methylphenol | BQL | 0.317 | 0.112 | 1 | 5/6/2008 | |
| 3- & 4-Methylphenol | BQL | 0.317 | 0.107 | 1 | 5/6/2008 | |

**Results for Semivolatiles**
**by GCMS 8270**

Client Sample ID: DPT-01
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-1I
Lab Project ID: G128-2183
Report Basis: Dry weight

Analyzed By: DES
Date Collected: 4/30/2008 10:45
Date Received: 5/1/2008
Date Extracted: 5/2/2008
Matrix: Soil
% Solids: 95.13

| Compound | Result mg/Kg | RL mg/Kg | MDL mg/Kg | Dilution Factor | Date Analyzed | Flag |
|---|---|---|---|---|---|---|
| Naphthalene | **0.086** | 0.317 | 0.026 | 1 | 5/6/2008 | J |
| 2-Nitroaniline | BQL | 0.317 | 0.050 | 1 | 5/6/2008 | |
| 3-Nitroaniline | BQL | 1.58 | 0.326 | 1 | 5/6/2008 | |
| 4-Nitroaniline | BQL | 1.58 | 0.098 | 1 | 5/6/2008 | |
| Nitrobenzene | BQL | 0.317 | 0.043 | 1 | 5/6/2008 | |
| 2-Nitrophenol | BQL | 0.317 | 0.098 | 1 | 5/6/2008 | |
| 4-Nitrophenol | BQL | 1.58 | 0.088 | 1 | 5/6/2008 | |
| N-Nitrosodi-n-propylamine | BQL | 0.317 | 0.040 | 1 | 5/6/2008 | |
| Pentachlorophenol | BQL | 1.58 | 0.083 | 1 | 5/6/2008 | |
| Phenanthrene | **0.184** | 0.317 | 0.036 | 1 | 5/6/2008 | J |
| Phenol | BQL | 0.317 | 0.087 | 1 | 5/6/2008 | |
| Pyrene | **0.070** | 0.317 | 0.061 | 1 | 5/6/2008 | J |
| 1,2,4-Trichlorobenzene | BQL | 0.317 | 0.040 | 1 | 5/6/2008 | |
| 2,4,5-Trichlorophenol | BQL | 0.317 | 0.123 | 1 | 5/6/2008 | |
| 2,4,6-Trichlorophenol | BQL | 0.317 | 0.113 | 1 | 5/6/2008 | |

| | Spike Added | Spike Result | Percent Recovered |
|---|---|---|---|
| 2-Fluorobiphenyl | 10 | 9.8 | 98 |
| 2-Fluorophenol | 10 | 7.8 | 78 |
| Nitrobenzene-d5 | 10 | 9.4 | 94 |
| Phenol-d6 | 10 | 9.5 | 95 |
| 2,4,6-Tribromophenol | 10 | 9 | 90 |
| 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
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-2I
Lab Project ID: G128-2183
Report Basis: Dry weight

Analyzed By: DES
Date Collected: 4/30/2008 11:00
Date Received: 5/1/2008
Date Extracted: 5/2/2008
Matrix: Soil
% Solids: 97.53

| Compound | Result mg/Kg | RL mg/Kg | MDL mg/Kg | Dilution Factor | Date Analyzed | Flag |
|---|---|---|---|---|---|---|
| Acenaphthene | BQL | 0.314 | 0.045 | 1 | 5/6/2008 | |
| Acenaphthylene | BQL | 0.314 | 0.042 | 1 | 5/6/2008 | |
| Anthracene | BQL | 0.314 | 0.046 | 1 | 5/6/2008 | |
| Benzo[a]anthracene | BQL | 0.314 | 0.054 | 1 | 5/6/2008 | |
| Benzo[a]pyrene | BQL | 0.314 | 0.048 | 1 | 5/6/2008 | |
| Benzo[b]fluoranthene | BQL | 0.314 | 0.055 | 1 | 5/6/2008 | |
| Benzo[g,h,i]perylene | BQL | 0.314 | 0.085 | 1 | 5/6/2008 | |
| Benzo[k]fluoranthene | BQL | 0.314 | 0.061 | 1 | 5/6/2008 | |
| Benzoic Acid | BQL | 0.627 | 0.627 | 1 | 5/6/2008 | |
| Bis(2-chloroethoxy)methane | BQL | 0.314 | 0.047 | 1 | 5/6/2008 | |
| Bis(2-chloroethyl)ether | BQL | 0.314 | 0.038 | 1 | 5/6/2008 | |
| Bis(2-chloroisopropyl)ether | BQL | 0.314 | 0.039 | 1 | 5/6/2008 | |
| Bis(2-ethylhexyl)phthalate | BQL | 0.314 | 0.042 | 1 | 5/6/2008 | |
| 4-bromophenyl phenyl ether | BQL | 0.314 | 0.053 | 1 | 5/6/2008 | |
| Butylbenzylphthalate | BQL | 0.314 | 0.048 | 1 | 5/6/2008 | |
| 2-Chloronaphthalene | BQL | 0.314 | 0.049 | 1 | 5/6/2008 | |
| 2-Chlorophenol | BQL | 0.314 | 0.098 | 1 | 5/6/2008 | |
| 4-Chloro-3-methylphenol | BQL | 0.314 | 0.098 | 1 | 5/6/2008 | |
| 4-Chloroaniline | BQL | 1.57 | 0.239 | 1 | 5/6/2008 | |
| 4-Chlorophenyl phenyl ether | BQL | 0.314 | 0.046 | 1 | 5/6/2008 | |
| Chrysene | BQL | 0.314 | 0.034 | 1 | 5/6/2008 | |
| Dibenzo[a,h]anthracene | BQL | 0.314 | 0.088 | 1 | 5/6/2008 | |
| Dibenzofuran | BQL | 0.314 | 0.057 | 1 | 5/6/2008 | |
| Di-n-Butylphthalate | BQL | 0.314 | 0.037 | 1 | 5/6/2008 | |
| 1,2-Dichlorobenzene | BQL | 0.314 | 0.035 | 1 | 5/6/2008 | |
| 1,3-Dichlorobenzene | BQL | 0.314 | 0.034 | 1 | 5/6/2008 | |
| 1,4-Dichlorobenzene | BQL | 0.314 | 0.036 | 1 | 5/6/2008 | |
| 3,3'-Dichlorobenzidine | BQL | 0.627 | 0.079 | 1 | 5/6/2008 | |
| 2,4-Dichlorophenol | BQL | 0.314 | 0.113 | 1 | 5/6/2008 | |
| Diethylphthalate | BQL | 0.314 | 0.041 | 1 | 5/6/2008 | |
| Dimethylphthalate | BQL | 0.314 | 0.038 | 1 | 5/6/2008 | |
| 2,4-Dimethylphenol | BQL | 0.314 | 0.224 | 1 | 5/6/2008 | |
| Di-n-octylphthalate | BQL | 0.314 | 0.052 | 1 | 5/6/2008 | |
| 4,6-Dinitro-2-methylphenol | BQL | 1.57 | 0.185 | 1 | 5/6/2008 | |
| 2,4-Dinitrophenol | BQL | 1.57 | 0.691 | 1 | 5/6/2008 | |
| 2,4-Dinitrotoluene | BQL | 0.314 | 0.041 | 1 | 5/6/2008 | |
| 2,6-Dinitrotoluene | BQL | 0.314 | 0.057 | 1 | 5/6/2008 | |
| Diphenylamine * | BQL | 0.314 | 0.031 | 1 | 5/6/2008 | |
| Fluoranthene | BQL | 0.314 | 0.044 | 1 | 5/6/2008 | |
| Fluorene | BQL | 0.314 | 0.039 | 1 | 5/6/2008 | |
| Hexachlorobenzene | BQL | 0.314 | 0.048 | 1 | 5/6/2008 | |
| Hexachlorobutadiene | BQL | 0.314 | 0.050 | 1 | 5/6/2008 | |
| Hexachlorocyclopentadiene | BQL | 0.627 | 0.032 | 1 | 5/6/2008 | |
| Hexachloroethane | BQL | 0.314 | 0.028 | 1 | 5/6/2008 | |
| Indeno(1,2,3-c,d)pyrene | BQL | 0.314 | 0.080 | 1 | 5/6/2008 | |
| Isophorone | BQL | 0.314 | 0.046 | 1 | 5/6/2008 | |
| 2-Methylnaphthalene | BQL | 0.314 | 0.092 | 1 | 5/6/2008 | |
| 2-Methylphenol | BQL | 0.314 | 0.110 | 1 | 5/6/2008 | |
| 3- & 4-Methylphenol | BQL | 0.314 | 0.106 | 1 | 5/6/2008 | |

**Results for Semivolatiles**
**by GCMS 8270**

Client Sample ID: DPT-02
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-2I
Lab Project ID: G128-2183
Report Basis: Dry weight

Analyzed By: DES
Date Collected: 4/30/2008 11:00
Date Received: 5/1/2008
Date Extracted: 5/2/2008
Matrix: Soil
% Solids: 97.53

| Compound | Result mg/Kg | RL mg/Kg | MDL mg/Kg | Dilution Factor | Date Analyzed | Flag |
|---|---|---|---|---|---|---|
| Naphthalene | BQL | 0.314 | 0.025 | 1 | 5/6/2008 | |
| 2-Nitroaniline | BQL | 0.314 | 0.049 | 1 | 5/6/2008 | |
| 3-Nitroaniline | BQL | 1.57 | 0.323 | 1 | 5/6/2008 | |
| 4-Nitroaniline | BQL | 1.57 | 0.097 | 1 | 5/6/2008 | |
| Nitrobenzene | BQL | 0.314 | 0.042 | 1 | 5/6/2008 | |
| 2-Nitrophenol | BQL | 0.314 | 0.097 | 1 | 5/6/2008 | |
| 4-Nitrophenol | BQL | 1.57 | 0.087 | 1 | 5/6/2008 | |
| N-Nitrosodi-n-propylamine | BQL | 0.314 | 0.040 | 1 | 5/6/2008 | |
| Pentachlorophenol | BQL | 1.57 | 0.082 | 1 | 5/6/2008 | |
| Phenanthrene | BQL | 0.314 | 0.036 | 1 | 5/6/2008 | |
| Phenol | BQL | 0.314 | 0.086 | 1 | 5/6/2008 | |
| Pyrene | BQL | 0.314 | 0.060 | 1 | 5/6/2008 | |
| 1,2,4-Trichlorobenzene | BQL | 0.314 | 0.039 | 1 | 5/6/2008 | |
| 2,4,5-Trichlorophenol | BQL | 0.314 | 0.121 | 1 | 5/6/2008 | |
| 2,4,6-Trichlorophenol | BQL | 0.314 | 0.112 | 1 | 5/6/2008 | |

| | Spike Added | Spike Result | Percent Recovered |
|---|---|---|---|
| 2-Fluorobiphenyl | 10 | 9.5 | 95 |
| 2-Fluorophenol | 10 | 6.9 | 69 |
| Nitrobenzene-d5 | 10 | 9.7 | 97 |
| Phenol-d6 | 10 | 9.1 | 91 |
| 2,4,6-Tribromophenol | 10 | 8.5 | 85 |
| 4-Terphenyl-d14 | 10 | 10.7 | 107 |

**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
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-3I
Lab Project ID: G128-2183
Report Basis: Dry weight

Analyzed By: DES
Date Collected: 4/30/2008 11:15
Date Received: 5/1/2008
Date Extracted: 5/2/2008
Matrix: Soil
% Solids: 95.27

| Compound | Result mg/Kg | RL mg/Kg | MDL mg/Kg | Dilution Factor | Date Analyzed | Flag |
|---|---|---|---|---|---|---|
| Acenaphthene | BQL | 0.324 | 0.046 | 1 | 5/6/2008 | |
| Acenaphthylene | BQL | 0.324 | 0.043 | 1 | 5/6/2008 | |
| Anthracene | BQL | 0.324 | 0.047 | 1 | 5/6/2008 | |
| Benzo[a]anthracene | BQL | 0.324 | 0.056 | 1 | 5/6/2008 | |
| Benzo[a]pyrene | BQL | 0.324 | 0.050 | 1 | 5/6/2008 | |
| Benzo[b]fluoranthene | BQL | 0.324 | 0.057 | 1 | 5/6/2008 | |
| Benzo[g,h,i]perylene | BQL | 0.324 | 0.088 | 1 | 5/6/2008 | |
| Benzo[k]fluoranthene | BQL | 0.324 | 0.063 | 1 | 5/6/2008 | |
| Benzoic Acid | BQL | 0.649 | 0.649 | 1 | 5/6/2008 | |
| Bis(2-chloroethoxy)methane | BQL | 0.324 | 0.048 | 1 | 5/6/2008 | |
| Bis(2-chloroethyl)ether | BQL | 0.324 | 0.039 | 1 | 5/6/2008 | |
| Bis(2-chloroisopropyl)ether | BQL | 0.324 | 0.041 | 1 | 5/6/2008 | |
| Bis(2-ethylhexyl)phthalate | BQL | 0.324 | 0.044 | 1 | 5/6/2008 | |
| 4-bromophenyl phenyl ether | BQL | 0.324 | 0.055 | 1 | 5/6/2008 | |
| Butylbenzylphthalate | BQL | 0.324 | 0.050 | 1 | 5/6/2008 | |
| 2-Chloronaphthalene | BQL | 0.324 | 0.051 | 1 | 5/6/2008 | |
| 2-Chlorophenol | BQL | 0.324 | 0.101 | 1 | 5/6/2008 | |
| 4-Chloro-3-methylphenol | BQL | 0.324 | 0.101 | 1 | 5/6/2008 | |
| 4-Chloroaniline | BQL | 1.62 | 0.247 | 1 | 5/6/2008 | |
| 4-Chlorophenyl phenyl ether | BQL | 0.324 | 0.048 | 1 | 5/6/2008 | |
| Chrysene | BQL | 0.324 | 0.035 | 1 | 5/6/2008 | |
| Dibenzo[a,h]anthracene | BQL | 0.324 | 0.091 | 1 | 5/6/2008 | |
| Dibenzofuran | BQL | 0.324 | 0.059 | 1 | 5/6/2008 | |
| Di-n-Butylphthalate | BQL | 0.324 | 0.039 | 1 | 5/6/2008 | |
| 1,2-Dichlorobenzene | BQL | 0.324 | 0.036 | 1 | 5/6/2008 | |
| 1,3-Dichlorobenzene | BQL | 0.324 | 0.035 | 1 | 5/6/2008 | |
| 1,4-Dichlorobenzene | BQL | 0.324 | 0.037 | 1 | 5/6/2008 | |
| 3,3'-Dichlorobenzidine | BQL | 0.649 | 0.082 | 1 | 5/6/2008 | |
| 2,4-Dichlorophenol | BQL | 0.324 | 0.117 | 1 | 5/6/2008 | |
| Diethylphthalate | BQL | 0.324 | 0.042 | 1 | 5/6/2008 | |
| Dimethylphthalate | BQL | 0.324 | 0.039 | 1 | 5/6/2008 | |
| 2,4-Dimethylphenol | BQL | 0.324 | 0.232 | 1 | 5/6/2008 | |
| Di-n-octylphthalate | BQL | 0.324 | 0.054 | 1 | 5/6/2008 | |
| 4,6-Dinitro-2-methylphenol | BQL | 1.62 | 0.191 | 1 | 5/6/2008 | |
| 2,4-Dinitrophenol | BQL | 1.62 | 0.714 | 1 | 5/6/2008 | |
| 2,4-Dinitrotoluene | BQL | 0.324 | 0.042 | 1 | 5/6/2008 | |
| 2,6-Dinitrotoluene | BQL | 0.324 | 0.059 | 1 | 5/6/2008 | |
| Diphenylamine * | BQL | 0.324 | 0.032 | 1 | 5/6/2008 | |
| Fluoranthene | BQL | 0.324 | 0.045 | 1 | 5/6/2008 | |
| Fluorene | BQL | 0.324 | 0.040 | 1 | 5/6/2008 | |
| Hexachlorobenzene | BQL | 0.324 | 0.050 | 1 | 5/6/2008 | |
| Hexachlorobutadiene | BQL | 0.324 | 0.052 | 1 | 5/6/2008 | |
| Hexachlorocyclopentadiene | BQL | 0.649 | 0.033 | 1 | 5/6/2008 | |
| Hexachloroethane | BQL | 0.324 | 0.029 | 1 | 5/6/2008 | |
| Indeno(1,2,3-c,d)pyrene | BQL | 0.324 | 0.083 | 1 | 5/6/2008 | |
| Isophorone | BQL | 0.324 | 0.048 | 1 | 5/6/2008 | |
| 2-Methylnaphthalene | BQL | 0.324 | 0.095 | 1 | 5/6/2008 | |
| 2-Methylphenol | BQL | 0.324 | 0.114 | 1 | 5/6/2008 | |
| 3- & 4-Methylphenol | BQL | 0.324 | 0.110 | 1 | 5/6/2008 | |

**Results for Semivolatiles**
**by GCMS 8270**

Client Sample ID: DPT-03
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-3I
Lab Project ID: G128-2183
Report Basis: Dry weight

Analyzed By: DES
Date Collected: 4/30/2008 11:15
Date Received: 5/1/2008
Date Extracted: 5/2/2008
Matrix: Soil
% Solids: 95.27

| Compound | Result mg/Kg | RL mg/Kg | MDL mg/Kg | Dilution Factor | Date Analyzed | Flag |
|---|---|---|---|---|---|---|
| Naphthalene | BQL | 0.324 | 0.026 | 1 | 5/6/2008 | |
| 2-Nitroaniline | BQL | 0.324 | 0.051 | 1 | 5/6/2008 | |
| 3-Nitroaniline | BQL | 1.62 | 0.334 | 1 | 5/6/2008 | |
| 4-Nitroaniline | BQL | 1.62 | 0.100 | 1 | 5/6/2008 | |
| Nitrobenzene | BQL | 0.324 | 0.044 | 1 | 5/6/2008 | |
| 2-Nitrophenol | BQL | 0.324 | 0.101 | 1 | 5/6/2008 | |
| 4-Nitrophenol | BQL | 1.62 | 0.090 | 1 | 5/6/2008 | |
| N-Nitrosodi-n-propylamine | BQL | 0.324 | 0.041 | 1 | 5/6/2008 | |
| Pentachlorophenol | BQL | 1.62 | 0.085 | 1 | 5/6/2008 | |
| Phenanthrene | BQL | 0.324 | 0.037 | 1 | 5/6/2008 | |
| Phenol | BQL | 0.324 | 0.089 | 1 | 5/6/2008 | |
| Pyrene | BQL | 0.324 | 0.062 | 1 | 5/6/2008 | |
| 1,2,4-Trichlorobenzene | BQL | 0.324 | 0.041 | 1 | 5/6/2008 | |
| 2,4,5-Trichlorophenol | BQL | 0.324 | 0.125 | 1 | 5/6/2008 | |
| 2,4,6-Trichlorophenol | BQL | 0.324 | 0.115 | 1 | 5/6/2008 | |

| | Spike Added | Spike Result | Percent Recovered |
|---|---|---|---|
| 2-Fluorobiphenyl | 10 | 9 | 90 |
| 2-Fluorophenol | 10 | 6.8 | 68 |
| Nitrobenzene-d5 | 10 | 9.3 | 93 |
| Phenol-d6 | 10 | 8.7 | 87 |
| 2,4,6-Tribromophenol | 10 | 8.8 | 88 |
| 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:

## Results for Semivolatiles by GCMS 8270

Client Sample ID: DPT-04
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-4I
Lab Project ID: G128-2183
Report Basis: Dry weight

