



Engineering of NC INC

an affiliate of **The GEL Group** INC

PRELIMINARY SITE ASSESSMENT REPORT

**3026 Old Cullowhee Road (SR 1002)
Robert Wheatley Property
Parcel 015
Cullowhee, North Carolina
State Project B-4159
WBS Element #33507.1.1
Jackson County**

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

April 23, 2014

PRELIMINARY SITE ASSESSMENT REPORT

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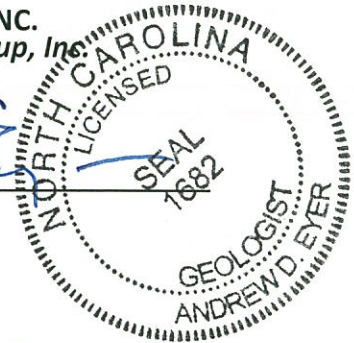
Signature Page

This document, entitled *Preliminary Site Assessment Report*, has been prepared for the Bob Wheatley property, located at 3026 Old Cullowhee Road (Parcel015) in Cullowhee, North Carolina (State Project B-4159, WBS Element #33507.1.1, Jackson County). It has been prepared by GEL Engineering of NC, Inc. in accordance with the Notice to Proceed provided by the North Carolina Department of Transportation-GeoEnvironmental Section, Geotechnical Engineering Unit for the exclusive use of the North Carolina Department of Transportation. It has been prepared in accordance with accepted quality control practices and has been reviewed by the undersigned.

GEL ENGINEERING OF NC, INC.
an Affiliate of The GEL Group, Inc.



Andrew D. Eyer, L.G.
Senior Project Manager



04-23-14

Date

PRELIMINARY SITE ASSESSMENT REPORT

**3026 Old Cullowhee Road (SR 1002)
Bob Wheatley Property, Parcel 015
Cullowhee, North Carolina
State Project B-4159, WBS Element #33507.1.1
Jackson County**

Executive Summary

The subject site is the Bob Wheatley property (Parcel 015) located at 3026 Old Cullowhee Road (SR 1002) in Cullowhee, North Carolina. The primary purpose of this investigation was to evaluate the presence or absence of underground storage tanks (USTs) and constituents of concern in soil within the North Carolina Department of Transportation (NCDOT) existing and proposed Rights-of-Way (ROWs) and easements fronting Parcel 015, as a result of previous and/or current operations at the subject site.

Parcel 015 is located adjacent to and between Parcels 013 and 017 and extends to the west, where it borders the Tuckasegee River. It contains an apartment building near the front of the property and a single-family residence in the rear portion of the property. The investigation area for the preliminary site assessment for Parcel 015 was located within a small area fronting Old Cullowhee Road. The preliminary site assessment was conducted by GEL Engineering of NC, Inc. (GEL) in accordance with the Notice to Proceed issued by NCDOT on December 16, 2013.

The preliminary site assessment was conducted within the existing and proposed NCDOT ROWs and easements fronting Parcel 015 and included a geophysical investigation, and the collection and analysis of soil samples. No subsurface anomalies indicative of suspected or known USTs were identified, and it has been concluded that there are no USTs present within the existing or proposed ROWs or easements.

Executive Summary (continued)

A soil sample was collected for analysis from one boring constructed within the preliminary site assessment investigation area. The soil sample was analyzed for DRO and GRO, and VOCs, and SVOCs. GRO was not detected in the sample, but DRO was detected by QROS at a level of 23 milligrams per kilogram (mg/kg), which exceeds the NDENR action level for DRO (10 mg/kg). Detection of the elevated DRO level indicates the possibility of soil impact from petroleum.

Based on the detection of elevated DRO concentration in one soil sample, it is estimated that there is an approximate total volume of 92 cubic yards of impacted soil (DRO >10 mg/kg) in the vicinity of boring S15-1.

No additional environmental investigation of the soil at the site by NCDOT is recommended at this time. However, it is recommended that soils excavated in the vicinity of boring S15-1 as part of planned construction activities by NCDOT be handled appropriately and further characterized for petroleum constituents, as needed.

PRELIMINARY SITE ASSESSMENT REPORT

**3026 Old Cullowhee Road (SR 1002)
Bob Wheatley Property, Parcel 015
Cullowhee, North Carolina
State Project B-4159, WBS Element #33507.1.1
Jackson County**

1.0 Introduction

This document presents the details of a geophysical survey and preliminary site assessment performed within the North Carolina Department of Transportation (NCDOT) existing and proposed Rights-of-Way (ROWs) and easements at the Bob Wheatley property (Parcel 015) located at 3026 Old Cullowhee Road (SR 1002) in Cullowhee, North Carolina.

Parcel 015 is located adjacent to and between Parcels 013 and 017 and extends to the west, where it borders the Tuckasegee River. It contains an apartment building near the front of the property and a single-family residence in the rear portion of the property. The site location is shown on Figure 1, an excerpt from the United States Geological Survey (USGS) 7.5-minute quadrangle map of Sylva South, North Carolina. The investigation area for the preliminary site assessment for Parcel 015 was located within the portion of the parcel with frontage on Old Cullowhee Road, as shown in Figure 2. The preliminary site assessment was conducted by GEL Engineering of NC, Inc. (GEL) in accordance with the Notice to Proceed issued by NCDOT on December 16, 2013.

The primary purpose of this investigation was to evaluate the presence or absence of underground storage tanks (USTs) and/or constituents of concern in soil within the NCDOT ROWs and proposed easements at the subject site as a result of current and/or former operations.

2.0 Background

NCDOT is planning road improvements to the area in the vicinity of Old Cullowhee Road in Cullowhee, North Carolina. NCDOT wanted to assess the area in the ROW and proposed easements on the west side of Old Cullowhee Road fronting Parcel 015 to evaluate the presence or absence of USTs and soil contamination related to the current and/or former on-site operations, and the impact (if any) of these operations on the proposed road improvements. Figures 2 through 4 show the general site layout for Parcel 015.

There is currently no visible evidence of existing USTs or vents at the site, and representatives of the North Carolina Department of Environment and Natural Resources (NCDENR) Asheville District Office indicated that there are no files for the site in its database. No NCDENR UST Incident number or Facility ID number has been assigned to the property. However, adjacent Parcel 013 was previously assigned UST Incident No. 28651, which is no longer active.

A groundwater monitoring well was observed on Parcel 015, as shown on Figure 4, and is located within the preliminary site investigation area shown in Figure 2. GEL assigned an ID of MW15-1 to the well as part of preliminary assessment. Files in the NCDENR Asheville District Office for UST Incident No. 7281 (Parcel 011) indicated that this well was originally identified as well Q94a10, and was part of series of groundwater monitoring wells that were installed at properties located along Old Cullowhee Road by NCDENR approximately 20 to 25 years ago in an effort to locate the source of a petroleum-impacted groundwater contaminant plume that had impacted a drinking water well in Cullowhee. The most recent groundwater quality data reported for the well is provided in a 2002 report prepared by SEI, P.C. that indicates that the well was sampled in June 1999. The data for that sampling event indicate that benzene was the only constituent exceeding the NCDENR 2L standard. Benzene was detected at a level of 1.60 microgram per liter (ug/L), which slightly exceeds the NCDENR 2L standard of 1 mg/L. The well was dry when SEI, P.C. attempted to sample it in April 2002, and is currently inaccessible. Northing and Easting coordinates for the well are listed in the table in Section 4.2 of this report.

3.0 Local Geology and Surroundings

Parcel 015 is located in a developed area of Cullowhee in Jackson County, North Carolina. Surrounding land uses include residential and commercial activities.

This area is located in the Blue Ridge Belt within the Blue Ridge Physiographic of North Carolina. The land surface of the area is characterized by mountainous terrain. The Blue Ridge Belt is typified by a complex of sedimentary, metamorphic, and igneous rocks, including felsic gneiss and granite that are Late Proterozoic in age. The Cullowhee area is located adjacent to and within the Tuckasegee River floodplain.

The United States Department of Agriculture's *Web Soil Survey* (2014) (<http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>) maps the native soil in the investigation area as "Braddock-Urban Land Complex" (BrC), which is characterized as stream terraces consisting of clay and clay loam derived from old alluvium. The soils encountered at the site during the preliminary site assessment consisted predominantly of red sandy silt and silty clay.

Groundwater was not encountered in the boring constructed at the site as part of the preliminary site assessment. Previous depth to groundwater measurements made in monitoring wells located in the Cullowhee area indicate the water table in the area of the site is typically located at depths of at least 10 to 20 feet below ground surface (bgs). Based on the USGS topographic map presented as Figure 1, the site is located approximately 2100 feet above mean sea level. The topography in Figure 1 indicates that groundwater in the vicinity of Parcel 015 most likely flows in a westerly direction towards the Tuckasegee River.

4.0 Subsurface Investigation

To evaluate the presence or absence of USTs and/or impact to subsurface soil within the NCDOT ROW and proposed easements for Parcel 015, GEL performed a limited site assessment that consisted of the following tasks:

- Performance of a geophysical investigation to identify the presence or absence of USTs and associated appurtenances within the northerly ROW and proposed easements of Old Cullowhee Road fronting Parcel 015.
- Soil vapor screening of soil samples collected from one subsurface soil boring located within the northerly ROW and proposed easements of Old Cullowhee Road fronting Parcel 015 to evaluate the potential presence or absence of soil impact from petroleum constituents of concern.
- Collection and laboratory analysis of a soil sample from the subsurface soil boring.

The details of these tasks are discussed in the following sections.

4.1 Geophysical Survey

The geophysical survey included the deployment of ground penetrating radar (GPR) technology and time domain electromagnetic technology (TDEM) to the site. These

technologies were used in concert with one another in order to identify subsurface metallic anomalies and, more specifically, to identify the potential presence of USTs within the investigation area. A brief description of each technology is presented in the following paragraphs followed by a discussion of the results of the geophysical investigation.

4.1.1 Ground Penetrating Radar Methodology

A RAMAC digital radar control system configured with a 250 Megahertz (MHz) antenna array was used in this investigation. GPR is an electromagnetic geophysical method that detects interfaces between subsurface materials with differing dielectric constants. The GPR system consists of an antenna that houses the transmitter and receiver, a digital control unit that both generates and digitally records the GPR data, and a color video monitor to view data as they are collected in the field.

The transmitter radiates repetitive short-duration electromagnetic waves (at radar frequencies) into the earth from an antenna moving across the ground surface. These radar waves are reflected back to the receiver from the interface of materials with different dielectric constants. The intensity of the reflected signal is a function of the contrast in the dielectric constant between the materials, the conductivity of the material through which the wave is traveling, and the frequency of the signal. Subsurface features that commonly cause such reflections are: 1) natural geologic conditions, such as changes in sediment composition, bedding, and cementation horizons and voids; or 2) unnatural changes to the subsurface, such as disturbed soils, soil backfill, buried debris, tanks, pipelines, and utilities. The digital control unit processes the signal from the receiver and produces a continuous cross-section of the subsurface interface reflection events.

GPR data profiles are collected along transects, which are measured paths along which the GPR antenna is moved. During a survey, marks are placed in the data by the operator at designated points along the GPR transects or with a survey wheel odometer. These marks allow for a correlation between the GPR data and the position of the GPR antenna on the ground.

Depth of investigation of the GPR signal is highly site-specific and is limited by signal attenuation (absorption) in the subsurface materials. Signal attenuation is dependent

on the electrical conductivity of the subsurface materials. Signal attenuation is greatest in materials with relatively high electrical conductivities, such as clays, brackish groundwater, or groundwater with a high dissolved solid content from natural or man-made sources. Signal attenuation is lowest in relatively low-conductivity materials, such as dry sand or rock. Depth of investigation is also dependent on the antenna's transmitting frequency. Depth of investigation generally increases as transmitting frequency decreases; however, the ability to resolve smaller subsurface features is diminished as frequency is decreased.

The GPR antenna used at this site is internally shielded from aboveground interference sources. Accordingly, the GPR response is not affected by overhead power lines, metallic buildings, or nearby objects.

4.1.2 Time Domain Electromagnetic Methodology

The TDEM methods measure the electrical conductivity of subsurface materials. The conductivity is determined by inducing (from a transmitter) a time or frequency-varying magnetic field and measuring (with a receiver) the amplitude and phase shift of an induced secondary magnetic field. The secondary magnetic field is created by subsurface conductive materials behaving as an inductor as the primary magnetic field is passed through them.

The Geonics EM-61 system used in this investigation operates within these principles. However, the EM-61 TDEM system can discriminate between moderately conductive earth materials and very conductive metallic targets. The EM-61 consists of a portable coincident loop time domain transmitter and receiver with a 0.5-meter by 1.0-meter coil system. The EM-61 generates 150 pulses per second and measures the response from the ground after transmission or between pulses. The secondary EM responses from metallic targets are of longer duration than those created by conductive earth materials. By recording the later time EM arrivals, only the response from metallic targets is measured, rather than the field generated by the earth material.

4.1.3 Field Procedures

The GPR and TDEM field investigation was performed on December 17, 2013, within the existing and proposed ROWs and easements fronting Parcel 015, as shown in Figure 3. A GPR system time range setting of 90 nanoseconds (ns) was used during the entire

investigation. This range was determined after a series of test lines were conducted to evaluate the GPR response in the local geologic section. Interpretation of the GPR data was conducted in the field and any potential anomalies were marked in the field. GPR data processing typically included band pass filtering, background removal, horizontal smoothing, and gain adjustments. TDEM was also used to scan the project site. Any electromagnetic anomalies indicative of buried metallic objects were marked in the field.

It should be noted that NC 811 underground utility locations had been performed within the investigation area at Parcel 015 prior to the initiation of the preliminary site assessment field activities at the site and were marked with paint.

The TDEM and GPR data did not indicate the presence of “Known USTs,” “Probable USTs,” or “Possible USTs” in the subsurface of the investigation area. Additionally, there was no visual evidence of USTs in the investigation area. The red area shown within the Parcel 015 investigation area on Figure 3 is an EM-61 signature caused by a steel manhole cover, and is not indicative of an underground anomaly.

4.2 Subsurface Soil Investigation

To evaluate the presence or absence of impact to subsurface soil by constituents of concern, GEL collected soil samples from one subsurface soil boring, S15-1 at Parcel 015 on December 17, 2013, for analysis of total petroleum hydrocarbon indicator parameters. The soil borings were constructed within the westerly ROW and proposed easements of Old Cullowhee Road, as shown on Figure 4. The northing and easting coordinates for the boring location are listed in the table below.

**Summary of Location Data and PID Measurements for Soil Samples
Collected for Analysis and Existing Monitoring Well at Parcel 019**

Soil Boring	Depth Interval of Soil Sample Collected for Analysis (feet bgs)	PID Reading (ppm)	Northing	Easting
S15-1	7-8	0.0	596653.340	754291.688
Monitoring Well				
MW15-1	N/A	N/A	596660.126	754284.548

Notes:

- 1) Northings and Eastings are based on the NC State Plane Coordinate System
- 2) bgs = below ground surface
- 3) PID = photoionization detector
- 4) ppm = parts per million

Boring S15-1 was advanced to a total depth of 8 feet bgs. Soil samples were collected at depths of 3-4 feet and 7-8 feet from the borehole. Both soil samples were inspected for indications of impact by constituents of concern, including petroleum hydrocarbons, such as odors, discoloration, or visible sheen. This sampling was accomplished using DPT provided by Regional Probing. Soil boring lithologic logs are attached as Appendix II of this document. Groundwater was not encountered in any borings.

The soil samples were screened for the presence of organic vapors using a portable photoionization detector (PID). The PID measures the concentration of organic compounds in the vapor space above a soil sample resulting from volatilization of organic compounds contained in the soil. To screen the soils, each sample was placed in a clean, resealable polyethylene bag. The bag was sealed, and the sample was allowed to equilibrate for approximately 5 minutes, after which time a small opening was made in the bag. The probe of the PID was then inserted into the bag, and the airspace above the soil was screened for organic vapors.

No organic vapor concentrations were measured in either of the soil screening samples collected from the two borings. Therefore, to assess the subsurface soil quality, the soil sample collected at a depth of 7-8 feet bgs from boring S15-1 was designated for analysis. One-half of the designated soil sample was submitted to each of two separate laboratories for analysis.

Following completion of the soil sampling activities, the boring was abandoned by filling the borehole with soil cuttings and hydrated bentonite. Splits for the soil sample were submitted to QROS' analytical laboratory affiliate (KB Labs, Inc.) in Gainesville, Florida for analysis of petroleum hydrocarbon constituents using Ultra-violet Fluorescence Spectrometry. A soil sample split was also submitted to Pace Analytical Services, Inc. (Pace) in Huntersville, North Carolina for analysis of volatile organic compounds (VOCs) by EPA Method 8260B and semi-volatile organic compounds (SVOCs) by EPA Method 8270D, since possible soil impact from released solvents was suspected due to an auto repair operation that was previously conducted on adjacent Parcel 013. The analytical results are included on the Certificates of Analysis provided in Appendix III, and a summary of the analytical results is presented in Table 1. The QROS results indicate that GRO was not detected in the soil sample. However, a concentration of 23 milligrams per kilogram (mg/kg) DRO was reported for the sample, which exceeds the NCDENR action level for DRO (10 mg/kg). No VOCs or SVOCs were detected in the soil sample by Pace.

The detection of DRO in sample S15-1 at a level exceeding the NCDENR action level indicates that soil in the vicinity of the soil boring may be impacted by petroleum. It is estimated that there is an approximate total volume of 92 cubic yards of impacted soil (DRO >10 mg/kg) in the vicinity of boring S15-1 based on the following assumed area within the investigation area (as shown on Figure 4) and assumed depth of impacted soil:

Boring S15-1 Area

312 square feet x 8 feet = 92 cubic yards

5.0 Conclusions and Recommendations

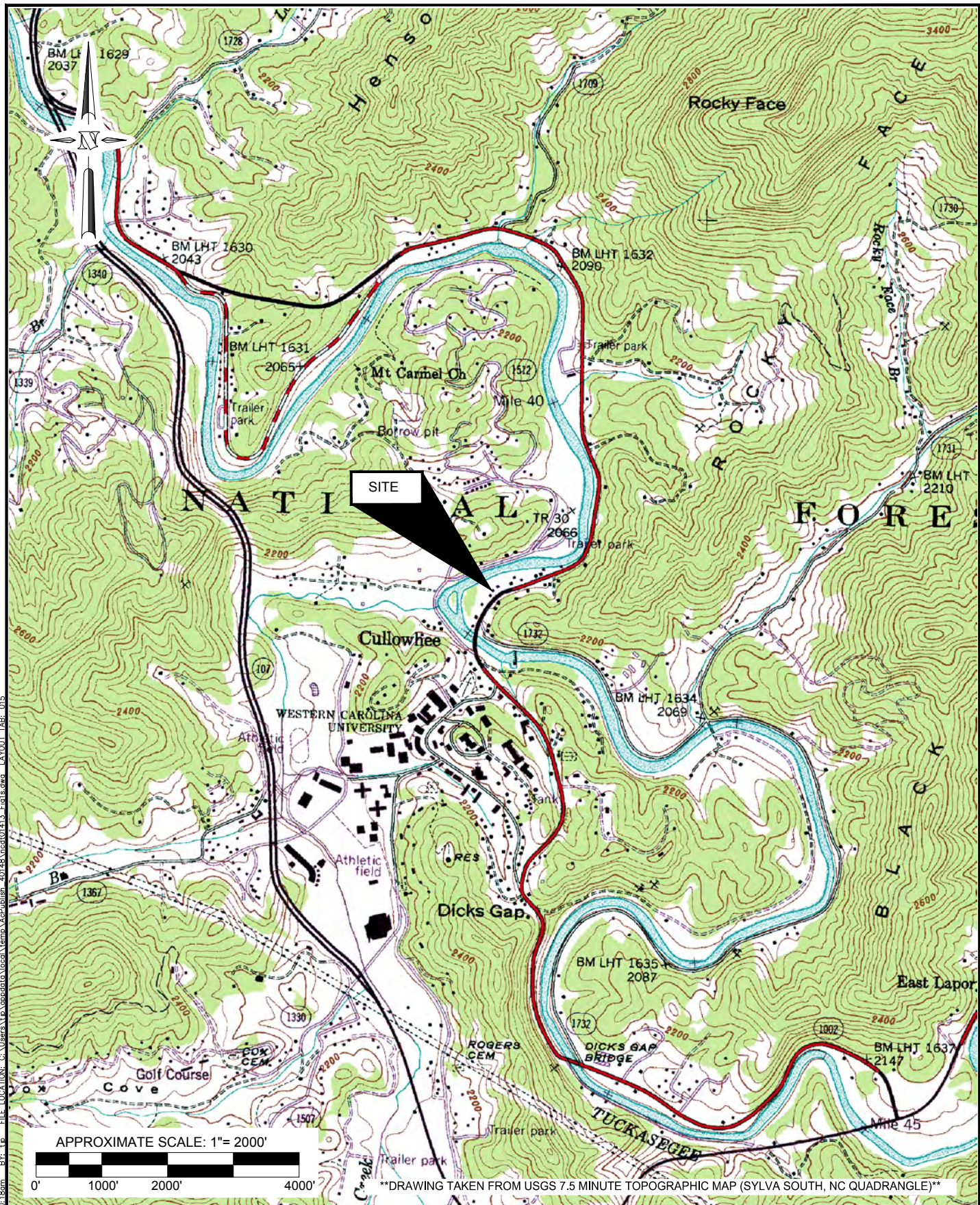
GEL performed a preliminary site assessment within the NCDOT westerly ROW and proposed easements fronting Parcel 015 that included a geophysical investigation, and the collection and analysis of soil samples. No subsurface anomalies indicative of suspected or known USTs were identified within the investigation area, and it has been concluded that there are no USTs present within the westerly existing and proposed ROWs and proposed easements adjacent to the site.

A soil sample was collected for analysis from one boring constructed within the preliminary site assessment investigation area. The soil sample was analyzed for DRO and GRO, and VOCs and SVOCs. GRO was not detected in the sample, but DRO was detected by QROS at a level of 23 mg/kg, which exceeds the NDENR action level for DRO (10 mg/kg). Detection of the elevated DRO level indicates the possibility of soil impact from petroleum.

Based on the detection of elevated an DRO concentration in the soil sample collected in the Parcel 015 investigation area, it is estimated that there is an approximate total volume of 92 cubic yards of impacted soil (DRO >10 mg/kg) in the vicinity of boring S15-1.

No additional environmental investigation of the soil at the site by NCDOT is recommended at this time. However, it is recommended that soils excavated in the vicinity of boring S15-1 as part of planned construction activities by NCDOT be handled appropriately and further characterized for petroleum constituents, as needed.