Analyzed By: DES
Date Collected: 4/30/2008 11:25
Date Received: 5/1/2008
Date Extracted: 5/2/2008
Matrix: Soil
% Solids: 95.6

| Compound | Result mg/Kg | RL mg/Kg | MDL mg/Kg | Dilution Factor | Date Analyzed | Flag |
|---|---|---|---|---|---|---|
| Acenaphthene | BQL | 0.312 | 0.045 | 1 | 5/6/2008 | |
| Acenaphthylene | BQL | 0.312 | 0.042 | 1 | 5/6/2008 | |
| Anthracene | BQL | 0.312 | 0.045 | 1 | 5/6/2008 | |
| Benzo[a]anthracene | BQL | 0.312 | 0.054 | 1 | 5/6/2008 | |
| Benzo[a]pyrene | BQL | 0.312 | 0.048 | 1 | 5/6/2008 | |
| Benzo[b]fluoranthene | BQL | 0.312 | 0.055 | 1 | 5/6/2008 | |
| Benzo[g,h,i]perylene | BQL | 0.312 | 0.085 | 1 | 5/6/2008 | |
| Benzo[k]fluoranthene | BQL | 0.312 | 0.060 | 1 | 5/6/2008 | |
| Benzoic Acid | BQL | 0.623 | 0.623 | 1 | 5/6/2008 | |
| Bis(2-chloroethoxy)methane | BQL | 0.312 | 0.046 | 1 | 5/6/2008 | |
| Bis(2-chloroethyl)ether | BQL | 0.312 | 0.038 | 1 | 5/6/2008 | |
| Bis(2-chloroisopropyl)ether | BQL | 0.312 | 0.039 | 1 | 5/6/2008 | |
| Bis(2-ethylhexyl)phthalate | BQL | 0.312 | 0.042 | 1 | 5/6/2008 | |
| 4-bromophenyl phenyl ether | BQL | 0.312 | 0.053 | 1 | 5/6/2008 | |
| Butylbenzylphthalate | BQL | 0.312 | 0.048 | 1 | 5/6/2008 | |
| 2-Chloronaphthalene | BQL | 0.312 | 0.049 | 1 | 5/6/2008 | |
| 2-Chlorophenol | BQL | 0.312 | 0.098 | 1 | 5/6/2008 | |
| 4-Chloro-3-methylphenol | BQL | 0.312 | 0.097 | 1 | 5/6/2008 | |
| 4-Chloroaniline | BQL | 1.56 | 0.238 | 1 | 5/6/2008 | |
| 4-Chlorophenyl phenyl ether | BQL | 0.312 | 0.046 | 1 | 5/6/2008 | |
| Chrysene | BQL | 0.312 | 0.034 | 1 | 5/6/2008 | |
| Dibenzo[a,h]anthracene | BQL | 0.312 | 0.087 | 1 | 5/6/2008 | |
| Dibenzofuran | BQL | 0.312 | 0.057 | 1 | 5/6/2008 | |
| Di-n-Butylphthalate | BQL | 0.312 | 0.037 | 1 | 5/6/2008 | |
| 1,2-Dichlorobenzene | BQL | 0.312 | 0.035 | 1 | 5/6/2008 | |
| 1,3-Dichlorobenzene | BQL | 0.312 | 0.034 | 1 | 5/6/2008 | |
| 1,4-Dichlorobenzene | BQL | 0.312 | 0.035 | 1 | 5/6/2008 | |
| 3,3'-Dichlorobenzidine | BQL | 0.623 | 0.079 | 1 | 5/6/2008 | |
| 2,4-Dichlorophenol | BQL | 0.312 | 0.112 | 1 | 5/6/2008 | |
| Diethylphthalate | BQL | 0.312 | 0.040 | 1 | 5/6/2008 | |
| Dimethylphthalate | BQL | 0.312 | 0.038 | 1 | 5/6/2008 | |
| 2,4-Dimethylphenol | BQL | 0.312 | 0.223 | 1 | 5/6/2008 | |
| Di-n-octylphthalate | BQL | 0.312 | 0.051 | 1 | 5/6/2008 | |
| 4,6-Dinitro-2-methylphenol | BQL | 1.56 | 0.184 | 1 | 5/6/2008 | |
| 2,4-Dinitrophenol | BQL | 1.56 | 0.686 | 1 | 5/6/2008 | |
| 2,4-Dinitrotoluene | BQL | 0.312 | 0.041 | 1 | 5/6/2008 | |
| 2,6-Dinitrotoluene | BQL | 0.312 | 0.057 | 1 | 5/6/2008 | |
| Diphenylamine * | BQL | 0.312 | 0.031 | 1 | 5/6/2008 | |
| Fluoranthene | BQL | 0.312 | 0.044 | 1 | 5/6/2008 | |
| Fluorene | BQL | 0.312 | 0.039 | 1 | 5/6/2008 | |
| Hexachlorobenzene | BQL | 0.312 | 0.048 | 1 | 5/6/2008 | |
| Hexachlorobutadiene | BQL | 0.312 | 0.050 | 1 | 5/6/2008 | |
| Hexachlorocyclopentadiene | BQL | 0.623 | 0.032 | 1 | 5/6/2008 | |
| Hexachloroethane | BQL | 0.312 | 0.028 | 1 | 5/6/2008 | |
| Indeno(1,2,3-c,d)pyrene | BQL | 0.312 | 0.080 | 1 | 5/6/2008 | |
| Isophorone | BQL | 0.312 | 0.046 | 1 | 5/6/2008 | |
| 2-Methylnaphthalene | BQL | 0.312 | 0.091 | 1 | 5/6/2008 | |
| 2-Methylphenol | BQL | 0.312 | 0.110 | 1 | 5/6/2008 | |
| 3- & 4-Methylphenol | BQL | 0.312 | 0.106 | 1 | 5/6/2008 | |

**Results for Semivolatiles**
**by GCMS 8270**

Client Sample ID: DPT-04
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-4I
Lab Project ID: G128-2183
Report Basis: Dry weight

Analyzed By: DES
Date Collected: 4/30/2008 11:25
Date Received: 5/1/2008
Date Extracted: 5/2/2008
Matrix: Soil
% Solids: 95.6

| Compound | Result mg/Kg | RL mg/Kg | MDL mg/Kg | Dilution Factor | Date Analyzed | Flag |
|---|---|---|---|---|---|---|
| Naphthalene | BQL | 0.312 | 0.025 | 1 | 5/6/2008 | |
| 2-Nitroaniline | BQL | 0.312 | 0.049 | 1 | 5/6/2008 | |
| 3-Nitroaniline | BQL | 1.56 | 0.321 | 1 | 5/6/2008 | |
| 4-Nitroaniline | BQL | 1.56 | 0.096 | 1 | 5/6/2008 | |
| Nitrobenzene | BQL | 0.312 | 0.042 | 1 | 5/6/2008 | |
| 2-Nitrophenol | BQL | 0.312 | 0.097 | 1 | 5/6/2008 | |
| 4-Nitrophenol | BQL | 1.56 | 0.086 | 1 | 5/6/2008 | |
| N-Nitrosodi-n-propylamine | BQL | 0.312 | 0.040 | 1 | 5/6/2008 | |
| Pentachlorophenol | BQL | 1.56 | 0.081 | 1 | 5/6/2008 | |
| Phenanthrene | BQL | 0.312 | 0.036 | 1 | 5/6/2008 | |
| Phenol | BQL | 0.312 | 0.085 | 1 | 5/6/2008 | |
| Pyrene | BQL | 0.312 | 0.060 | 1 | 5/6/2008 | |
| 1,2,4-Trichlorobenzene | BQL | 0.312 | 0.039 | 1 | 5/6/2008 | |
| 2,4,5-Trichlorophenol | BQL | 0.312 | 0.121 | 1 | 5/6/2008 | |
| 2,4,6-Trichlorophenol | BQL | 0.312 | 0.111 | 1 | 5/6/2008 | |

| | Spike Added | Spike Result | Percent Recovered |
|---|---|---|---|
| 2-Fluorobiphenyl | 10 | 9.1 | 91 |
| 2-Fluorophenol | 10 | 6.7 | 67 |
| Nitrobenzene-d5 | 10 | 9.1 | 91 |
| Phenol-d6 | 10 | 8.9 | 89 |
| 2,4,6-Tribromophenol | 10 | 8.7 | 87 |
| 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-05
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-5l
Lab Project ID: G128-2183
Report Basis: Dry weight

Analyzed By: DES
Date Collected: 4/30/2008 11:40
Date Received: 5/1/2008
Date Extracted: 5/2/2008
Matrix: Soil
% Solids: 93.76

| Compound | Result mg/Kg | RL mg/Kg | MDL mg/Kg | Dilution Factor | Date Analyzed | Flag |
|---|---|---|---|---|---|---|
| Acenaphthene | BQL | 0.328 | 0.047 | 1 | 5/6/2008 | |
| Acenaphthylene | BQL | 0.328 | 0.044 | 1 | 5/6/2008 | |
| Anthracene | BQL | 0.328 | 0.048 | 1 | 5/6/2008 | |
| Benzo[a]anthracene | BQL | 0.328 | 0.057 | 1 | 5/6/2008 | |
| Benzo[a]pyrene | BQL | 0.328 | 0.050 | 1 | 5/6/2008 | |
| Benzo[b]fluoranthene | BQL | 0.328 | 0.057 | 1 | 5/6/2008 | |
| Benzo[g,h,i]perylene | BQL | 0.328 | 0.089 | 1 | 5/6/2008 | |
| Benzo[k]fluoranthene | BQL | 0.328 | 0.063 | 1 | 5/6/2008 | |
| Benzoic Acid | BQL | 0.655 | 0.655 | 1 | 5/6/2008 | |
| Bis(2-chloroethoxy)methane | BQL | 0.328 | 0.049 | 1 | 5/6/2008 | |
| Bis(2-chloroethyl)ether | BQL | 0.328 | 0.040 | 1 | 5/6/2008 | |
| Bis(2-chloroisopropyl)ether | BQL | 0.328 | 0.041 | 1 | 5/6/2008 | |
| Bis(2-ethylhexyl)phthalate | BQL | 0.328 | 0.044 | 1 | 5/6/2008 | |
| 4-bromophenyl phenyl ether | BQL | 0.328 | 0.055 | 1 | 5/6/2008 | |
| Butylbenzylphthalate | BQL | 0.328 | 0.051 | 1 | 5/6/2008 | |
| 2-Chloronaphthalene | BQL | 0.328 | 0.051 | 1 | 5/6/2008 | |
| 2-Chlorophenol | BQL | 0.328 | 0.103 | 1 | 5/6/2008 | |
| 4-Chloro-3-methylphenol | BQL | 0.328 | 0.102 | 1 | 5/6/2008 | |
| 4-Chloroaniline | BQL | 1.64 | 0.250 | 1 | 5/6/2008 | |
| 4-Chlorophenyl phenyl ether | BQL | 0.328 | 0.048 | 1 | 5/6/2008 | |
| Chrysene | BQL | 0.328 | 0.035 | 1 | 5/6/2008 | |
| Dibenzo[a,h]anthracene | BQL | 0.328 | 0.092 | 1 | 5/6/2008 | |
| Dibenzofuran | BQL | 0.328 | 0.060 | 1 | 5/6/2008 | |
| Di-n-Butylphthalate | BQL | 0.328 | 0.039 | 1 | 5/6/2008 | |
| 1,2-Dichlorobenzene | BQL | 0.328 | 0.036 | 1 | 5/6/2008 | |
| 1,3-Dichlorobenzene | BQL | 0.328 | 0.036 | 1 | 5/6/2008 | |
| 1,4-Dichlorobenzene | BQL | 0.328 | 0.037 | 1 | 5/6/2008 | |
| 3,3'-Dichlorobenzidine | BQL | 0.655 | 0.083 | 1 | 5/6/2008 | |
| 2,4-Dichlorophenol | BQL | 0.328 | 0.118 | 1 | 5/6/2008 | |
| Diethylphthalate | BQL | 0.328 | 0.042 | 1 | 5/6/2008 | |
| Dimethylphthalate | BQL | 0.328 | 0.040 | 1 | 5/6/2008 | |
| 2,4-Dimethylphenol | BQL | 0.328 | 0.234 | 1 | 5/6/2008 | |
| Di-n-octylphthalate | BQL | 0.328 | 0.054 | 1 | 5/6/2008 | |
| 4,6-Dinitro-2-methylphenol | BQL | 1.64 | 0.193 | 1 | 5/6/2008 | |
| 2,4-Dinitrophenol | BQL | 1.64 | 0.722 | 1 | 5/6/2008 | |
| 2,4-Dinitrotoluene | BQL | 0.328 | 0.043 | 1 | 5/6/2008 | |
| 2,6-Dinitrotoluene | BQL | 0.328 | 0.060 | 1 | 5/6/2008 | |
| Diphenylamine * | BQL | 0.328 | 0.032 | 1 | 5/6/2008 | |
| Fluoranthene | BQL | 0.328 | 0.046 | 1 | 5/6/2008 | |
| Fluorene | BQL | 0.328 | 0.041 | 1 | 5/6/2008 | |
| Hexachlorobenzene | BQL | 0.328 | 0.051 | 1 | 5/6/2008 | |
| Hexachlorobutadiene | BQL | 0.328 | 0.052 | 1 | 5/6/2008 | |
| Hexachlorocyclopentadiene | BQL | 0.655 | 0.034 | 1 | 5/6/2008 | |
| Hexachloroethane | BQL | 0.328 | 0.030 | 1 | 5/6/2008 | |
| Indeno(1,2,3-c,d)pyrene | BQL | 0.328 | 0.084 | 1 | 5/6/2008 | |
| Isophorone | BQL | 0.328 | 0.048 | 1 | 5/6/2008 | |
| 2-Methylnaphthalene | BQL | 0.328 | 0.096 | 1 | 5/6/2008 | |
| 2-Methylphenol | BQL | 0.328 | 0.115 | 1 | 5/6/2008 | |
| 3- & 4-Methylphenol | BQL | 0.328 | 0.111 | 1 | 5/6/2008 | |

**Results for Semivolatiles**
**by GCMS 8270**

Client Sample ID: DPT-05
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-5I
Lab Project ID: G128-2183
Report Basis: Dry weight

Analyzed By: DES
Date Collected: 4/30/2008 11:40
Date Received: 5/1/2008
Date Extracted: 5/2/2008
Matrix: Soil
% Solids: 93.76

| Compound | Result mg/Kg | RL mg/Kg | MDL mg/Kg | Dilution Factor | Date Analyzed | Flag |
|---|---|---|---|---|---|---|
| Naphthalene | BQL | 0.328 | 0.027 | 1 | 5/6/2008 | |
| 2-Nitroaniline | BQL | 0.328 | 0.051 | 1 | 5/6/2008 | |
| 3-Nitroaniline | BQL | 1.64 | 0.337 | 1 | 5/6/2008 | |
| 4-Nitroaniline | BQL | 1.64 | 0.101 | 1 | 5/6/2008 | |
| Nitrobenzene | BQL | 0.328 | 0.044 | 1 | 5/6/2008 | |
| 2-Nitrophenol | BQL | 0.328 | 0.102 | 1 | 5/6/2008 | |
| 4-Nitrophenol | BQL | 1.64 | 0.091 | 1 | 5/6/2008 | |
| N-Nitrosodi-n-propylamine | BQL | 0.328 | 0.042 | 1 | 5/6/2008 | |
| Pentachlorophenol | BQL | 1.64 | 0.086 | 1 | 5/6/2008 | |
| Phenanthrene | BQL | 0.328 | 0.037 | 1 | 5/6/2008 | |
| Phenol | BQL | 0.328 | 0.090 | 1 | 5/6/2008 | |
| Pyrene | BQL | 0.328 | 0.063 | 1 | 5/6/2008 | |
| 1,2,4-Trichlorobenzene | BQL | 0.328 | 0.041 | 1 | 5/6/2008 | |
| 2,4,5-Trichlorophenol | BQL | 0.328 | 0.127 | 1 | 5/6/2008 | |
| 2,4,6-Trichlorophenol | BQL | 0.328 | 0.117 | 1 | 5/6/2008 | |

| | Spike Added | Spike Result | Percent Recovered |
|---|---|---|---|
| 2-Fluorobiphenyl | 10 | 9.3 | 93 |
| 2-Fluorophenol | 10 | 6.6 | 66 |
| Nitrobenzene-d5 | 10 | 9.5 | 95 |
| Phenol-d6 | 10 | 8.9 | 89 |
| 2,4,6-Tribromophenol | 10 | 8.7 | 87 |
| 4-Terphenyl-d14 | 10 | 10.7 | 107 |

**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-06
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-6I
Lab Project ID: G128-2183
Report Basis: Dry weight

Analyzed By: DES
Date Collected: 4/30/2008 11:50
Date Received: 5/1/2008
Date Extracted: 5/2/2008
Matrix: Soil
% Solids: 95.25

| Compound | Result mg/Kg | RL mg/Kg | MDL mg/Kg | Dilution Factor | Date Analyzed | Flag |
|---|---|---|---|---|---|---|
| Acenaphthene | BQL | 0.322 | 0.046 | 1 | 5/6/2008 | |
| Acenaphthylene | BQL | 0.322 | 0.043 | 1 | 5/6/2008 | |
| Anthracene | BQL | 0.322 | 0.047 | 1 | 5/6/2008 | |
| Benzo[a]anthracene | BQL | 0.322 | 0.056 | 1 | 5/6/2008 | |
| Benzo[a]pyrene | BQL | 0.322 | 0.049 | 1 | 5/6/2008 | |
| Benzo[b]fluoranthene | BQL | 0.322 | 0.056 | 1 | 5/6/2008 | |
| Benzo[g,h,i]perylene | BQL | 0.322 | 0.088 | 1 | 5/6/2008 | |
| Benzo[k]fluoranthene | BQL | 0.322 | 0.062 | 1 | 5/6/2008 | |
| Benzoic Acid | BQL | 0.644 | 0.644 | 1 | 5/6/2008 | |
| Bis(2-chloroethoxy)methane | BQL | 0.322 | 0.048 | 1 | 5/6/2008 | |
| Bis(2-chloroethyl)ether | BQL | 0.322 | 0.039 | 1 | 5/6/2008 | |
| Bis(2-chloroisopropyl)ether | BQL | 0.322 | 0.040 | 1 | 5/6/2008 | |
| Bis(2-ethylhexyl)phthalate | BQL | 0.322 | 0.043 | 1 | 5/6/2008 | |
| 4-bromophenyl phenyl ether | BQL | 0.322 | 0.054 | 1 | 5/6/2008 | |
| Butylbenzylphthalate | BQL | 0.322 | 0.050 | 1 | 5/6/2008 | |
| 2-Chloronaphthalene | BQL | 0.322 | 0.051 | 1 | 5/6/2008 | |
| 2-Chlorophenol | BQL | 0.322 | 0.101 | 1 | 5/6/2008 | |
| 4-Chloro-3-methylphenol | BQL | 0.322 | 0.100 | 1 | 5/6/2008 | |
| 4-Chloroaniline | BQL | 1.61 | 0.245 | 1 | 5/6/2008 | |
| 4-Chlorophenyl phenyl ether | BQL | 0.322 | 0.047 | 1 | 5/6/2008 | |
| Chrysene | BQL | 0.322 | 0.035 | 1 | 5/6/2008 | |
| Dibenzo[a,h]anthracene | BQL | 0.322 | 0.090 | 1 | 5/6/2008 | |
| Dibenzofuran | BQL | 0.322 | 0.059 | 1 | 5/6/2008 | |
| Di-n-Butylphthalate | BQL | 0.322 | 0.038 | 1 | 5/6/2008 | |
| 1,2-Dichlorobenzene | BQL | 0.322 | 0.036 | 1 | 5/6/2008 | |
| 1,3-Dichlorobenzene | BQL | 0.322 | 0.035 | 1 | 5/6/2008 | |
| 1,4-Dichlorobenzene | BQL | 0.322 | 0.036 | 1 | 5/6/2008 | |
| 3,3'-Dichlorobenzidine | BQL | 0.644 | 0.081 | 1 | 5/6/2008 | |
| 2,4-Dichlorophenol | BQL | 0.322 | 0.116 | 1 | 5/6/2008 | |
| Diethylphthalate | BQL | 0.322 | 0.042 | 1 | 5/6/2008 | |
| Dimethylphthalate | BQL | 0.322 | 0.039 | 1 | 5/6/2008 | |
| 2,4-Dimethylphenol | BQL | 0.322 | 0.230 | 1 | 5/6/2008 | |
| Di-n-octylphthalate | BQL | 0.322 | 0.053 | 1 | 5/6/2008 | |
| 4,6-Dinitro-2-methylphenol | BQL | 1.61 | 0.190 | 1 | 5/6/2008 | |
| 2,4-Dinitrophenol | BQL | 1.61 | 0.709 | 1 | 5/6/2008 | |
| 2,4-Dinitrotoluene | BQL | 0.322 | 0.042 | 1 | 5/6/2008 | |
| 2,6-Dinitrotoluene | BQL | 0.322 | 0.059 | 1 | 5/6/2008 | |
| Diphenylamine * | BQL | 0.322 | 0.032 | 1 | 5/6/2008 | |
| Fluoranthene | BQL | 0.322 | 0.045 | 1 | 5/6/2008 | |
| Fluorene | BQL | 0.322 | 0.040 | 1 | 5/6/2008 | |
| Hexachlorobenzene | BQL | 0.322 | 0.050 | 1 | 5/6/2008 | |
| Hexachlorobutadiene | BQL | 0.322 | 0.052 | 1 | 5/6/2008 | |
| Hexachlorocyclopentadiene | BQL | 0.644 | 0.033 | 1 | 5/6/2008 | |
| Hexachloroethane | BQL | 0.322 | 0.029 | 1 | 5/6/2008 | |
| Indeno(1,2,3-c,d)pyrene | BQL | 0.322 | 0.082 | 1 | 5/6/2008 | |
| Isophorone | BQL | 0.322 | 0.047 | 1 | 5/6/2008 | |
| 2-Methylnaphthalene | BQL | 0.322 | 0.094 | 1 | 5/6/2008 | |
| 2-Methylphenol | BQL | 0.322 | 0.113 | 1 | 5/6/2008 | |
| 3- & 4-Methylphenol | BQL | 0.322 | 0.109 | 1 | 5/6/2008 | |