FIGURES



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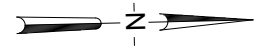
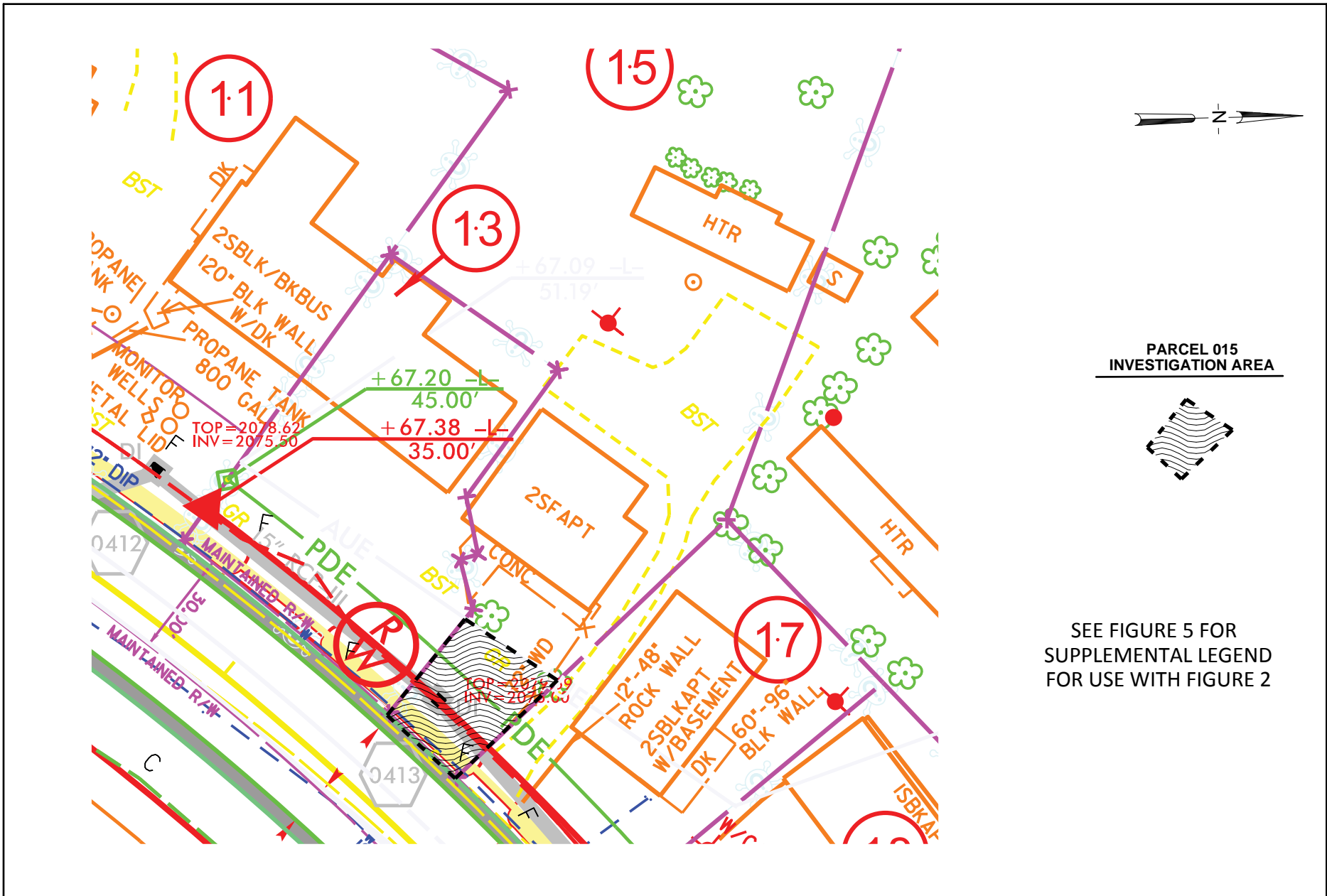
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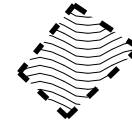
PROJECT: ncdt01413
 PRELIMINARY SITE ASSESSMENT
 PARCEL 015
 CULLOWHEE, JACKSON COUNTY,
 NORTH CAROLINA
 TIP NO. B-4159, WBS ELEMENT NO. 33507.1.1
 DATE: February 3, 2014

SITE LOCATION
 MAP
 DRAWN: TJP APPRV.: ADE


FIGURE
 1

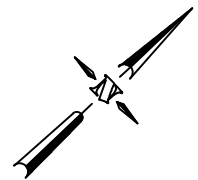
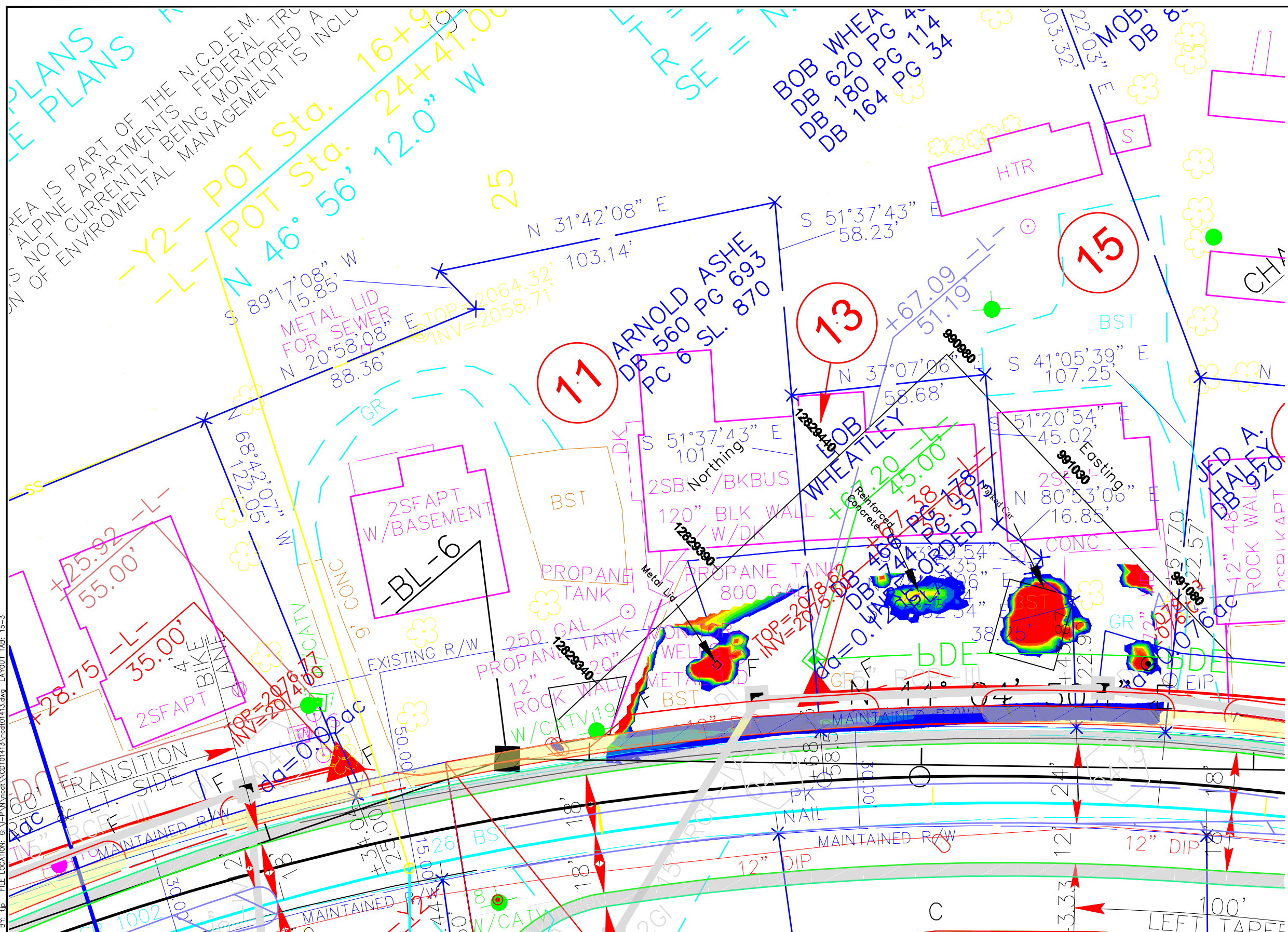


PARCEL 015
INVESTIGATION AREA

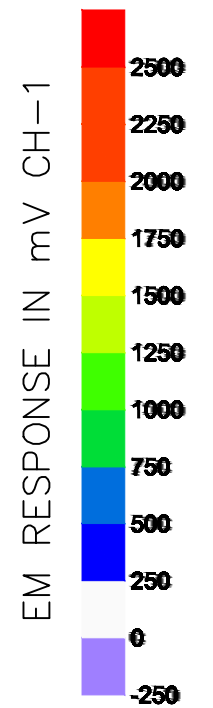


SEE FIGURE 5 FOR
SUPPLEMENTAL LEGEND
FOR USE WITH FIGURE 2

<p>GEL ENGINEERING of NC, Inc. an Affiliate of THE GEL GROUP, Inc.</p>  <p>Post Office Box 14262 Research Triangle Park, NC 27709 (919) 544-1100</p>	<p>PROJECT: ncd01413</p>		
	<p>PRELIMINARY SITE ASSESSMENTS JACKSON COUNTY, NORTH CAROLINA TIP NO. B-4159, WBS ELEMENT NO. 33507.1.1</p>	<p>DESIGNATED INVESTIGATION AREA FOR PARCEL 015</p>	<p>FIGURE 2</p>
	<p>DATE: February 25, 2014</p>	<p>DRAWN BY: ADE</p>	

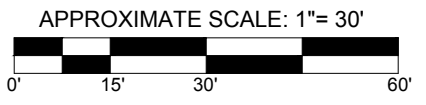


SEE FIGURE 5 FOR SUPPLEMENTAL LEGEND FOR USE WITH FIGURE 3



NOTES

1. UNDERGROUND FEATURES WERE LOCATED USING VISUAL EVIDENCE, GROUND PENETRATING RADAR (GPR), AND TIME DOMAIN ELECTROMAGNETIC (TDEM) METHODS. OTHER BURIED UTILITIES AND STRUCTURES MAY EXIST BUT WERE NOT DETECTED DUE TO LIMITATIONS OF THE GEOPHYSICAL METHODS, SITE ACCESS, AND/OR HIGH TARGET CONGESTION. THEREFORE, DUE CAUTION SHOULD BE USED WHEN PERFORMING SUBSURFACE EXCAVATION ACTIVITIES WHERE POTENTIAL CONFLICTS EXIST. GEL ENGINEERING OF NC, INC. IS NOT RESPONSIBLE FOR DAMAGES THAT MAY OCCUR. IDENTIFYING THE LOCATION OF SOME UTILITIES MAY ONLY BE POSSIBLE WITH VACUUM OR OTHER EXCAVATION METHODS.
2. FIELD SURVEY CONDUCTED ON 12.16-19.13.
3. DATA FROM GEONICS, LTD. EM-61 MKII AND MALA GEOSCIENCE GROUND PENETRATING RADAR.
4. BASE MAP PROVIDED BY NCDOT. GEL ENGINEERING OF NC IS NOT LIABLE FOR ACCURACY.



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problem solved

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PROJECT: ncdt01413
PRELIMINARY SITE ASSESSMENT
PARCEL 015
CULLOWHEE, JACKSON COUNTY,
NORTH CAROLINA
TIP NO. B-4159, WBS ELEMENT NO. 33507.1.1

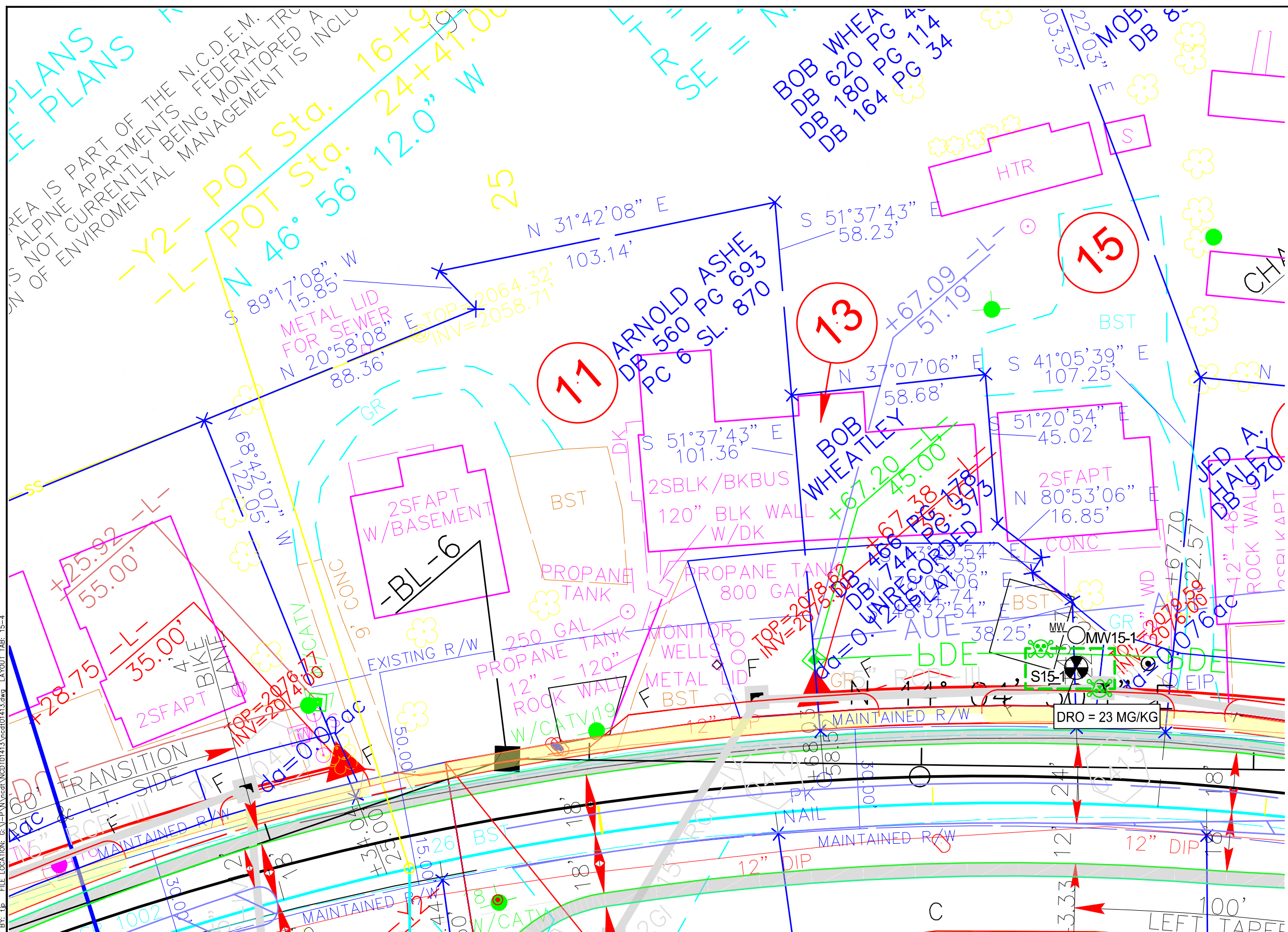
DATE: April 21, 2014

SITE MAP SHOWING RESULTS OF
GEOPHYSICAL INVESTIGATION

DRAWN BY: TJP APPRV. BY: ADE

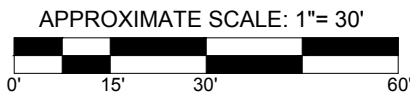
FIGURE
3

SEE FIGURE 5 FOR SUPPLEMENTAL LEGEND FOR USE WITH FIGURE 3



LEGEND

- S15-1 SOIL BORING LOCATION
- MW MW15-1 EXISTING MONITORING WELL LOCATION
- KNOWN SOIL CONTAMINATION
- DRO CONCENTRATION DETECTED BY QROS



PLOTTED: Apr 22, 2014 - 6:25pm BY: jlp FILE LOCATION: G:\P\N\ncdt01413\ncdt01413.dwg LAYOUT: TAB: 15-4

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problem solved

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PROJECT: ncdt01413
 PRELIMINARY SITE ASSESSMENT
 PARCEL 015
 CULLOWHEE, JACKSON COUNTY,
 NORTH CAROLINA
 TIP NO. B-4159, WBS ELEMENT NO. 33507.1.1

DATE: April 21, 2014

SITE MAP SHOWING LOCATIONS OF
 SOIL BORINGS AND
 EXISTING MONITORING WELLS

DRAWN BY: TJP APPRV. BY: ADE

FIGURE
 4

Note: Not to Scale
 *S.U.E. = *Subsurface Utility Engineering*

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

PROJECT REFERENCE NO. **B-4159**
 SHEET NO. **5**

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

- State Line
- County Line
- Township Line
- City Line
- Reservation Line
- Property Line
- Existing Iron Pin
- Property Corner
- Property Monument
- Parcel/Sequence Number
- Existing Fence Line
- Proposed Woven Wire Fence
- Proposed Chain Link Fence
- Proposed Barbed Wire Fence
- Existing Wetland Boundary
- Proposed Wetland Boundary
- Existing Endangered Animal Boundary
- Existing Endangered Plant Boundary
- Known Soil Contamination: Area or Site
- Potential Soil Contamination: Area or Site

BUILDINGS AND OTHER CULTURE:

- Gas Pump Vent or UG Tank Cap
- Sign
- Well
- Small Mine
- Foundation
- Area Outline
- Cemetery
- Building
- School
- Church
- Dam

HYDROLOGY:

- Stream or Body of Water
- Hydro, Pool or Reservoir
- Jurisdictional Stream
- Buffer Zone 1
- Buffer Zone 2
- Flow Arrow
- Disappearing Stream
- Spring
- Wetland
- Proposed Lateral, Tail, Head Ditch
- False Sump

RAILROADS:

- Standard Gauge
- RR Signal Milepost
- Switch
- RR Abandoned
- RR Dismantled

RIGHT OF WAY:

- Baseline Control Point
- Existing Right of Way Marker
- Existing Right of Way Line
- Proposed Right of Way Line
- Proposed Right of Way Line with Iron Pin and Cap Marker
- Proposed Right of Way Line with Concrete or Granite RW Marker
- Proposed Right of Way Line with Concrete CA Marker
- Proposed Control of Access Line with Concrete CA Marker
- Existing Control of Access
- Proposed Control of Access
- Existing Easement Line
- Proposed Temporary Construction Easement
- Proposed Temporary Drainage Easement
- Proposed Permanent Drainage Easement
- Proposed Permanent Drainage / Utility Easement
- Proposed Permanent Utility Easement
- Proposed Temporary Utility Easement
- Proposed Aerial Utility Easement
- Proposed Permanent Easement with Iron Pin and Cap Marker

ROADS AND RELATED FEATURES:

- Existing Edge of Pavement
- Existing Curb
- Proposed Slope Stakes Cut
- Proposed Slope Stakes Fill
- Proposed Curb Ramp
- Existing Metal Guardrail
- Proposed Guardrail
- Existing Cable Guiderail
- Proposed Cable Guiderail
- Equality Symbol
- Pavement Removal

VEGETATION:

- Single Tree
- Single Shrub
- Hedge
- Woods Line

- Orchard
- Vineyard

EXISTING STRUCTURES:

- MAJOR:
 - Bridge, Tunnel or Box Culvert
 - Bridge Wing Wall, Head Wall and End Wall
- MINOR:
 - Head and End Wall
 - Pipe Culvert
 - Footbridge
 - Drainage Box: Catch Basin, DI or JB
 - Paved Ditch Gutter
 - Storm Sewer Manhole
 - Storm Sewer

UTILITIES:

- POWER:
 - Existing Power Pole
 - Proposed Power Pole
 - Existing Joint Use Pole
 - Proposed Joint Use Pole
 - Power Manhole
 - Power Line Tower
 - Power Transformer
 - UG Power Cable Hand Hole
 - H-Frame Pole
 - Recorded UG Power Line
 - Designated UG Power Line (S.U.E.*)
- TELEPHONE:
 - Existing Telephone Pole
 - Proposed Telephone Pole
 - Telephone Manhole
 - Telephone Booth
 - Telephone Pedestal
 - Telephone Cell Tower
 - UG Telephone Cable Hand Hole
 - Recorded UG Telephone Cable
 - Designated UG Telephone Cable (S.U.E.*)
 - Recorded UG Telephone Conduit
 - Designated UG Telephone Conduit (S.U.E.*)
 - Recorded UG Fiber Optics Cable
 - Designated UG Fiber Optics Cable (S.U.E.*)

WATER:

- Water Manhole
- Water Meter
- Water Valve
- Water Hydrant
- Recorded UG Water Line
- Designated UG Water Line (S.U.E.*)
- Above Ground Water Line

TV:

- TV Satellite Dish
- TV Pedestal
- TV Tower
- UG TV Cable Hand Hole
- Recorded UG TV Cable
- Designated UG TV Cable (S.U.E.*)
- Recorded UG Fiber Optic Cable
- Designated UG Fiber Optic Cable (S.U.E.*)

GAS:

- Gas Valve
- Gas Meter
- Recorded UG Gas Line
- Designated UG Gas Line (S.U.E.*)
- Above Ground Gas Line

SANITARY SEWER:

- Sanitary Sewer Manhole
- Sanitary Sewer Cleanout
- UG Sanitary Sewer Line
- Above Ground Sanitary Sewer
- Recorded SS Forced Main Line
- Designated SS Forced Main Line (S.U.E.*)

MISCELLANEOUS:

- Utility Pole
- Utility Pole with Base
- Utility Located Object
- Utility Traffic Signal Box
- Utility Unknown UG Line
- UG Tank; Water, Gas, Oil
- Underground Storage Tank, Approx. Loc.
- AG Tank; Water, Gas, Oil
- Geoenvironmental Boring
- UG Test Hole (S.U.E.*)
- Abandoned According to Utility Records
- End of Information

NOTE: LEGEND WAS PROVIDED BY NCDOT

GEL ENGINEERING of NC, Inc.
 an Affiliate of THE GEL GROUP, Inc.



Post Office Box 14262
 Research Triangle Park, NC 27709
 (919) 544-1100

PROJECT: ncdt01413	PRELIMINARY SITE ASSESSMENT PARCEL 015 CULLOWHEE, JACKSON COUNTY, NORTH CAROLINA TIP NO. B-4159, WBS ELEMENT NO. 33507.1.1	SUPPLEMENTAL LEGEND FOR USE WITH FIGURES 2, 3, AND 4	FIGURE 5
DATE: April 2, 2014	DRAWN BY: ADE		

TABLES

TABLE 1

SUMMARY OF ANALYTICAL RESULTS FOR COLLECTED SOIL SAMPLES

Preliminary Site Assessment
 Parcel 015, 3026 Old Cullowhee Road
 Cullowhee, Jackson County, North Carolina
 State Project No. B-4159, WBS Element #33507.1.1

Sample ID	Diesel Range Organics (DRO)		Gasoline Range Organics (GRO)		QROS Analytical Results					Pace Analytical Results	
	QROS	Pace	QROS	Pace	BTEX (C6-C9)	TPH (C5-C35)	Total Aromatics (C10-C35)	16 EPA PAHs	Benzo(a)pyrene	VOCs	SVOCs
S15-1	23	NA	< 0.5	NA	< 0.5	23	17.5	0.4	< 0.027	ND	ND
<i>NCDENR Action Level</i>	10	10	10	10							
<i>NCDENR MSCC</i>									0.096		

Notes:

- 1) All reported values are shown in milligrams per kilogram (mg/kg).
- 2) MSCC = NCDENR's Maximum Soil Contaminant Concentration Levels (April 2012); MSCC shown is the lowest of established Residential Soil Cleanup Levels and Soil-to Groundwater Maximum Contaminant Concentration shown in the NCDENR MSCC Table for any given constituent.
- 3) NA = Not analyzed
- 4) ND = No VOCs/SVOCs detected above the Method Detection Limit.
- 5) Reported values exceeding corresponding NCDENR Action Levels or MSCCs are highlighted in yellow.

APPENDICES

APPENDIX I
PHOTOGRAPHS



Photograph 1: Aerial view showing boring location S15-1 and existing monitoring well MW15-1 on Parcel 015. West is at the top of photo (aerial is from Google Earth).

APPENDIX II

SOIL BORING LITHOLOGIC LOGS

SOIL BORING LOG

Boring/Well No.: **S15-1**

Date Started: 12/17/13

Date Completed: 12/17/13

No.	Depth Interval	Blow Counts	PID (ppm)	Soil Description	Soil Type
1	0.0' – 2.5'	--	--	Red Clay; Moist; Cohesive, tight clay; Asphalt/gravel 0'-0.5'	CL
2	2.5' – 4.0'	--	0.0	Red/Brown Sandy Silt with Gravel; Moist; River rock, rounded quartz	ML
3	4.0' – 8.0'	--	0.0	Red Silt with Sand; Moist; rounded quartz	ML
4					
5				Total depth = 8 feet below land surface	
6					
7					
8					
9					
10					

Notes:

- 1) 4-foot continuous cores using DPT.
- 2) PID readings shown are for discrete samples collected at depth intervals of 3'– 4', and 7'– 8'

APPENDIX III

**CERTIFICATES OF ANALYSIS AND
CHAIN OF CUSTODY RECORD FOR SOIL SAMPLES**

KB Labs, Inc. Results



Hydrocarbon Analysis Results

Client: GEL ENS of NC

Address:

Samples taken
Samples extracted
Samples analysed

12/16 & 12/17/13
 12/16 & 12/17/13
 Thursday, December 19, 2013

Contact: Andrew Eyer

Operator

CSB

Project: B-4159, Cullowhee NC

Hydrocarbon Analysis Results													
Matrix	Sample ID	Dilution used	BTEX (C6 - C9)	GRO (C5 - C10)	DRO (C10 - C35)	TPH (C5 - C35)	Total Aromatics (C10-C35)	16 EPA PAHs	BaP	Ratios			HC Fingerprint Match
										% light	% mid	% heavy	
s	S-13-2	10.5	<0.5	<0.5	1	1	0.97	0.36	< 0.026	44.9	46.9	8.2	Match not possible
s	S-15-1	10.8	<0.5	<0.5	23	23	17.5	0.4	< 0.027	48.3	45.7	6	V.Deg.PHC 99.9%
s	S-12-1	11.5	<0.6	<0.6	<0.6	<0.6	< 0.58	< 0.06	< 0.029	0	0	100	Match not possible
s	S-12-2 (Low Volume)	14.0	<0.7	<0.7	<0.7	<0.7	< 0.7	< 0.07	< 0.035	0	0	100	Match not possible
s	S-12-4(Low Volume)	14.0	<0.7	<0.7	<0.7	<0.7	< 0.7	< 0.07	< 0.035	0	0	100	Match not possible
Initial Calibrator QC check			OK		Low Range Calibrator Final check					OK		0.076	
					High Range Calibrator Final check					OK		1.562	

Results generated by a QED HC-1 analyser

Fingerprints provide a tentative hydrocarbon identification based on operator selected library matches

Concentration values in mg/kg for soil samples and mg/L for water samples.

Fingerprint match abbreviations

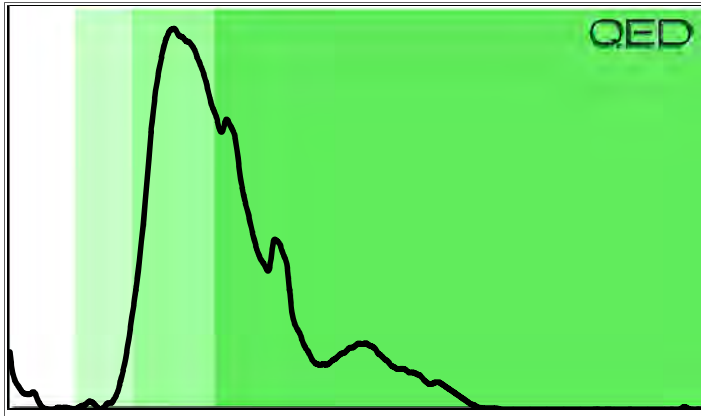
Est = Specific calibrator not used, result estimated (PFM)= Poor library fingerprint match

Soil values are not corrected for moisture or stone content

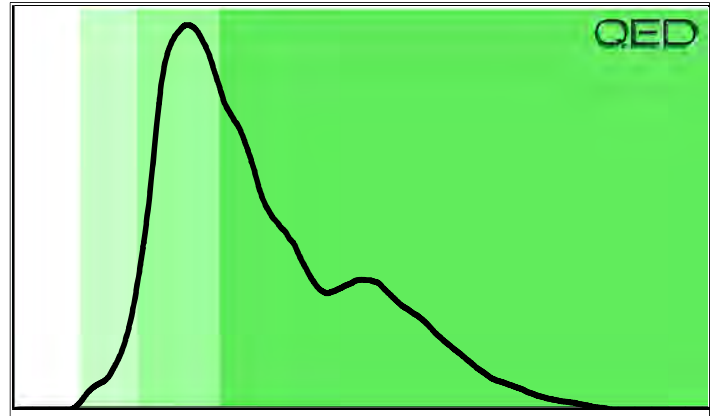
(SBS)= site specific background subtracted (LBS)= Library background subtracted

% = match confidence

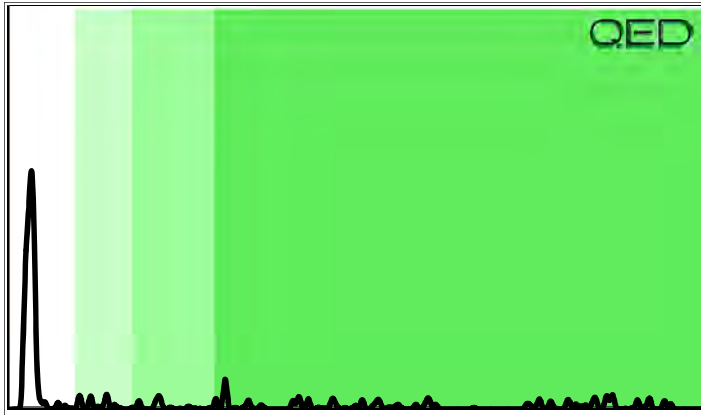
Match not possible S-13-2



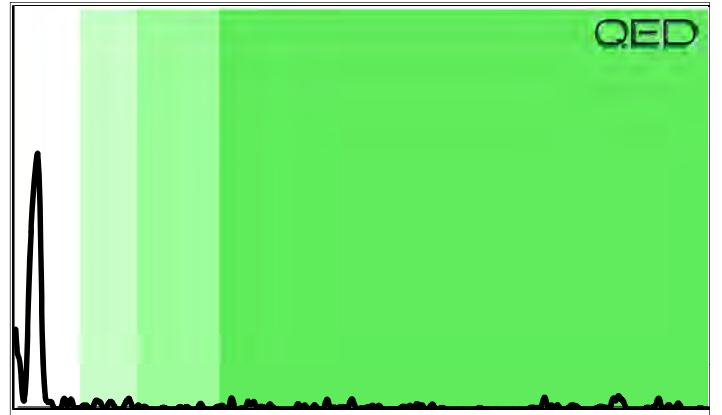
V.Deg.PHC 99.9% S-15-1



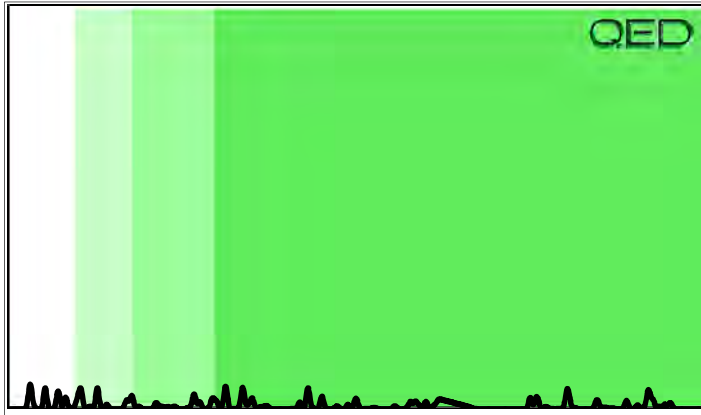
Match not possible S-12-1

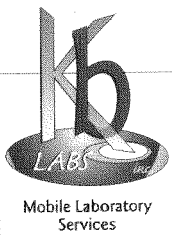


Match not possible S-12-2 (Low Volume)



Match not possible S-12-3 (Low Volume)





6821 SW Archer Road
Gainesville, FL 32608
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CHAIN-OF-CUSTODY RECORD

6701 Conference Drive
Raleigh, NC 27607
TEL (352) 538-6507

MOBILE UNIT #

CLIENT NAME		PROJECT NAME & ADDRESS						SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS	LUVF	Weight (g)	PRESERVATION	
GEL ENG. of N.C.		B-4759, Cullowhee, N.C.											C Chilled H HCL Ot Other (see Remarks)	
SAMPLERS		CONTACT PERSON				BATCH # (Lab Use Only)								
WSR, RSG		Andrew Eyer												
SAMPLE FIELD ID \ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.					COMMENT / SAMPLE PRE FIX		
✓ S-18-3	12/16/13	1330		X				S	1	✓	12.8	48 hr TA	✓	
✓ S-18-2		1350		X				S	1	✓	(10)	48 hr TA	Low Volume ✓	
✓ S-18-1		1420		X				S	1	✓	10.3	48 hr TA	✓	
✓ S-19-1		1525		X				S	1	✓	12.1	48 hr TA	✓	
✓ S-20-2		1555		X				S	1	✓	12.3	48 hr TA	✓	
✓ S-20-1		1615		X				S	1	✓	12.9	48 hr TA	✓	
✓ S-11-1		1650		X				S	1	✓	13.03	48 hr TA	✓	
✓ S-11-2		12/17/13	0920		X				S	1	✓	6.6	48 hr TA	✓
✓ S-11-3		0945		X					S	1	✓	12.7	48 hr TA	✓
✓ S-13-1		1015		X					S	1	✓	13	48 hr TA	✓
✓ S-13-2		1045		X					S	1	✓	13.3	48 hr TA	✓
✓ S-15-1	1110		X					S	1	✓	13.02	48 hr TA	✓	
✓ S-12-1	1155		X					S	1	✓	12.17	48 hr TA	✓	
✓ S-12-2	1230		X					S	1	✓	(10)	48 hr TA	Low Volume ✓	
→ S-12-4	1245		X					S	1	✓	(10)	48 hr TA	Low Volume ✓	

Precleaned Containers Relinquished by: (Signature) <i>Steve Rucker</i>	Date / Time 12/17/13 1250	Received by: (Signature) <i>[Signature]</i>	Date / Time 12/17/13 1250
Relinquished by: (Signature) <i>[Signature]</i>	Date / Time 12/17/13 1400	Received by: (Signature) <i>[Signature]</i>	Date / Time 12/18/13 1200

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

Pace Analytical Services Results



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January 10, 2014

Andrew Eyer
GEL Engineering of NC
PO Box 14262
Research Triangle, NC 27709

RE: Project: NCDT01413 WBS33507.1.1
Pace Project No.: 92184006

Dear Andrew Eyer:

Enclosed are the analytical results for sample(s) received by the laboratory on December 19, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angela Baioni

angela.baioni@pacelabs.com
Project Manager

Enclosures

cc: Chemical Testing Engineer, NCDOT



REPORT OF LABORATORY ANALYSIS

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(704)875-9092

CERTIFICATIONS

Project: NCDT01413 WBS33507.1.1
Pace Project No.: 92184006

Charlotte Certification IDs

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

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SAMPLE ANALYTE COUNT

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92184006001	S-18-3	EPA 8015 Modified	NU1	2	PASI-C
		EPA 8015 Modified	GAW	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92184006002	S-18-2	EPA 8015 Modified	NU1	2	PASI-C
		EPA 8015 Modified	GAW	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92184006003	S-18-1	EPA 8015 Modified	NU1	2	PASI-C
		EPA 8015 Modified	GAW	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92184006004	S-19-1	EPA 8015 Modified	NU1	2	PASI-C
		EPA 8015 Modified	GAW	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92184006005	S-20-2	EPA 8015 Modified	NU1	2	PASI-C
		EPA 8015 Modified	GAW	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92184006006	S-20-1	EPA 8015 Modified	NU1	2	PASI-C
		EPA 8015 Modified	GAW	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92184006007	S-11-1	EPA 8015 Modified	NU1	2	PASI-C
		EPA 8015 Modified	GAW	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92184006008	S-11-2	EPA 8015 Modified	NU1	2	PASI-C
		EPA 8015 Modified	GAW	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92184006009	S-11-3	EPA 8015 Modified	NU1	2	PASI-C
		EPA 8015 Modified	GAW	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92184006010	S-13-1	EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92184006011	S-13-2	EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92184006012	S-15-1	EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92184006013	S-12-1	EPA 8015 Modified	NU1	2	PASI-C

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SAMPLE ANALYTE COUNT

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92184006014	S-12-2	EPA 8015 Modified	GAW	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
		EPA 8015 Modified	NU1	2	PASI-C
		EPA 8015 Modified	GAW	2	PASI-C
92184006015	S-12-4	ASTM D2974-87	TNM	1	PASI-C
		EPA 8015 Modified	NU1	2	PASI-C
		EPA 8015 Modified	GAW	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92184006016	S-12-3	EPA 8015 Modified	NU1	2	PASI-C
		EPA 8015 Modified	GAW	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
		EPA 8015 Modified	NU1	2	PASI-C
92184006017	S-12-5	EPA 8015 Modified	GAW	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
		EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	70	PASI-C
92184006018	S-12-6	ASTM D2974-87	TNM	1	PASI-C
		EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92184006019	S-12-7	EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
		EPA 8270	BPJ	74	PASI-C
92184006020	S-12-8	EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
		EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	70	PASI-C
92184006021	S-12-9	ASTM D2974-87	TNM	1	PASI-C
		EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92184006022	S-8-1	EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
		EPA 8270	BPJ	74	PASI-C
92184006023	S-8-2	EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
		EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	70	PASI-C
92184006024	S-8-5	ASTM D2974-87	TNM	1	PASI-C
		EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	TNM	1	PASI-C

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ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1
 Pace Project No.: 92184006

Sample: S-18-3 Lab ID: 92184006001 Collected: 12/16/13 13:30 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel								
Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546								
Diesel Components	24.2	mg/kg	6.2	1	12/19/13 12:58	12/20/13 23:54	68334-30-5	
Surrogates								
n-Pentacosane (S)	62	%	41-119	1	12/19/13 12:58	12/20/13 23:54	629-99-2	
Gasoline Range Organics								
Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B								
Gasoline Range Organics	ND	mg/kg	5.7	1	12/28/13 09:55	12/28/13 16:28	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-167	1	12/28/13 09:55	12/28/13 16:28	460-00-4	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	18.9	%	0.10	1		12/20/13 08:43		

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ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Sample: S-18-2 **Lab ID: 92184006002** Collected: 12/16/13 13:50 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel								
Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546								
Diesel Components	35.9	mg/kg	6.0	1	12/19/13 12:58	12/21/13 00:40	68334-30-5	
Surrogates								
n-Pentacosane (S)	80	%	41-119	1	12/19/13 12:58	12/21/13 00:40	629-99-2	
Gasoline Range Organics								
Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B								
Gasoline Range Organics	ND	mg/kg	5.5	1	12/28/13 09:55	12/28/13 16:51	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	104	%	70-167	1	12/28/13 09:55	12/28/13 16:51	460-00-4	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	16.9	%	0.10	1		12/20/13 08:43		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Sample: S-18-1 **Lab ID: 92184006003** Collected: 12/16/13 14:20 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel		Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546						
Diesel Components	49.2	mg/kg	6.0	1	12/19/13 12:58	12/21/13 00:40	68334-30-5	
Surrogates								
n-Pentacosane (S)	54	%	41-119	1	12/19/13 12:58	12/21/13 00:40	629-99-2	
Gasoline Range Organics		Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B						
Gasoline Range Organics	ND	mg/kg	6.8	1	12/28/13 09:55	12/28/13 17:14	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-167	1	12/28/13 09:55	12/28/13 17:14	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	16.2	%	0.10	1		12/20/13 08:43		

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ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1
 Pace Project No.: 92184006

Sample: S-19-1 **Lab ID: 92184006004** Collected: 12/16/13 15:25 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel								
Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546								
Diesel Components	7.6	mg/kg	6.7	1	12/19/13 12:58	12/21/13 01:03	68334-30-5	
Surrogates								
n-Pentacosane (S)	71	%	41-119	1	12/19/13 12:58	12/21/13 01:03	629-99-2	
Gasoline Range Organics								
Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B								
Gasoline Range Organics	ND	mg/kg	6.2	1	12/28/13 09:55	12/28/13 17:37	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-167	1	12/28/13 09:55	12/28/13 17:37	460-00-4	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	25.5	%	0.10	1		12/20/13 08:44		

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ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Sample: S-20-2 **Lab ID: 92184006005** Collected: 12/16/13 15:55 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel								
Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546								
Diesel Components	ND	mg/kg	6.7	1	12/19/13 12:58	12/21/13 01:03	68334-30-5	
Surrogates								
n-Pentacosane (S)	75	%	41-119	1	12/19/13 12:58	12/21/13 01:03	629-99-2	
Gasoline Range Organics								
Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B								
Gasoline Range Organics	ND	mg/kg	6.2	1	12/28/13 09:55	12/28/13 18:00	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-167	1	12/28/13 09:55	12/28/13 18:00	460-00-4	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	25.0	%	0.10	1		12/20/13 08:44		

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ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Sample: S-20-1 **Lab ID: 92184006006** Collected: 12/16/13 16:15 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel		Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546						
Diesel Components	ND	mg/kg	6.0	1	12/19/13 12:58	12/21/13 01:27	68334-30-5	
Surrogates								
n-Pentacosane (S)	75	%	41-119	1	12/19/13 12:58	12/21/13 01:27	629-99-2	
Gasoline Range Organics		Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B						
Gasoline Range Organics	ND	mg/kg	5.6	1	12/28/13 09:55	12/28/13 18:22	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-167	1	12/28/13 09:55	12/28/13 18:22	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	16.9	%	0.10	1		12/20/13 08:44		

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ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Sample: S-11-1 **Lab ID: 92184006007** Collected: 12/16/13 16:50 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel								
Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546								
Diesel Components	ND	mg/kg	5.9	1	12/19/13 12:58	12/21/13 01:27	68334-30-5	
Surrogates								
n-Pentacosane (S)	71	%	41-119	1	12/19/13 12:58	12/21/13 01:27	629-99-2	
Gasoline Range Organics								
Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B								
Gasoline Range Organics	ND	mg/kg	4.9	1	12/28/13 09:55	12/28/13 18:45	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-167	1	12/28/13 09:55	12/28/13 18:45	460-00-4	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	15.4	%	0.10	1		12/20/13 08:44		

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ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Sample: S-11-2 **Lab ID: 92184006008** Collected: 12/17/13 09:20 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel								
Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546								
Diesel Components	ND	mg/kg	6.6	1	12/19/13 12:58	12/21/13 01:50	68334-30-5	
Surrogates								
n-Pentacosane (S)	66	%	41-119	1	12/19/13 12:58	12/21/13 01:50	629-99-2	
Gasoline Range Organics								
Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B								
Gasoline Range Organics	ND	mg/kg	6.6	1	12/28/13 09:55	12/28/13 19:08	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-167	1	12/28/13 09:55	12/28/13 19:08	460-00-4	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	24.7	%	0.10	1		12/20/13 08:44		

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ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Sample: S-11-3 **Lab ID: 92184006009** Collected: 12/17/13 09:45 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel		Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546						
Diesel Components	10.2	mg/kg	6.7	1	12/19/13 12:58	12/21/13 01:50	68334-30-5	
Surrogates								
n-Pentacosane (S)	77	%	41-119	1	12/19/13 12:58	12/21/13 01:50	629-99-2	
Gasoline Range Organics		Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B						
Gasoline Range Organics	ND	mg/kg	6.3	1	12/28/13 09:55	12/28/13 19:31	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-167	1	12/28/13 09:55	12/28/13 19:31	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	25.9	%	0.10	1		12/20/13 08:44		

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ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Sample: S-13-1 **Lab ID: 92184006010** Collected: 12/17/13 10:15 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546						
Acenaphthene	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	83-32-9	
Acenaphthylene	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	208-96-8	
Aniline	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	62-53-3	
Anthracene	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	120-12-7	
Benzo(a)anthracene	598	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	56-55-3	
Benzo(a)pyrene	583	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	50-32-8	
Benzo(b)fluoranthene	478	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	191-24-2	
Benzo(k)fluoranthene	520	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	207-08-9	
Benzoic Acid	ND	ug/kg	2020	1	12/19/13 13:00	12/20/13 20:03	65-85-0	
Benzyl alcohol	ND	ug/kg	809	1	12/19/13 13:00	12/20/13 20:03	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	101-55-3	
Butylbenzylphthalate	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	809	1	12/19/13 13:00	12/20/13 20:03	59-50-7	
4-Chloroaniline	ND	ug/kg	2020	1	12/19/13 13:00	12/20/13 20:03	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	108-60-1	
2-Chloronaphthalene	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	91-58-7	
2-Chlorophenol	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	7005-72-3	
Chrysene	768	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	53-70-3	
Dibenzofuran	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	2020	1	12/19/13 13:00	12/20/13 20:03	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	120-83-2	
Diethylphthalate	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	105-67-9	
Dimethylphthalate	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	131-11-3	
Di-n-butylphthalate	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	809	1	12/19/13 13:00	12/20/13 20:03	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	2020	1	12/19/13 13:00	12/20/13 20:03	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	606-20-2	
Di-n-octylphthalate	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	117-81-7	
Fluoranthene	1790	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	206-44-0	
Fluorene	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	87-68-3	
Hexachlorobenzene	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	77-47-4	
Hexachloroethane	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	193-39-5	

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ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Sample: S-13-1 **Lab ID: 92184006010** Collected: 12/17/13 10:15 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546						
Isophorone	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	78-59-1	
1-Methylnaphthalene	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	90-12-0	
2-Methylnaphthalene	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03		
Naphthalene	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	91-20-3	
2-Nitroaniline	ND	ug/kg	2020	1	12/19/13 13:00	12/20/13 20:03	88-74-4	
3-Nitroaniline	ND	ug/kg	2020	1	12/19/13 13:00	12/20/13 20:03	99-09-2	
4-Nitroaniline	ND	ug/kg	809	1	12/19/13 13:00	12/20/13 20:03	100-01-6	
Nitrobenzene	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	98-95-3	
2-Nitrophenol	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	88-75-5	
4-Nitrophenol	ND	ug/kg	2020	1	12/19/13 13:00	12/20/13 20:03	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	86-30-6	
Pentachlorophenol	ND	ug/kg	2020	1	12/19/13 13:00	12/20/13 20:03	87-86-5	
Phenanthrene	1190	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	85-01-8	
Phenol	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	108-95-2	
Pyrene	1180	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	405	1	12/19/13 13:00	12/20/13 20:03	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	55 %		23-110	1	12/19/13 13:00	12/20/13 20:03	4165-60-0	
2-Fluorobiphenyl (S)	53 %		30-110	1	12/19/13 13:00	12/20/13 20:03	321-60-8	
Terphenyl-d14 (S)	61 %		28-110	1	12/19/13 13:00	12/20/13 20:03	1718-51-0	
Phenol-d6 (S)	62 %		22-110	1	12/19/13 13:00	12/20/13 20:03	13127-88-3	
2-Fluorophenol (S)	56 %		13-110	1	12/19/13 13:00	12/20/13 20:03	367-12-4	
2,4,6-Tribromophenol (S)	65 %		27-110	1	12/19/13 13:00	12/20/13 20:03	118-79-6	
8260/5035A Volatile Organics		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	92.2	1		12/21/13 18:29	67-64-1	
Benzene	ND	ug/kg	4.6	1		12/21/13 18:29	71-43-2	
Bromobenzene	ND	ug/kg	4.6	1		12/21/13 18:29	108-86-1	
Bromochloromethane	ND	ug/kg	4.6	1		12/21/13 18:29	74-97-5	
Bromodichloromethane	ND	ug/kg	4.6	1		12/21/13 18:29	75-27-4	
Bromoform	ND	ug/kg	4.6	1		12/21/13 18:29	75-25-2	
Bromomethane	ND	ug/kg	9.2	1		12/21/13 18:29	74-83-9	
2-Butanone (MEK)	ND	ug/kg	92.2	1		12/21/13 18:29	78-93-3	
n-Butylbenzene	ND	ug/kg	4.6	1		12/21/13 18:29	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.6	1		12/21/13 18:29	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.6	1		12/21/13 18:29	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.6	1		12/21/13 18:29	56-23-5	
Chlorobenzene	ND	ug/kg	4.6	1		12/21/13 18:29	108-90-7	
Chloroethane	ND	ug/kg	9.2	1		12/21/13 18:29	75-00-3	
Chloroform	99.9	ug/kg	4.6	1		12/21/13 18:29	67-66-3	