**Results for Semivolatiles**
**by GCMS 8270**

Client Sample ID: DPT-06
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-6l
Lab Project ID: G128-2183
Report Basis: Dry weight

Analyzed By: DES
Date Collected: 4/30/2008 11:50
Date Received: 5/1/2008
Date Extracted: 5/2/2008
Matrix: Soil
% Solids: 95.25

| Compound | Result mg/Kg | RL mg/Kg | MDL mg/Kg | Dilution Factor | Date Analyzed | Flag |
|---|---|---|---|---|---|---|
| Naphthalene | BQL | 0.322 | 0.026 | 1 | 5/6/2008 | |
| 2-Nitroaniline | BQL | 0.322 | 0.051 | 1 | 5/6/2008 | |
| 3-Nitroaniline | BQL | 1.61 | 0.332 | 1 | 5/6/2008 | |
| 4-Nitroaniline | BQL | 1.61 | 0.099 | 1 | 5/6/2008 | |
| Nitrobenzene | BQL | 0.322 | 0.044 | 1 | 5/6/2008 | |
| 2-Nitrophenol | BQL | 0.322 | 0.100 | 1 | 5/6/2008 | |
| 4-Nitrophenol | BQL | 1.61 | 0.089 | 1 | 5/6/2008 | |
| N-Nitrosodi-n-propylamine | BQL | 0.322 | 0.041 | 1 | 5/6/2008 | |
| Pentachlorophenol | BQL | 1.61 | 0.084 | 1 | 5/6/2008 | |
| Phenanthrene | BQL | 0.322 | 0.037 | 1 | 5/6/2008 | |
| Phenol | BQL | 0.322 | 0.088 | 1 | 5/6/2008 | |
| Pyrene | BQL | 0.322 | 0.062 | 1 | 5/6/2008 | |
| 1,2,4-Trichlorobenzene | BQL | 0.322 | 0.040 | 1 | 5/6/2008 | |
| 2,4,5-Trichlorophenol | BQL | 0.322 | 0.125 | 1 | 5/6/2008 | |
| 2,4,6-Trichlorophenol | BQL | 0.322 | 0.115 | 1 | 5/6/2008 | |

| | Spike Added | Spike Result | Percent Recovered |
|---|---|---|---|
| 2-Fluorobiphenyl | 10 | 9.2 | 92 |
| 2-Fluorophenol | 10 | 6.3 | 63 |
| Nitrobenzene-d5 | 10 | 9.2 | 92 |
| Phenol-d6 | 10 | 8.5 | 85 |
| 2,4,6-Tribromophenol | 10 | 8.3 | 83 |
| 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:

**Results for Semivolatiles**
**by GCMS 8270**

Client Sample ID: DPT-07
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-7I
Lab Project ID: G128-2183
Report Basis: Dry weight

Analyzed By: DES
Date Collected: 4/30/2008 12:15
Date Received: 5/1/2008
Date Extracted: 5/2/2008
Matrix: Soil
% Solids: 93.35

| Compound | Result mg/Kg | RL mg/Kg | MDL mg/Kg | Dilution Factor | Date Analyzed | Flag |
|---|---|---|---|---|---|---|
| Acenaphthene | BQL | 0.330 | 0.047 | 1 | 5/6/2008 | |
| Acenaphthylene | BQL | 0.330 | 0.044 | 1 | 5/6/2008 | |
| Anthracene | BQL | 0.330 | 0.048 | 1 | 5/6/2008 | |
| Benzo[a]anthracene | BQL | 0.330 | 0.057 | 1 | 5/6/2008 | |
| Benzo[a]pyrene | BQL | 0.330 | 0.051 | 1 | 5/6/2008 | |
| Benzo[b]fluoranthene | BQL | 0.330 | 0.058 | 1 | 5/6/2008 | |
| Benzo[g,h,i]perylene | BQL | 0.330 | 0.090 | 1 | 5/6/2008 | |
| Benzo[k]fluoranthene | BQL | 0.330 | 0.064 | 1 | 5/6/2008 | |
| Benzoic Acid | BQL | 0.660 | 0.660 | 1 | 5/6/2008 | |
| Bis(2-chloroethoxy)methane | BQL | 0.330 | 0.049 | 1 | 5/6/2008 | |
| Bis(2-chloroethyl)ether | BQL | 0.330 | 0.040 | 1 | 5/6/2008 | |
| Bis(2-chloroisopropyl)ether | BQL | 0.330 | 0.041 | 1 | 5/6/2008 | |
| Bis(2-ethylhexyl)phthalate | BQL | 0.330 | 0.044 | 1 | 5/6/2008 | |
| 4-bromophenyl phenyl ether | BQL | 0.330 | 0.056 | 1 | 5/6/2008 | |
| Butylbenzylphthalate | BQL | 0.330 | 0.051 | 1 | 5/6/2008 | |
| 2-Chloronaphthalene | BQL | 0.330 | 0.052 | 1 | 5/6/2008 | |
| 2-Chlorophenol | BQL | 0.330 | 0.103 | 1 | 5/6/2008 | |
| 4-Chloro-3-methylphenol | BQL | 0.330 | 0.103 | 1 | 5/6/2008 | |
| 4-Chloroaniline | BQL | 1.65 | 0.251 | 1 | 5/6/2008 | |
| 4-Chlorophenyl phenyl ether | BQL | 0.330 | 0.049 | 1 | 5/6/2008 | |
| Chrysene | BQL | 0.330 | 0.036 | 1 | 5/6/2008 | |
| Dibenzo[a,h]anthracene | BQL | 0.330 | 0.092 | 1 | 5/6/2008 | |
| Dibenzofuran | BQL | 0.330 | 0.060 | 1 | 5/6/2008 | |
| Di-n-Butylphthalate | BQL | 0.330 | 0.039 | 1 | 5/6/2008 | |
| 1,2-Dichlorobenzene | BQL | 0.330 | 0.037 | 1 | 5/6/2008 | |
| 1,3-Dichlorobenzene | BQL | 0.330 | 0.036 | 1 | 5/6/2008 | |
| 1,4-Dichlorobenzene | BQL | 0.330 | 0.037 | 1 | 5/6/2008 | |
| 3,3'-Dichlorobenzidine | BQL | 0.660 | 0.083 | 1 | 5/6/2008 | |
| 2,4-Dichlorophenol | BQL | 0.330 | 0.119 | 1 | 5/6/2008 | |
| Diethylphthalate | BQL | 0.330 | 0.043 | 1 | 5/6/2008 | |
| Dimethylphthalate | BQL | 0.330 | 0.040 | 1 | 5/6/2008 | |
| 2,4-Dimethylphenol | BQL | 0.330 | 0.236 | 1 | 5/6/2008 | |
| Di-n-octylphthalate | BQL | 0.330 | 0.054 | 1 | 5/6/2008 | |
| 4,6-Dinitro-2-methylphenol | BQL | 1.65 | 0.194 | 1 | 5/6/2008 | |
| 2,4-Dinitrophenol | BQL | 1.65 | 0.726 | 1 | 5/6/2008 | |
| 2,4-Dinitrotoluene | BQL | 0.330 | 0.043 | 1 | 5/6/2008 | |
| 2,6-Dinitrotoluene | BQL | 0.330 | 0.060 | 1 | 5/6/2008 | |
| Diphenylamine * | BQL | 0.330 | 0.032 | 1 | 5/6/2008 | |
| Fluoranthene | BQL | 0.330 | 0.046 | 1 | 5/6/2008 | |
| Fluorene | BQL | 0.330 | 0.041 | 1 | 5/6/2008 | |
| Hexachlorobenzene | BQL | 0.330 | 0.051 | 1 | 5/6/2008 | |
| Hexachlorobutadiene | BQL | 0.330 | 0.053 | 1 | 5/6/2008 | |
| Hexachlorocyclopentadiene | BQL | 0.660 | 0.034 | 1 | 5/6/2008 | |
| Hexachloroethane | BQL | 0.330 | 0.030 | 1 | 5/6/2008 | |
| Indeno(1,2,3-c,d)pyrene | BQL | 0.330 | 0.084 | 1 | 5/6/2008 | |
| Isophorone | BQL | 0.330 | 0.049 | 1 | 5/6/2008 | |
| 2-Methylnaphthalene | BQL | 0.330 | 0.096 | 1 | 5/6/2008 | |
| 2-Methylphenol | BQL | 0.330 | 0.116 | 1 | 5/6/2008 | |
| 3- & 4-Methylphenol | BQL | 0.330 | 0.112 | 1 | 5/6/2008 | |

**Results for Semivolatiles**
**by GCMS 8270**

Client Sample ID: DPT-07
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-7I
Lab Project ID: G128-2183
Report Basis: Dry weight

Analyzed By: DES
Date Collected: 4/30/2008 12:15
Date Received: 5/1/2008
Date Extracted: 5/2/2008
Matrix: Soil
% Solids: 93.35

| Compound | Result mg/Kg | RL mg/Kg | MDL mg/Kg | Dilution Factor | Date Analyzed | Flag |
|---|---|---|---|---|---|---|
| Naphthalene | BQL | 0.330 | 0.027 | 1 | 5/6/2008 | |
| 2-Nitroaniline | BQL | 0.330 | 0.052 | 1 | 5/6/2008 | |
| 3-Nitroaniline | BQL | 1.65 | 0.340 | 1 | 5/6/2008 | |
| 4-Nitroaniline | BQL | 1.65 | 0.102 | 1 | 5/6/2008 | |
| Nitrobenzene | BQL | 0.330 | 0.045 | 1 | 5/6/2008 | |
| 2-Nitrophenol | BQL | 0.330 | 0.102 | 1 | 5/6/2008 | |
| 4-Nitrophenol | BQL | 1.65 | 0.091 | 1 | 5/6/2008 | |
| N-Nitrosodi-n-propylamine | BQL | 0.330 | 0.042 | 1 | 5/6/2008 | |
| Pentachlorophenol | BQL | 1.65 | 0.086 | 1 | 5/6/2008 | |
| Phenanthrene | BQL | 0.330 | 0.038 | 1 | 5/6/2008 | |
| Phenol | BQL | 0.330 | 0.090 | 1 | 5/6/2008 | |
| Pyrene | BQL | 0.330 | 0.063 | 1 | 5/6/2008 | |
| 1,2,4-Trichlorobenzene | BQL | 0.330 | 0.041 | 1 | 5/6/2008 | |
| 2,4,5-Trichlorophenol | BQL | 0.330 | 0.128 | 1 | 5/6/2008 | |
| 2,4,6-Trichlorophenol | BQL | 0.330 | 0.117 | 1 | 5/6/2008 | |

| | Spike Added | Spike Result | Percent Recovered |
|---|---|---|---|
| 2-Fluorobiphenyl | 10 | 9.5 | 94 |
| 2-Fluorophenol | 10 | 6.6 | 66 |
| Nitrobenzene-d5 | 10 | 9.3 | 93 |
| Phenol-d6 | 10 | 8.7 | 87 |
| 2,4,6-Tribromophenol | 10 | 8.8 | 88 |
| 4-Terphenyl-d14 | 10 | 10.4 | 104 |

**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
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-8I
Lab Project ID: G128-2183
Report Basis: Dry weight

Analyzed By: DES
Date Collected: 4/30/2008 12:30
Date Received: 5/1/2008
Date Extracted: 5/2/2008
Matrix: Soil
% Solids: 96.92

| Compound | Result mg/Kg | RL mg/Kg | MDL mg/Kg | Dilution Factor | Date Analyzed | Flag |
|---|---|---|---|---|---|---|
| Acenaphthene | BQL | 0.310 | 0.044 | 1 | 5/6/2008 | |
| Acenaphthylene | BQL | 0.310 | 0.041 | 1 | 5/6/2008 | |
| Anthracene | BQL | 0.310 | 0.045 | 1 | 5/6/2008 | |
| Benzo[a]anthracene | BQL | 0.310 | 0.054 | 1 | 5/6/2008 | |
| Benzo[a]pyrene | BQL | 0.310 | 0.047 | 1 | 5/6/2008 | |
| Benzo[b]fluoranthene | BQL | 0.310 | 0.054 | 1 | 5/6/2008 | |
| Benzo[g,h,i]perylene | BQL | 0.310 | 0.084 | 1 | 5/6/2008 | |
| Benzo[k]fluoranthene | BQL | 0.310 | 0.060 | 1 | 5/6/2008 | |
| Benzoic Acid | BQL | 0.620 | 0.620 | 1 | 5/6/2008 | |
| Bis(2-chloroethoxy)methane | BQL | 0.310 | 0.046 | 1 | 5/6/2008 | |
| Bis(2-chloroethyl)ether | BQL | 0.310 | 0.038 | 1 | 5/6/2008 | |
| Bis(2-chloroisopropyl)ether | BQL | 0.310 | 0.039 | 1 | 5/6/2008 | |
| Bis(2-ethylhexyl)phthalate | BQL | 0.310 | 0.042 | 1 | 5/6/2008 | |
| 4-bromophenyl phenyl ether | BQL | 0.310 | 0.052 | 1 | 5/6/2008 | |
| Butylbenzylphthalate | BQL | 0.310 | 0.048 | 1 | 5/6/2008 | |
| 2-Chloronaphthalene | BQL | 0.310 | 0.049 | 1 | 5/6/2008 | |
| 2-Chlorophenol | BQL | 0.310 | 0.097 | 1 | 5/6/2008 | |
| 4-Chloro-3-methylphenol | BQL | 0.310 | 0.097 | 1 | 5/6/2008 | |
| 4-Chloroaniline | BQL | 1.55 | 0.236 | 1 | 5/6/2008 | |
| 4-Chlorophenyl phenyl ether | BQL | 0.310 | 0.046 | 1 | 5/6/2008 | |
| Chrysene | BQL | 0.310 | 0.034 | 1 | 5/6/2008 | |
| Dibenzo[a,h]anthracene | BQL | 0.310 | 0.087 | 1 | 5/6/2008 | |
| Dibenzofuran | BQL | 0.310 | 0.056 | 1 | 5/6/2008 | |
| Di-n-Butylphthalate | BQL | 0.310 | 0.037 | 1 | 5/6/2008 | |
| 1,2-Dichlorobenzene | BQL | 0.310 | 0.034 | 1 | 5/6/2008 | |
| 1,3-Dichlorobenzene | BQL | 0.310 | 0.034 | 1 | 5/6/2008 | |
| 1,4-Dichlorobenzene | BQL | 0.310 | 0.035 | 1 | 5/6/2008 | |
| 3,3'-Dichlorobenzidine | BQL | 0.620 | 0.078 | 1 | 5/6/2008 | |
| 2,4-Dichlorophenol | BQL | 0.310 | 0.112 | 1 | 5/6/2008 | |
| Diethylphthalate | BQL | 0.310 | 0.040 | 1 | 5/6/2008 | |
| Dimethylphthalate | BQL | 0.310 | 0.038 | 1 | 5/6/2008 | |
| 2,4-Dimethylphenol | BQL | 0.310 | 0.222 | 1 | 5/6/2008 | |
| Di-n-octylphthalate | BQL | 0.310 | 0.051 | 1 | 5/6/2008 | |
| 4,6-Dinitro-2-methylphenol | BQL | 1.55 | 0.182 | 1 | 5/6/2008 | |
| 2,4-Dinitrophenol | BQL | 1.55 | 0.682 | 1 | 5/6/2008 | |
| 2,4-Dinitrotoluene | BQL | 0.310 | 0.040 | 1 | 5/6/2008 | |
| 2,6-Dinitrotoluene | BQL | 0.310 | 0.056 | 1 | 5/6/2008 | |
| Diphenylamine * | BQL | 0.310 | 0.030 | 1 | 5/6/2008 | |
| Fluoranthene | BQL | 0.310 | 0.043 | 1 | 5/6/2008 | |
| Fluorene | BQL | 0.310 | 0.038 | 1 | 5/6/2008 | |
| Hexachlorobenzene | BQL | 0.310 | 0.048 | 1 | 5/6/2008 | |
| Hexachlorobutadiene | BQL | 0.310 | 0.050 | 1 | 5/6/2008 | |
| Hexachlorocyclopentadiene | BQL | 0.620 | 0.032 | 1 | 5/6/2008 | |
| Hexachloroethane | BQL | 0.310 | 0.028 | 1 | 5/6/2008 | |
| Indeno(1,2,3-c,d)pyrene | BQL | 0.310 | 0.079 | 1 | 5/6/2008 | |
| Isophorone | BQL | 0.310 | 0.046 | 1 | 5/6/2008 | |
| 2-Methylnaphthalene | BQL | 0.310 | 0.091 | 1 | 5/6/2008 | |
| 2-Methylphenol | BQL | 0.310 | 0.109 | 1 | 5/6/2008 | |
| 3- & 4-Methylphenol | BQL | 0.310 | 0.105 | 1 | 5/6/2008 | |

**Results for Semivolatiles**
**by GCMS 8270**

Client Sample ID: DPT-08
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-8I
Lab Project ID: G128-2183
Report Basis: Dry weight

Analyzed By: DES
Date Collected: 4/30/2008 12:30
Date Received: 5/1/2008
Date Extracted: 5/2/2008
Matrix: Soil
% Solids: 96.92

| Compound | Result mg/Kg | RL mg/Kg | MDL mg/Kg | Dilution Factor | Date Analyzed | Flag |
|---|---|---|---|---|---|---|
| Naphthalene | BQL | 0.310 | 0.025 | 1 | 5/6/2008 | |
| 2-Nitroaniline | BQL | 0.310 | 0.049 | 1 | 5/6/2008 | |
| 3-Nitroaniline | BQL | 1.55 | 0.319 | 1 | 5/6/2008 | |
| 4-Nitroaniline | BQL | 1.55 | 0.095 | 1 | 5/6/2008 | |
| Nitrobenzene | BQL | 0.310 | 0.042 | 1 | 5/6/2008 | |
| 2-Nitrophenol | BQL | 0.310 | 0.096 | 1 | 5/6/2008 | |
| 4-Nitrophenol | BQL | 1.55 | 0.086 | 1 | 5/6/2008 | |
| N-Nitrosodi-n-propylamine | BQL | 0.310 | 0.039 | 1 | 5/6/2008 | |
| Pentachlorophenol | BQL | 1.55 | 0.081 | 1 | 5/6/2008 | |
| Phenanthrene | BQL | 0.310 | 0.035 | 1 | 5/6/2008 | |
| Phenol | BQL | 0.310 | 0.085 | 1 | 5/6/2008 | |
| Pyrene | BQL | 0.310 | 0.060 | 1 | 5/6/2008 | |
| 1,2,4-Trichlorobenzene | BQL | 0.310 | 0.039 | 1 | 5/6/2008 | |
| 2,4,5-Trichlorophenol | BQL | 0.310 | 0.120 | 1 | 5/6/2008 | |
| 2,4,6-Trichlorophenol | BQL | 0.310 | 0.110 | 1 | 5/6/2008 | |

| | Spike Added | Spike Result | Percent Recovered |
|---|---|---|---|
| 2-Fluorobiphenyl | 10 | 8.5 | 85 |
| 2-Fluorophenol | 10 | 5.4 | 54 |
| Nitrobenzene-d5 | 10 | 8.3 | 83 |
| Phenol-d6 | 10 | 7.8 | 78 |
| 2,4,6-Tribromophenol | 10 | 7.3 | 73 |
| 4-Terphenyl-d14 | 10 | 9.5 | 95 |

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

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

Reviewed By:

SGS ENVIRONMENTAL SERVICES, INC.