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ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Sample: S-13-1 **Lab ID: 92184006010** Collected: 12/17/13 10:15 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260						
Chloromethane	ND	ug/kg	9.2	1		12/21/13 18:29	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.6	1		12/21/13 18:29	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.6	1		12/21/13 18:29	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.6	1		12/21/13 18:29	96-12-8	
Dibromochloromethane	ND	ug/kg	4.6	1		12/21/13 18:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.6	1		12/21/13 18:29	106-93-4	
Dibromomethane	ND	ug/kg	4.6	1		12/21/13 18:29	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.6	1		12/21/13 18:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.6	1		12/21/13 18:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.6	1		12/21/13 18:29	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.2	1		12/21/13 18:29	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.6	1		12/21/13 18:29	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.6	1		12/21/13 18:29	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.6	1		12/21/13 18:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.6	1		12/21/13 18:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.6	1		12/21/13 18:29	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.6	1		12/21/13 18:29	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.6	1		12/21/13 18:29	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.6	1		12/21/13 18:29	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.6	1		12/21/13 18:29	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.6	1		12/21/13 18:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.6	1		12/21/13 18:29	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.6	1		12/21/13 18:29	108-20-3	
Ethylbenzene	ND	ug/kg	4.6	1		12/21/13 18:29	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.6	1		12/21/13 18:29	87-68-3	
2-Hexanone	ND	ug/kg	46.1	1		12/21/13 18:29	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.6	1		12/21/13 18:29	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.6	1		12/21/13 18:29	99-87-6	
Methylene Chloride	ND	ug/kg	18.4	1		12/21/13 18:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	46.1	1		12/21/13 18:29	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.6	1		12/21/13 18:29	1634-04-4	
Naphthalene	ND	ug/kg	4.6	1		12/21/13 18:29	91-20-3	
n-Propylbenzene	ND	ug/kg	4.6	1		12/21/13 18:29	103-65-1	
Styrene	ND	ug/kg	4.6	1		12/21/13 18:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1		12/21/13 18:29	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.6	1		12/21/13 18:29	79-34-5	
Tetrachloroethene	ND	ug/kg	4.6	1		12/21/13 18:29	127-18-4	
Toluene	ND	ug/kg	4.6	1		12/21/13 18:29	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.6	1		12/21/13 18:29	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.6	1		12/21/13 18:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.6	1		12/21/13 18:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.6	1		12/21/13 18:29	79-00-5	
Trichloroethene	ND	ug/kg	4.6	1		12/21/13 18:29	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.6	1		12/21/13 18:29	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.6	1		12/21/13 18:29	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.6	1		12/21/13 18:29	95-63-6	

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ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Sample: S-13-1 **Lab ID: 92184006010** Collected: 12/17/13 10:15 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260						
1,3,5-Trimethylbenzene	ND	ug/kg	4.6	1		12/21/13 18:29	108-67-8	
Vinyl acetate	ND	ug/kg	46.1	1		12/21/13 18:29	108-05-4	
Vinyl chloride	ND	ug/kg	9.2	1		12/21/13 18:29	75-01-4	
Xylene (Total)	ND	ug/kg	9.2	1		12/21/13 18:29	1330-20-7	
m&p-Xylene	ND	ug/kg	9.2	1		12/21/13 18:29	179601-23-1	
o-Xylene	ND	ug/kg	4.6	1		12/21/13 18:29	95-47-6	
Surrogates								
Toluene-d8 (S)	107	%	70-130	1		12/21/13 18:29	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130	1		12/21/13 18:29	460-00-4	
1,2-Dichloroethane-d4 (S)	82	%	70-132	1		12/21/13 18:29	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	18.4	%	0.10	1		12/20/13 08:44		

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ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Sample: S-13-2 **Lab ID: 92184006011** Collected: 12/17/13 10:45 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546						
Acenaphthene	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	83-32-9	
Acenaphthylene	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	208-96-8	
Aniline	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	62-53-3	
Anthracene	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	120-12-7	
Benzo(a)anthracene	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	56-55-3	
Benzo(a)pyrene	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	207-08-9	
Benzoic Acid	ND	ug/kg	2190	1	12/19/13 13:00	12/20/13 20:30	65-85-0	
Benzyl alcohol	ND	ug/kg	877	1	12/19/13 13:00	12/20/13 20:30	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	101-55-3	
Butylbenzylphthalate	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	877	1	12/19/13 13:00	12/20/13 20:30	59-50-7	
4-Chloroaniline	ND	ug/kg	2190	1	12/19/13 13:00	12/20/13 20:30	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	108-60-1	
2-Chloronaphthalene	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	91-58-7	
2-Chlorophenol	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	7005-72-3	
Chrysene	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	53-70-3	
Dibenzofuran	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	2190	1	12/19/13 13:00	12/20/13 20:30	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	120-83-2	
Diethylphthalate	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	105-67-9	
Dimethylphthalate	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	131-11-3	
Di-n-butylphthalate	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	877	1	12/19/13 13:00	12/20/13 20:30	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	2190	1	12/19/13 13:00	12/20/13 20:30	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	606-20-2	
Di-n-octylphthalate	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	117-81-7	
Fluoranthene	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	206-44-0	
Fluorene	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	87-68-3	
Hexachlorobenzene	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	77-47-4	
Hexachloroethane	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	193-39-5	

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ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Sample: S-13-2 **Lab ID: 92184006011** Collected: 12/17/13 10:45 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546						
Isophorone	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	78-59-1	
1-Methylnaphthalene	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	90-12-0	
2-Methylnaphthalene	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30		
Naphthalene	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	91-20-3	
2-Nitroaniline	ND	ug/kg	2190	1	12/19/13 13:00	12/20/13 20:30	88-74-4	
3-Nitroaniline	ND	ug/kg	2190	1	12/19/13 13:00	12/20/13 20:30	99-09-2	
4-Nitroaniline	ND	ug/kg	877	1	12/19/13 13:00	12/20/13 20:30	100-01-6	
Nitrobenzene	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	98-95-3	
2-Nitrophenol	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	88-75-5	
4-Nitrophenol	ND	ug/kg	2190	1	12/19/13 13:00	12/20/13 20:30	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	86-30-6	
Pentachlorophenol	ND	ug/kg	2190	1	12/19/13 13:00	12/20/13 20:30	87-86-5	
Phenanthrene	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	85-01-8	
Phenol	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	108-95-2	
Pyrene	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	439	1	12/19/13 13:00	12/20/13 20:30	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	72 %		23-110	1	12/19/13 13:00	12/20/13 20:30	4165-60-0	
2-Fluorobiphenyl (S)	70 %		30-110	1	12/19/13 13:00	12/20/13 20:30	321-60-8	
Terphenyl-d14 (S)	75 %		28-110	1	12/19/13 13:00	12/20/13 20:30	1718-51-0	
Phenol-d6 (S)	58 %		22-110	1	12/19/13 13:00	12/20/13 20:30	13127-88-3	
2-Fluorophenol (S)	54 %		13-110	1	12/19/13 13:00	12/20/13 20:30	367-12-4	
2,4,6-Tribromophenol (S)	61 %		27-110	1	12/19/13 13:00	12/20/13 20:30	118-79-6	
8260/5035A Volatile Organics		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	96.7	1		12/21/13 18:49	67-64-1	
Benzene	ND	ug/kg	4.8	1		12/21/13 18:49	71-43-2	
Bromobenzene	ND	ug/kg	4.8	1		12/21/13 18:49	108-86-1	
Bromochloromethane	ND	ug/kg	4.8	1		12/21/13 18:49	74-97-5	
Bromodichloromethane	ND	ug/kg	4.8	1		12/21/13 18:49	75-27-4	
Bromoform	ND	ug/kg	4.8	1		12/21/13 18:49	75-25-2	
Bromomethane	ND	ug/kg	9.7	1		12/21/13 18:49	74-83-9	
2-Butanone (MEK)	ND	ug/kg	96.7	1		12/21/13 18:49	78-93-3	
n-Butylbenzene	ND	ug/kg	4.8	1		12/21/13 18:49	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.8	1		12/21/13 18:49	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.8	1		12/21/13 18:49	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.8	1		12/21/13 18:49	56-23-5	
Chlorobenzene	ND	ug/kg	4.8	1		12/21/13 18:49	108-90-7	
Chloroethane	ND	ug/kg	9.7	1		12/21/13 18:49	75-00-3	
Chloroform	8.2	ug/kg	4.8	1		12/21/13 18:49	67-66-3	

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ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Sample: S-13-2 **Lab ID: 92184006011** Collected: 12/17/13 10:45 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260						
Chloromethane	ND	ug/kg	9.7	1		12/21/13 18:49	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.8	1		12/21/13 18:49	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.8	1		12/21/13 18:49	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.8	1		12/21/13 18:49	96-12-8	
Dibromochloromethane	ND	ug/kg	4.8	1		12/21/13 18:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.8	1		12/21/13 18:49	106-93-4	
Dibromomethane	ND	ug/kg	4.8	1		12/21/13 18:49	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.8	1		12/21/13 18:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.8	1		12/21/13 18:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.8	1		12/21/13 18:49	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.7	1		12/21/13 18:49	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.8	1		12/21/13 18:49	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.8	1		12/21/13 18:49	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.8	1		12/21/13 18:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.8	1		12/21/13 18:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.8	1		12/21/13 18:49	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.8	1		12/21/13 18:49	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.8	1		12/21/13 18:49	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.8	1		12/21/13 18:49	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.8	1		12/21/13 18:49	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.8	1		12/21/13 18:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.8	1		12/21/13 18:49	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.8	1		12/21/13 18:49	108-20-3	
Ethylbenzene	ND	ug/kg	4.8	1		12/21/13 18:49	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.8	1		12/21/13 18:49	87-68-3	
2-Hexanone	ND	ug/kg	48.4	1		12/21/13 18:49	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.8	1		12/21/13 18:49	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.8	1		12/21/13 18:49	99-87-6	
Methylene Chloride	ND	ug/kg	19.3	1		12/21/13 18:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	48.4	1		12/21/13 18:49	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.8	1		12/21/13 18:49	1634-04-4	
Naphthalene	ND	ug/kg	4.8	1		12/21/13 18:49	91-20-3	
n-Propylbenzene	ND	ug/kg	4.8	1		12/21/13 18:49	103-65-1	
Styrene	ND	ug/kg	4.8	1		12/21/13 18:49	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.8	1		12/21/13 18:49	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.8	1		12/21/13 18:49	79-34-5	
Tetrachloroethene	ND	ug/kg	4.8	1		12/21/13 18:49	127-18-4	
Toluene	ND	ug/kg	4.8	1		12/21/13 18:49	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.8	1		12/21/13 18:49	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.8	1		12/21/13 18:49	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.8	1		12/21/13 18:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.8	1		12/21/13 18:49	79-00-5	
Trichloroethene	ND	ug/kg	4.8	1		12/21/13 18:49	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.8	1		12/21/13 18:49	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.8	1		12/21/13 18:49	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.8	1		12/21/13 18:49	95-63-6	

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ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Sample: S-13-2 **Lab ID: 92184006011** Collected: 12/17/13 10:45 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260						
1,3,5-Trimethylbenzene	ND	ug/kg	4.8	1		12/21/13 18:49	108-67-8	
Vinyl acetate	ND	ug/kg	48.4	1		12/21/13 18:49	108-05-4	
Vinyl chloride	ND	ug/kg	9.7	1		12/21/13 18:49	75-01-4	
Xylene (Total)	ND	ug/kg	9.7	1		12/21/13 18:49	1330-20-7	
m&p-Xylene	ND	ug/kg	9.7	1		12/21/13 18:49	179601-23-1	
o-Xylene	ND	ug/kg	4.8	1		12/21/13 18:49	95-47-6	
Surrogates								
Toluene-d8 (S)	105	%	70-130	1		12/21/13 18:49	2037-26-5	
4-Bromofluorobenzene (S)	103	%	70-130	1		12/21/13 18:49	460-00-4	
1,2-Dichloroethane-d4 (S)	76	%	70-132	1		12/21/13 18:49	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	24.7	%	0.10	1		12/20/13 08:44		

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ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Sample: S-15-1 **Lab ID: 92184006012** Collected: 12/17/13 11:10 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546						
Acenaphthene	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	83-32-9	
Acenaphthylene	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	208-96-8	
Aniline	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	62-53-3	
Anthracene	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	120-12-7	
Benzo(a)anthracene	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	56-55-3	
Benzo(a)pyrene	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	207-08-9	
Benzoic Acid	ND	ug/kg	2040	1	12/19/13 13:00	12/20/13 20:57	65-85-0	
Benzyl alcohol	ND	ug/kg	818	1	12/19/13 13:00	12/20/13 20:57	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	101-55-3	
Butylbenzylphthalate	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	818	1	12/19/13 13:00	12/20/13 20:57	59-50-7	
4-Chloroaniline	ND	ug/kg	2040	1	12/19/13 13:00	12/20/13 20:57	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	108-60-1	
2-Chloronaphthalene	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	91-58-7	
2-Chlorophenol	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	7005-72-3	
Chrysene	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	53-70-3	
Dibenzofuran	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	2040	1	12/19/13 13:00	12/20/13 20:57	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	120-83-2	
Diethylphthalate	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	105-67-9	
Dimethylphthalate	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	131-11-3	
Di-n-butylphthalate	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	818	1	12/19/13 13:00	12/20/13 20:57	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	2040	1	12/19/13 13:00	12/20/13 20:57	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	606-20-2	
Di-n-octylphthalate	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	117-81-7	
Fluoranthene	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	206-44-0	
Fluorene	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	87-68-3	
Hexachlorobenzene	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	77-47-4	
Hexachloroethane	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	193-39-5	

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ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Sample: S-15-1 **Lab ID: 92184006012** Collected: 12/17/13 11:10 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546						
Isophorone	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	78-59-1	
1-Methylnaphthalene	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	90-12-0	
2-Methylnaphthalene	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57		
Naphthalene	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	91-20-3	
2-Nitroaniline	ND	ug/kg	2040	1	12/19/13 13:00	12/20/13 20:57	88-74-4	
3-Nitroaniline	ND	ug/kg	2040	1	12/19/13 13:00	12/20/13 20:57	99-09-2	
4-Nitroaniline	ND	ug/kg	818	1	12/19/13 13:00	12/20/13 20:57	100-01-6	
Nitrobenzene	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	98-95-3	
2-Nitrophenol	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	88-75-5	
4-Nitrophenol	ND	ug/kg	2040	1	12/19/13 13:00	12/20/13 20:57	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	86-30-6	
Pentachlorophenol	ND	ug/kg	2040	1	12/19/13 13:00	12/20/13 20:57	87-86-5	
Phenanthrene	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	85-01-8	
Phenol	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	108-95-2	
Pyrene	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	409	1	12/19/13 13:00	12/20/13 20:57	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	60 %		23-110	1	12/19/13 13:00	12/20/13 20:57	4165-60-0	
2-Fluorobiphenyl (S)	62 %		30-110	1	12/19/13 13:00	12/20/13 20:57	321-60-8	
Terphenyl-d14 (S)	71 %		28-110	1	12/19/13 13:00	12/20/13 20:57	1718-51-0	
Phenol-d6 (S)	64 %		22-110	1	12/19/13 13:00	12/20/13 20:57	13127-88-3	
2-Fluorophenol (S)	59 %		13-110	1	12/19/13 13:00	12/20/13 20:57	367-12-4	
2,4,6-Tribromophenol (S)	68 %		27-110	1	12/19/13 13:00	12/20/13 20:57	118-79-6	
8260/5035A Volatile Organics		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	89.4	1		12/21/13 17:54	67-64-1	
Benzene	ND	ug/kg	4.5	1		12/21/13 17:54	71-43-2	
Bromobenzene	ND	ug/kg	4.5	1		12/21/13 17:54	108-86-1	
Bromochloromethane	ND	ug/kg	4.5	1		12/21/13 17:54	74-97-5	
Bromodichloromethane	ND	ug/kg	4.5	1		12/21/13 17:54	75-27-4	
Bromoform	ND	ug/kg	4.5	1		12/21/13 17:54	75-25-2	
Bromomethane	ND	ug/kg	8.9	1		12/21/13 17:54	74-83-9	
2-Butanone (MEK)	ND	ug/kg	89.4	1		12/21/13 17:54	78-93-3	
n-Butylbenzene	ND	ug/kg	4.5	1		12/21/13 17:54	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.5	1		12/21/13 17:54	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.5	1		12/21/13 17:54	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.5	1		12/21/13 17:54	56-23-5	
Chlorobenzene	ND	ug/kg	4.5	1		12/21/13 17:54	108-90-7	
Chloroethane	ND	ug/kg	8.9	1		12/21/13 17:54	75-00-3	
Chloroform	ND	ug/kg	4.5	1		12/21/13 17:54	67-66-3	

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ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Sample: S-15-1 **Lab ID: 92184006012** Collected: 12/17/13 11:10 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260						
Chloromethane	ND	ug/kg	8.9	1		12/21/13 17:54	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.5	1		12/21/13 17:54	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.5	1		12/21/13 17:54	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.5	1		12/21/13 17:54	96-12-8	
Dibromochloromethane	ND	ug/kg	4.5	1		12/21/13 17:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.5	1		12/21/13 17:54	106-93-4	
Dibromomethane	ND	ug/kg	4.5	1		12/21/13 17:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.5	1		12/21/13 17:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.5	1		12/21/13 17:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.5	1		12/21/13 17:54	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.9	1		12/21/13 17:54	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.5	1		12/21/13 17:54	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.5	1		12/21/13 17:54	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.5	1		12/21/13 17:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.5	1		12/21/13 17:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.5	1		12/21/13 17:54	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.5	1		12/21/13 17:54	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.5	1		12/21/13 17:54	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.5	1		12/21/13 17:54	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.5	1		12/21/13 17:54	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.5	1		12/21/13 17:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.5	1		12/21/13 17:54	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.5	1		12/21/13 17:54	108-20-3	
Ethylbenzene	ND	ug/kg	4.5	1		12/21/13 17:54	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.5	1		12/21/13 17:54	87-68-3	
2-Hexanone	ND	ug/kg	44.7	1		12/21/13 17:54	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.5	1		12/21/13 17:54	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.5	1		12/21/13 17:54	99-87-6	
Methylene Chloride	ND	ug/kg	17.9	1		12/21/13 17:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	44.7	1		12/21/13 17:54	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.5	1		12/21/13 17:54	1634-04-4	
Naphthalene	ND	ug/kg	4.5	1		12/21/13 17:54	91-20-3	
n-Propylbenzene	ND	ug/kg	4.5	1		12/21/13 17:54	103-65-1	
Styrene	ND	ug/kg	4.5	1		12/21/13 17:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.5	1		12/21/13 17:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.5	1		12/21/13 17:54	79-34-5	
Tetrachloroethene	ND	ug/kg	4.5	1		12/21/13 17:54	127-18-4	
Toluene	ND	ug/kg	4.5	1		12/21/13 17:54	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.5	1		12/21/13 17:54	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.5	1		12/21/13 17:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.5	1		12/21/13 17:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.5	1		12/21/13 17:54	79-00-5	
Trichloroethene	ND	ug/kg	4.5	1		12/21/13 17:54	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.5	1		12/21/13 17:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.5	1		12/21/13 17:54	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.5	1		12/21/13 17:54	95-63-6	

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ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Sample: S-15-1 Lab ID: 92184006012 Collected: 12/17/13 11:10 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260						
1,3,5-Trimethylbenzene	ND	ug/kg	4.5	1		12/21/13 17:54	108-67-8	
Vinyl acetate	ND	ug/kg	44.7	1		12/21/13 17:54	108-05-4	
Vinyl chloride	ND	ug/kg	8.9	1		12/21/13 17:54	75-01-4	
Xylene (Total)	ND	ug/kg	8.9	1		12/21/13 17:54	1330-20-7	
m&p-Xylene	ND	ug/kg	8.9	1		12/21/13 17:54	179601-23-1	
o-Xylene	ND	ug/kg	4.5	1		12/21/13 17:54	95-47-6	
Surrogates								
Toluene-d8 (S)	99 %		70-130	1		12/21/13 17:54	2037-26-5	
4-Bromofluorobenzene (S)	97 %		70-130	1		12/21/13 17:54	460-00-4	
1,2-Dichloroethane-d4 (S)	118 %		70-132	1		12/21/13 17:54	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	19.3 %		0.10	1		12/20/13 08:44		

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ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1
 Pace Project No.: 92184006

Sample: S-12-1 **Lab ID: 92184006013** Collected: 12/17/13 11:55 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel								
Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546								
Diesel Components	ND	mg/kg	6.8	1	12/19/13 12:58	12/21/13 02:13	68334-30-5	
Surrogates								
n-Pentacosane (S)	83	%	41-119	1	12/19/13 12:58	12/21/13 02:13	629-99-2	
Gasoline Range Organics								
Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B								
Gasoline Range Organics	ND	mg/kg	7.2	1	12/28/13 09:55	12/28/13 19:54	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-167	1	12/28/13 09:55	12/28/13 19:54	460-00-4	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	26.3	%	0.10	1		12/20/13 08:45		

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ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Sample: S-12-2 **Lab ID: 92184006014** Collected: 12/17/13 12:30 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel								
Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546								
Diesel Components	ND	mg/kg	5.7	1	12/19/13 12:58	12/21/13 02:13	68334-30-5	
Surrogates								
n-Pentacosane (S)	68	%	41-119	1	12/19/13 12:58	12/21/13 02:13	629-99-2	
Gasoline Range Organics								
Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B								
Gasoline Range Organics	ND	mg/kg	5.5	1	12/30/13 11:17	12/31/13 08:17	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-167	1	12/30/13 11:17	12/31/13 08:17	460-00-4	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	12.6	%	0.10	1		12/20/13 08:45		

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ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1
 Pace Project No.: 92184006

Sample: S-12-4 Lab ID: 92184006015 Collected: 12/17/13 12:45 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel								
Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546								
Diesel Components	ND	mg/kg	5.5	1	12/19/13 12:58	12/21/13 02:36	68334-30-5	
Surrogates								
n-Pentacosane (S)	62	%	41-119	1	12/19/13 12:58	12/21/13 02:36	629-99-2	
Gasoline Range Organics								
Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B								
Gasoline Range Organics	ND	mg/kg	5.7	1	12/30/13 11:17	12/31/13 09:26	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	108	%	70-167	1	12/30/13 11:17	12/31/13 09:26	460-00-4	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	9.6	%	0.10	1		12/20/13 08:45		

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ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Sample: S-12-3 **Lab ID: 92184006016** Collected: 12/17/13 13:10 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel		Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546						
Diesel Components	7.5	mg/kg	6.1	1	12/19/13 12:58	12/21/13 02:36	68334-30-5	
Surrogates								
n-Pentacosane (S)	64	%	41-119	1	12/19/13 12:58	12/21/13 02:36	629-99-2	
Gasoline Range Organics		Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B						
Gasoline Range Organics	ND	mg/kg	5.6	1	12/30/13 11:17	12/31/13 10:34	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	104	%	70-167	1	12/30/13 11:17	12/31/13 10:34	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	17.8	%	0.10	1		12/20/13 08:45		