## Results for Semivolatiles by GCMS 8270

Client Sample ID: DPT-09
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-9I
Lab Project ID: G128-2183
Report Basis: Dry weight

Analyzed By: DES
Date Collected: 4/30/2008 12:55
Date Received: 5/1/2008
Date Extracted: 5/2/2008
Matrix: Soil
% Solids: 94.67

| Compound | Result mg/Kg | RL mg/Kg | MDL mg/Kg | Dilution Factor | Date Analyzed | Flag |
|---|---|---|---|---|---|---|
| Acenaphthene | BQL | 0.316 | 0.045 | 1 | 5/6/2008 | |
| Acenaphthylene | BQL | 0.316 | 0.042 | 1 | 5/6/2008 | |
| Anthracene | BQL | 0.316 | 0.046 | 1 | 5/6/2008 | |
| Benzo[a]anthracene | **0.341** | 0.316 | 0.055 | 1 | 5/6/2008 | |
| Benzo[a]pyrene | **0.268** | 0.316 | 0.048 | 1 | 5/6/2008 | J |
| Benzo[b]fluoranthene | **0.429** | 0.316 | 0.055 | 1 | 5/6/2008 | |
| Benzo[g,h,i]perylene | **0.151** | 0.316 | 0.086 | 1 | 5/6/2008 | J |
| Benzo[k]fluoranthene | **0.180** | 0.316 | 0.061 | 1 | 5/6/2008 | J |
| Benzoic Acid | BQL | 0.631 | 0.631 | 1 | 5/6/2008 | |
| Bis(2-chloroethoxy)methane | BQL | 0.316 | 0.047 | 1 | 5/6/2008 | |
| Bis(2-chloroethyl)ether | BQL | 0.316 | 0.038 | 1 | 5/6/2008 | |
| Bis(2-chloroisopropyl)ether | BQL | 0.316 | 0.039 | 1 | 5/6/2008 | |
| Bis(2-ethylhexyl)phthalate | BQL | 0.316 | 0.042 | 1 | 5/6/2008 | |
| 4-bromophenyl phenyl ether | BQL | 0.316 | 0.053 | 1 | 5/6/2008 | |
| Butylbenzylphthalate | BQL | 0.316 | 0.049 | 1 | 5/6/2008 | |
| 2-Chloronaphthalene | BQL | 0.316 | 0.050 | 1 | 5/6/2008 | |
| 2-Chlorophenol | BQL | 0.316 | 0.099 | 1 | 5/6/2008 | |
| 4-Chloro-3-methylphenol | BQL | 0.316 | 0.098 | 1 | 5/6/2008 | |
| 4-Chloroaniline | BQL | 1.58 | 0.240 | 1 | 5/6/2008 | |
| 4-Chlorophenyl phenyl ether | BQL | 0.316 | 0.046 | 1 | 5/6/2008 | |
| Chrysene | **0.322** | 0.316 | 0.034 | 1 | 5/6/2008 | |
| Dibenzo[a,h]anthracene | BQL | 0.316 | 0.088 | 1 | 5/6/2008 | |
| Dibenzofuran | BQL | 0.316 | 0.057 | 1 | 5/6/2008 | |
| Di-n-Butylphthalate | BQL | 0.316 | 0.038 | 1 | 5/6/2008 | |
| 1,2-Dichlorobenzene | BQL | 0.316 | 0.035 | 1 | 5/6/2008 | |
| 1,3-Dichlorobenzene | BQL | 0.316 | 0.034 | 1 | 5/6/2008 | |
| 1,4-Dichlorobenzene | BQL | 0.316 | 0.036 | 1 | 5/6/2008 | |
| 3,3'-Dichlorobenzidine | BQL | 0.631 | 0.080 | 1 | 5/6/2008 | |
| 2,4-Dichlorophenol | BQL | 0.316 | 0.114 | 1 | 5/6/2008 | |
| Diethylphthalate | BQL | 0.316 | 0.041 | 1 | 5/6/2008 | |
| Dimethylphthalate | BQL | 0.316 | 0.038 | 1 | 5/6/2008 | |
| 2,4-Dimethylphenol | BQL | 0.316 | 0.226 | 1 | 5/6/2008 | |
| Di-n-octylphthalate | BQL | 0.316 | 0.052 | 1 | 5/6/2008 | |
| 4,6-Dinitro-2-methylphenol | BQL | 1.58 | 0.186 | 1 | 5/6/2008 | |
| 2,4-Dinitrophenol | BQL | 1.58 | 0.695 | 1 | 5/6/2008 | |
| 2,4-Dinitrotoluene | BQL | 0.316 | 0.041 | 1 | 5/6/2008 | |
| 2,6-Dinitrotoluene | BQL | 0.316 | 0.057 | 1 | 5/6/2008 | |
| Diphenylamine * | BQL | 0.316 | 0.031 | 1 | 5/6/2008 | |
| Fluoranthene | **0.388** | 0.316 | 0.044 | 1 | 5/6/2008 | |
| Fluorene | BQL | 0.316 | 0.039 | 1 | 5/6/2008 | |
| Hexachlorobenzene | BQL | 0.316 | 0.049 | 1 | 5/6/2008 | |
| Hexachlorobutadiene | BQL | 0.316 | 0.051 | 1 | 5/6/2008 | |
| Hexachlorocyclopentadiene | BQL | 0.631 | 0.033 | 1 | 5/6/2008 | |
| Hexachloroethane | BQL | 0.316 | 0.028 | 1 | 5/6/2008 | |
| Indeno(1,2,3-c,d)pyrene | **0.133** | 0.316 | 0.081 | 1 | 5/6/2008 | J |
| Isophorone | BQL | 0.316 | 0.046 | 1 | 5/6/2008 | |
| 2-Methylnaphthalene | BQL | 0.316 | 0.092 | 1 | 5/6/2008 | |
| 2-Methylphenol | BQL | 0.316 | 0.111 | 1 | 5/6/2008 | |
| 3- & 4-Methylphenol | BQL | 0.316 | 0.107 | 1 | 5/6/2008 | |

## Results for Semivolatiles by GCMS 8270

Client Sample ID: DPT-09
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-9I
Lab Project ID: G128-2183
Report Basis: Dry weight

Analyzed By: DES
Date Collected: 4/30/2008 12:55
Date Received: 5/1/2008
Date Extracted: 5/2/2008
Matrix: Soil
% Solids: 94.67

| Compound | Result mg/Kg | RL mg/Kg | MDL mg/Kg | Dilution Factor | Date Analyzed | Flag |
|---|---|---|---|---|---|---|
| Naphthalene | BQL | 0.316 | 0.026 | 1 | 5/6/2008 | |
| 2-Nitroaniline | BQL | 0.316 | 0.050 | 1 | 5/6/2008 | |
| 3-Nitroaniline | BQL | 1.58 | 0.325 | 1 | 5/6/2008 | |
| 4-Nitroaniline | BQL | 1.58 | 0.097 | 1 | 5/6/2008 | |
| Nitrobenzene | BQL | 0.316 | 0.043 | 1 | 5/6/2008 | |
| 2-Nitrophenol | BQL | 0.316 | 0.098 | 1 | 5/6/2008 | |
| 4-Nitrophenol | BQL | 1.58 | 0.087 | 1 | 5/6/2008 | |
| N-Nitrosodi-n-propylamine | BQL | 0.316 | 0.040 | 1 | 5/6/2008 | |
| Pentachlorophenol | BQL | 1.58 | 0.082 | 1 | 5/6/2008 | |
| Phenanthrene | BQL | 0.316 | 0.036 | 1 | 5/6/2008 | |
| Phenol | BQL | 0.316 | 0.086 | 1 | 5/6/2008 | |
| Pyrene | **0.552** | 0.316 | 0.061 | 1 | 5/6/2008 | |
| 1,2,4-Trichlorobenzene | BQL | 0.316 | 0.039 | 1 | 5/6/2008 | |
| 2,4,5-Trichlorophenol | BQL | 0.316 | 0.122 | 1 | 5/6/2008 | |
| 2,4,6-Trichlorophenol | BQL | 0.316 | 0.112 | 1 | 5/6/2008 | |

| | Spike Added | Spike Result | Percent Recovered |
|---|---|---|---|
| 2-Fluorobiphenyl | 10 | 8.6 | 86 |
| 2-Fluorophenol | 10 | 5.5 | 55 |
| Nitrobenzene-d5 | 10 | 8.3 | 83 |
| Phenol-d6 | 10 | 7.8 | 78 |
| 2,4,6-Tribromophenol | 10 | 8 | 80 |
| 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:

**Results for Semivolatiles**
**by GCMS 8270**

Client Sample ID: DPT-10
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-10I
Lab Project ID: G128-2183
Report Basis: Dry weight

Analyzed By: DES
Date Collected: 4/30/2008 13:05
Date Received: 5/1/2008
Date Extracted: 5/2/2008
Matrix: Soil
% Solids: 95.86

| Compound | Result mg/Kg | RL mg/Kg | MDL mg/Kg | Dilution Factor | Date Analyzed | Flag |
|---|---|---|---|---|---|---|
| Acenaphthene | BQL | 0.324 | 0.046 | 1 | 5/6/2008 | |
| Acenaphthylene | BQL | 0.324 | 0.043 | 1 | 5/6/2008 | |
| Anthracene | BQL | 0.324 | 0.047 | 1 | 5/6/2008 | |
| Benzo[a]anthracene | BQL | 0.324 | 0.056 | 1 | 5/6/2008 | |
| Benzo[a]pyrene | BQL | 0.324 | 0.050 | 1 | 5/6/2008 | |
| Benzo[b]fluoranthene | BQL | 0.324 | 0.057 | 1 | 5/6/2008 | |
| Benzo[g,h,i]perylene | BQL | 0.324 | 0.088 | 1 | 5/6/2008 | |
| Benzo[k]fluoranthene | BQL | 0.324 | 0.063 | 1 | 5/6/2008 | |
| Benzoic Acid | BQL | 0.648 | 0.648 | 1 | 5/6/2008 | |
| Bis(2-chloroethoxy)methane | BQL | 0.324 | 0.048 | 1 | 5/6/2008 | |
| Bis(2-chloroethyl)ether | BQL | 0.324 | 0.039 | 1 | 5/6/2008 | |
| Bis(2-chloroisopropyl)ether | BQL | 0.324 | 0.041 | 1 | 5/6/2008 | |
| Bis(2-ethylhexyl)phthalate | BQL | 0.324 | 0.043 | 1 | 5/6/2008 | |
| 4-bromophenyl phenyl ether | BQL | 0.324 | 0.055 | 1 | 5/6/2008 | |
| Butylbenzylphthalate | BQL | 0.324 | 0.050 | 1 | 5/6/2008 | |
| 2-Chloronaphthalene | BQL | 0.324 | 0.051 | 1 | 5/6/2008 | |
| 2-Chlorophenol | BQL | 0.324 | 0.101 | 1 | 5/6/2008 | |
| 4-Chloro-3-methylphenol | BQL | 0.324 | 0.101 | 1 | 5/6/2008 | |
| 4-Chloroaniline | BQL | 1.62 | 0.247 | 1 | 5/6/2008 | |
| 4-Chlorophenyl phenyl ether | BQL | 0.324 | 0.048 | 1 | 5/6/2008 | |
| Chrysene | BQL | 0.324 | 0.035 | 1 | 5/6/2008 | |
| Dibenzo[a,h]anthracene | BQL | 0.324 | 0.091 | 1 | 5/6/2008 | |
| Dibenzofuran | BQL | 0.324 | 0.059 | 1 | 5/6/2008 | |
| Di-n-Butylphthalate | BQL | 0.324 | 0.039 | 1 | 5/6/2008 | |
| 1,2-Dichlorobenzene | BQL | 0.324 | 0.036 | 1 | 5/6/2008 | |
| 1,3-Dichlorobenzene | BQL | 0.324 | 0.035 | 1 | 5/6/2008 | |
| 1,4-Dichlorobenzene | BQL | 0.324 | 0.037 | 1 | 5/6/2008 | |
| 3,3'-Dichlorobenzidine | BQL | 0.648 | 0.082 | 1 | 5/6/2008 | |
| 2,4-Dichlorophenol | BQL | 0.324 | 0.117 | 1 | 5/6/2008 | |
| Diethylphthalate | BQL | 0.324 | 0.042 | 1 | 5/6/2008 | |
| Dimethylphthalate | BQL | 0.324 | 0.039 | 1 | 5/6/2008 | |
| 2,4-Dimethylphenol | BQL | 0.324 | 0.232 | 1 | 5/6/2008 | |
| Di-n-octylphthalate | BQL | 0.324 | 0.054 | 1 | 5/6/2008 | |
| 4,6-Dinitro-2-methylphenol | BQL | 1.62 | 0.191 | 1 | 5/6/2008 | |
| 2,4-Dinitrophenol | BQL | 1.62 | 0.714 | 1 | 5/6/2008 | |
| 2,4-Dinitrotoluene | BQL | 0.324 | 0.042 | 1 | 5/6/2008 | |
| 2,6-Dinitrotoluene | BQL | 0.324 | 0.059 | 1 | 5/6/2008 | |
| Diphenylamine * | BQL | 0.324 | 0.032 | 1 | 5/6/2008 | |
| Fluoranthene | BQL | 0.324 | 0.045 | 1 | 5/6/2008 | |
| Fluorene | BQL | 0.324 | 0.040 | 1 | 5/6/2008 | |
| Hexachlorobenzene | BQL | 0.324 | 0.050 | 1 | 5/6/2008 | |
| Hexachlorobutadiene | BQL | 0.324 | 0.052 | 1 | 5/6/2008 | |
| Hexachlorocyclopentadiene | BQL | 0.648 | 0.033 | 1 | 5/6/2008 | |
| Hexachloroethane | BQL | 0.324 | 0.029 | 1 | 5/6/2008 | |
| Indeno(1,2,3-c,d)pyrene | BQL | 0.324 | 0.083 | 1 | 5/6/2008 | |
| Isophorone | BQL | 0.324 | 0.048 | 1 | 5/6/2008 | |
| 2-Methylnaphthalene | BQL | 0.324 | 0.095 | 1 | 5/6/2008 | |
| 2-Methylphenol | BQL | 0.324 | 0.114 | 1 | 5/6/2008 | |
| 3- & 4-Methylphenol | BQL | 0.324 | 0.110 | 1 | 5/6/2008 | |

**Results for Semivolatiles**
**by GCMS 8270**

Client Sample ID: DPT-10
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-10I
Lab Project ID: G128-2183
Report Basis: Dry weight

Analyzed By: DES
Date Collected: 4/30/2008 13:05
Date Received: 5/1/2008
Date Extracted: 5/2/2008
Matrix: Soil
% Solids: 95.86

| Compound | Result mg/Kg | RL mg/Kg | MDL mg/Kg | Dilution Factor | Date Analyzed | Flag |
|---|---|---|---|---|---|---|
| Naphthalene | BQL | 0.324 | 0.026 | 1 | 5/6/2008 | |
| 2-Nitroaniline | BQL | 0.324 | 0.051 | 1 | 5/6/2008 | |
| 3-Nitroaniline | BQL | 1.62 | 0.334 | 1 | 5/6/2008 | |
| 4-Nitroaniline | BQL | 1.62 | 0.100 | 1 | 5/6/2008 | |
| Nitrobenzene | BQL | 0.324 | 0.044 | 1 | 5/6/2008 | |
| 2-Nitrophenol | BQL | 0.324 | 0.100 | 1 | 5/6/2008 | |
| 4-Nitrophenol | BQL | 1.62 | 0.090 | 1 | 5/6/2008 | |
| N-Nitrosodi-n-propylamine | BQL | 0.324 | 0.041 | 1 | 5/6/2008 | |
| Pentachlorophenol | BQL | 1.62 | 0.085 | 1 | 5/6/2008 | |
| Phenanthrene | BQL | 0.324 | 0.037 | 1 | 5/6/2008 | |
| Phenol | BQL | 0.324 | 0.089 | 1 | 5/6/2008 | |
| Pyrene | BQL | 0.324 | 0.062 | 1 | 5/6/2008 | |
| 1,2,4-Trichlorobenzene | BQL | 0.324 | 0.041 | 1 | 5/6/2008 | |
| 2,4,5-Trichlorophenol | BQL | 0.324 | 0.125 | 1 | 5/6/2008 | |
| 2,4,6-Trichlorophenol | BQL | 0.324 | 0.115 | 1 | 5/6/2008 | |

| | Spike Added | Spike Result | Percent Recovered |
|---|---|---|---|
| 2-Fluorobiphenyl | 10 | 8.2 | 82 |
| 2-Fluorophenol | 10 | 6.2 | 62 |
| Nitrobenzene-d5 | 10 | 8.4 | 84 |
| Phenol-d6 | 10 | 8 | 80 |
| 2,4,6-Tribromophenol | 10 | 7.3 | 73 |
| 4-Terphenyl-d14 | 10 | 8.9 | 89 |

**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-11
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-11I
Lab Project ID: G128-2183
Report Basis: Dry weight

Analyzed By: DES
Date Collected: 4/30/2008 13:15
Date Received: 5/1/2008
Date Extracted: 5/2/2008
Matrix: Soil
% Solids: 97.42

| Compound | Result mg/Kg | RL mg/Kg | MDL mg/Kg | Dilution Factor | Date Analyzed | Flag |
|---|---|---|---|---|---|---|
| Acenaphthene | BQL | 0.320 | 0.046 | 1 | 5/6/2008 | |
| Acenaphthylene | BQL | 0.320 | 0.043 | 1 | 5/6/2008 | |
| Anthracene | BQL | 0.320 | 0.046 | 1 | 5/6/2008 | |
| Benzo[a]anthracene | BQL | 0.320 | 0.055 | 1 | 5/6/2008 | |
| Benzo[a]pyrene | BQL | 0.320 | 0.049 | 1 | 5/6/2008 | |
| Benzo[b]fluoranthene | BQL | 0.320 | 0.056 | 1 | 5/6/2008 | |
| Benzo[g,h,i]perylene | BQL | 0.320 | 0.087 | 1 | 5/6/2008 | |
| Benzo[k]fluoranthene | BQL | 0.320 | 0.062 | 1 | 5/6/2008 | |
| Benzoic Acid | BQL | 0.639 | 0.639 | 1 | 5/6/2008 | |
| Bis(2-chloroethoxy)methane | BQL | 0.320 | 0.048 | 1 | 5/6/2008 | |
| Bis(2-chloroethyl)ether | BQL | 0.320 | 0.039 | 1 | 5/6/2008 | |
| Bis(2-chloroisopropyl)ether | BQL | 0.320 | 0.040 | 1 | 5/6/2008 | |
| Bis(2-ethylhexyl)phthalate | BQL | 0.320 | 0.043 | 1 | 5/6/2008 | |
| 4-bromophenyl phenyl ether | BQL | 0.320 | 0.054 | 1 | 5/6/2008 | |
| Butylbenzylphthalate | BQL | 0.320 | 0.049 | 1 | 5/6/2008 | |
| 2-Chloronaphthalene | BQL | 0.320 | 0.050 | 1 | 5/6/2008 | |
| 2-Chlorophenol | BQL | 0.320 | 0.100 | 1 | 5/6/2008 | |
| 4-Chloro-3-methylphenol | BQL | 0.320 | 0.100 | 1 | 5/6/2008 | |
| 4-Chloroaniline | BQL | 1.60 | 0.244 | 1 | 5/6/2008 | |
| 4-Chlorophenyl phenyl ether | BQL | 0.320 | 0.047 | 1 | 5/6/2008 | |
| Chrysene | BQL | 0.320 | 0.035 | 1 | 5/6/2008 | |
| Dibenzo[a,h]anthracene | BQL | 0.320 | 0.090 | 1 | 5/6/2008 | |
| Dibenzofuran | BQL | 0.320 | 0.058 | 1 | 5/6/2008 | |
| Di-n-Butylphthalate | BQL | 0.320 | 0.038 | 1 | 5/6/2008 | |
| 1,2-Dichlorobenzene | BQL | 0.320 | 0.036 | 1 | 5/6/2008 | |
| 1,3-Dichlorobenzene | BQL | 0.320 | 0.035 | 1 | 5/6/2008 | |
| 1,4-Dichlorobenzene | BQL | 0.320 | 0.036 | 1 | 5/6/2008 | |
| 3,3'-Dichlorobenzidine | BQL | 0.639 | 0.081 | 1 | 5/6/2008 | |
| 2,4-Dichlorophenol | BQL | 0.320 | 0.115 | 1 | 5/6/2008 | |
| Diethylphthalate | BQL | 0.320 | 0.041 | 1 | 5/6/2008 | |
| Dimethylphthalate | BQL | 0.320 | 0.039 | 1 | 5/6/2008 | |
| 2,4-Dimethylphenol | BQL | 0.320 | 0.228 | 1 | 5/6/2008 | |
| Di-n-octylphthalate | BQL | 0.320 | 0.053 | 1 | 5/6/2008 | |
| 4,6-Dinitro-2-methylphenol | BQL | 1.60 | 0.188 | 1 | 5/6/2008 | |
| 2,4-Dinitrophenol | BQL | 1.60 | 0.704 | 1 | 5/6/2008 | |
| 2,4-Dinitrotoluene | BQL | 0.320 | 0.042 | 1 | 5/6/2008 | |
| 2,6-Dinitrotoluene | BQL | 0.320 | 0.058 | 1 | 5/6/2008 | |
| Diphenylamine * | BQL | 0.320 | 0.031 | 1 | 5/6/2008 | |
| Fluoranthene | BQL | 0.320 | 0.045 | 1 | 5/6/2008 | |
| Fluorene | BQL | 0.320 | 0.040 | 1 | 5/6/2008 | |
| Hexachlorobenzene | BQL | 0.320 | 0.049 | 1 | 5/6/2008 | |
| Hexachlorobutadiene | BQL | 0.320 | 0.051 | 1 | 5/6/2008 | |
| Hexachlorocyclopentadiene | BQL | 0.639 | 0.033 | 1 | 5/6/2008 | |
| Hexachloroethane | BQL | 0.320 | 0.029 | 1 | 5/6/2008 | |
| Indeno(1,2,3-c,d)pyrene | BQL | 0.320 | 0.082 | 1 | 5/6/2008 | |
| Isophorone | BQL | 0.320 | 0.047 | 1 | 5/6/2008 | |
| 2-Methylnaphthalene | BQL | 0.320 | 0.093 | 1 | 5/6/2008 | |
| 2-Methylphenol | BQL | 0.320 | 0.112 | 1 | 5/6/2008 | |
| 3- & 4-Methylphenol | BQL | 0.320 | 0.108 | 1 | 5/6/2008 | |

**Results for Semivolatiles**
**by GCMS 8270**

Client Sample ID: DPT-11
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-11I
Lab Project ID: G128-2183
Report Basis: Dry weight

Analyzed By: DES
Date Collected: 4/30/2008 13:15
Date Received: 5/1/2008
Date Extracted: 5/2/2008
Matrix: Soil
% Solids: 97.42

| Compound | Result mg/Kg | RL mg/Kg | MDL mg/Kg | Dilution Factor | Date Analyzed | Flag |
|---|---|---|---|---|---|---|
| Naphthalene | BQL | 0.320 | 0.026 | 1 | 5/6/2008 | |
| 2-Nitroaniline | BQL | 0.320 | 0.050 | 1 | 5/6/2008 | |
| 3-Nitroaniline | BQL | 1.60 | 0.329 | 1 | 5/6/2008 | |
| 4-Nitroaniline | BQL | 1.60 | 0.098 | 1 | 5/6/2008 | |
| Nitrobenzene | BQL | 0.320 | 0.043 | 1 | 5/6/2008 | |
| 2-Nitrophenol | BQL | 0.320 | 0.099 | 1 | 5/6/2008 | |
| 4-Nitrophenol | BQL | 1.60 | 0.089 | 1 | 5/6/2008 | |
| N-Nitrosodi-n-propylamine | BQL | 0.320 | 0.041 | 1 | 5/6/2008 | |
| Pentachlorophenol | BQL | 1.60 | 0.083 | 1 | 5/6/2008 | |
| Phenanthrene | BQL | 0.320 | 0.036 | 1 | 5/6/2008 | |
| Phenol | BQL | 0.320 | 0.088 | 1 | 5/6/2008 | |
| Pyrene | BQL | 0.320 | 0.061 | 1 | 5/6/2008 | |
| 1,2,4-Trichlorobenzene | BQL | 0.320 | 0.040 | 1 | 5/6/2008 | |
| 2,4,5-Trichlorophenol | BQL | 0.320 | 0.124 | 1 | 5/6/2008 | |
| 2,4,6-Trichlorophenol | BQL | 0.320 | 0.114 | 1 | 5/6/2008 | |

| | Spike Added | Spike Result | Percent Recovered |
|---|---|---|---|
| 2-Fluorobiphenyl | 10 | 8.8 | 88 |
| 2-Fluorophenol | 10 | 6.5 | 65 |
| Nitrobenzene-d5 | 10 | 8.9 | 89 |
| Phenol-d6 | 10 | 8.6 | 86 |
| 2,4,6-Tribromophenol | 10 | 7.2 | 72 |
| 4-Terphenyl-d14 | 10 | 9.4 | 94 |

**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-13
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-13I
Lab Project ID: G128-2183
Report Basis: Dry weight

Analyzed By: DES
Date Collected: 4/30/2008 14:00
Date Received: 5/1/2008
Date Extracted: 5/2/2008
Matrix: Soil
% Solids: 97.61

| Compound | Result mg/Kg | RL mg/Kg | MDL mg/Kg | Dilution Factor | Date Analyzed | Flag |
|---|---|---|---|---|---|---|
| Acenaphthene | BQL | 0.304 | 0.044 | 1 | 5/6/2008 | |
| Acenaphthylene | BQL | 0.304 | 0.041 | 1 | 5/6/2008 | |
| Anthracene | BQL | 0.304 | 0.044 | 1 | 5/6/2008 | |
| Benzo[a]anthracene | BQL | 0.304 | 0.053 | 1 | 5/6/2008 | |
| Benzo[a]pyrene | BQL | 0.304 | 0.047 | 1 | 5/6/2008 | |
| Benzo[b]fluoranthene | BQL | 0.304 | 0.053 | 1 | 5/6/2008 | |
| Benzo[g,h,i]perylene | BQL | 0.304 | 0.083 | 1 | 5/6/2008 | |
| Benzo[k]fluoranthene | BQL | 0.304 | 0.059 | 1 | 5/6/2008 | |
| Benzoic Acid | BQL | 0.609 | 0.609 | 1 | 5/6/2008 | |
| Bis(2-chloroethoxy)methane | BQL | 0.304 | 0.045 | 1 | 5/6/2008 | |
| Bis(2-chloroethyl)ether | BQL | 0.304 | 0.037 | 1 | 5/6/2008 | |
| Bis(2-chloroisopropyl)ether | BQL | 0.304 | 0.038 | 1 | 5/6/2008 | |
| Bis(2-ethylhexyl)phthalate | BQL | 0.304 | 0.041 | 1 | 5/6/2008 | |
| 4-bromophenyl phenyl ether | BQL | 0.304 | 0.052 | 1 | 5/6/2008 | |
| Butylbenzylphthalate | BQL | 0.304 | 0.047 | 1 | 5/6/2008 | |
| 2-Chloronaphthalene | BQL | 0.304 | 0.048 | 1 | 5/6/2008 | |
| 2-Chlorophenol | BQL | 0.304 | 0.095 | 1 | 5/6/2008 | |
| 4-Chloro-3-methylphenol | BQL | 0.304 | 0.095 | 1 | 5/6/2008 | |
| 4-Chloroaniline | BQL | 1.52 | 0.232 | 1 | 5/6/2008 | |
| 4-Chlorophenyl phenyl ether | BQL | 0.304 | 0.045 | 1 | 5/6/2008 | |
| Chrysene | BQL | 0.304 | 0.033 | 1 | 5/6/2008 | |
| Dibenzo[a,h]anthracene | BQL | 0.304 | 0.085 | 1 | 5/6/2008 | |
| Dibenzofuran | BQL | 0.304 | 0.055 | 1 | 5/6/2008 | |
| Di-n-Butylphthalate | BQL | 0.304 | 0.036 | 1 | 5/6/2008 | |
| 1,2-Dichlorobenzene | BQL | 0.304 | 0.034 | 1 | 5/6/2008 | |
| 1,3-Dichlorobenzene | BQL | 0.304 | 0.033 | 1 | 5/6/2008 | |
| 1,4-Dichlorobenzene | BQL | 0.304 | 0.034 | 1 | 5/6/2008 | |
| 3,3'-Dichlorobenzidine | BQL | 0.609 | 0.077 | 1 | 5/6/2008 | |
| 2,4-Dichlorophenol | BQL | 0.304 | 0.110 | 1 | 5/6/2008 | |
| Diethylphthalate | BQL | 0.304 | 0.039 | 1 | 5/6/2008 | |
| Dimethylphthalate | BQL | 0.304 | 0.037 | 1 | 5/6/2008 | |
| 2,4-Dimethylphenol | BQL | 0.304 | 0.218 | 1 | 5/6/2008 | |
| Di-n-octylphthalate | BQL | 0.304 | 0.050 | 1 | 5/6/2008 | |
| 4,6-Dinitro-2-methylphenol | BQL | 1.52 | 0.179 | 1 | 5/6/2008 | |
| 2,4-Dinitrophenol | BQL | 1.52 | 0.670 | 1 | 5/6/2008 | |
| 2,4-Dinitrotoluene | BQL | 0.304 | 0.040 | 1 | 5/6/2008 | |
| 2,6-Dinitrotoluene | BQL | 0.304 | 0.055 | 1 | 5/6/2008 | |
| Diphenylamine * | BQL | 0.304 | 0.030 | 1 | 5/6/2008 | |
| Fluoranthene | BQL | 0.304 | 0.043 | 1 | 5/6/2008 | |
| Fluorene | BQL | 0.304 | 0.038 | 1 | 5/6/2008 | |
| Hexachlorobenzene | BQL | 0.304 | 0.047 | 1 | 5/6/2008 | |
| Hexachlorobutadiene | BQL | 0.304 | 0.049 | 1 | 5/6/2008 | |
| Hexachlorocyclopentadiene | BQL | 0.609 | 0.031 | 1 | 5/6/2008 | |
| Hexachloroethane | BQL | 0.304 | 0.027 | 1 | 5/6/2008 | |
| Indeno(1,2,3-c,d)pyrene | BQL | 0.304 | 0.078 | 1 | 5/6/2008 | |
| Isophorone | BQL | 0.304 | 0.045 | 1 | 5/6/2008 | |
| 2-Methylnaphthalene | BQL | 0.304 | 0.089 | 1 | 5/6/2008 | |
| 2-Methylphenol | BQL | 0.304 | 0.107 | 1 | 5/6/2008 | |
| 3- & 4-Methylphenol | BQL | 0.304 | 0.103 | 1 | 5/6/2008 | |

**Results for Semivolatiles**
**by GCMS 8270**

Client Sample ID: DPT-13
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-13I
Lab Project ID: G128-2183
Report Basis: Dry weight

Analyzed By: DES
Date Collected: 4/30/2008 14:00
Date Received: 5/1/2008
Date Extracted: 5/2/2008
Matrix: Soil
% Solids: 97.61

| Compound | Result mg/Kg | RL mg/Kg | MDL mg/Kg | Dilution Factor | Date Analyzed | Flag |
|---|---|---|---|---|---|---|
| Naphthalene | BQL | 0.304 | 0.025 | 1 | 5/6/2008 | |
| 2-Nitroaniline | BQL | 0.304 | 0.048 | 1 | 5/6/2008 | |
| 3-Nitroaniline | BQL | 1.52 | 0.314 | 1 | 5/6/2008 | |
| 4-Nitroaniline | BQL | 1.52 | 0.094 | 1 | 5/6/2008 | |
| Nitrobenzene | BQL | 0.304 | 0.041 | 1 | 5/6/2008 | |
| 2-Nitrophenol | BQL | 0.304 | 0.094 | 1 | 5/6/2008 | |
| 4-Nitrophenol | BQL | 1.52 | 0.084 | 1 | 5/6/2008 | |
| N-Nitrosodi-n-propylamine | BQL | 0.304 | 0.039 | 1 | 5/6/2008 | |
| Pentachlorophenol | BQL | 1.52 | 0.080 | 1 | 5/6/2008 | |
| Phenanthrene | BQL | 0.304 | 0.035 | 1 | 5/6/2008 | |
| Phenol | BQL | 0.304 | 0.083 | 1 | 5/6/2008 | |
| Pyrene | BQL | 0.304 | 0.059 | 1 | 5/6/2008 | |
| 1,2,4-Trichlorobenzene | BQL | 0.304 | 0.038 | 1 | 5/6/2008 | |
| 2,4,5-Trichlorophenol | BQL | 0.304 | 0.118 | 1 | 5/6/2008 | |
| 2,4,6-Trichlorophenol | BQL | 0.304 | 0.108 | 1 | 5/6/2008 | |

| | Spike Added | Spike Result | Percent Recovered |
|---|---|---|---|
| 2-Fluorobiphenyl | 10 | 8.7 | 87 |
| 2-Fluorophenol | 10 | 6.5 | 65 |
| Nitrobenzene-d5 | 10 | 8.8 | 88 |
| Phenol-d6 | 10 | 8.8 | 88 |
| 2,4,6-Tribromophenol | 10 | 7.3 | 73 |
| 4-Terphenyl-d14 | 10 | 9.5 | 95 |

**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-14
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-14I
Lab Project ID: G128-2183
Report Basis: Dry weight

Analyzed By: DES
Date Collected: 4/30/2008 14:20
Date Received: 5/1/2008
Date Extracted: 5/2/2008
Matrix: Soil
% Solids: 95.74

| Compound | Result mg/Kg | RL mg/Kg | MDL mg/Kg | Dilution Factor | Date Analyzed | Flag |
|---|---|---|---|---|---|---|
| Acenaphthene | BQL | 0.316 | 0.045 | 1 | 5/6/2008 | |
| Acenaphthylene | BQL | 0.316 | 0.042 | 1 | 5/6/2008 | |
| Anthracene | BQL | 0.316 | 0.046 | 1 | 5/6/2008 | |
| Benzo[a]anthracene | BQL | 0.316 | 0.055 | 1 | 5/6/2008 | |
| Benzo[a]pyrene | BQL | 0.316 | 0.048 | 1 | 5/6/2008 | |
| Benzo[b]fluoranthene | BQL | 0.316 | 0.055 | 1 | 5/6/2008 | |
| Benzo[g,h,i]perylene | BQL | 0.316 | 0.086 | 1 | 5/6/2008 | |
| Benzo[k]fluoranthene | BQL | 0.316 | 0.061 | 1 | 5/6/2008 | |
| Benzoic Acid | BQL | 0.633 | 0.633 | 1 | 5/6/2008 | |
| Bis(2-chloroethoxy)methane | BQL | 0.316 | 0.047 | 1 | 5/6/2008 | |
| Bis(2-chloroethyl)ether | BQL | 0.316 | 0.038 | 1 | 5/6/2008 | |
| Bis(2-chloroisopropyl)ether | BQL | 0.316 | 0.040 | 1 | 5/6/2008 | |
| Bis(2-ethylhexyl)phthalate | **0.221** | 0.316 | 0.042 | 1 | 5/6/2008 | J |
| 4-bromophenyl phenyl ether | BQL | 0.316 | 0.054 | 1 | 5/6/2008 | |
| Butylbenzylphthalate | BQL | 0.316 | 0.049 | 1 | 5/6/2008 | |
| 2-Chloronaphthalene | BQL | 0.316 | 0.050 | 1 | 5/6/2008 | |
| 2-Chlorophenol | BQL | 0.316 | 0.099 | 1 | 5/6/2008 | |
| 4-Chloro-3-methylphenol | BQL | 0.316 | 0.099 | 1 | 5/6/2008 | |
| 4-Chloroaniline | BQL | 1.58 | 0.241 | 1 | 5/6/2008 | |
| 4-Chlorophenyl phenyl ether | BQL | 0.316 | 0.047 | 1 | 5/6/2008 | |
| Chrysene | BQL | 0.316 | 0.034 | 1 | 5/6/2008 | |
| Dibenzo[a,h]anthracene | BQL | 0.316 | 0.089 | 1 | 5/6/2008 | |
| Dibenzofuran | BQL | 0.316 | 0.058 | 1 | 5/6/2008 | |
| Di-n-Butylphthalate | BQL | 0.316 | 0.038 | 1 | 5/6/2008 | |
| 1,2-Dichlorobenzene | BQL | 0.316 | 0.035 | 1 | 5/6/2008 | |
| 1,3-Dichlorobenzene | BQL | 0.316 | 0.035 | 1 | 5/6/2008 | |
| 1,4-Dichlorobenzene | BQL | 0.316 | 0.036 | 1 | 5/6/2008 | |
| 3,3'-Dichlorobenzidine | BQL | 0.633 | 0.080 | 1 | 5/6/2008 | |
| 2,4-Dichlorophenol | BQL | 0.316 | 0.114 | 1 | 5/6/2008 | |
| Diethylphthalate | BQL | 0.316 | 0.041 | 1 | 5/6/2008 | |
| Dimethylphthalate | BQL | 0.316 | 0.038 | 1 | 5/6/2008 | |
| 2,4-Dimethylphenol | BQL | 0.316 | 0.226 | 1 | 5/6/2008 | |
| Di-n-octylphthalate | BQL | 0.316 | 0.052 | 1 | 5/6/2008 | |
| 4,6-Dinitro-2-methylphenol | BQL | 1.58 | 0.186 | 1 | 5/6/2008 | |
| 2,4-Dinitrophenol | BQL | 1.58 | 0.697 | 1 | 5/6/2008 | |
| 2,4-Dinitrotoluene | BQL | 0.316 | 0.041 | 1 | 5/6/2008 | |
| 2,6-Dinitrotoluene | BQL | 0.316 | 0.058 | 1 | 5/6/2008 | |
| Diphenylamine * | BQL | 0.316 | 0.031 | 1 | 5/6/2008 | |
| Fluoranthene | BQL | 0.316 | 0.044 | 1 | 5/6/2008 | |
| Fluorene | BQL | 0.316 | 0.039 | 1 | 5/6/2008 | |
| Hexachlorobenzene | BQL | 0.316 | 0.049 | 1 | 5/6/2008 | |
| Hexachlorobutadiene | BQL | 0.316 | 0.051 | 1 | 5/6/2008 | |
| Hexachlorocyclopentadiene | BQL | 0.633 | 0.033 | 1 | 5/6/2008 | |
| Hexachloroethane | BQL | 0.316 | 0.029 | 1 | 5/6/2008 | |
| Indeno(1,2,3-c,d)pyrene | BQL | 0.316 | 0.081 | 1 | 5/6/2008 | |
| Isophorone | BQL | 0.316 | 0.047 | 1 | 5/6/2008 | |
| 2-Methylnaphthalene | BQL | 0.316 | 0.092 | 1 | 5/6/2008 | |
| 2-Methylphenol | BQL | 0.316 | 0.111 | 1 | 5/6/2008 | |
| 3- & 4-Methylphenol | BQL | 0.316 | 0.107 | 1 | 5/6/2008 | |