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ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Sample: S-12-5 **Lab ID: 92184006017** Collected: 12/17/13 15:09 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546						
Acenaphthene	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	83-32-9	
Acenaphthylene	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	208-96-8	
Aniline	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	62-53-3	
Anthracene	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	120-12-7	
Benzo(a)anthracene	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	56-55-3	
Benzo(a)pyrene	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	207-08-9	
Benzoic Acid	ND	ug/kg	1870	1	12/19/13 13:00	12/20/13 21:24	65-85-0	
Benzyl alcohol	ND	ug/kg	750	1	12/19/13 13:00	12/20/13 21:24	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	101-55-3	
Butylbenzylphthalate	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	750	1	12/19/13 13:00	12/20/13 21:24	59-50-7	
4-Chloroaniline	ND	ug/kg	1870	1	12/19/13 13:00	12/20/13 21:24	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	108-60-1	
2-Chloronaphthalene	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	91-58-7	
2-Chlorophenol	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	7005-72-3	
Chrysene	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	53-70-3	
Dibenzofuran	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	1870	1	12/19/13 13:00	12/20/13 21:24	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	120-83-2	
Diethylphthalate	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	105-67-9	
Dimethylphthalate	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	131-11-3	
Di-n-butylphthalate	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	750	1	12/19/13 13:00	12/20/13 21:24	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1870	1	12/19/13 13:00	12/20/13 21:24	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	606-20-2	
Di-n-octylphthalate	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	117-81-7	
Fluoranthene	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	206-44-0	
Fluorene	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	87-68-3	
Hexachlorobenzene	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	77-47-4	
Hexachloroethane	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	193-39-5	

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ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Sample: S-12-5 **Lab ID: 92184006017** Collected: 12/17/13 15:09 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546						
Isophorone	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	78-59-1	
1-Methylnaphthalene	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	90-12-0	
2-Methylnaphthalene	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24		
Naphthalene	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	91-20-3	
2-Nitroaniline	ND	ug/kg	1870	1	12/19/13 13:00	12/20/13 21:24	88-74-4	
3-Nitroaniline	ND	ug/kg	1870	1	12/19/13 13:00	12/20/13 21:24	99-09-2	
4-Nitroaniline	ND	ug/kg	750	1	12/19/13 13:00	12/20/13 21:24	100-01-6	
Nitrobenzene	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	98-95-3	
2-Nitrophenol	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	88-75-5	
4-Nitrophenol	ND	ug/kg	1870	1	12/19/13 13:00	12/20/13 21:24	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	86-30-6	
Pentachlorophenol	ND	ug/kg	1870	1	12/19/13 13:00	12/20/13 21:24	87-86-5	
Phenanthrene	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	85-01-8	
Phenol	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	108-95-2	
Pyrene	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	375	1	12/19/13 13:00	12/20/13 21:24	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	64 %		23-110	1	12/19/13 13:00	12/20/13 21:24	4165-60-0	
2-Fluorobiphenyl (S)	70 %		30-110	1	12/19/13 13:00	12/20/13 21:24	321-60-8	
Terphenyl-d14 (S)	74 %		28-110	1	12/19/13 13:00	12/20/13 21:24	1718-51-0	
Phenol-d6 (S)	73 %		22-110	1	12/19/13 13:00	12/20/13 21:24	13127-88-3	
2-Fluorophenol (S)	62 %		13-110	1	12/19/13 13:00	12/20/13 21:24	367-12-4	
2,4,6-Tribromophenol (S)	67 %		27-110	1	12/19/13 13:00	12/20/13 21:24	118-79-6	
8260/5035A Volatile Organics		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	86.3	1		12/21/13 18:13	67-64-1	
Benzene	ND	ug/kg	4.3	1		12/21/13 18:13	71-43-2	
Bromobenzene	ND	ug/kg	4.3	1		12/21/13 18:13	108-86-1	
Bromochloromethane	ND	ug/kg	4.3	1		12/21/13 18:13	74-97-5	
Bromodichloromethane	ND	ug/kg	4.3	1		12/21/13 18:13	75-27-4	
Bromoform	ND	ug/kg	4.3	1		12/21/13 18:13	75-25-2	
Bromomethane	ND	ug/kg	8.6	1		12/21/13 18:13	74-83-9	
2-Butanone (MEK)	ND	ug/kg	86.3	1		12/21/13 18:13	78-93-3	
n-Butylbenzene	ND	ug/kg	4.3	1		12/21/13 18:13	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.3	1		12/21/13 18:13	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.3	1		12/21/13 18:13	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.3	1		12/21/13 18:13	56-23-5	
Chlorobenzene	ND	ug/kg	4.3	1		12/21/13 18:13	108-90-7	
Chloroethane	ND	ug/kg	8.6	1		12/21/13 18:13	75-00-3	
Chloroform	ND	ug/kg	4.3	1		12/21/13 18:13	67-66-3	

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ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Sample: S-12-5 **Lab ID: 92184006017** Collected: 12/17/13 15:09 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260						
Chloromethane	ND	ug/kg	8.6	1		12/21/13 18:13	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.3	1		12/21/13 18:13	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.3	1		12/21/13 18:13	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.3	1		12/21/13 18:13	96-12-8	
Dibromochloromethane	ND	ug/kg	4.3	1		12/21/13 18:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.3	1		12/21/13 18:13	106-93-4	
Dibromomethane	ND	ug/kg	4.3	1		12/21/13 18:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.3	1		12/21/13 18:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.3	1		12/21/13 18:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.3	1		12/21/13 18:13	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.6	1		12/21/13 18:13	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.3	1		12/21/13 18:13	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.3	1		12/21/13 18:13	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.3	1		12/21/13 18:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.3	1		12/21/13 18:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.3	1		12/21/13 18:13	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.3	1		12/21/13 18:13	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.3	1		12/21/13 18:13	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.3	1		12/21/13 18:13	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.3	1		12/21/13 18:13	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.3	1		12/21/13 18:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.3	1		12/21/13 18:13	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.3	1		12/21/13 18:13	108-20-3	
Ethylbenzene	ND	ug/kg	4.3	1		12/21/13 18:13	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.3	1		12/21/13 18:13	87-68-3	
2-Hexanone	ND	ug/kg	43.2	1		12/21/13 18:13	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.3	1		12/21/13 18:13	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.3	1		12/21/13 18:13	99-87-6	
Methylene Chloride	ND	ug/kg	17.3	1		12/21/13 18:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	43.2	1		12/21/13 18:13	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.3	1		12/21/13 18:13	1634-04-4	
Naphthalene	ND	ug/kg	4.3	1		12/21/13 18:13	91-20-3	
n-Propylbenzene	ND	ug/kg	4.3	1		12/21/13 18:13	103-65-1	
Styrene	ND	ug/kg	4.3	1		12/21/13 18:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.3	1		12/21/13 18:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.3	1		12/21/13 18:13	79-34-5	
Tetrachloroethene	ND	ug/kg	4.3	1		12/21/13 18:13	127-18-4	
Toluene	ND	ug/kg	4.3	1		12/21/13 18:13	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.3	1		12/21/13 18:13	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.3	1		12/21/13 18:13	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.3	1		12/21/13 18:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.3	1		12/21/13 18:13	79-00-5	
Trichloroethene	ND	ug/kg	4.3	1		12/21/13 18:13	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.3	1		12/21/13 18:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.3	1		12/21/13 18:13	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.3	1		12/21/13 18:13	95-63-6	

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ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Sample: S-12-5 Lab ID: 92184006017 Collected: 12/17/13 15:09 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260						
1,3,5-Trimethylbenzene	ND	ug/kg	4.3	1		12/21/13 18:13	108-67-8	
Vinyl acetate	ND	ug/kg	43.2	1		12/21/13 18:13	108-05-4	
Vinyl chloride	ND	ug/kg	8.6	1		12/21/13 18:13	75-01-4	
Xylene (Total)	ND	ug/kg	8.6	1		12/21/13 18:13	1330-20-7	
m&p-Xylene	ND	ug/kg	8.6	1		12/21/13 18:13	179601-23-1	
o-Xylene	ND	ug/kg	4.3	1		12/21/13 18:13	95-47-6	
Surrogates								
Toluene-d8 (S)	99 %		70-130	1		12/21/13 18:13	2037-26-5	
4-Bromofluorobenzene (S)	95 %		70-130	1		12/21/13 18:13	460-00-4	
1,2-Dichloroethane-d4 (S)	115 %		70-132	1		12/21/13 18:13	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	12.0 %		0.10	1		12/20/13 08:45		

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ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Sample: S-12-6 **Lab ID: 92184006018** Collected: 12/17/13 15:40 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546						
Acenaphthene	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	83-32-9	
Acenaphthylene	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	208-96-8	
Aniline	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	62-53-3	
Anthracene	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	120-12-7	
Benzo(a)anthracene	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	56-55-3	
Benzo(a)pyrene	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	207-08-9	
Benzoic Acid	ND	ug/kg	1870	1	12/19/13 13:00	12/20/13 21:50	65-85-0	
Benzyl alcohol	ND	ug/kg	747	1	12/19/13 13:00	12/20/13 21:50	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	101-55-3	
Butylbenzylphthalate	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	747	1	12/19/13 13:00	12/20/13 21:50	59-50-7	
4-Chloroaniline	ND	ug/kg	1870	1	12/19/13 13:00	12/20/13 21:50	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	108-60-1	
2-Chloronaphthalene	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	91-58-7	
2-Chlorophenol	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	7005-72-3	
Chrysene	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	53-70-3	
Dibenzofuran	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	1870	1	12/19/13 13:00	12/20/13 21:50	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	120-83-2	
Diethylphthalate	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	105-67-9	
Dimethylphthalate	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	131-11-3	
Di-n-butylphthalate	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	747	1	12/19/13 13:00	12/20/13 21:50	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1870	1	12/19/13 13:00	12/20/13 21:50	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	606-20-2	
Di-n-octylphthalate	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	117-81-7	
Fluoranthene	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	206-44-0	
Fluorene	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	87-68-3	
Hexachlorobenzene	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	77-47-4	
Hexachloroethane	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	373	1	12/19/13 13:00	12/20/13 21:50	193-39-5	

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ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Sample: S-12-6 **Lab ID: 92184006018** Collected: 12/17/13 15:40 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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8270 MSSV Microwave

Analytical Method: EPA 8270 Preparation Method: EPA 3546

Isophorone	ND ug/kg		373	1	12/19/13 13:00	12/20/13 21:50	78-59-1	
1-Methylnaphthalene	ND ug/kg		373	1	12/19/13 13:00	12/20/13 21:50	90-12-0	
2-Methylnaphthalene	ND ug/kg		373	1	12/19/13 13:00	12/20/13 21:50	91-57-6	
2-Methylphenol(o-Cresol)	ND ug/kg		373	1	12/19/13 13:00	12/20/13 21:50	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND ug/kg		373	1	12/19/13 13:00	12/20/13 21:50		
Naphthalene	ND ug/kg		373	1	12/19/13 13:00	12/20/13 21:50	91-20-3	
2-Nitroaniline	ND ug/kg		1870	1	12/19/13 13:00	12/20/13 21:50	88-74-4	
3-Nitroaniline	ND ug/kg		1870	1	12/19/13 13:00	12/20/13 21:50	99-09-2	
4-Nitroaniline	ND ug/kg		747	1	12/19/13 13:00	12/20/13 21:50	100-01-6	
Nitrobenzene	ND ug/kg		373	1	12/19/13 13:00	12/20/13 21:50	98-95-3	
2-Nitrophenol	ND ug/kg		373	1	12/19/13 13:00	12/20/13 21:50	88-75-5	
4-Nitrophenol	ND ug/kg		1870	1	12/19/13 13:00	12/20/13 21:50	100-02-7	
N-Nitrosodimethylamine	ND ug/kg		373	1	12/19/13 13:00	12/20/13 21:50	62-75-9	
N-Nitroso-di-n-propylamine	ND ug/kg		373	1	12/19/13 13:00	12/20/13 21:50	621-64-7	
N-Nitrosodiphenylamine	ND ug/kg		373	1	12/19/13 13:00	12/20/13 21:50	86-30-6	
Pentachlorophenol	ND ug/kg		1870	1	12/19/13 13:00	12/20/13 21:50	87-86-5	
Phenanthrene	ND ug/kg		373	1	12/19/13 13:00	12/20/13 21:50	85-01-8	
Phenol	ND ug/kg		373	1	12/19/13 13:00	12/20/13 21:50	108-95-2	
Pyrene	ND ug/kg		373	1	12/19/13 13:00	12/20/13 21:50	129-00-0	
1,2,4-Trichlorobenzene	ND ug/kg		373	1	12/19/13 13:00	12/20/13 21:50	120-82-1	
2,4,5-Trichlorophenol	ND ug/kg		373	1	12/19/13 13:00	12/20/13 21:50	95-95-4	
2,4,6-Trichlorophenol	ND ug/kg		373	1	12/19/13 13:00	12/20/13 21:50	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	42 %		23-110	1	12/19/13 13:00	12/20/13 21:50	4165-60-0	
2-Fluorobiphenyl (S)	43 %		30-110	1	12/19/13 13:00	12/20/13 21:50	321-60-8	
Terphenyl-d14 (S)	59 %		28-110	1	12/19/13 13:00	12/20/13 21:50	1718-51-0	
Phenol-d6 (S)	54 %		22-110	1	12/19/13 13:00	12/20/13 21:50	13127-88-3	
2-Fluorophenol (S)	44 %		13-110	1	12/19/13 13:00	12/20/13 21:50	367-12-4	
2,4,6-Tribromophenol (S)	56 %		27-110	1	12/19/13 13:00	12/20/13 21:50	118-79-6	

8260/5035A Volatile Organics

Analytical Method: EPA 8260

Acetone	120 ug/kg		96.0	1		12/21/13 18:33	67-64-1	A+
Benzene	ND ug/kg		4.8	1		12/21/13 18:33	71-43-2	
Bromobenzene	ND ug/kg		4.8	1		12/21/13 18:33	108-86-1	
Bromochloromethane	ND ug/kg		4.8	1		12/21/13 18:33	74-97-5	
Bromodichloromethane	ND ug/kg		4.8	1		12/21/13 18:33	75-27-4	
Bromoform	ND ug/kg		4.8	1		12/21/13 18:33	75-25-2	
Bromomethane	ND ug/kg		9.6	1		12/21/13 18:33	74-83-9	
2-Butanone (MEK)	ND ug/kg		96.0	1		12/21/13 18:33	78-93-3	
n-Butylbenzene	ND ug/kg		4.8	1		12/21/13 18:33	104-51-8	
sec-Butylbenzene	ND ug/kg		4.8	1		12/21/13 18:33	135-98-8	
tert-Butylbenzene	ND ug/kg		4.8	1		12/21/13 18:33	98-06-6	
Carbon tetrachloride	ND ug/kg		4.8	1		12/21/13 18:33	56-23-5	
Chlorobenzene	ND ug/kg		4.8	1		12/21/13 18:33	108-90-7	
Chloroethane	ND ug/kg		9.6	1		12/21/13 18:33	75-00-3	
Chloroform	ND ug/kg		4.8	1		12/21/13 18:33	67-66-3	

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ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Sample: S-12-6 **Lab ID: 92184006018** Collected: 12/17/13 15:40 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260						
Chloromethane	ND	ug/kg	9.6	1		12/21/13 18:33	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.8	1		12/21/13 18:33	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.8	1		12/21/13 18:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.8	1		12/21/13 18:33	96-12-8	
Dibromochloromethane	ND	ug/kg	4.8	1		12/21/13 18:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.8	1		12/21/13 18:33	106-93-4	
Dibromomethane	ND	ug/kg	4.8	1		12/21/13 18:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.8	1		12/21/13 18:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.8	1		12/21/13 18:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.8	1		12/21/13 18:33	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.6	1		12/21/13 18:33	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.8	1		12/21/13 18:33	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.8	1		12/21/13 18:33	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.8	1		12/21/13 18:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.8	1		12/21/13 18:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.8	1		12/21/13 18:33	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.8	1		12/21/13 18:33	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.8	1		12/21/13 18:33	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.8	1		12/21/13 18:33	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.8	1		12/21/13 18:33	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.8	1		12/21/13 18:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.8	1		12/21/13 18:33	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.8	1		12/21/13 18:33	108-20-3	
Ethylbenzene	ND	ug/kg	4.8	1		12/21/13 18:33	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.8	1		12/21/13 18:33	87-68-3	
2-Hexanone	ND	ug/kg	48.0	1		12/21/13 18:33	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.8	1		12/21/13 18:33	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.8	1		12/21/13 18:33	99-87-6	
Methylene Chloride	ND	ug/kg	19.2	1		12/21/13 18:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	48.0	1		12/21/13 18:33	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.8	1		12/21/13 18:33	1634-04-4	
Naphthalene	ND	ug/kg	4.8	1		12/21/13 18:33	91-20-3	
n-Propylbenzene	ND	ug/kg	4.8	1		12/21/13 18:33	103-65-1	
Styrene	ND	ug/kg	4.8	1		12/21/13 18:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.8	1		12/21/13 18:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.8	1		12/21/13 18:33	79-34-5	
Tetrachloroethene	ND	ug/kg	4.8	1		12/21/13 18:33	127-18-4	
Toluene	ND	ug/kg	4.8	1		12/21/13 18:33	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.8	1		12/21/13 18:33	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.8	1		12/21/13 18:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.8	1		12/21/13 18:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.8	1		12/21/13 18:33	79-00-5	
Trichloroethene	ND	ug/kg	4.8	1		12/21/13 18:33	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.8	1		12/21/13 18:33	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.8	1		12/21/13 18:33	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.8	1		12/21/13 18:33	95-63-6	

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ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Sample: S-12-6 Lab ID: 92184006018 Collected: 12/17/13 15:40 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260						
1,3,5-Trimethylbenzene	ND	ug/kg	4.8	1		12/21/13 18:33	108-67-8	
Vinyl acetate	ND	ug/kg	48.0	1		12/21/13 18:33	108-05-4	
Vinyl chloride	ND	ug/kg	9.6	1		12/21/13 18:33	75-01-4	
Xylene (Total)	ND	ug/kg	9.6	1		12/21/13 18:33	1330-20-7	
m&p-Xylene	ND	ug/kg	9.6	1		12/21/13 18:33	179601-23-1	
o-Xylene	ND	ug/kg	4.8	1		12/21/13 18:33	95-47-6	
Surrogates								
Toluene-d8 (S)	96	%	70-130	1		12/21/13 18:33	2037-26-5	
4-Bromofluorobenzene (S)	89	%	70-130	1		12/21/13 18:33	460-00-4	
1,2-Dichloroethane-d4 (S)	146	%	70-132	1		12/21/13 18:33	17060-07-0	S0
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	11.6	%	0.10	1		12/20/13 08:45		

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ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Sample: S-12-7 **Lab ID: 92184006019** Collected: 12/17/13 15:55 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546						
Acenaphthene	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	83-32-9	
Acenaphthylene	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	208-96-8	
Aniline	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	62-53-3	
Anthracene	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	120-12-7	
Benzo(a)anthracene	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	56-55-3	
Benzo(a)pyrene	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	207-08-9	
Benzoic Acid	ND	ug/kg	1950	1	12/19/13 13:00	12/20/13 22:17	65-85-0	
Benzyl alcohol	ND	ug/kg	782	1	12/19/13 13:00	12/20/13 22:17	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	101-55-3	
Butylbenzylphthalate	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	782	1	12/19/13 13:00	12/20/13 22:17	59-50-7	
4-Chloroaniline	ND	ug/kg	1950	1	12/19/13 13:00	12/20/13 22:17	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	108-60-1	
2-Chloronaphthalene	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	91-58-7	
2-Chlorophenol	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	7005-72-3	
Chrysene	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	53-70-3	
Dibenzofuran	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	1950	1	12/19/13 13:00	12/20/13 22:17	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	120-83-2	
Diethylphthalate	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	105-67-9	
Dimethylphthalate	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	131-11-3	
Di-n-butylphthalate	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	782	1	12/19/13 13:00	12/20/13 22:17	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1950	1	12/19/13 13:00	12/20/13 22:17	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	606-20-2	
Di-n-octylphthalate	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	117-81-7	
Fluoranthene	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	206-44-0	
Fluorene	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	87-68-3	
Hexachlorobenzene	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	77-47-4	
Hexachloroethane	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	193-39-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Sample: S-12-7 **Lab ID: 92184006019** Collected: 12/17/13 15:55 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546						
Isophorone	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	78-59-1	
1-Methylnaphthalene	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	90-12-0	
2-Methylnaphthalene	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17		
Naphthalene	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	91-20-3	
2-Nitroaniline	ND	ug/kg	1950	1	12/19/13 13:00	12/20/13 22:17	88-74-4	
3-Nitroaniline	ND	ug/kg	1950	1	12/19/13 13:00	12/20/13 22:17	99-09-2	
4-Nitroaniline	ND	ug/kg	782	1	12/19/13 13:00	12/20/13 22:17	100-01-6	
Nitrobenzene	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	98-95-3	
2-Nitrophenol	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	88-75-5	
4-Nitrophenol	ND	ug/kg	1950	1	12/19/13 13:00	12/20/13 22:17	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	86-30-6	
Pentachlorophenol	ND	ug/kg	1950	1	12/19/13 13:00	12/20/13 22:17	87-86-5	
Phenanthrene	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	85-01-8	
Phenol	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	108-95-2	
Pyrene	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	391	1	12/19/13 13:00	12/20/13 22:17	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	61 %		23-110	1	12/19/13 13:00	12/20/13 22:17	4165-60-0	
2-Fluorobiphenyl (S)	66 %		30-110	1	12/19/13 13:00	12/20/13 22:17	321-60-8	
Terphenyl-d14 (S)	64 %		28-110	1	12/19/13 13:00	12/20/13 22:17	1718-51-0	
Phenol-d6 (S)	47 %		22-110	1	12/19/13 13:00	12/20/13 22:17	13127-88-3	
2-Fluorophenol (S)	43 %		13-110	1	12/19/13 13:00	12/20/13 22:17	367-12-4	
2,4,6-Tribromophenol (S)	42 %		27-110	1	12/19/13 13:00	12/20/13 22:17	118-79-6	
8260/5035A Volatile Organics		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	94.0	1		12/21/13 18:53	67-64-1	
Benzene	ND	ug/kg	4.7	1		12/21/13 18:53	71-43-2	
Bromobenzene	ND	ug/kg	4.7	1		12/21/13 18:53	108-86-1	
Bromochloromethane	ND	ug/kg	4.7	1		12/21/13 18:53	74-97-5	
Bromodichloromethane	ND	ug/kg	4.7	1		12/21/13 18:53	75-27-4	
Bromoform	ND	ug/kg	4.7	1		12/21/13 18:53	75-25-2	
Bromomethane	ND	ug/kg	9.4	1		12/21/13 18:53	74-83-9	
2-Butanone (MEK)	ND	ug/kg	94.0	1		12/21/13 18:53	78-93-3	
n-Butylbenzene	ND	ug/kg	4.7	1		12/21/13 18:53	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.7	1		12/21/13 18:53	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.7	1		12/21/13 18:53	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.7	1		12/21/13 18:53	56-23-5	
Chlorobenzene	ND	ug/kg	4.7	1		12/21/13 18:53	108-90-7	
Chloroethane	ND	ug/kg	9.4	1		12/21/13 18:53	75-00-3	
Chloroform	ND	ug/kg	4.7	1		12/21/13 18:53	67-66-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Sample: S-12-7 **Lab ID: 92184006019** Collected: 12/17/13 15:55 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260						
Chloromethane	ND	ug/kg	9.4	1		12/21/13 18:53	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.7	1		12/21/13 18:53	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.7	1		12/21/13 18:53	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.7	1		12/21/13 18:53	96-12-8	
Dibromochloromethane	ND	ug/kg	4.7	1		12/21/13 18:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.7	1		12/21/13 18:53	106-93-4	
Dibromomethane	ND	ug/kg	4.7	1		12/21/13 18:53	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.7	1		12/21/13 18:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.7	1		12/21/13 18:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.7	1		12/21/13 18:53	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.4	1		12/21/13 18:53	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.7	1		12/21/13 18:53	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.7	1		12/21/13 18:53	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.7	1		12/21/13 18:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.7	1		12/21/13 18:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.7	1		12/21/13 18:53	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.7	1		12/21/13 18:53	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.7	1		12/21/13 18:53	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.7	1		12/21/13 18:53	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.7	1		12/21/13 18:53	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.7	1		12/21/13 18:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.7	1		12/21/13 18:53	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.7	1		12/21/13 18:53	108-20-3	
Ethylbenzene	ND	ug/kg	4.7	1		12/21/13 18:53	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.7	1		12/21/13 18:53	87-68-3	
2-Hexanone	ND	ug/kg	47.0	1		12/21/13 18:53	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.7	1		12/21/13 18:53	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.7	1		12/21/13 18:53	99-87-6	
Methylene Chloride	ND	ug/kg	18.8	1		12/21/13 18:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	47.0	1		12/21/13 18:53	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.7	1		12/21/13 18:53	1634-04-4	
Naphthalene	ND	ug/kg	4.7	1		12/21/13 18:53	91-20-3	
n-Propylbenzene	ND	ug/kg	4.7	1		12/21/13 18:53	103-65-1	
Styrene	ND	ug/kg	4.7	1		12/21/13 18:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.7	1		12/21/13 18:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.7	1		12/21/13 18:53	79-34-5	
Tetrachloroethene	ND	ug/kg	4.7	1		12/21/13 18:53	127-18-4	
Toluene	ND	ug/kg	4.7	1		12/21/13 18:53	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.7	1		12/21/13 18:53	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.7	1		12/21/13 18:53	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.7	1		12/21/13 18:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.7	1		12/21/13 18:53	79-00-5	
Trichloroethene	ND	ug/kg	4.7	1		12/21/13 18:53	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.7	1		12/21/13 18:53	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.7	1		12/21/13 18:53	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.7	1		12/21/13 18:53	95-63-6	

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ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1
 Pace Project No.: 92184006

Sample: S-12-7 Lab ID: 92184006019 Collected: 12/17/13 15:55 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260						
1,3,5-Trimethylbenzene	ND	ug/kg	4.7	1		12/21/13 18:53	108-67-8	
Vinyl acetate	ND	ug/kg	47.0	1		12/21/13 18:53	108-05-4	
Vinyl chloride	ND	ug/kg	9.4	1		12/21/13 18:53	75-01-4	
Xylene (Total)	ND	ug/kg	9.4	1		12/21/13 18:53	1330-20-7	
m&p-Xylene	ND	ug/kg	9.4	1		12/21/13 18:53	179601-23-1	
o-Xylene	ND	ug/kg	4.7	1		12/21/13 18:53	95-47-6	
Surrogates								
Toluene-d8 (S)	98	%	70-130	1		12/21/13 18:53	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130	1		12/21/13 18:53	460-00-4	
1,2-Dichloroethane-d4 (S)	122	%	70-132	1		12/21/13 18:53	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	15.6	%	0.10	1		12/20/13 17:06		

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ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Sample: S-12-8 **Lab ID: 92184006020** Collected: 12/17/13 16:10 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546						
Acenaphthene	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	83-32-9	
Acenaphthylene	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	208-96-8	
Aniline	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	62-53-3	
Anthracene	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	120-12-7	
Benzo(a)anthracene	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	56-55-3	
Benzo(a)pyrene	403	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	207-08-9	
Benzoic Acid	ND	ug/kg	1930	1	12/19/13 13:00	12/20/13 22:44	65-85-0	
Benzyl alcohol	ND	ug/kg	773	1	12/19/13 13:00	12/20/13 22:44	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	101-55-3	
Butylbenzylphthalate	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	773	1	12/19/13 13:00	12/20/13 22:44	59-50-7	
4-Chloroaniline	ND	ug/kg	1930	1	12/19/13 13:00	12/20/13 22:44	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	108-60-1	
2-Chloronaphthalene	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	91-58-7	
2-Chlorophenol	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	7005-72-3	
Chrysene	400	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	53-70-3	
Dibenzofuran	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	1930	1	12/19/13 13:00	12/20/13 22:44	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	120-83-2	
Diethylphthalate	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	105-67-9	
Dimethylphthalate	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	131-11-3	
Di-n-butylphthalate	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	773	1	12/19/13 13:00	12/20/13 22:44	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1930	1	12/19/13 13:00	12/20/13 22:44	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	606-20-2	
Di-n-octylphthalate	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	117-81-7	
Fluoranthene	855	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	206-44-0	
Fluorene	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	87-68-3	
Hexachlorobenzene	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	77-47-4	
Hexachloroethane	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	386	1	12/19/13 13:00	12/20/13 22:44	193-39-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Sample: S-12-8 **Lab ID: 92184006020** Collected: 12/17/13 16:10 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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8270 MSSV Microwave

Analytical Method: EPA 8270 Preparation Method: EPA 3546

Isophorone	ND ug/kg		386	1	12/19/13 13:00	12/20/13 22:44	78-59-1	
1-Methylnaphthalene	ND ug/kg		386	1	12/19/13 13:00	12/20/13 22:44	90-12-0	
2-Methylnaphthalene	ND ug/kg		386	1	12/19/13 13:00	12/20/13 22:44	91-57-6	
2-Methylphenol(o-Cresol)	ND ug/kg		386	1	12/19/13 13:00	12/20/13 22:44	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND ug/kg		386	1	12/19/13 13:00	12/20/13 22:44		
Naphthalene	ND ug/kg		386	1	12/19/13 13:00	12/20/13 22:44	91-20-3	
2-Nitroaniline	ND ug/kg		1930	1	12/19/13 13:00	12/20/13 22:44	88-74-4	
3-Nitroaniline	ND ug/kg		1930	1	12/19/13 13:00	12/20/13 22:44	99-09-2	
4-Nitroaniline	ND ug/kg		773	1	12/19/13 13:00	12/20/13 22:44	100-01-6	
Nitrobenzene	ND ug/kg		386	1	12/19/13 13:00	12/20/13 22:44	98-95-3	
2-Nitrophenol	ND ug/kg		386	1	12/19/13 13:00	12/20/13 22:44	88-75-5	
4-Nitrophenol	ND ug/kg		1930	1	12/19/13 13:00	12/20/13 22:44	100-02-7	
N-Nitrosodimethylamine	ND ug/kg		386	1	12/19/13 13:00	12/20/13 22:44	62-75-9	
N-Nitroso-di-n-propylamine	ND ug/kg		386	1	12/19/13 13:00	12/20/13 22:44	621-64-7	
N-Nitrosodiphenylamine	ND ug/kg		386	1	12/19/13 13:00	12/20/13 22:44	86-30-6	
Pentachlorophenol	ND ug/kg		1930	1	12/19/13 13:00	12/20/13 22:44	87-86-5	
Phenanthrene	ND ug/kg		386	1	12/19/13 13:00	12/20/13 22:44	85-01-8	
Phenol	ND ug/kg		386	1	12/19/13 13:00	12/20/13 22:44	108-95-2	
Pyrene	511 ug/kg		386	1	12/19/13 13:00	12/20/13 22:44	129-00-0	
1,2,4-Trichlorobenzene	ND ug/kg		386	1	12/19/13 13:00	12/20/13 22:44	120-82-1	
2,4,5-Trichlorophenol	ND ug/kg		386	1	12/19/13 13:00	12/20/13 22:44	95-95-4	
2,4,6-Trichlorophenol	ND ug/kg		386	1	12/19/13 13:00	12/20/13 22:44	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	63 %		23-110	1	12/19/13 13:00	12/20/13 22:44	4165-60-0	
2-Fluorobiphenyl (S)	67 %		30-110	1	12/19/13 13:00	12/20/13 22:44	321-60-8	
Terphenyl-d14 (S)	57 %		28-110	1	12/19/13 13:00	12/20/13 22:44	1718-51-0	
Phenol-d6 (S)	77 %		22-110	1	12/19/13 13:00	12/20/13 22:44	13127-88-3	
2-Fluorophenol (S)	68 %		13-110	1	12/19/13 13:00	12/20/13 22:44	367-12-4	
2,4,6-Tribromophenol (S)	68 %		27-110	1	12/19/13 13:00	12/20/13 22:44	118-79-6	

8260/5035A Volatile Organics

Analytical Method: EPA 8260

Acetone	136 ug/kg		87.1	1		12/21/13 19:12	67-64-1	A+
Benzene	ND ug/kg		4.4	1		12/21/13 19:12	71-43-2	
Bromobenzene	ND ug/kg		4.4	1		12/21/13 19:12	108-86-1	
Bromochloromethane	ND ug/kg		4.4	1		12/21/13 19:12	74-97-5	
Bromodichloromethane	ND ug/kg		4.4	1		12/21/13 19:12	75-27-4	
Bromoform	ND ug/kg		4.4	1		12/21/13 19:12	75-25-2	
Bromomethane	ND ug/kg		8.7	1		12/21/13 19:12	74-83-9	
2-Butanone (MEK)	ND ug/kg		87.1	1		12/21/13 19:12	78-93-3	
n-Butylbenzene	ND ug/kg		4.4	1		12/21/13 19:12	104-51-8	
sec-Butylbenzene	ND ug/kg		4.4	1		12/21/13 19:12	135-98-8	
tert-Butylbenzene	ND ug/kg		4.4	1		12/21/13 19:12	98-06-6	
Carbon tetrachloride	ND ug/kg		4.4	1		12/21/13 19:12	56-23-5	
Chlorobenzene	ND ug/kg		4.4	1		12/21/13 19:12	108-90-7	
Chloroethane	ND ug/kg		8.7	1		12/21/13 19:12	75-00-3	
Chloroform	ND ug/kg		4.4	1		12/21/13 19:12	67-66-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Sample: S-12-8 **Lab ID: 92184006020** Collected: 12/17/13 16:10 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260						
Chloromethane	ND	ug/kg	8.7	1		12/21/13 19:12	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.4	1		12/21/13 19:12	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.4	1		12/21/13 19:12	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.4	1		12/21/13 19:12	96-12-8	
Dibromochloromethane	ND	ug/kg	4.4	1		12/21/13 19:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.4	1		12/21/13 19:12	106-93-4	
Dibromomethane	ND	ug/kg	4.4	1		12/21/13 19:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.4	1		12/21/13 19:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.4	1		12/21/13 19:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.4	1		12/21/13 19:12	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.7	1		12/21/13 19:12	75-71-8	1g
1,1-Dichloroethane	ND	ug/kg	4.4	1		12/21/13 19:12	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.4	1		12/21/13 19:12	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.4	1		12/21/13 19:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.4	1		12/21/13 19:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.4	1		12/21/13 19:12	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.4	1		12/21/13 19:12	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.4	1		12/21/13 19:12	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.4	1		12/21/13 19:12	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.4	1		12/21/13 19:12	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.4	1		12/21/13 19:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.4	1		12/21/13 19:12	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.4	1		12/21/13 19:12	108-20-3	
Ethylbenzene	ND	ug/kg	4.4	1		12/21/13 19:12	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.4	1		12/21/13 19:12	87-68-3	
2-Hexanone	ND	ug/kg	43.5	1		12/21/13 19:12	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.4	1		12/21/13 19:12	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.4	1		12/21/13 19:12	99-87-6	
Methylene Chloride	ND	ug/kg	17.4	1		12/21/13 19:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	43.5	1		12/21/13 19:12	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.4	1		12/21/13 19:12	1634-04-4	
Naphthalene	ND	ug/kg	4.4	1		12/21/13 19:12	91-20-3	
n-Propylbenzene	ND	ug/kg	4.4	1		12/21/13 19:12	103-65-1	
Styrene	ND	ug/kg	4.4	1		12/21/13 19:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.4	1		12/21/13 19:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.4	1		12/21/13 19:12	79-34-5	
Tetrachloroethene	ND	ug/kg	4.4	1		12/21/13 19:12	127-18-4	
Toluene	ND	ug/kg	4.4	1		12/21/13 19:12	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.4	1		12/21/13 19:12	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.4	1		12/21/13 19:12	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.4	1		12/21/13 19:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.4	1		12/21/13 19:12	79-00-5	
Trichloroethene	ND	ug/kg	4.4	1		12/21/13 19:12	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.4	1		12/21/13 19:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.4	1		12/21/13 19:12	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.4	1		12/21/13 19:12	95-63-6	

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ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Sample: S-12-8 **Lab ID: 92184006020** Collected: 12/17/13 16:10 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260						
1,3,5-Trimethylbenzene	ND	ug/kg	4.4	1		12/21/13 19:12	108-67-8	
Vinyl acetate	ND	ug/kg	43.5	1		12/21/13 19:12	108-05-4	
Vinyl chloride	ND	ug/kg	8.7	1		12/21/13 19:12	75-01-4	
Xylene (Total)	ND	ug/kg	8.7	1		12/21/13 19:12	1330-20-7	
m&p-Xylene	ND	ug/kg	8.7	1		12/21/13 19:12	179601-23-1	
o-Xylene	ND	ug/kg	4.4	1		12/21/13 19:12	95-47-6	
Surrogates								
Toluene-d8 (S)	95	%	70-130	1		12/21/13 19:12	2037-26-5	
4-Bromofluorobenzene (S)	91	%	70-130	1		12/21/13 19:12	460-00-4	
1,2-Dichloroethane-d4 (S)	129	%	70-132	1		12/21/13 19:12	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	14.6	%	0.10	1		12/20/13 17:06		

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ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Sample: S-12-9 **Lab ID: 92184006021** Collected: 12/17/13 16:25 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546						
Acenaphthene	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	83-32-9	
Acenaphthylene	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	208-96-8	
Aniline	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	62-53-3	
Anthracene	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	120-12-7	
Benzo(a)anthracene	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	56-55-3	
Benzo(a)pyrene	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	207-08-9	
Benzoic Acid	ND	ug/kg	2000	1	12/19/13 13:00	12/20/13 23:11	65-85-0	
Benzyl alcohol	ND	ug/kg	801	1	12/19/13 13:00	12/20/13 23:11	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	101-55-3	
Butylbenzylphthalate	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	801	1	12/19/13 13:00	12/20/13 23:11	59-50-7	
4-Chloroaniline	ND	ug/kg	2000	1	12/19/13 13:00	12/20/13 23:11	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	108-60-1	
2-Chloronaphthalene	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	91-58-7	
2-Chlorophenol	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	7005-72-3	
Chrysene	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	53-70-3	
Dibenzofuran	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	2000	1	12/19/13 13:00	12/20/13 23:11	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	120-83-2	
Diethylphthalate	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	105-67-9	
Dimethylphthalate	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	131-11-3	
Di-n-butylphthalate	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	801	1	12/19/13 13:00	12/20/13 23:11	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	2000	1	12/19/13 13:00	12/20/13 23:11	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	606-20-2	
Di-n-octylphthalate	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	117-81-7	
Fluoranthene	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	206-44-0	
Fluorene	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	87-68-3	
Hexachlorobenzene	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	77-47-4	
Hexachloroethane	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	401	1	12/19/13 13:00	12/20/13 23:11	193-39-5	

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ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Sample: S-12-9 **Lab ID: 92184006021** Collected: 12/17/13 16:25 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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8270 MSSV Microwave

Analytical Method: EPA 8270 Preparation Method: EPA 3546

Isophorone	ND ug/kg		401	1	12/19/13 13:00	12/20/13 23:11	78-59-1	
1-Methylnaphthalene	ND ug/kg		401	1	12/19/13 13:00	12/20/13 23:11	90-12-0	
2-Methylnaphthalene	ND ug/kg		401	1	12/19/13 13:00	12/20/13 23:11	91-57-6	
2-Methylphenol(o-Cresol)	ND ug/kg		401	1	12/19/13 13:00	12/20/13 23:11	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND ug/kg		401	1	12/19/13 13:00	12/20/13 23:11		
Naphthalene	ND ug/kg		401	1	12/19/13 13:00	12/20/13 23:11	91-20-3	
2-Nitroaniline	ND ug/kg		2000	1	12/19/13 13:00	12/20/13 23:11	88-74-4	
3-Nitroaniline	ND ug/kg		2000	1	12/19/13 13:00	12/20/13 23:11	99-09-2	
4-Nitroaniline	ND ug/kg		801	1	12/19/13 13:00	12/20/13 23:11	100-01-6	
Nitrobenzene	ND ug/kg		401	1	12/19/13 13:00	12/20/13 23:11	98-95-3	
2-Nitrophenol	ND ug/kg		401	1	12/19/13 13:00	12/20/13 23:11	88-75-5	
4-Nitrophenol	ND ug/kg		2000	1	12/19/13 13:00	12/20/13 23:11	100-02-7	
N-Nitrosodimethylamine	ND ug/kg		401	1	12/19/13 13:00	12/20/13 23:11	62-75-9	
N-Nitroso-di-n-propylamine	ND ug/kg		401	1	12/19/13 13:00	12/20/13 23:11	621-64-7	
N-Nitrosodiphenylamine	ND ug/kg		401	1	12/19/13 13:00	12/20/13 23:11	86-30-6	
Pentachlorophenol	ND ug/kg		2000	1	12/19/13 13:00	12/20/13 23:11	87-86-5	
Phenanthrene	ND ug/kg		401	1	12/19/13 13:00	12/20/13 23:11	85-01-8	
Phenol	ND ug/kg		401	1	12/19/13 13:00	12/20/13 23:11	108-95-2	
Pyrene	ND ug/kg		401	1	12/19/13 13:00	12/20/13 23:11	129-00-0	
1,2,4-Trichlorobenzene	ND ug/kg		401	1	12/19/13 13:00	12/20/13 23:11	120-82-1	
2,4,5-Trichlorophenol	ND ug/kg		401	1	12/19/13 13:00	12/20/13 23:11	95-95-4	
2,4,6-Trichlorophenol	ND ug/kg		401	1	12/19/13 13:00	12/20/13 23:11	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	64 %		23-110	1	12/19/13 13:00	12/20/13 23:11	4165-60-0	
2-Fluorobiphenyl (S)	71 %		30-110	1	12/19/13 13:00	12/20/13 23:11	321-60-8	
Terphenyl-d14 (S)	75 %		28-110	1	12/19/13 13:00	12/20/13 23:11	1718-51-0	
Phenol-d6 (S)	65 %		22-110	1	12/19/13 13:00	12/20/13 23:11	13127-88-3	
2-Fluorophenol (S)	59 %		13-110	1	12/19/13 13:00	12/20/13 23:11	367-12-4	
2,4,6-Tribromophenol (S)	78 %		27-110	1	12/19/13 13:00	12/20/13 23:11	118-79-6	

8260/5035A Volatile Organics

Analytical Method: EPA 8260

Acetone	272 ug/kg		104	1		12/21/13 19:32	67-64-1	A+
Benzene	ND ug/kg		5.2	1		12/21/13 19:32	71-43-2	
Bromobenzene	ND ug/kg		5.2	1		12/21/13 19:32	108-86-1	
Bromochloromethane	ND ug/kg		5.2	1		12/21/13 19:32	74-97-5	
Bromodichloromethane	ND ug/kg		5.2	1		12/21/13 19:32	75-27-4	
Bromoform	ND ug/kg		5.2	1		12/21/13 19:32	75-25-2	
Bromomethane	ND ug/kg		10.4	1		12/21/13 19:32	74-83-9	
2-Butanone (MEK)	ND ug/kg		104	1		12/21/13 19:32	78-93-3	
n-Butylbenzene	ND ug/kg		5.2	1		12/21/13 19:32	104-51-8	
sec-Butylbenzene	ND ug/kg		5.2	1		12/21/13 19:32	135-98-8	
tert-Butylbenzene	ND ug/kg		5.2	1		12/21/13 19:32	98-06-6	
Carbon tetrachloride	ND ug/kg		5.2	1		12/21/13 19:32	56-23-5	
Chlorobenzene	ND ug/kg		5.2	1		12/21/13 19:32	108-90-7	
Chloroethane	ND ug/kg		10.4	1		12/21/13 19:32	75-00-3	
Chloroform	ND ug/kg		5.2	1		12/21/13 19:32	67-66-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Sample: S-12-9 **Lab ID: 92184006021** Collected: 12/17/13 16:25 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260						
Chloromethane	ND	ug/kg	10.4	1		12/21/13 19:32	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.2	1		12/21/13 19:32	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.2	1		12/21/13 19:32	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.2	1		12/21/13 19:32	96-12-8	
Dibromochloromethane	ND	ug/kg	5.2	1		12/21/13 19:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.2	1		12/21/13 19:32	106-93-4	
Dibromomethane	ND	ug/kg	5.2	1		12/21/13 19:32	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.2	1		12/21/13 19:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.2	1		12/21/13 19:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.2	1		12/21/13 19:32	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	10.4	1		12/21/13 19:32	75-71-8	1g
1,1-Dichloroethane	ND	ug/kg	5.2	1		12/21/13 19:32	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.2	1		12/21/13 19:32	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.2	1		12/21/13 19:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.2	1		12/21/13 19:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.2	1		12/21/13 19:32	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.2	1		12/21/13 19:32	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.2	1		12/21/13 19:32	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.2	1		12/21/13 19:32	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.2	1		12/21/13 19:32	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.2	1		12/21/13 19:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.2	1		12/21/13 19:32	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.2	1		12/21/13 19:32	108-20-3	
Ethylbenzene	ND	ug/kg	5.2	1		12/21/13 19:32	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.2	1		12/21/13 19:32	87-68-3	
2-Hexanone	ND	ug/kg	51.8	1		12/21/13 19:32	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.2	1		12/21/13 19:32	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.2	1		12/21/13 19:32	99-87-6	
Methylene Chloride	ND	ug/kg	20.7	1		12/21/13 19:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	51.8	1		12/21/13 19:32	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.2	1		12/21/13 19:32	1634-04-4	
Naphthalene	ND	ug/kg	5.2	1		12/21/13 19:32	91-20-3	
n-Propylbenzene	ND	ug/kg	5.2	1		12/21/13 19:32	103-65-1	
Styrene	ND	ug/kg	5.2	1		12/21/13 19:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.2	1		12/21/13 19:32	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.2	1		12/21/13 19:32	79-34-5	
Tetrachloroethene	ND	ug/kg	5.2	1		12/21/13 19:32	127-18-4	
Toluene	ND	ug/kg	5.2	1		12/21/13 19:32	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.2	1		12/21/13 19:32	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.2	1		12/21/13 19:32	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.2	1		12/21/13 19:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.2	1		12/21/13 19:32	79-00-5	
Trichloroethene	ND	ug/kg	5.2	1		12/21/13 19:32	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.2	1		12/21/13 19:32	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.2	1		12/21/13 19:32	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.2	1		12/21/13 19:32	95-63-6	

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ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1
 Pace Project No.: 92184006

Sample: S-12-9 Lab ID: 92184006021 Collected: 12/17/13 16:25 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260						
1,3,5-Trimethylbenzene	ND	ug/kg	5.2	1		12/21/13 19:32	108-67-8	
Vinyl acetate	ND	ug/kg	51.8	1		12/21/13 19:32	108-05-4	
Vinyl chloride	ND	ug/kg	10.4	1		12/21/13 19:32	75-01-4	
Xylene (Total)	ND	ug/kg	10.4	1		12/21/13 19:32	1330-20-7	
m&p-Xylene	ND	ug/kg	10.4	1		12/21/13 19:32	179601-23-1	
o-Xylene	ND	ug/kg	5.2	1		12/21/13 19:32	95-47-6	
Surrogates								
Toluene-d8 (S)	95	%	70-130	1		12/21/13 19:32	2037-26-5	
4-Bromofluorobenzene (S)	90	%	70-130	1		12/21/13 19:32	460-00-4	
1,2-Dichloroethane-d4 (S)	120	%	70-132	1		12/21/13 19:32	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	17.6	%	0.10	1		12/20/13 17:06		