**Results for Semivolatiles**
**by GCMS 8270**

Client Sample ID: DPT-14
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-14I
Lab Project ID: G128-2183
Report Basis: Dry weight

Analyzed By: DES
Date Collected: 4/30/2008 14:20
Date Received: 5/1/2008
Date Extracted: 5/2/2008
Matrix: Soil
% Solids: 95.74

| Compound | Result mg/Kg | RL mg/Kg | MDL mg/Kg | Dilution Factor | Date Analyzed | Flag |
|---|---|---|---|---|---|---|
| Naphthalene | BQL | 0.316 | 0.026 | 1 | 5/6/2008 | |
| 2-Nitroaniline | BQL | 0.316 | 0.050 | 1 | 5/6/2008 | |
| 3-Nitroaniline | BQL | 1.58 | 0.326 | 1 | 5/6/2008 | |
| 4-Nitroaniline | BQL | 1.58 | 0.098 | 1 | 5/6/2008 | |
| Nitrobenzene | BQL | 0.316 | 0.043 | 1 | 5/6/2008 | |
| 2-Nitrophenol | BQL | 0.316 | 0.098 | 1 | 5/6/2008 | |
| 4-Nitrophenol | BQL | 1.58 | 0.088 | 1 | 5/6/2008 | |
| N-Nitrosodi-n-propylamine | BQL | 0.316 | 0.040 | 1 | 5/6/2008 | |
| Pentachlorophenol | BQL | 1.58 | 0.083 | 1 | 5/6/2008 | |
| Phenanthrene | BQL | 0.316 | 0.036 | 1 | 5/6/2008 | |
| Phenol | BQL | 0.316 | 0.087 | 1 | 5/6/2008 | |
| Pyrene | BQL | 0.316 | 0.061 | 1 | 5/6/2008 | |
| 1,2,4-Trichlorobenzene | BQL | 0.316 | 0.040 | 1 | 5/6/2008 | |
| 2,4,5-Trichlorophenol | BQL | 0.316 | 0.122 | 1 | 5/6/2008 | |
| 2,4,6-Trichlorophenol | BQL | 0.316 | 0.113 | 1 | 5/6/2008 | |

| | Spike Added | Spike Result | Percent Recovered |
|---|---|---|---|
| 2-Fluorobiphenyl | 10 | 8.6 | 86 |
| 2-Fluorophenol | 10 | 6.4 | 64 |
| Nitrobenzene-d5 | 10 | 8.7 | 87 |
| Phenol-d6 | 10 | 8.4 | 84 |
| 2,4,6-Tribromophenol | 10 | 8 | 80 |
| 4-Terphenyl-d14 | 10 | 9.2 | 92 |

**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-15
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-15I
Lab Project ID: G128-2183
Report Basis: Dry weight

Analyzed By: DES
Date Collected: 4/30/2008 14:30
Date Received: 5/1/2008
Date Extracted: 5/2/2008
Matrix: Soil
% Solids: 95.92

| Compound | Result mg/Kg | RL mg/Kg | MDL mg/Kg | Dilution Factor | Date Analyzed | Flag |
|---|---|---|---|---|---|---|
| Acenaphthene | BQL | 0.306 | 0.044 | 1 | 5/6/2008 | |
| Acenaphthylene | BQL | 0.306 | 0.041 | 1 | 5/6/2008 | |
| Anthracene | BQL | 0.306 | 0.044 | 1 | 5/6/2008 | |
| Benzo[a]anthracene | BQL | 0.306 | 0.053 | 1 | 5/6/2008 | |
| Benzo[a]pyrene | BQL | 0.306 | 0.047 | 1 | 5/6/2008 | |
| Benzo[b]fluoranthene | BQL | 0.306 | 0.054 | 1 | 5/6/2008 | |
| Benzo[g,h,i]perylene | BQL | 0.306 | 0.083 | 1 | 5/6/2008 | |
| Benzo[k]fluoranthene | BQL | 0.306 | 0.059 | 1 | 5/6/2008 | |
| Benzoic Acid | BQL | 0.611 | 0.611 | 1 | 5/6/2008 | |
| Bis(2-chloroethoxy)methane | BQL | 0.306 | 0.046 | 1 | 5/6/2008 | |
| Bis(2-chloroethyl)ether | BQL | 0.306 | 0.037 | 1 | 5/6/2008 | |
| Bis(2-chloroisopropyl)ether | BQL | 0.306 | 0.038 | 1 | 5/6/2008 | |
| Bis(2-ethylhexyl)phthalate | **0.354** | 0.306 | 0.041 | 1 | 5/6/2008 | |
| 4-bromophenyl phenyl ether | BQL | 0.306 | 0.052 | 1 | 5/6/2008 | |
| Butylbenzylphthalate | BQL | 0.306 | 0.047 | 1 | 5/6/2008 | |
| 2-Chloronaphthalene | BQL | 0.306 | 0.048 | 1 | 5/6/2008 | |
| 2-Chlorophenol | BQL | 0.306 | 0.096 | 1 | 5/6/2008 | |
| 4-Chloro-3-methylphenol | BQL | 0.306 | 0.095 | 1 | 5/6/2008 | |
| 4-Chloroaniline | BQL | 1.53 | 0.233 | 1 | 5/6/2008 | |
| 4-Chlorophenyl phenyl ether | BQL | 0.306 | 0.045 | 1 | 5/6/2008 | |
| Chrysene | BQL | 0.306 | 0.033 | 1 | 5/6/2008 | |
| Dibenzo[a,h]anthracene | BQL | 0.306 | 0.086 | 1 | 5/6/2008 | |
| Dibenzofuran | BQL | 0.306 | 0.056 | 1 | 5/6/2008 | |
| Di-n-Butylphthalate | BQL | 0.306 | 0.036 | 1 | 5/6/2008 | |
| 1,2-Dichlorobenzene | BQL | 0.306 | 0.034 | 1 | 5/6/2008 | |
| 1,3-Dichlorobenzene | BQL | 0.306 | 0.033 | 1 | 5/6/2008 | |
| 1,4-Dichlorobenzene | BQL | 0.306 | 0.035 | 1 | 5/6/2008 | |
| 3,3'-Dichlorobenzidine | BQL | 0.611 | 0.077 | 1 | 5/6/2008 | |
| 2,4-Dichlorophenol | BQL | 0.306 | 0.110 | 1 | 5/6/2008 | |
| Diethylphthalate | BQL | 0.306 | 0.039 | 1 | 5/6/2008 | |
| Dimethylphthalate | BQL | 0.306 | 0.037 | 1 | 5/6/2008 | |
| 2,4-Dimethylphenol | BQL | 0.306 | 0.218 | 1 | 5/6/2008 | |
| Di-n-octylphthalate | BQL | 0.306 | 0.050 | 1 | 5/6/2008 | |
| 4,6-Dinitro-2-methylphenol | BQL | 1.53 | 0.180 | 1 | 5/6/2008 | |
| 2,4-Dinitrophenol | BQL | 1.53 | 0.673 | 1 | 5/6/2008 | |
| 2,4-Dinitrotoluene | BQL | 0.306 | 0.040 | 1 | 5/6/2008 | |
| 2,6-Dinitrotoluene | BQL | 0.306 | 0.056 | 1 | 5/6/2008 | |
| Diphenylamine * | BQL | 0.306 | 0.030 | 1 | 5/6/2008 | |
| Fluoranthene | BQL | 0.306 | 0.043 | 1 | 5/6/2008 | |
| Fluorene | BQL | 0.306 | 0.038 | 1 | 5/6/2008 | |
| Hexachlorobenzene | BQL | 0.306 | 0.047 | 1 | 5/6/2008 | |
| Hexachlorobutadiene | BQL | 0.306 | 0.049 | 1 | 5/6/2008 | |
| Hexachlorocyclopentadiene | BQL | 0.611 | 0.032 | 1 | 5/6/2008 | |
| Hexachloroethane | BQL | 0.306 | 0.028 | 1 | 5/6/2008 | |
| Indeno(1,2,3-c,d)pyrene | BQL | 0.306 | 0.078 | 1 | 5/6/2008 | |
| Isophorone | BQL | 0.306 | 0.045 | 1 | 5/6/2008 | |
| 2-Methylnaphthalene | BQL | 0.306 | 0.089 | 1 | 5/6/2008 | |
| 2-Methylphenol | BQL | 0.306 | 0.108 | 1 | 5/6/2008 | |
| 3- & 4-Methylphenol | BQL | 0.306 | 0.104 | 1 | 5/6/2008 | |

**Results for Semivolatiles**
**by GCMS 8270**

Client Sample ID: DPT-15
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-15I
Lab Project ID: G128-2183
Report Basis: Dry weight

Analyzed By: DES
Date Collected: 4/30/2008 14:30
Date Received: 5/1/2008
Date Extracted: 5/2/2008
Matrix: Soil
% Solids: 95.92

| Compound | Result mg/Kg | RL mg/Kg | MDL mg/Kg | Dilution Factor | Date Analyzed | Flag |
|---|---|---|---|---|---|---|
| Naphthalene | BQL | 0.306 | 0.025 | 1 | 5/6/2008 | |
| 2-Nitroaniline | BQL | 0.306 | 0.048 | 1 | 5/6/2008 | |
| 3-Nitroaniline | BQL | 1.53 | 0.315 | 1 | 5/6/2008 | |
| 4-Nitroaniline | BQL | 1.53 | 0.094 | 1 | 5/6/2008 | |
| Nitrobenzene | BQL | 0.306 | 0.041 | 1 | 5/6/2008 | |
| 2-Nitrophenol | BQL | 0.306 | 0.095 | 1 | 5/6/2008 | |
| 4-Nitrophenol | BQL | 1.53 | 0.085 | 1 | 5/6/2008 | |
| N-Nitrosodi-n-propylamine | BQL | 0.306 | 0.039 | 1 | 5/6/2008 | |
| Pentachlorophenol | BQL | 1.53 | 0.080 | 1 | 5/6/2008 | |
| Phenanthrene | BQL | 0.306 | 0.035 | 1 | 5/6/2008 | |
| Phenol | BQL | 0.306 | 0.084 | 1 | 5/6/2008 | |
| Pyrene | BQL | 0.306 | 0.059 | 1 | 5/6/2008 | |
| 1,2,4-Trichlorobenzene | BQL | 0.306 | 0.038 | 1 | 5/6/2008 | |
| 2,4,5-Trichlorophenol | BQL | 0.306 | 0.118 | 1 | 5/6/2008 | |
| 2,4,6-Trichlorophenol | BQL | 0.306 | 0.109 | 1 | 5/6/2008 | |

| | Spike Added | Spike Result | Percent Recovered |
|---|---|---|---|
| 2-Fluorobiphenyl | 10 | 8.6 | 86 |
| 2-Fluorophenol | 10 | 6.2 | 62 |
| Nitrobenzene-d5 | 10 | 8.8 | 88 |
| Phenol-d6 | 10 | 8.3 | 83 |
| 2,4,6-Tribromophenol | 10 | 7.6 | 76 |
| 4-Terphenyl-d14 | 10 | 9.7 | 97 |

**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-16
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-16I
Lab Project ID: G128-2183
Report Basis: Dry weight

Analyzed By: DES
Date Collected: 4/30/2008 14:45
Date Received: 5/1/2008
Date Extracted: 5/2/2008
Matrix: Soil
% Solids: 96.73

| Compound | Result mg/Kg | RL mg/Kg | MDL mg/Kg | Dilution Factor | Date Analyzed | Flag |
|---|---|---|---|---|---|---|
| Acenaphthene | BQL | 0.312 | 0.045 | 1 | 5/6/2008 | |
| Acenaphthylene | BQL | 0.312 | 0.042 | 1 | 5/6/2008 | |
| Anthracene | BQL | 0.312 | 0.045 | 1 | 5/6/2008 | |
| Benzo[a]anthracene | BQL | 0.312 | 0.054 | 1 | 5/6/2008 | |
| Benzo[a]pyrene | BQL | 0.312 | 0.048 | 1 | 5/6/2008 | |
| Benzo[b]fluoranthene | BQL | 0.312 | 0.055 | 1 | 5/6/2008 | |
| Benzo[g,h,i]perylene | BQL | 0.312 | 0.085 | 1 | 5/6/2008 | |
| Benzo[k]fluoranthene | BQL | 0.312 | 0.060 | 1 | 5/6/2008 | |
| Benzoic Acid | BQL | 0.624 | 0.624 | 1 | 5/6/2008 | |
| Bis(2-chloroethoxy)methane | BQL | 0.312 | 0.047 | 1 | 5/6/2008 | |
| Bis(2-chloroethyl)ether | BQL | 0.312 | 0.038 | 1 | 5/6/2008 | |
| Bis(2-chloroisopropyl)ether | BQL | 0.312 | 0.039 | 1 | 5/6/2008 | |
| Bis(2-ethylhexyl)phthalate | BQL | 0.312 | 0.042 | 1 | 5/6/2008 | |
| 4-bromophenyl phenyl ether | BQL | 0.312 | 0.053 | 1 | 5/6/2008 | |
| Butylbenzylphthalate | BQL | 0.312 | 0.048 | 1 | 5/6/2008 | |
| 2-Chloronaphthalene | BQL | 0.312 | 0.049 | 1 | 5/6/2008 | |
| 2-Chlorophenol | BQL | 0.312 | 0.098 | 1 | 5/6/2008 | |
| 4-Chloro-3-methylphenol | BQL | 0.312 | 0.097 | 1 | 5/6/2008 | |
| 4-Chloroaniline | BQL | 1.56 | 0.238 | 1 | 5/6/2008 | |
| 4-Chlorophenyl phenyl ether | BQL | 0.312 | 0.046 | 1 | 5/6/2008 | |
| Chrysene | BQL | 0.312 | 0.034 | 1 | 5/6/2008 | |
| Dibenzo[a,h]anthracene | BQL | 0.312 | 0.087 | 1 | 5/6/2008 | |
| Dibenzofuran | BQL | 0.312 | 0.057 | 1 | 5/6/2008 | |
| Di-n-Butylphthalate | BQL | 0.312 | 0.037 | 1 | 5/6/2008 | |
| 1,2-Dichlorobenzene | BQL | 0.312 | 0.035 | 1 | 5/6/2008 | |
| 1,3-Dichlorobenzene | BQL | 0.312 | 0.034 | 1 | 5/6/2008 | |
| 1,4-Dichlorobenzene | BQL | 0.312 | 0.035 | 1 | 5/6/2008 | |
| 3,3'-Dichlorobenzidine | BQL | 0.624 | 0.079 | 1 | 5/6/2008 | |
| 2,4-Dichlorophenol | BQL | 0.312 | 0.112 | 1 | 5/6/2008 | |
| Diethylphthalate | BQL | 0.312 | 0.040 | 1 | 5/6/2008 | |
| Dimethylphthalate | BQL | 0.312 | 0.038 | 1 | 5/6/2008 | |
| 2,4-Dimethylphenol | BQL | 0.312 | 0.223 | 1 | 5/6/2008 | |
| Di-n-octylphthalate | BQL | 0.312 | 0.052 | 1 | 5/6/2008 | |
| 4,6-Dinitro-2-methylphenol | BQL | 1.56 | 0.184 | 1 | 5/6/2008 | |
| 2,4-Dinitrophenol | BQL | 1.56 | 0.687 | 1 | 5/6/2008 | |
| 2,4-Dinitrotoluene | BQL | 0.312 | 0.041 | 1 | 5/6/2008 | |
| 2,6-Dinitrotoluene | BQL | 0.312 | 0.057 | 1 | 5/6/2008 | |
| Diphenylamine * | BQL | 0.312 | 0.031 | 1 | 5/6/2008 | |
| Fluoranthene | BQL | 0.312 | 0.044 | 1 | 5/6/2008 | |
| Fluorene | BQL | 0.312 | 0.039 | 1 | 5/6/2008 | |
| Hexachlorobenzene | BQL | 0.312 | 0.048 | 1 | 5/6/2008 | |
| Hexachlorobutadiene | BQL | 0.312 | 0.050 | 1 | 5/6/2008 | |
| Hexachlorocyclopentadiene | BQL | 0.624 | 0.032 | 1 | 5/6/2008 | |
| Hexachloroethane | BQL | 0.312 | 0.028 | 1 | 5/6/2008 | |
| Indeno(1,2,3-c,d)pyrene | BQL | 0.312 | 0.080 | 1 | 5/6/2008 | |
| Isophorone | BQL | 0.312 | 0.046 | 1 | 5/6/2008 | |
| 2-Methylnaphthalene | BQL | 0.312 | 0.091 | 1 | 5/6/2008 | |
| 2-Methylphenol | BQL | 0.312 | 0.110 | 1 | 5/6/2008 | |
| 3- & 4-Methylphenol | BQL | 0.312 | 0.106 | 1 | 5/6/2008 | |

**Results for Semivolatiles**
**by GCMS 8270**

Client Sample ID: DPT-16
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-16I
Lab Project ID: G128-2183
Report Basis: Dry weight

Analyzed By: DES
Date Collected: 4/30/2008 14:45
Date Received: 5/1/2008
Date Extracted: 5/2/2008
Matrix: Soil
% Solids: 96.73

| Compound | Result mg/Kg | RL mg/Kg | MDL mg/Kg | Dilution Factor | Date Analyzed | Flag |
|---|---|---|---|---|---|---|
| Naphthalene | BQL | 0.312 | 0.025 | 1 | 5/6/2008 | |
| 2-Nitroaniline | BQL | 0.312 | 0.049 | 1 | 5/6/2008 | |
| 3-Nitroaniline | BQL | 1.56 | 0.321 | 1 | 5/6/2008 | |
| 4-Nitroaniline | BQL | 1.56 | 0.096 | 1 | 5/6/2008 | |
| Nitrobenzene | BQL | 0.312 | 0.042 | 1 | 5/6/2008 | |
| 2-Nitrophenol | BQL | 0.312 | 0.097 | 1 | 5/6/2008 | |
| 4-Nitrophenol | BQL | 1.56 | 0.086 | 1 | 5/6/2008 | |
| N-Nitrosodi-n-propylamine | BQL | 0.312 | 0.040 | 1 | 5/6/2008 | |
| Pentachlorophenol | BQL | 1.56 | 0.081 | 1 | 5/6/2008 | |
| Phenanthrene | BQL | 0.312 | 0.036 | 1 | 5/6/2008 | |
| Phenol | BQL | 0.312 | 0.085 | 1 | 5/6/2008 | |
| Pyrene | BQL | 0.312 | 0.060 | 1 | 5/6/2008 | |
| 1,2,4-Trichlorobenzene | BQL | 0.312 | 0.039 | 1 | 5/6/2008 | |
| 2,4,5-Trichlorophenol | BQL | 0.312 | 0.121 | 1 | 5/6/2008 | |
| 2,4,6-Trichlorophenol | BQL | 0.312 | 0.111 | 1 | 5/6/2008 | |

| | Spike Added | Spike Result | Percent Recovered |
|---|---|---|---|
| 2-Fluorobiphenyl | 10 | 8.4 | 84 |
| 2-Fluorophenol | 10 | 6.8 | 68 |
| Nitrobenzene-d5 | 10 | 8.8 | 88 |
| Phenol-d6 | 10 | 8.9 | 89 |
| 2,4,6-Tribromophenol | 10 | 8.1 | 81 |
| 4-Terphenyl-d14 | 10 | 9.4 | 94 |

**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 Ethylene Glycol

by GC 8015 Modified

Client Sample ID: DPT-01
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-1A
Lab Project ID: G128-2183