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ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Sample: S-8-1 **Lab ID: 92184006022** Collected: 12/17/13 16:35 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546						
Acenaphthene	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	83-32-9	
Acenaphthylene	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	208-96-8	
Aniline	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	62-53-3	
Anthracene	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	120-12-7	
Benzo(a)anthracene	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	56-55-3	
Benzo(a)pyrene	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	207-08-9	
Benzoic Acid	ND	ug/kg	1830	1	12/19/13 13:00	12/20/13 23:37	65-85-0	
Benzyl alcohol	ND	ug/kg	732	1	12/19/13 13:00	12/20/13 23:37	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	101-55-3	
Butylbenzylphthalate	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	732	1	12/19/13 13:00	12/20/13 23:37	59-50-7	
4-Chloroaniline	ND	ug/kg	1830	1	12/19/13 13:00	12/20/13 23:37	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	108-60-1	
2-Chloronaphthalene	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	91-58-7	
2-Chlorophenol	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	7005-72-3	
Chrysene	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	53-70-3	
Dibenzofuran	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	1830	1	12/19/13 13:00	12/20/13 23:37	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	120-83-2	
Diethylphthalate	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	105-67-9	
Dimethylphthalate	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	131-11-3	
Di-n-butylphthalate	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	732	1	12/19/13 13:00	12/20/13 23:37	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1830	1	12/19/13 13:00	12/20/13 23:37	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	606-20-2	
Di-n-octylphthalate	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	117-81-7	
Fluoranthene	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	206-44-0	
Fluorene	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	87-68-3	
Hexachlorobenzene	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	77-47-4	
Hexachloroethane	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	193-39-5	

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ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Sample: S-8-1 **Lab ID: 92184006022** Collected: 12/17/13 16:35 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546						
Isophorone	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	78-59-1	
1-Methylnaphthalene	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	90-12-0	
2-Methylnaphthalene	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37		
Naphthalene	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	91-20-3	
2-Nitroaniline	ND	ug/kg	1830	1	12/19/13 13:00	12/20/13 23:37	88-74-4	
3-Nitroaniline	ND	ug/kg	1830	1	12/19/13 13:00	12/20/13 23:37	99-09-2	
4-Nitroaniline	ND	ug/kg	732	1	12/19/13 13:00	12/20/13 23:37	100-01-6	
Nitrobenzene	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	98-95-3	
2-Nitrophenol	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	88-75-5	
4-Nitrophenol	ND	ug/kg	1830	1	12/19/13 13:00	12/20/13 23:37	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	86-30-6	
Pentachlorophenol	ND	ug/kg	1830	1	12/19/13 13:00	12/20/13 23:37	87-86-5	
Phenanthrene	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	85-01-8	
Phenol	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	108-95-2	
Pyrene	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	366	1	12/19/13 13:00	12/20/13 23:37	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	45 %		23-110	1	12/19/13 13:00	12/20/13 23:37	4165-60-0	
2-Fluorobiphenyl (S)	48 %		30-110	1	12/19/13 13:00	12/20/13 23:37	321-60-8	
Terphenyl-d14 (S)	53 %		28-110	1	12/19/13 13:00	12/20/13 23:37	1718-51-0	
Phenol-d6 (S)	45 %		22-110	1	12/19/13 13:00	12/20/13 23:37	13127-88-3	
2-Fluorophenol (S)	42 %		13-110	1	12/19/13 13:00	12/20/13 23:37	367-12-4	
2,4,6-Tribromophenol (S)	41 %		27-110	1	12/19/13 13:00	12/20/13 23:37	118-79-6	
8260/5035A Volatile Organics		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	87.4	1		12/21/13 19:51	67-64-1	
Benzene	ND	ug/kg	4.4	1		12/21/13 19:51	71-43-2	
Bromobenzene	ND	ug/kg	4.4	1		12/21/13 19:51	108-86-1	
Bromochloromethane	ND	ug/kg	4.4	1		12/21/13 19:51	74-97-5	
Bromodichloromethane	ND	ug/kg	4.4	1		12/21/13 19:51	75-27-4	
Bromoform	ND	ug/kg	4.4	1		12/21/13 19:51	75-25-2	
Bromomethane	ND	ug/kg	8.7	1		12/21/13 19:51	74-83-9	
2-Butanone (MEK)	ND	ug/kg	87.4	1		12/21/13 19:51	78-93-3	
n-Butylbenzene	ND	ug/kg	4.4	1		12/21/13 19:51	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.4	1		12/21/13 19:51	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.4	1		12/21/13 19:51	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.4	1		12/21/13 19:51	56-23-5	
Chlorobenzene	ND	ug/kg	4.4	1		12/21/13 19:51	108-90-7	
Chloroethane	ND	ug/kg	8.7	1		12/21/13 19:51	75-00-3	
Chloroform	ND	ug/kg	4.4	1		12/21/13 19:51	67-66-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Sample: S-8-1 **Lab ID: 92184006022** Collected: 12/17/13 16:35 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260						
Chloromethane	ND	ug/kg	8.7	1		12/21/13 19:51	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.4	1		12/21/13 19:51	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.4	1		12/21/13 19:51	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.4	1		12/21/13 19:51	96-12-8	
Dibromochloromethane	ND	ug/kg	4.4	1		12/21/13 19:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.4	1		12/21/13 19:51	106-93-4	
Dibromomethane	ND	ug/kg	4.4	1		12/21/13 19:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.4	1		12/21/13 19:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.4	1		12/21/13 19:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.4	1		12/21/13 19:51	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.7	1		12/21/13 19:51	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.4	1		12/21/13 19:51	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.4	1		12/21/13 19:51	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.4	1		12/21/13 19:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.4	1		12/21/13 19:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.4	1		12/21/13 19:51	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.4	1		12/21/13 19:51	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.4	1		12/21/13 19:51	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.4	1		12/21/13 19:51	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.4	1		12/21/13 19:51	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.4	1		12/21/13 19:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.4	1		12/21/13 19:51	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.4	1		12/21/13 19:51	108-20-3	
Ethylbenzene	ND	ug/kg	4.4	1		12/21/13 19:51	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.4	1		12/21/13 19:51	87-68-3	
2-Hexanone	ND	ug/kg	43.7	1		12/21/13 19:51	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.4	1		12/21/13 19:51	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.4	1		12/21/13 19:51	99-87-6	
Methylene Chloride	ND	ug/kg	17.5	1		12/21/13 19:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	43.7	1		12/21/13 19:51	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.4	1		12/21/13 19:51	1634-04-4	
Naphthalene	ND	ug/kg	4.4	1		12/21/13 19:51	91-20-3	
n-Propylbenzene	ND	ug/kg	4.4	1		12/21/13 19:51	103-65-1	
Styrene	ND	ug/kg	4.4	1		12/21/13 19:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.4	1		12/21/13 19:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.4	1		12/21/13 19:51	79-34-5	
Tetrachloroethene	ND	ug/kg	4.4	1		12/21/13 19:51	127-18-4	
Toluene	ND	ug/kg	4.4	1		12/21/13 19:51	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.4	1		12/21/13 19:51	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.4	1		12/21/13 19:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.4	1		12/21/13 19:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.4	1		12/21/13 19:51	79-00-5	
Trichloroethene	ND	ug/kg	4.4	1		12/21/13 19:51	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.4	1		12/21/13 19:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.4	1		12/21/13 19:51	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.4	1		12/21/13 19:51	95-63-6	

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ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Sample: S-8-1 Lab ID: 92184006022 Collected: 12/17/13 16:35 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260						
1,3,5-Trimethylbenzene	ND	ug/kg	4.4	1		12/21/13 19:51	108-67-8	
Vinyl acetate	ND	ug/kg	43.7	1		12/21/13 19:51	108-05-4	
Vinyl chloride	ND	ug/kg	8.7	1		12/21/13 19:51	75-01-4	
Xylene (Total)	ND	ug/kg	8.7	1		12/21/13 19:51	1330-20-7	
m&p-Xylene	ND	ug/kg	8.7	1		12/21/13 19:51	179601-23-1	
o-Xylene	ND	ug/kg	4.4	1		12/21/13 19:51	95-47-6	
Surrogates								
Toluene-d8 (S)	101	%	70-130	1		12/21/13 19:51	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130	1		12/21/13 19:51	460-00-4	
1,2-Dichloroethane-d4 (S)	125	%	70-132	1		12/21/13 19:51	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	9.8	%	0.10	1		12/20/13 17:06		

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ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Sample: S-8-2 **Lab ID: 92184006023** Collected: 12/18/13 08:55 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546						
Acenaphthene	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	83-32-9	
Acenaphthylene	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	208-96-8	
Aniline	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	62-53-3	
Anthracene	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	120-12-7	
Benzo(a)anthracene	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	56-55-3	
Benzo(a)pyrene	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	207-08-9	
Benzoic Acid	ND	ug/kg	2100	1	12/19/13 13:00	12/21/13 00:04	65-85-0	
Benzyl alcohol	ND	ug/kg	838	1	12/19/13 13:00	12/21/13 00:04	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	101-55-3	
Butylbenzylphthalate	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	838	1	12/19/13 13:00	12/21/13 00:04	59-50-7	
4-Chloroaniline	ND	ug/kg	2100	1	12/19/13 13:00	12/21/13 00:04	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	108-60-1	
2-Chloronaphthalene	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	91-58-7	
2-Chlorophenol	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	7005-72-3	
Chrysene	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	53-70-3	
Dibenzofuran	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	2100	1	12/19/13 13:00	12/21/13 00:04	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	120-83-2	
Diethylphthalate	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	105-67-9	
Dimethylphthalate	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	131-11-3	
Di-n-butylphthalate	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	838	1	12/19/13 13:00	12/21/13 00:04	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	2100	1	12/19/13 13:00	12/21/13 00:04	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	606-20-2	
Di-n-octylphthalate	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	117-81-7	
Fluoranthene	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	206-44-0	
Fluorene	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	87-68-3	
Hexachlorobenzene	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	77-47-4	
Hexachloroethane	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	193-39-5	

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ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Sample: S-8-2 **Lab ID: 92184006023** Collected: 12/18/13 08:55 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546						
Isophorone	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	78-59-1	
1-Methylnaphthalene	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	90-12-0	
2-Methylnaphthalene	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04		
Naphthalene	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	91-20-3	
2-Nitroaniline	ND	ug/kg	2100	1	12/19/13 13:00	12/21/13 00:04	88-74-4	
3-Nitroaniline	ND	ug/kg	2100	1	12/19/13 13:00	12/21/13 00:04	99-09-2	
4-Nitroaniline	ND	ug/kg	838	1	12/19/13 13:00	12/21/13 00:04	100-01-6	
Nitrobenzene	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	98-95-3	
2-Nitrophenol	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	88-75-5	
4-Nitrophenol	ND	ug/kg	2100	1	12/19/13 13:00	12/21/13 00:04	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	86-30-6	
Pentachlorophenol	ND	ug/kg	2100	1	12/19/13 13:00	12/21/13 00:04	87-86-5	
Phenanthrene	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	85-01-8	
Phenol	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	108-95-2	
Pyrene	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	419	1	12/19/13 13:00	12/21/13 00:04	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	62 %		23-110	1	12/19/13 13:00	12/21/13 00:04	4165-60-0	
2-Fluorobiphenyl (S)	64 %		30-110	1	12/19/13 13:00	12/21/13 00:04	321-60-8	
Terphenyl-d14 (S)	61 %		28-110	1	12/19/13 13:00	12/21/13 00:04	1718-51-0	
Phenol-d6 (S)	63 %		22-110	1	12/19/13 13:00	12/21/13 00:04	13127-88-3	
2-Fluorophenol (S)	61 %		13-110	1	12/19/13 13:00	12/21/13 00:04	367-12-4	
2,4,6-Tribromophenol (S)	62 %		27-110	1	12/19/13 13:00	12/21/13 00:04	118-79-6	
8260/5035A Volatile Organics		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	97.3	1		12/24/13 15:58	67-64-1	
Benzene	ND	ug/kg	4.9	1		12/24/13 15:58	71-43-2	
Bromobenzene	ND	ug/kg	4.9	1		12/24/13 15:58	108-86-1	
Bromochloromethane	ND	ug/kg	4.9	1		12/24/13 15:58	74-97-5	
Bromodichloromethane	ND	ug/kg	4.9	1		12/24/13 15:58	75-27-4	
Bromoform	ND	ug/kg	4.9	1		12/24/13 15:58	75-25-2	
Bromomethane	ND	ug/kg	9.7	1		12/24/13 15:58	74-83-9	
2-Butanone (MEK)	ND	ug/kg	97.3	1		12/24/13 15:58	78-93-3	
n-Butylbenzene	ND	ug/kg	4.9	1		12/24/13 15:58	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.9	1		12/24/13 15:58	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.9	1		12/24/13 15:58	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.9	1		12/24/13 15:58	56-23-5	
Chlorobenzene	ND	ug/kg	4.9	1		12/24/13 15:58	108-90-7	
Chloroethane	ND	ug/kg	9.7	1		12/24/13 15:58	75-00-3	
Chloroform	ND	ug/kg	4.9	1		12/24/13 15:58	67-66-3	

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ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Sample: S-8-2 **Lab ID: 92184006023** Collected: 12/18/13 08:55 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260						
Chloromethane	ND	ug/kg	9.7	1		12/24/13 15:58	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.9	1		12/24/13 15:58	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.9	1		12/24/13 15:58	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.9	1		12/24/13 15:58	96-12-8	
Dibromochloromethane	ND	ug/kg	4.9	1		12/24/13 15:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.9	1		12/24/13 15:58	106-93-4	
Dibromomethane	ND	ug/kg	4.9	1		12/24/13 15:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.9	1		12/24/13 15:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.9	1		12/24/13 15:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.9	1		12/24/13 15:58	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.7	1		12/24/13 15:58	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.9	1		12/24/13 15:58	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.9	1		12/24/13 15:58	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.9	1		12/24/13 15:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.9	1		12/24/13 15:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.9	1		12/24/13 15:58	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.9	1		12/24/13 15:58	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.9	1		12/24/13 15:58	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.9	1		12/24/13 15:58	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.9	1		12/24/13 15:58	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.9	1		12/24/13 15:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.9	1		12/24/13 15:58	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.9	1		12/24/13 15:58	108-20-3	
Ethylbenzene	ND	ug/kg	4.9	1		12/24/13 15:58	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.9	1		12/24/13 15:58	87-68-3	
2-Hexanone	ND	ug/kg	48.6	1		12/24/13 15:58	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.9	1		12/24/13 15:58	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.9	1		12/24/13 15:58	99-87-6	
Methylene Chloride	ND	ug/kg	19.5	1		12/24/13 15:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	48.6	1		12/24/13 15:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.9	1		12/24/13 15:58	1634-04-4	
Naphthalene	ND	ug/kg	4.9	1		12/24/13 15:58	91-20-3	
n-Propylbenzene	ND	ug/kg	4.9	1		12/24/13 15:58	103-65-1	
Styrene	ND	ug/kg	4.9	1		12/24/13 15:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.9	1		12/24/13 15:58	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/kg	4.9	1		12/24/13 15:58	79-34-5	
Tetrachloroethene	ND	ug/kg	4.9	1		12/24/13 15:58	127-18-4	
Toluene	ND	ug/kg	4.9	1		12/24/13 15:58	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.9	1		12/24/13 15:58	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.9	1		12/24/13 15:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.9	1		12/24/13 15:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.9	1		12/24/13 15:58	79-00-5	
Trichloroethene	ND	ug/kg	4.9	1		12/24/13 15:58	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.9	1		12/24/13 15:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.9	1		12/24/13 15:58	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.9	1		12/24/13 15:58	95-63-6	

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ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1
 Pace Project No.: 92184006

Sample: S-8-2 Lab ID: 92184006023 Collected: 12/18/13 08:55 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260						
1,3,5-Trimethylbenzene	ND	ug/kg	4.9	1		12/24/13 15:58	108-67-8	
Vinyl acetate	ND	ug/kg	48.6	1		12/24/13 15:58	108-05-4	
Vinyl chloride	ND	ug/kg	9.7	1		12/24/13 15:58	75-01-4	
Xylene (Total)	ND	ug/kg	9.7	1		12/24/13 15:58	1330-20-7	
m&p-Xylene	ND	ug/kg	9.7	1		12/24/13 15:58	179601-23-1	
o-Xylene	ND	ug/kg	4.9	1		12/24/13 15:58	95-47-6	
Surrogates								
Toluene-d8 (S)	99 %		70-130	1		12/24/13 15:58	2037-26-5	
4-Bromofluorobenzene (S)	93 %		70-130	1		12/24/13 15:58	460-00-4	
1,2-Dichloroethane-d4 (S)	106 %		70-132	1		12/24/13 15:58	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	21.3 %		0.10	1		12/20/13 17:06		

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ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Sample: S-8-5 **Lab ID: 92184006024** Collected: 12/18/13 09:25 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546						
Acenaphthene	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	83-32-9	
Acenaphthylene	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	208-96-8	
Aniline	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	62-53-3	
Anthracene	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	120-12-7	
Benzo(a)anthracene	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	56-55-3	
Benzo(a)pyrene	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	207-08-9	
Benzoic Acid	ND	ug/kg	2130	1	12/19/13 13:00	12/21/13 00:31	65-85-0	
Benzyl alcohol	ND	ug/kg	853	1	12/19/13 13:00	12/21/13 00:31	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	101-55-3	
Butylbenzylphthalate	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	853	1	12/19/13 13:00	12/21/13 00:31	59-50-7	
4-Chloroaniline	ND	ug/kg	2130	1	12/19/13 13:00	12/21/13 00:31	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	108-60-1	
2-Chloronaphthalene	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	91-58-7	
2-Chlorophenol	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	7005-72-3	
Chrysene	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	53-70-3	
Dibenzofuran	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	2130	1	12/19/13 13:00	12/21/13 00:31	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	120-83-2	
Diethylphthalate	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	105-67-9	
Dimethylphthalate	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	131-11-3	
Di-n-butylphthalate	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	853	1	12/19/13 13:00	12/21/13 00:31	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	2130	1	12/19/13 13:00	12/21/13 00:31	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	606-20-2	
Di-n-octylphthalate	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	117-81-7	
Fluoranthene	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	206-44-0	
Fluorene	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	87-68-3	
Hexachlorobenzene	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	77-47-4	
Hexachloroethane	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	193-39-5	

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ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Sample: S-8-5 **Lab ID: 92184006024** Collected: 12/18/13 09:25 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546						
Isophorone	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	78-59-1	
1-Methylnaphthalene	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	90-12-0	
2-Methylnaphthalene	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31		
Naphthalene	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	91-20-3	
2-Nitroaniline	ND	ug/kg	2130	1	12/19/13 13:00	12/21/13 00:31	88-74-4	
3-Nitroaniline	ND	ug/kg	2130	1	12/19/13 13:00	12/21/13 00:31	99-09-2	
4-Nitroaniline	ND	ug/kg	853	1	12/19/13 13:00	12/21/13 00:31	100-01-6	
Nitrobenzene	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	98-95-3	
2-Nitrophenol	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	88-75-5	
4-Nitrophenol	ND	ug/kg	2130	1	12/19/13 13:00	12/21/13 00:31	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	86-30-6	
Pentachlorophenol	ND	ug/kg	2130	1	12/19/13 13:00	12/21/13 00:31	87-86-5	
Phenanthrene	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	85-01-8	
Phenol	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	108-95-2	
Pyrene	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	426	1	12/19/13 13:00	12/21/13 00:31	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	55 %		23-110	1	12/19/13 13:00	12/21/13 00:31	4165-60-0	
2-Fluorobiphenyl (S)	49 %		30-110	1	12/19/13 13:00	12/21/13 00:31	321-60-8	
Terphenyl-d14 (S)	56 %		28-110	1	12/19/13 13:00	12/21/13 00:31	1718-51-0	
Phenol-d6 (S)	57 %		22-110	1	12/19/13 13:00	12/21/13 00:31	13127-88-3	
2-Fluorophenol (S)	54 %		13-110	1	12/19/13 13:00	12/21/13 00:31	367-12-4	
2,4,6-Tribromophenol (S)	61 %		27-110	1	12/19/13 13:00	12/21/13 00:31	118-79-6	
8260/5035A Volatile Organics		Analytical Method: EPA 8260						
Acetone	228	ug/kg	107	1		12/24/13 02:10	67-64-1	A+
Benzene	ND	ug/kg	5.4	1		12/24/13 02:10	71-43-2	
Bromobenzene	ND	ug/kg	5.4	1		12/24/13 02:10	108-86-1	
Bromochloromethane	ND	ug/kg	5.4	1		12/24/13 02:10	74-97-5	
Bromodichloromethane	ND	ug/kg	5.4	1		12/24/13 02:10	75-27-4	
Bromoform	ND	ug/kg	5.4	1		12/24/13 02:10	75-25-2	
Bromomethane	ND	ug/kg	10.7	1		12/24/13 02:10	74-83-9	
2-Butanone (MEK)	ND	ug/kg	107	1		12/24/13 02:10	78-93-3	
n-Butylbenzene	ND	ug/kg	5.4	1		12/24/13 02:10	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.4	1		12/24/13 02:10	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.4	1		12/24/13 02:10	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.4	1		12/24/13 02:10	56-23-5	
Chlorobenzene	ND	ug/kg	5.4	1		12/24/13 02:10	108-90-7	
Chloroethane	ND	ug/kg	10.7	1		12/24/13 02:10	75-00-3	
Chloroform	ND	ug/kg	5.4	1		12/24/13 02:10	67-66-3	

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ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Sample: S-8-5 **Lab ID: 92184006024** Collected: 12/18/13 09:25 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260						
Chloromethane	ND	ug/kg	10.7	1		12/24/13 02:10	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.4	1		12/24/13 02:10	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.4	1		12/24/13 02:10	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.4	1		12/24/13 02:10	96-12-8	
Dibromochloromethane	ND	ug/kg	5.4	1		12/24/13 02:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.4	1		12/24/13 02:10	106-93-4	
Dibromomethane	ND	ug/kg	5.4	1		12/24/13 02:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.4	1		12/24/13 02:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.4	1		12/24/13 02:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.4	1		12/24/13 02:10	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	10.7	1		12/24/13 02:10	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.4	1		12/24/13 02:10	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.4	1		12/24/13 02:10	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.4	1		12/24/13 02:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.4	1		12/24/13 02:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.4	1		12/24/13 02:10	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.4	1		12/24/13 02:10	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.4	1		12/24/13 02:10	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.4	1		12/24/13 02:10	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.4	1		12/24/13 02:10	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.4	1		12/24/13 02:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.4	1		12/24/13 02:10	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.4	1		12/24/13 02:10	108-20-3	
Ethylbenzene	ND	ug/kg	5.4	1		12/24/13 02:10	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.4	1		12/24/13 02:10	87-68-3	
2-Hexanone	ND	ug/kg	53.7	1		12/24/13 02:10	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.4	1		12/24/13 02:10	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.4	1		12/24/13 02:10	99-87-6	
Methylene Chloride	ND	ug/kg	21.5	1		12/24/13 02:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	53.7	1		12/24/13 02:10	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.4	1		12/24/13 02:10	1634-04-4	
Naphthalene	ND	ug/kg	5.4	1		12/24/13 02:10	91-20-3	
n-Propylbenzene	ND	ug/kg	5.4	1		12/24/13 02:10	103-65-1	
Styrene	ND	ug/kg	5.4	1		12/24/13 02:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.4	1		12/24/13 02:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.4	1		12/24/13 02:10	79-34-5	
Tetrachloroethene	ND	ug/kg	5.4	1		12/24/13 02:10	127-18-4	
Toluene	ND	ug/kg	5.4	1		12/24/13 02:10	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.4	1		12/24/13 02:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.4	1		12/24/13 02:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.4	1		12/24/13 02:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.4	1		12/24/13 02:10	79-00-5	
Trichloroethene	ND	ug/kg	5.4	1		12/24/13 02:10	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.4	1		12/24/13 02:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.4	1		12/24/13 02:10	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.4	1		12/24/13 02:10	95-63-6	