Analyzed By: EAW
Date Collected: 4/30/2008 10:45
Date Received: 5/1/2008
Matrix: Soil
Solids 95.13

| Analyte | Result mg/KG | RL mg/KG | MDL mg/KG | Dilution Factor | Date Analyzed | Flags |
|---|---|---|---|---|---|---|
| Ethylene Glycol | **12.6** | 4.97 | 0.314 | 1 | 5/14/2008 | |
| Propylene Glycol | BQL | 4.97 | 0.314 | 1 | 5/14/2008 | |

**Comments:**
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By:

## Results for Ethylene Glycol

by GC 8015 Modified

Client Sample ID: DPT-02
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-2A
Lab Project ID: G128-2183

Analyzed By: EAW
Date Collected: 4/30/2008 11:00
Date Received: 5/1/2008
Matrix: Soil
Solids 97.53

| Analyte | Result mg/KG | RL mg/KG | MDL mg/KG | Dilution Factor | Date Analyzed | Flags |
|---|---|---|---|---|---|---|
| Ethylene Glycol | **11.1** | 4.85 | 0.306 | 1 | 5/14/2008 | |
| Propylene Glycol | BQL | 4.85 | 0.306 | 1 | 5/14/2008 | |

**Comments:**
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By:

## Results for Glycols
by GC 8015 Modified

Client Sample ID: DPT-03
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-3A
Lab Project ID: G128-2183

Analyzed By: EAW
Date Collected: 4/30/2008 11:15
Date Received: 5/1/2008
Matrix: Soil
Solids 95.27

| Analyte | Result mg/KG | RL mg/KG | MDL mg/KG | Dilution Factor | Date Analyzed | Flags |
|---|---|---|---|---|---|---|
| Ethylene Glycol | BQL | 4.94 | 0.312 | 1 | 5/14/2008 | |
| Propylene Glycol | BQL | 4.94 | 0.312 | 1 | 5/14/2008 | |

**Comments:**
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By:

**Results for Glycols**
by GC 8015 Modified

Client Sample ID: DPT-04
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-4A
Lab Project ID: G128-2183

Analyzed By: EAW
Date Collected: 4/30/2008 11:25
Date Received: 5/1/2008
Matrix: Soil
Solids 95.60

| Analyte | Result mg/KG | RL mg/KG | MDL mg/KG | Dilution Factor | Date Analyzed | Flags |
|---|---|---|---|---|---|---|
| Ethylene Glycol | BQL | 5.21 | 0.329 | 1 | 5/14/2008 | |
| Propylene Glycol | BQL | 5.21 | 0.329 | 1 | 5/14/2008 | |

**Comments:**
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By:

## Results for Glycols
by GC 8015 Modified

Client Sample ID: DPT-05
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-5A
Lab Project ID: G128-2183

Analyzed By: EAW
Date Collected: 4/30/2008 11:40
Date Received: 5/1/2008
Matrix: Soil
Solids 93.76

| Analyte | Result mg/KG | RL mg/KG | MDL mg/KG | Dilution Factor | Date Analyzed | Flags |
|---|---|---|---|---|---|---|
| Ethylene Glycol | BQL | 5.19 | 0.328 | 1 | 5/14/2008 | |
| Propylene Glycol | BQL | 5.19 | 0.328 | 1 | 5/14/2008 | |

**Comments:**
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By:

## Results for Ethylene Glycol

by GC 8015 Modified

Client Sample ID: DPT-06
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-6A
Lab Project ID: G128-2183

Analyzed By: EAW
Date Collected: 4/30/2008 11:50
Date Received: 5/1/2008
Matrix: Soil
Solids 95.25

| Analyte | Result mg/KG | RL mg/KG | MDL mg/KG | Dilution Factor | Date Analyzed | Flags |
|---|---|---|---|---|---|---|
| Ethylene Glycol | **12.1** | 4.97 | 0.314 | 1 | 5/14/2008 | |
| Propylene Glycol | BQL | 4.97 | 0.314 | 1 | 5/14/2008 | |

**Comments:**
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By:

**Results for Ethylene Glycol**
by GC 8015 Modified

Client Sample ID: DPT-07
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-7A
Lab Project ID: G128-2183

Analyzed By: EAW
Date Collected: 4/30/2008 12:15
Date Received: 5/1/2008
Matrix: Soil
Solids 93.35

| Analyte | Result mg/KG | RL mg/KG | MDL mg/KG | Dilution Factor | Date Analyzed | Flags |
|---|---|---|---|---|---|---|
| Ethylene Glycol | **14.0** | 5.21 | 0.329 | 1 | 5/14/2008 | |
| Propylene Glycol | BQL | 5.21 | 0.329 | 1 | 5/14/2008 | |

**Comments:**
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By:

**Results for Glycols**
by GC 8015 Modified

Client Sample ID: DPT-08
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-8A
Lab Project ID: G128-2183

Analyzed By: EAW
Date Collected: 4/30/2008 12:30
Date Received: 5/1/2008
Matrix: Soil
Solids 96.92

| Analyte | Result mg/KG | RL mg/KG | MDL mg/KG | Dilution Factor | Date Analyzed | Flags |
|---|---|---|---|---|---|---|
| Ethylene Glycol | BQL | 4.60 | 0.291 | 1 | 5/14/2008 | |
| Propylene Glycol | BQL | 4.60 | 0.291 | 1 | 5/14/2008 | |

**Comments:**
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By:

## Results for Ethylene Glycol

by GC 8015 Modified

Client Sample ID: DPT-09
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-9A
Lab Project ID: G128-2183

Analyzed By: EAW
Date Collected: 4/30/2008 12:55
Date Received: 5/1/2008
Matrix: Soil
Solids 94.67

| Analyte | Result mg/KG | RL mg/KG | MDL mg/KG | Dilution Factor | Date Analyzed | Flags |
|---|---|---|---|---|---|---|
| Ethylene Glycol | **1.1** | 4.61 | 0.291 | 1 | 5/14/2008 | J |
| Propylene Glycol | BQL | 4.61 | 0.291 | 1 | 5/14/2008 | |

**Comments:**
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By:

## Results for Ethylene Glycol

by GC 8015 Modified

Client Sample ID: DPT-10
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-10A
Lab Project ID: G128-2183

Analyzed By: EAW
Date Collected: 4/30/2008 13:05
Date Received: 5/1/2008
Matrix: Soil
Solids 95.86

| Analyte | Result mg/KG | RL mg/KG | MDL mg/KG | Dilution Factor | Date Analyzed | Flags |
|---|---|---|---|---|---|---|
| Ethylene Glycol | BQL | 4.91 | 0.310 | 1 | 5/14/2008 | |
| Propylene Glycol | BQL | 4.91 | 0.310 | 1 | 5/14/2008 | |

**Comments:**
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By:

**Results for Glycols**
by GC 8015 Modified

Client Sample ID: DPT-11
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-11A
Lab Project ID: G128-2183

Analyzed By: EAW
Date Collected: 4/30/2008 13:15
Date Received: 5/1/2008
Matrix: Soil
Solids 97.42

| Analyte | Result mg/KG | RL mg/KG | MDL mg/KG | Dilution Factor | Date Analyzed | Flags |
|---|---|---|---|---|---|---|
| Ethylene Glycol | BQL | 4.93 | 0.311 | 1 | 5/14/2008 | |
| Propylene Glycol | BQL | 4.93 | 0.311 | 1 | 5/14/2008 | |

**Comments:**
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By:

## Results for Ethylene Glycol

by GC 8015 Modified

Client Sample ID: DPT-12 (3-5')
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-12A
Lab Project ID: G128-2183

Analyzed By: EAW
Date Collected: 4/30/2008 13:35
Date Received: 5/1/2008
Matrix: Soil
Solids 96.61

| Analyte | Result mg/KG | RL mg/KG | MDL mg/KG | Dilution Factor | Date Analyzed | Flags |
|---|---|---|---|---|---|---|
| Ethylene Glycol | **13.2** | 5.05 | 0.319 | 1 | 5/14/2008 | |
| Propylene Glycol | BQL | 5.05 | 0.319 | 1 | 5/14/2008 | |

**Comments:**
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By:

## Results for Ethylene Glycol

by GC 8015 Modified

Client Sample ID: DPT-13
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-13A
Lab Project ID: G128-2183

Analyzed By: EAW
Date Collected: 4/30/2008 14:00
Date Received: 5/1/2008
Matrix: Soil
Solids 97.61

| Analyte | Result mg/KG | RL mg/KG | MDL mg/KG | Dilution Factor | Date Analyzed | Flags |
|---|---|---|---|---|---|---|
| Ethylene Glycol | **12.0** | 4.85 | 0.307 | 1 | 5/14/2008 | |
| Propylene Glycol | BQL | 4.85 | 0.307 | 1 | 5/14/2008 | |

**Comments:**
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By:

**Results for Glycols**
by GC 8015 Modified

Client Sample ID: DPT-14
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-14A
Lab Project ID: G128-2183

Analyzed By: EAW
Date Collected: 4/30/2008 14:20
Date Received: 5/1/2008
Matrix: Soil
Solids 95.74

| Analyte | Result mg/KG | RL mg/KG | MDL mg/KG | Dilution Factor | Date Analyzed | Flags |
|---|---|---|---|---|---|---|
| Ethylene Glycol | BQL | 4.97 | 0.314 | 1 | 5/14/2008 | |
| Propylene Glycol | BQL | 4.97 | 0.314 | 1 | 5/14/2008 | |

**Comments:**
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By:

## Results for Ethylene Glycol

by GC 8015 Modified

Client Sample ID: DPT-15
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-15A
Lab Project ID: G128-2183

Analyzed By: EAW
Date Collected: 4/30/2008 14:30
Date Received: 5/1/2008
Matrix: Soil
Solids 95.92

| Analyte | Result mg/KG | RL mg/KG | MDL mg/KG | Dilution Factor | Date Analyzed | Flags |
|---|---|---|---|---|---|---|
| Ethylene Glycol | **2.4** | 4.64 | 0.293 | 1 | 5/14/2008 | J |
| Propylene Glycol | **0.78** | 4.64 | 0.293 | 1 | 5/14/2008 | J |

**Comments:**
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By:

## Results for Ethylene Glycol

by GC 8015 Modified

Client Sample ID: DPT-16
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-16A
Lab Project ID: G128-2183

Analyzed By: EAW
Date Collected: 4/30/2008 14:45
Date Received: 5/1/2008
Matrix: Soil
Solids 96.73

| Analyte | Result mg/KG | RL mg/KG | MDL mg/KG | Dilution Factor | Date Analyzed | Flags |
|---|---|---|---|---|---|---|
| Ethylene Glycol | **1.2** | 4.57 | 0.289 | 1 | 5/14/2008 | J |
| Propylene Glycol | BQL | 4.57 | 0.289 | 1 | 5/14/2008 | |

**Comments:**
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By:

SGS ENVIRONMENTAL SERVICES, INC.

**Analytical Results**

| | | | |
|---|---|---|---|
| Client Sample ID: | DPT-01 | Date Collected: | 2008-04-30 10:45:00 |
| Client Project ID: | NCDOT Tidewater Transit | Date Received: | 2008-05-01 12:45:00 |
| Lab Sample ID: | G128-2183-1 | Matrix: | Soil |
| Lab Project ID: | G128-2183 | | |

| Analyte | Result | RL | MDL | Units | Method | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| Formaldehyde | **2500** | 4000 | 430 | ug/kg | SW846 8315A | JB | 2008-05-07 19:08:00 | SPL |

**Comments**
BQL = Below Quantitation Limits
DF = Dilution Factor
RL = Report Limit

Reviewed By:

subout.xls

SGS ENVIRONMENTAL SERVICES, INC.

**Analytical Results**

| | | | |
|---|---|---|---|
| Client Sample ID: | DPT-02 | Date Collected: | 2008-04-30 11:00:00 |
| Client Project ID: | NCDOT Tidewater Transit | Date Received: | 2008-05-01 12:45:00 |
| Lab Sample ID: | G128-2183-2 | Matrix: | Soil |
| Lab Project ID: | G128-2183 | | |

| Analyte | Result | RL | MDL | Units | Method | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| Formaldehyde | **2800** | 4000 | 430 | ug/kg | SW846 8315A | JB | 2008-05-07 19:58:00 | SPL |

**Comments**
BQL = Below Quantitation Limits
DF = Dilution Factor
RL = Report Limit

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**Analytical Results**

| | | | |
|---|---|---|---|
| Client Sample ID: | DPT-03 | Date Collected: | 2008-04-30 11:15:00 |
| Client Project ID: | NCDOT Tidewater Transit | Date Received: | 2008-05-01 12:45:00 |
| Lab Sample ID: | G128-2183-3 | Matrix: | Soil |
| Lab Project ID: | G128-2183 | | |

| Analyte | Result | RL | MDL | Units | Method | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| Formaldehyde | **2100** | 4000 | 430 | ug/kg | SW846 8315A | JB | 2008-05-07 20:14:00 | SPL |

**Comments**
BQL = Below Quantitation Limits
DF = Dilution Factor
RL = Report Limit

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**Analytical Results**

| | | | |
|---|---|---|---|
| Client Sample ID: | DPT-04 | Date Collected: | 2008-04-30 11:25:00 |
| Client Project ID: | NCDOT Tidewater Transit | Date Received: | 2008-05-01 12:45:00 |
| Lab Sample ID: | G128-2183-4 | Matrix: | Soil |
| Lab Project ID: | G128-2183 | | |

| Analyte | Result | RL | MDL | Units | Method | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| Formaldehyde | **3000** | 4000 | 430 | ug/kg | SW846 8315A | JB | 2008-05-07 20:31:00 | SPL |

**Comments**
BQL = Below Quantitation Limits
DF = Dilution Factor
RL = Report Limit

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**Analytical Results**

| | | | |
|---|---|---|---|
| Client Sample ID: | DPT-05 | Date Collected: | 2008-04-30 11:40:00 |
| Client Project ID: | NCDOT Tidewater Transit | Date Received: | 2008-05-01 12:45:00 |
| Lab Sample ID: | G128-2183-5 | Matrix: | Soil |
| Lab Project ID: | G128-2183 | | |

| Analyte | Result | RL | MDL | Units | Method | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| Formaldehyde | **3200** | 4000 | 430 | ug/kg | SW846 8315A | JB | 2008-05-07 20:47:00 | SPL |

**Comments**
BQL = Below Quantitation Limits
DF = Dilution Factor
RL = Report Limit

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**Analytical Results**

| | | | |
|---|---|---|---|
| Client Sample ID: | DPT-06 | Date Collected: | 2008-04-30 11:50:00 |
| Client Project ID: | NCDOT Tidewater Transit | Date Received: | 2008-05-01 12:45:00 |
| Lab Sample ID: | G128-2183-6 | Matrix: | Soil |
| Lab Project ID: | G128-2183 | | |

| Analyte | Result | RL | MDL | Units | Method | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| Formaldehyde | **2600** | 4000 | 430 | ug/kg | SW846 8315A | JB | 2008-05-07 21:21:00 | SPL |

**Comments**
BQL = Below Quantitation Limits
DF = Dilution Factor
RL = Report Limit

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**Analytical Results**

| | | | |
|---|---|---|---|
| Client Sample ID: | DPT-07 | Date Collected: | 2008-04-30 12:15:00 |
| Client Project ID: | NCDOT Tidewater Transit | Date Received: | 2008-05-01 12:45:00 |
| Lab Sample ID: | G128-2183-7 | Matrix: | Soil |
| Lab Project ID: | G128-2183 | | |

| Analyte | Result | RL | MDL | Units | Method | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| Formaldehyde | **2700** | 4000 | 430 | ug/kg | SW846 8315A | JB | 2008-05-07 21:37:00 | SPL |

**Comments**
BQL = Below Quantitation Limits
DF = Dilution Factor
RL = Report Limit

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SGS ENVIRONMENTAL SERVICES, INC.

**Analytical Results**

| | | | |
|---|---|---|---|
| Client Sample ID: | DPT-08 | Date Collected: | 2008-04-30 12:30:00 |
| Client Project ID: | NCDOT Tidewater Transit | Date Received: | 2008-05-01 12:45:00 |
| Lab Sample ID: | G128-2183-8 | Matrix: | Soil |
| Lab Project ID: | G128-2183 | | |

| Analyte | Result | RL | MDL | Units | Method | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| Formaldehyde | **4400** | 4000 | 430 | ug/kg | SW846 8315A | B | 2008-05-07 21:54:00 | SPL |

**Comments**
BQL = Below Quantitation Limits
DF = Dilution Factor
RL = Report Limit

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SGS ENVIRONMENTAL SERVICES, INC.

**Analytical Results**

| | | | |
|---|---|---|---|
| Client Sample ID: | DPT-09 | Date Collected: | 2008-04-30 12:55:00 |
| Client Project ID: | NCDOT Tidewater Transit | Date Received: | 2008-05-01 12:45:00 |
| Lab Sample ID: | G128-2183-9 | Matrix: | Soil |
| Lab Project ID: | G128-2183 | | |

| Analyte | Result | RL | MDL | Units | Method | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| Formaldehyde | **2900** | 4000 | 430 | ug/kg | SW846 8315A | JB | 2008-05-07 22:10:00 | SPL |

**Comments**
BQL = Below Quantitation Limits
DF = Dilution Factor
RL = Report Limit

Reviewed By:

SGS ENVIRONMENTAL SERVICES, INC.

**Analytical Results**

| | | | |
|---|---|---|---|
| Client Sample ID: | DPT-10 | Date Collected: | 2008-04-30 13:05:00 |
| Client Project ID: | NCDOT Tidewater Transit | Date Received: | 2008-05-01 12:45:00 |
| Lab Sample ID: | G128-2183-10 | Matrix: | Soil |
| Lab Project ID: | G128-2183 | | |

| Analyte | Result | RL | MDL | Units | Method | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| Formaldehyde | **2800** | 4000 | 430 | ug/kg | SW846 8315A | JB | 2008-05-07 22:44:00 | SPL |

**Comments**
BQL = Below Quantitation Limits
DF = Dilution Factor
RL = Report Limit

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**Analytical Results**

| | | | |
|---|---|---|---|
| Client Sample ID: | DPT-11 | Date Collected: | 2008-04-30 13:15:00 |
| Client Project ID: | NCDOT Tidewater Transit | Date Received: | 2008-05-01 12:45:00 |
| Lab Sample ID: | G128-2183-11 | Matrix: | Soil |
| Lab Project ID: | G128-2183 | | |

| Analyte | Result | RL | MDL | Units | Method | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| Formaldehyde | **2200** | 4000 | 430 | ug/kg | SW846 8315A | JB | 2008-05-07 23:00:00 | SPL |

**Comments**
BQL = Below Quantitation Limits
DF = Dilution Factor
RL = Report Limit

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SGS ENVIRONMENTAL SERVICES, INC.

**Analytical Results**

| | | | |
|---|---|---|---|
| Client Sample ID: | DPT-13 | Date Collected: | 2008-04-30 14:00:00 |
| Client Project ID: | NCDOT Tidewater Transit | Date Received: | 2008-05-01 12:45:00 |
| Lab Sample ID: | G128-2183-13 | Matrix: | Soil |
| Lab Project ID: | G128-2183 | | |

| Analyte | Result | RL | MDL | Units | Method | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| Formaldehyde | **3100** | 4000 | 430 | ug/kg | SW846 8315A | JB | 2008-05-07 23:17:00 | SPL |

**Comments**
BQL = Below Quantitation Limits
DF = Dilution Factor
RL = Report Limit

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SGS ENVIRONMENTAL SERVICES, INC.

**Analytical Results**

| | | | |
|---|---|---|---|
| Client Sample ID: | DPT-14 | Date Collected: | 2008-04-30 14:20:00 |
| Client Project ID: | NCDOT Tidewater Transit | Date Received: | 2008-05-01 12:45:00 |
| Lab Sample ID: | G128-2183-14 | Matrix: | Soil |
| Lab Project ID: | G128-2183 | | |

| Analyte | Result | RL | MDL | Units | Method | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| Formaldehyde | **5900** | 4000 | 430 | ug/kg | SW846 8315A | B | 2008-05-07 23:33:00 | SPL |

**Comments**
BQL = Below Quantitation Limits
DF = Dilution Factor
RL = Report Limit

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**Analytical Results**

| | | | |
|---|---|---|---|
| Client Sample ID: | DPT-15 | Date Collected: | 2008-04-30 14:30:00 |
| Client Project ID: | NCDOT Tidewater Transit | Date Received: | 2008-05-01 12:45:00 |
| Lab Sample ID: | G128-2183-15 | Matrix: | Soil |
| Lab Project ID: | G128-2183 | | |

| Analyte | Result | RL | MDL | Units | Method | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| Formaldehyde | **2700** | 4000 | 430 | ug/kg | SW846 8315A | JB | 2008-05-07 23:50:00 | SPL |

**Comments**
BQL = Below Quantitation Limits
DF = Dilution Factor
RL = Report Limit

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SGS ENVIRONMENTAL SERVICES, INC.

**Analytical Results**

| | | | |
|---|---|---|---|
| Client Sample ID: | DPT-16 | Date Collected: | 2008-04-30 14:45:00 |
| Client Project ID: | NCDOT Tidewater Transit | Date Received: | 2008-05-01 12:45:00 |
| Lab Sample ID: | G128-2183-16 | Matrix: | Soil |
| Lab Project ID: | G128-2183 | | |

| Analyte | Result | RL | MDL | Units | Method | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| Formaldehyde | **2300** | 4000 | 430 | ug/kg | SW846 8315A | JB | 2008-05-08 00:07:00 | SPL |

**Comments**
BQL = Below Quantitation Limits
DF = Dilution Factor
RL = Report Limit

Reviewed By:

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## Results for Inorganics

Client Sample ID: DPT-01
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-1F
Lab Project ID: G128-2183

Analyzed By: DCP
Date Collected: 04-30-2008 10:45
Date Received: 05-01-2008 12:45
Matrix: Soil

| Parameter | Result | Units | Procedure | Date Analyzed |
|---|---|---|---|---|
| pH | **6.05** | S.U. | 9045 | 05-19-2008 1638 |
| Temperature | **22.3** | °C | | |

**Comments:**
Samples analyzed out of 15 minute hold time.

Reviewed By:
pH.XLS

## Results for Inorganics

Client Sample ID: DPT-02
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-2F
Lab Project ID: G128-2183

Analyzed By: DCP
Date Collected: 04-30-2008 11:00
Date Received: 05-01-2008 12:45
Matrix: Soil

| Parameter | Result | Units | Procedure | Date Analyzed |
|---|---|---|---|---|
| pH | **6.27** | S.U. | 9045 | 05-19-2008 1644 |
| Temperature | **23.6** | °C | | |

**Comments:**
Samples analyzed out of 15 minute hold time.

Reviewed By: pH.XLS

## Results for Inorganics

Client Sample ID: DPT-03
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-3F
Lab Project ID: G128-2183

Analyzed By: DCP
Date Collected: 04-30-2008 11:15
Date Received: 05-01-2008 12:45
Matrix: Soil

| Parameter | Result | Units | Procedure | Date Analyzed |
|---|---|---|---|---|
| pH | **7.77** | S.U. | 9045 | 05-19-2008 1648 |
| Temperature | **23.8** | °C | | |

**Comments:**
Samples analyzed out of 15 minute hold time.

Reviewed By: pH.XLS

## Results for Inorganics

Client Sample ID: DPT-04
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-4F
Lab Project ID: G128-2183

Analyzed By: DCP
Date Collected: 04-30-2008 11:25
Date Received: 05-01-2008 12:45
Matrix: Soil

| Parameter | Result | Units | Procedure | Date Analyzed |
|---|---|---|---|---|
| pH | **7.07** | S.U. | 9045 | 05-19-2008 1653 |
| Temperature | **23.6** | °C | | |

**Comments:**
Samples analyzed out of 15 minute hold time.

Reviewed By:
pH.XLS

## Results for Inorganics

Client Sample ID: DPT-05
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-5F
Lab Project ID: G128-2183

Analyzed By: DCP
Date Collected: 04-30-2008 11:40
Date Received: 05-01-2008 12:45
Matrix: Soil

| Parameter | Result | Units | Procedure | Date Analyzed |
|---|---|---|---|---|
| pH | **6.47** | S.U. | 9045 | 05-19-2008 1656 |
| Temperature | **23.5** | °C | | |

**Comments:**
Samples analyzed out of 15 minute hold time.

Reviewed By:
pH.XLS

## Results for Inorganics

Client Sample ID: DPT-06
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-6F
Lab Project ID: G128-2183

Analyzed By: DCP
Date Collected: 04-30-2008 11:50
Date Received: 05-01-2008 12:45
Matrix: Soil

| Parameter | Result | Units | Procedure | Date Analyzed |
|---|---|---|---|---|
| pH | **7.90** | S.U. | 9045 | 05-19-2008 1659 |
| Temperature | **23.6** | °C | | |

**Comments:**
Samples analyzed out of 15 minute hold time.

Reviewed By: pH.XLS

## Results for Inorganics

Client Sample ID: DPT-07
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-7F
Lab Project ID: G128-2183

Analyzed By: DCP
Date Collected: 04-30-2008 12:15
Date Received: 05-01-2008 12:45
Matrix: Soil

| Parameter | Result | Units | Procedure | Date Analyzed |
|---|---|---|---|---|
| pH | **7.26** | S.U. | 9045 | 05-19-2008 1706 |
| Temperature | **23.4** | °C | | |

**Comments:**
Samples analyzed out of 15 minute hold time.

Reviewed By:
pH.XLS

## Results for Inorganics

Client Sample ID: DPT-08
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-8F
Lab Project ID: G128-2183

Analyzed By: DCP
Date Collected: 04-30-2008 12:30
Date Received: 05-01-2008 12:45
Matrix: Soil

| Parameter | Result | Units | Procedure | Date Analyzed |
|---|---|---|---|---|
| pH | **7.75** | S.U. | 9045 | 05-19-2008 1710 |
| Temperature | **23.6** | °C | | |

**Comments:**
Samples analyzed out of 15 minute hold time.

Reviewed By:
pH.XLS

## Results for Inorganics

Client Sample ID: DPT-09
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-9F
Lab Project ID: G128-2183

Analyzed By: DCP
Date Collected: 04-30-2008 12:55
Date Received: 05-01-2008 12:45
Matrix: Soil

| Parameter | Result | Units | Procedure | Date Analyzed |
|---|---|---|---|---|
| pH | **8.34** | S.U. | 9045 | 05-19-2008 1714 |
| Temperature | **23.6** | °C | | |

**Comments:**
Samples analyzed out of 15 minute hold time.

Reviewed By:
pH.XLS

## Results for Inorganics

Client Sample ID: DPT-10
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-10F
Lab Project ID: G128-2183

Analyzed By: DCP
Date Collected: 04-30-2008 13:05
Date Received: 05-01-2008 12:45
Matrix: Soil

| Parameter | Result | Units | Procedure | Date Analyzed |
|---|---|---|---|---|
| pH | **8.60** | S.U. | 9045 | 05-19-2008 1718 |
| Temperature | **23.6** | °C | | |

**Comments:**
Samples analyzed out of 15 minute hold time.

Reviewed By:
pH.XLS

## Results for Inorganics

Client Sample ID: DPT-11
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-11F
Lab Project ID: G128-2183

Analyzed By: DCP
Date Collected: 04-30-2008 13:15
Date Received: 05-01-2008 12:45
Matrix: Soil

| Parameter | Result | Units | Procedure | Date Analyzed |
|---|---|---|---|---|
| pH | **8.04** | S.U. | 9045 | 05-19-2008 1728 |
| Temperature | **23.0** | °C | | |

**Comments:**
Samples analyzed out of 15 minute hold time.

Reviewed By:
pH.XLS

## Results for Inorganics

Client Sample ID: DPT-13
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-13F
Lab Project ID: G128-2183

Analyzed By: DCP
Date Collected: 04-30-2008 14:00
Date Received: 05-01-2008 12:45
Matrix: Soil

| Parameter | Result | Units | Procedure | Date Analyzed |
|---|---|---|---|---|
| pH | **8.20** | S.U. | 9045 | 05-19-2008 1733 |
| Temperature | **22.7** | °C | | |

**Comments:**
Samples analyzed out of 15 minute hold time.

Reviewed By:
pH.XLS

## Results for Inorganics

Client Sample ID: DPT-14
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-14F
Lab Project ID: G128-2183

Analyzed By: DCP
Date Collected: 04-30-2008 14:20
Date Received: 05-01-2008 12:45
Matrix: Soil

| Parameter | Result | Units | Procedure | Date Analyzed |
|---|---|---|---|---|
| pH | **8.17** | S.U. | 9045 | 05-19-2008 1739 |
| Temperature | **22.5** | °C | | |

**Comments:**
Samples analyzed out of 15 minute hold time.

Reviewed By:
pH.XLS

## Results for Inorganics

Client Sample ID: DPT-15
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-15F
Lab Project ID: G128-2183

Analyzed By: DCP
Date Collected: 04-30-2008 14:30
Date Received: 05-01-2008 12:45
Matrix: Soil

| Parameter | Result | Units | Procedure | Date Analyzed |
|---|---|---|---|---|
| pH | **8.97** | S.U. | 9045 | 05-19-2008 1744 |
| Temperature | **22.4** | °C | | |

**Comments:**
Samples analyzed out of 15 minute hold time.

Reviewed By:
pH.XLS

## Results for Inorganics

Client Sample ID: DPT-16
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-16F
Lab Project ID: G128-2183

Analyzed By: DCP
Date Collected: 04-30-2008 14:45
Date Received: 05-01-2008 12:45
Matrix: Soil

| Parameter | Result | Units | Procedure | Date Analyzed |
|---|---|---|---|---|
| pH | **7.75** | S.U. | 9045 | 05-19-2008 1748 |
| Temperature | **22.2** | °C | | |

**Comments:**
Samples analyzed out of 15 minute hold time.

Reviewed By:
pH.XLS

SGS ENVIRONMENTAL SERVICES, INC.

# Results for Total Petroleum Hydrocarbons
by **GC/FID 8015**

Client Sample ID: DPT-12 (3-5')
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-12
Lab Project ID: G128-2183
Report Basis: Dry Weight

Analyzed By: DVG
Date Collected: 4/30/2008 13:35
Date Received: 5/1/2008
Matrix: Soil
Solids 96.61

| Analyte | Result MG/KG | RL MG/KG | Prep Method | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|
| Gasoline Range Organics | BQL | 5.67 | 5035 | 1 | 05/05/08 |
| Diesel Range Organics | BQL | 6.13 | 3541 | 1 | 05/03/08 |

Comments:

Flags:

Reviewed By:

SGS ENVIRONMENTAL SERVICES, INC.

# Results for Total Petroleum Hydrocarbons
by **GC/FID 8015**

Client Sample ID: DPT-17 (3-4')
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-17
Lab Project ID: G128-2183
Report Basis: Dry Weight

Analyzed By: DVG
Date Collected: 4/30/2008 15:00
Date Received: 5/1/2008
Matrix: Soil
Solids 98.08

| Analyte | Result MG/KG | RL MG/KG | Prep Method | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|
| Gasoline Range Organics | BQL | 6.41 | 5035 | 1 | 05/05/08 |
| Diesel Range Organics | BQL | 5.95 | 3541 | 1 | 05/03/08 |

Comments:

Flags:

Reviewed By: TPH

SGS ENVIRONMENTAL SERVICES, INC.

# Results for Total Petroleum Hydrocarbons
by **GC/FID 8015**

Client Sample ID: DPT-18
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-18
Lab Project ID: G128-2183
Report Basis: Dry Weight

Analyzed By: DVG
Date Collected: 5/1/2008 10:00
Date Received: 5/1/2008
Matrix: Soil
Solids 97.70

| Analyte | Result MG/KG | RL MG/KG | Prep Method | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|
| Gasoline Range Organics | BQL | 6.27 | 5035 | 1 | 05/05/08 |
| Diesel Range Organics | BQL | 6.09 | 3541 | 1 | 05/03/08 |

Comments:

Flags:

Reviewed By: TPH

SGS ENVIRONMENTAL SERVICES, INC.

# Results for Total Petroleum Hydrocarbons
by **GC/FID 8015**

Client Sample ID: DPT-19
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-19
Lab Project ID: G128-2183
Report Basis: Dry Weight

Analyzed By: DVG
Date Collected: 5/1/2008 10:15
Date Received: 5/1/2008
Matrix: Soil
Solids 95.38

| Analyte | Result MG/KG | RL MG/KG | Prep Method | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|
| Gasoline Range Organics | BQL | 5.92 | 5035 | 1 | 05/05/08 |
| Diesel Range Organics | **452** | 31.5 | 3541 | 5 | 05/05/08 |

Comments:

Flags:

Reviewed By: TPH

SGS ENVIRONMENTAL SERVICES, INC.

# Results for Total Petroleum Hydrocarbons

by **GC/FID 8015**

Client Sample ID: HA-01
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-20
Lab Project ID: G128-2183
Report Basis: Dry Weight

Analyzed By: DVG
Date Collected: 4/30/2008 15:30
Date Received: 5/1/2008
Matrix: Soil
Solids 97.05

| Analyte | Result MG/KG | RL MG/KG | Prep Method | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|
| Gasoline Range Organics | BQL | 5.93 | 5035 | 1 | 05/05/08 |
| Diesel Range Organics | BQL | 5.89 | 3541 | 1 | 05/03/08 |

Comments:

Flags:

Reviewed By: TPH

SGS ENVIRONMENTAL SERVICES, INC.

## Results for Total Petroleum Hydrocarbons
by **GC/FID 8015**

Client Sample ID: HA-02
Client Project ID: NCDOT Tidewater Transit
Lab Sample ID: G128-2183-21
Lab Project ID: G128-2183
Report Basis: Dry Weight

Analyzed By: DVG
Date Collected: 4/30/2008 15:45
Date Received: 5/1/2008
Matrix: Soil
Solids 94.95

| Analyte | Result MG/KG | RL MG/KG | Prep Method | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|
| Gasoline Range Organics | BQL | 6.15 | 5035 | 1 | 05/05/08 |
| Diesel Range Organics | BQL | 6.40 | 3541 | 1 | 05/03/08 |

Comments:

Flags:

Reviewed By: TPH

208-013

# SGS

## CHAIN OF CUSTODY RECORD
## SGS Environmental Services Inc.

Locations Nationwide
- Alaska
- Hawaii
- Ohio
- Maryland
- New Jersey
- North Carolina
- West Virginia

www.us.sgs.com

0902[illegible]

SGS

(1)

CLIENT: NCDOT / CATLIN

CONTACT: Terry Fox / Ben Ashba PHONE NO:( )

PROJECT: NCDOT Tidewater Transit SITE/PWSID#: WBS: 34491.1.2

REPORTS TO: NCDOT & CATLIN E-MAIL: FAX NO.:( )

INVOICE TO: NCDOT QUOTE # State Proj: R-2633B P.O. NUMBER

SGS Reference: G128-2183

PAGE 1 OF 1

(2)

| LAB NO. | SAMPLE IDENTIFICATION | DATE | TIME | MATRIX | No CONTAINERS | SAMPLE TYPE (C=COMP G=GRAB) | Preservatives Used | Analysis Required (3) 8260 | 8270 | Glycols | Formaldehyde | Ph | misc-Chrom | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DPT-01 | 4/30/08 | 1045 | Soil | 8 | C | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | DPT-02 | | 1100 | | | | | | | | | | | |
| | DPT-03 | | 1115 | | | | | | | | | | | |
| | DPT-04 | | 1125 | | | | | | | | | | | |
| | DPT-05 | | 1140 | | | | | | | | | | | |
| | DPT-06 | | 1150 | | | | | | | | | | | |
| | DPT-07 | | 1215 | | | | | | | | | | | |
| | DPT-08 | | 1230 | | | | | | | | | | | |
| | DPT-09 | | 1255 | | | | | | | | | | | |
| | DPT-10 | | 1305 | ✓ | ✓ | ✓ | | X | X | X | X | X | ✓ | |

(5)

| Collected/Relinquished By:(1) | Date | Time | Received By: | Date | Time |
|---|---|---|---|---|---|
| Ben Ashba | 5.1.08 | 1245 | [signature] | 5.1.08 | 1245 |
| Relinquished By: (2) | Date | Time | Received By: | Date | Time |
| Relinquished By: (3) | Date | Time | Received By: | Date | Time |
| Relinquished By: (4) | Date | Time | Received By: | Date | Time |

(4)

Shipping Carrier:

Shipping Ticket No:

Samples Received Cold? (Circle) YES NO

Temperature °C: 5.6, 5.5, 5.3 °C

Special Deliverable Requirements: SUMMARY RPTD AS PER B ASHBA. 5/14/08

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Special Instructions: X Hold for possible analysis

Requested Turnaround Time:

☐ RUSH _____ Date Needed ☒ STD

N.C. CERTIFICATION #481

SGS ENVIRONMENTAL SERVICES, INC.



☐ 200 W. Potter Drive **Anchorage, AK 99518** Tel: (907) 562-2343 Fax: (907) 561-5301
☐ 5500 Business Drive **Wilmington, NC 28405** Tel: (910) 350-1903 Fax: (910) 350-1557
☐ 1270 Greenbrier Street **Charleston, WV 25311** Tel: (304) 346-0725 Fax: (304) 346-0761

White - Retained by Lab
Yellow - Returned with Report
Pink - Retained by Sampler

208-013

# SGS

## CHAIN OF CUSTODY RECORD
## SGS Environmental Services Inc.

Locations Nationwide
- Alaska
- Hawaii
- Ohio
- Maryland
- New Jersey
- North Carolina
- West Virginia

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0882

SGS

1

CLIENT: NCDOT / CATLIN

CONTACT: Terry Fox / Ben Ashley PHONE NO:( )

PROJECT: NCDOT Tidewater Transit SITE/RWSID#: WBS: 34491.1.2

REPORTS TO: NCDOT & CATLIN E-MAIL: FAX NO.:( )

INVOICE TO: NCDOT QUOTE # State Proj: R-2633B P.O. NUMBER

SGS Reference: G128-2183

PAGE 2 OF

2

| LAB NO. | SAMPLE IDENTIFICATION | DATE | TIME | MATRIX | No CONTAINERS | SAMPLE TYPE (C=COMP, G=GRAB) | Preservatives Used | Analysis Required (3) 8260 | 8270 | Glycols | Formaldehyde | ph | Misc-Chrom 2* | D20 | G20 | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DPT-11 | 4.30.08 | 1315 | Soil | 8 | C | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | DPT-12 (3-5') | | 1335 | | 3 | | | ND | ND | ND | ND | | | ✓ | ✓ | |
| | DPT-13 | | 1400 | | 8 | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | DPT-14 | | 1420 | | | | | | | | | | | | | |
| | DPT-15 | | 1430 | | | | | | | | | | | | | unpreserved 8260 |
| | DPT-16 | | 1445 | | | | | | | | | | | | | |
| | DPT-17 (3-4') | | 1500 | | 3 | | | | | | | | | ✓ | ✓ | |
| | DPT-18 | 5.1.08 | 1000 | | 3 | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | changed per BOA 5/9/08 gl |
| | DPT-19 | 5.1.08 | 1015 | | 3 | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | MA-01 | 4.30.08 | 1530 | | 3 | | | | | | | | | ✓ | ✓ | |
| | MA-02 | 4.30.08 | 1545 | | 3 | | | | | | | | | ✓ | ✓ | |

5

| | | | | | |
|---|---|---|---|---|---|
| Collected/Relinquished By:(1) Ben Ashley | Date 5.1.08 | Time 1245 | Received By: | Date 5.1.08 | Time 1245 |
| Relinquished By: (2) | Date | Time | Received By: | Date | Time |
| Relinquished By: (3) | Date | Time | Received By: | Date | Time |
| Relinquished By: (4) | Date | Time | Received By: | Date | Time |

4

Shipping Carrier:

Shipping Ticket No:

Samples Received Cold? (Circle) YES NO

Temperature °C: 5.6, 5.5, 5.5 3°C

Special Deliverable Requirements:

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Special Instructions: HOLD 1 4oz Jar for possible additional analysis

Requested Turnaround Time:

☐ RUSH _____ Date Needed ☒ STD

N.C. CERTIFICATION #481

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