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ANALYTICAL RESULTS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Sample: S-8-5 **Lab ID: 92184006024** Collected: 12/18/13 09:25 Received: 12/19/13 11:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260						
1,3,5-Trimethylbenzene	ND	ug/kg	5.4	1		12/24/13 02:10	108-67-8	
Vinyl acetate	ND	ug/kg	53.7	1		12/24/13 02:10	108-05-4	
Vinyl chloride	ND	ug/kg	10.7	1		12/24/13 02:10	75-01-4	
Xylene (Total)	ND	ug/kg	10.7	1		12/24/13 02:10	1330-20-7	
m&p-Xylene	ND	ug/kg	10.7	1		12/24/13 02:10	179601-23-1	
o-Xylene	ND	ug/kg	5.4	1		12/24/13 02:10	95-47-6	
Surrogates								
Toluene-d8 (S)	98	%	70-130	1		12/24/13 02:10	2037-26-5	
4-Bromofluorobenzene (S)	87	%	70-130	1		12/24/13 02:10	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-132	1		12/24/13 02:10	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	22.6	%	0.10	1		12/20/13 17:07		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1
 Pace Project No.: 92184006

QC Batch: GCV/7649 Analysis Method: EPA 8015 Modified
 QC Batch Method: EPA 5035A/5030B Analysis Description: Gasoline Range Organics
 Associated Lab Samples: 92184006001, 92184006002, 92184006003, 92184006004, 92184006005, 92184006006, 92184006007, 92184006008, 92184006009, 92184006013

METHOD BLANK: 1113921 Matrix: Solid
 Associated Lab Samples: 92184006001, 92184006002, 92184006003, 92184006004, 92184006005, 92184006006, 92184006007, 92184006008, 92184006009, 92184006013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	6.0	12/28/13 11:32	
4-Bromofluorobenzene (S)	%	100	70-167	12/28/13 11:32	

LABORATORY CONTROL SAMPLE: 1113922

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	49.8	47.9	96	70-165	
4-Bromofluorobenzene (S)	%			98	70-167	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1113923 1113924

Parameter	Units	92183967004 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result					
Gasoline Range Organics	mg/kg	ND	56.5	56.5	55.5	55.5	97	97	47-187	0	
4-Bromofluorobenzene (S)	%						102	95	70-167		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1
 Pace Project No.: 92184006

QC Batch: GCV/7653 Analysis Method: EPA 8015 Modified
 QC Batch Method: EPA 5035A/5030B Analysis Description: Gasoline Range Organics
 Associated Lab Samples: 92184006014, 92184006015, 92184006016

METHOD BLANK: 1114163 Matrix: Solid
 Associated Lab Samples: 92184006014, 92184006015, 92184006016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	6.0	12/31/13 04:06	
4-Bromofluorobenzene (S)	%	103	70-167	12/31/13 04:06	

LABORATORY CONTROL SAMPLE: 1114164

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	49.7	46.9	94	70-165	
4-Bromofluorobenzene (S)	%			102	70-167	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1114165 1114166

Parameter	Units	92184006014		1114166		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result					
Gasoline Range Organics	mg/kg	ND	46	46	44.5	39.5	97	86	47-187	12
4-Bromofluorobenzene (S)	%						102	101	70-167	

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QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

QC Batch: MSV/25308 Analysis Method: EPA 8260
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
 Associated Lab Samples: 92184006010, 92184006011

METHOD BLANK: 1110867 Matrix: Solid

Associated Lab Samples: 92184006010, 92184006011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.4	12/21/13 10:52	
1,1,1-Trichloroethane	ug/kg	ND	5.4	12/21/13 10:52	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.4	12/21/13 10:52	
1,1,2-Trichloroethane	ug/kg	ND	5.4	12/21/13 10:52	
1,1-Dichloroethane	ug/kg	ND	5.4	12/21/13 10:52	
1,1-Dichloroethene	ug/kg	ND	5.4	12/21/13 10:52	
1,1-Dichloropropene	ug/kg	ND	5.4	12/21/13 10:52	
1,2,3-Trichlorobenzene	ug/kg	ND	5.4	12/21/13 10:52	
1,2,3-Trichloropropane	ug/kg	ND	5.4	12/21/13 10:52	
1,2,4-Trichlorobenzene	ug/kg	ND	5.4	12/21/13 10:52	
1,2,4-Trimethylbenzene	ug/kg	ND	5.4	12/21/13 10:52	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.4	12/21/13 10:52	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.4	12/21/13 10:52	
1,2-Dichlorobenzene	ug/kg	ND	5.4	12/21/13 10:52	
1,2-Dichloroethane	ug/kg	ND	5.4	12/21/13 10:52	
1,2-Dichloropropane	ug/kg	ND	5.4	12/21/13 10:52	
1,3,5-Trimethylbenzene	ug/kg	ND	5.4	12/21/13 10:52	
1,3-Dichlorobenzene	ug/kg	ND	5.4	12/21/13 10:52	
1,3-Dichloropropane	ug/kg	ND	5.4	12/21/13 10:52	
1,4-Dichlorobenzene	ug/kg	ND	5.4	12/21/13 10:52	
2,2-Dichloropropane	ug/kg	ND	5.4	12/21/13 10:52	
2-Butanone (MEK)	ug/kg	ND	108	12/21/13 10:52	
2-Chlorotoluene	ug/kg	ND	5.4	12/21/13 10:52	
2-Hexanone	ug/kg	ND	54.1	12/21/13 10:52	
4-Chlorotoluene	ug/kg	ND	5.4	12/21/13 10:52	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	54.1	12/21/13 10:52	
Acetone	ug/kg	ND	108	12/21/13 10:52	
Benzene	ug/kg	ND	5.4	12/21/13 10:52	
Bromobenzene	ug/kg	ND	5.4	12/21/13 10:52	
Bromochloromethane	ug/kg	ND	5.4	12/21/13 10:52	
Bromodichloromethane	ug/kg	ND	5.4	12/21/13 10:52	
Bromoform	ug/kg	ND	5.4	12/21/13 10:52	
Bromomethane	ug/kg	ND	10.8	12/21/13 10:52	
Carbon tetrachloride	ug/kg	ND	5.4	12/21/13 10:52	
Chlorobenzene	ug/kg	ND	5.4	12/21/13 10:52	
Chloroethane	ug/kg	ND	10.8	12/21/13 10:52	
Chloroform	ug/kg	ND	5.4	12/21/13 10:52	
Chloromethane	ug/kg	ND	10.8	12/21/13 10:52	
cis-1,2-Dichloroethene	ug/kg	ND	5.4	12/21/13 10:52	
cis-1,3-Dichloropropene	ug/kg	ND	5.4	12/21/13 10:52	
Dibromochloromethane	ug/kg	ND	5.4	12/21/13 10:52	
Dibromomethane	ug/kg	ND	5.4	12/21/13 10:52	
Dichlorodifluoromethane	ug/kg	ND	10.8	12/21/13 10:52	

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QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

METHOD BLANK: 1110867

Matrix: Solid

Associated Lab Samples: 92184006010, 92184006011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/kg	ND	5.4	12/21/13 10:52	
Ethylbenzene	ug/kg	ND	5.4	12/21/13 10:52	
Hexachloro-1,3-butadiene	ug/kg	ND	5.4	12/21/13 10:52	
Isopropylbenzene (Cumene)	ug/kg	ND	5.4	12/21/13 10:52	
m&p-Xylene	ug/kg	ND	10.8	12/21/13 10:52	
Methyl-tert-butyl ether	ug/kg	ND	5.4	12/21/13 10:52	
Methylene Chloride	ug/kg	ND	21.6	12/21/13 10:52	
n-Butylbenzene	ug/kg	ND	5.4	12/21/13 10:52	
n-Propylbenzene	ug/kg	ND	5.4	12/21/13 10:52	
Naphthalene	ug/kg	ND	5.4	12/21/13 10:52	
o-Xylene	ug/kg	ND	5.4	12/21/13 10:52	
p-Isopropyltoluene	ug/kg	ND	5.4	12/21/13 10:52	
sec-Butylbenzene	ug/kg	ND	5.4	12/21/13 10:52	
Styrene	ug/kg	ND	5.4	12/21/13 10:52	
tert-Butylbenzene	ug/kg	ND	5.4	12/21/13 10:52	
Tetrachloroethene	ug/kg	ND	5.4	12/21/13 10:52	
Toluene	ug/kg	ND	5.4	12/21/13 10:52	
trans-1,2-Dichloroethene	ug/kg	ND	5.4	12/21/13 10:52	
trans-1,3-Dichloropropene	ug/kg	ND	5.4	12/21/13 10:52	
Trichloroethene	ug/kg	ND	5.4	12/21/13 10:52	
Trichlorofluoromethane	ug/kg	ND	5.4	12/21/13 10:52	
Vinyl acetate	ug/kg	ND	54.1	12/21/13 10:52	
Vinyl chloride	ug/kg	ND	10.8	12/21/13 10:52	
Xylene (Total)	ug/kg	ND	10.8	12/21/13 10:52	
1,2-Dichloroethane-d4 (S)	%	89	70-132	12/21/13 10:52	
4-Bromofluorobenzene (S)	%	105	70-130	12/21/13 10:52	
Toluene-d8 (S)	%	107	70-130	12/21/13 10:52	

LABORATORY CONTROL SAMPLE: 1110868

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	52	54.2	104	70-131	
1,1,1-Trichloroethane	ug/kg	52	51.2	99	70-141	
1,1,2,2-Tetrachloroethane	ug/kg	52	55.9	107	70-130	
1,1,2-Trichloroethane	ug/kg	52	55.0	106	70-132	
1,1-Dichloroethane	ug/kg	52	50.0	96	70-143	
1,1-Dichloroethene	ug/kg	52	49.7	96	70-137	
1,1-Dichloropropene	ug/kg	52	54.2	104	70-135	
1,2,3-Trichlorobenzene	ug/kg	52	55.0	106	69-153	
1,2,3-Trichloropropane	ug/kg	52	55.3	106	70-130	
1,2,4-Trichlorobenzene	ug/kg	52	55.9	108	55-171	
1,2,4-Trimethylbenzene	ug/kg	52	54.0	104	70-149	
1,2-Dibromo-3-chloropropane	ug/kg	52	54.4	105	68-141	
1,2-Dibromoethane (EDB)	ug/kg	52	58.3	112	70-130	
1,2-Dichlorobenzene	ug/kg	52	53.2	102	70-140	

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QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

LABORATORY CONTROL SAMPLE: 1110868

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/kg	52	49.9	96	70-137	
1,2-Dichloropropane	ug/kg	52	53.9	104	70-133	
1,3,5-Trimethylbenzene	ug/kg	52	53.5	103	70-143	
1,3-Dichlorobenzene	ug/kg	52	51.8	100	70-144	
1,3-Dichloropropane	ug/kg	52	58.2	112	70-132	
1,4-Dichlorobenzene	ug/kg	52	53.3	103	70-142	
2,2-Dichloropropane	ug/kg	52	51.4	99	68-152	
2-Butanone (MEK)	ug/kg	104	100J	97	70-149	
2-Chlorotoluene	ug/kg	52	51.4	99	70-141	
2-Hexanone	ug/kg	104	115	111	70-149	
4-Chlorotoluene	ug/kg	52	53.5	103	70-149	
4-Methyl-2-pentanone (MIBK)	ug/kg	104	106	102	70-153	
Acetone	ug/kg	104	98.5J	95	70-157	
Benzene	ug/kg	52	54.9	106	70-130	
Bromobenzene	ug/kg	52	50.5	97	70-141	
Bromochloromethane	ug/kg	52	52.8	102	70-149	
Bromodichloromethane	ug/kg	52	51.0	98	70-130	
Bromoform	ug/kg	52	58.9	113	70-131	
Bromomethane	ug/kg	52	56.8	109	64-136	
Carbon tetrachloride	ug/kg	52	47.4	91	70-154	
Chlorobenzene	ug/kg	52	52.8	102	70-135	
Chloroethane	ug/kg	52	52.4	101	68-151	
Chloroform	ug/kg	52	52.0	100	70-130	
Chloromethane	ug/kg	52	46.7	90	70-132	
cis-1,2-Dichloroethene	ug/kg	52	50.0	96	70-140	
cis-1,3-Dichloropropene	ug/kg	52	52.6	101	70-137	
Dibromochloromethane	ug/kg	52	58.0	112	70-130	
Dibromomethane	ug/kg	52	51.7	99	70-136	
Dichlorodifluoromethane	ug/kg	52	55.0	106	36-148	
Diisopropyl ether	ug/kg	52	50.5	97	70-139	
Ethylbenzene	ug/kg	52	52.5	101	70-137	
Hexachloro-1,3-butadiene	ug/kg	52	53.2	102	70-145	
Isopropylbenzene (Cumene)	ug/kg	52	55.7	107	70-141	
m&p-Xylene	ug/kg	104	109	105	70-140	
Methyl-tert-butyl ether	ug/kg	52	51.9	100	45-150	
Methylene Chloride	ug/kg	52	48.7	94	70-133	
n-Butylbenzene	ug/kg	52	56.4	109	65-155	
n-Propylbenzene	ug/kg	52	54.7	105	70-148	
Naphthalene	ug/kg	52	54.9	106	70-148	
o-Xylene	ug/kg	52	55.2	106	70-141	
p-Isopropyltoluene	ug/kg	52	54.5	105	70-148	
sec-Butylbenzene	ug/kg	52	54.8	106	70-145	
Styrene	ug/kg	52	56.4	109	70-138	
tert-Butylbenzene	ug/kg	52	54.1	104	70-143	
Tetrachloroethene	ug/kg	52	56.1	108	70-140	
Toluene	ug/kg	52	49.2	95	70-130	
trans-1,2-Dichloroethene	ug/kg	52	49.1	94	70-136	
trans-1,3-Dichloropropene	ug/kg	52	53.0	102	70-138	

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QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

LABORATORY CONTROL SAMPLE: 1110868

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichloroethene	ug/kg	52	50.3	97	70-132	
Trichlorofluoromethane	ug/kg	52	53.7	103	69-134	
Vinyl acetate	ug/kg	104	146	141	24-161	
Vinyl chloride	ug/kg	52	53.1	102	55-140	
Xylene (Total)	ug/kg	156	164	105	70-141	
1,2-Dichloroethane-d4 (S)	%			95	70-132	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			93	70-130	

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QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

QC Batch: MSV/25319 Analysis Method: EPA 8260
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
 Associated Lab Samples: 92184006012, 92184006017, 92184006018, 92184006019, 92184006020, 92184006021, 92184006022

METHOD BLANK: 1111204 Matrix: Solid
 Associated Lab Samples: 92184006012, 92184006017, 92184006018, 92184006019, 92184006020, 92184006021, 92184006022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.1	12/21/13 13:19	
1,1,1-Trichloroethane	ug/kg	ND	5.1	12/21/13 13:19	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.1	12/21/13 13:19	
1,1,2-Trichloroethane	ug/kg	ND	5.1	12/21/13 13:19	
1,1-Dichloroethane	ug/kg	ND	5.1	12/21/13 13:19	
1,1-Dichloroethene	ug/kg	ND	5.1	12/21/13 13:19	
1,1-Dichloropropene	ug/kg	ND	5.1	12/21/13 13:19	
1,2,3-Trichlorobenzene	ug/kg	ND	5.1	12/21/13 13:19	
1,2,3-Trichloropropane	ug/kg	ND	5.1	12/21/13 13:19	
1,2,4-Trichlorobenzene	ug/kg	ND	5.1	12/21/13 13:19	
1,2,4-Trimethylbenzene	ug/kg	ND	5.1	12/21/13 13:19	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.1	12/21/13 13:19	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.1	12/21/13 13:19	
1,2-Dichlorobenzene	ug/kg	ND	5.1	12/21/13 13:19	
1,2-Dichloroethane	ug/kg	ND	5.1	12/21/13 13:19	
1,2-Dichloropropane	ug/kg	ND	5.1	12/21/13 13:19	
1,3,5-Trimethylbenzene	ug/kg	ND	5.1	12/21/13 13:19	
1,3-Dichlorobenzene	ug/kg	ND	5.1	12/21/13 13:19	
1,3-Dichloropropane	ug/kg	ND	5.1	12/21/13 13:19	
1,4-Dichlorobenzene	ug/kg	ND	5.1	12/21/13 13:19	
2,2-Dichloropropane	ug/kg	ND	5.1	12/21/13 13:19	
2-Butanone (MEK)	ug/kg	ND	102	12/21/13 13:19	
2-Chlorotoluene	ug/kg	ND	5.1	12/21/13 13:19	
2-Hexanone	ug/kg	ND	50.9	12/21/13 13:19	
4-Chlorotoluene	ug/kg	ND	5.1	12/21/13 13:19	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	50.9	12/21/13 13:19	
Acetone	ug/kg	ND	102	12/21/13 13:19	
Benzene	ug/kg	ND	5.1	12/21/13 13:19	
Bromobenzene	ug/kg	ND	5.1	12/21/13 13:19	
Bromochloromethane	ug/kg	ND	5.1	12/21/13 13:19	
Bromodichloromethane	ug/kg	ND	5.1	12/21/13 13:19	
Bromoform	ug/kg	ND	5.1	12/21/13 13:19	
Bromomethane	ug/kg	ND	10.2	12/21/13 13:19	
Carbon tetrachloride	ug/kg	ND	5.1	12/21/13 13:19	
Chlorobenzene	ug/kg	ND	5.1	12/21/13 13:19	
Chloroethane	ug/kg	ND	10.2	12/21/13 13:19	
Chloroform	ug/kg	ND	5.1	12/21/13 13:19	
Chloromethane	ug/kg	ND	10.2	12/21/13 13:19	
cis-1,2-Dichloroethene	ug/kg	ND	5.1	12/21/13 13:19	
cis-1,3-Dichloropropene	ug/kg	ND	5.1	12/21/13 13:19	
Dibromochloromethane	ug/kg	ND	5.1	12/21/13 13:19	
Dibromomethane	ug/kg	ND	5.1	12/21/13 13:19	
Dichlorodifluoromethane	ug/kg	ND	10.2	12/21/13 13:19	

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QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

METHOD BLANK: 1111204

Matrix: Solid

Associated Lab Samples: 92184006012, 92184006017, 92184006018, 92184006019, 92184006020, 92184006021, 92184006022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/kg	ND	5.1	12/21/13 13:19	
Ethylbenzene	ug/kg	ND	5.1	12/21/13 13:19	
Hexachloro-1,3-butadiene	ug/kg	ND	5.1	12/21/13 13:19	
Isopropylbenzene (Cumene)	ug/kg	ND	5.1	12/21/13 13:19	
m&p-Xylene	ug/kg	ND	10.2	12/21/13 13:19	
Methyl-tert-butyl ether	ug/kg	ND	5.1	12/21/13 13:19	
Methylene Chloride	ug/kg	ND	20.4	12/21/13 13:19	
n-Butylbenzene	ug/kg	ND	5.1	12/21/13 13:19	
n-Propylbenzene	ug/kg	ND	5.1	12/21/13 13:19	
Naphthalene	ug/kg	ND	5.1	12/21/13 13:19	
o-Xylene	ug/kg	ND	5.1	12/21/13 13:19	
p-Isopropyltoluene	ug/kg	ND	5.1	12/21/13 13:19	
sec-Butylbenzene	ug/kg	ND	5.1	12/21/13 13:19	
Styrene	ug/kg	ND	5.1	12/21/13 13:19	
tert-Butylbenzene	ug/kg	ND	5.1	12/21/13 13:19	
Tetrachloroethene	ug/kg	ND	5.1	12/21/13 13:19	
Toluene	ug/kg	ND	5.1	12/21/13 13:19	
trans-1,2-Dichloroethene	ug/kg	ND	5.1	12/21/13 13:19	
trans-1,3-Dichloropropene	ug/kg	ND	5.1	12/21/13 13:19	
Trichloroethene	ug/kg	ND	5.1	12/21/13 13:19	
Trichlorofluoromethane	ug/kg	ND	5.1	12/21/13 13:19	
Vinyl acetate	ug/kg	ND	50.9	12/21/13 13:19	
Vinyl chloride	ug/kg	ND	10.2	12/21/13 13:19	
Xylene (Total)	ug/kg	ND	10.2	12/21/13 13:19	
1,2-Dichloroethane-d4 (S)	%	122	70-132	12/21/13 13:19	
4-Bromofluorobenzene (S)	%	100	70-130	12/21/13 13:19	
Toluene-d8 (S)	%	97	70-130	12/21/13 13:19	

LABORATORY CONTROL SAMPLE: 1111205

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	53.9	53.6	99	70-131	
1,1,1-Trichloroethane	ug/kg	53.9	59.5	110	70-141	
1,1,2,2-Tetrachloroethane	ug/kg	53.9	55.9	104	70-130	
1,1,2-Trichloroethane	ug/kg	53.9	55.0	102	70-132	
1,1-Dichloroethane	ug/kg	53.9	58.9	109	70-143	
1,1-Dichloroethene	ug/kg	53.9	57.4	107	70-137	
1,1-Dichloropropene	ug/kg	53.9	61.4	114	70-135	
1,2,3-Trichlorobenzene	ug/kg	53.9	56.8	105	69-153	
1,2,3-Trichloropropane	ug/kg	53.9	55.6	103	70-130	
1,2,4-Trichlorobenzene	ug/kg	53.9	54.2	101	55-171	
1,2,4-Trimethylbenzene	ug/kg	53.9	59.6	111	70-149	
1,2-Dibromo-3-chloropropane	ug/kg	53.9	55.5	103	68-141	
1,2-Dibromoethane (EDB)	ug/kg	53.9	55.8	104	70-130	
1,2-Dichlorobenzene	ug/kg	53.9	53.6	99	70-140	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

LABORATORY CONTROL SAMPLE: 1111205

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/kg	53.9	59.0	110	70-137	
1,2-Dichloropropane	ug/kg	53.9	55.8	104	70-133	
1,3,5-Trimethylbenzene	ug/kg	53.9	58.8	109	70-143	
1,3-Dichlorobenzene	ug/kg	53.9	53.6	99	70-144	
1,3-Dichloropropane	ug/kg	53.9	59.1	110	70-132	
1,4-Dichlorobenzene	ug/kg	53.9	54.3	101	70-142	
2,2-Dichloropropane	ug/kg	53.9	60.9	113	68-152	
2-Butanone (MEK)	ug/kg	108	114	106	70-149	
2-Chlorotoluene	ug/kg	53.9	55.3	103	70-141	
2-Hexanone	ug/kg	108	102	95	70-149	
4-Chlorotoluene	ug/kg	53.9	58.7	109	70-149	
4-Methyl-2-pentanone (MIBK)	ug/kg	108	103	96	70-153	
Acetone	ug/kg	108	98.4J	91	70-157	
Benzene	ug/kg	53.9	57.3	106	70-130	
Bromobenzene	ug/kg	53.9	58.0	108	70-141	
Bromochloromethane	ug/kg	53.9	52.0	96	70-149	
Bromodichloromethane	ug/kg	53.9	55.6	103	70-130	
Bromoform	ug/kg	53.9	51.3	95	70-131	
Bromomethane	ug/kg	53.9	65.2	121	64-136	
Carbon tetrachloride	ug/kg	53.9	53.2	99	70-154	
Chlorobenzene	ug/kg	53.9	56.0	104	70-135	
Chloroethane	ug/kg	53.9	62.7	116	68-151	
Chloroform	ug/kg	53.9	59.8	111	70-130	
Chloromethane	ug/kg	53.9	64.3	119	70-132	
cis-1,2-Dichloroethene	ug/kg	53.9	56.3	104	70-140	
cis-1,3-Dichloropropene	ug/kg	53.9	56.1	104	70-137	
Dibromochloromethane	ug/kg	53.9	53.8	100	70-130	
Dibromomethane	ug/kg	53.9	54.4	101	70-136	
Dichlorodifluoromethane	ug/kg	53.9	59.7	111	36-148	
Diisopropyl ether	ug/kg	53.9	55.9	104	70-139	
Ethylbenzene	ug/kg	53.9	55.3	103	70-137	
Hexachloro-1,3-butadiene	ug/kg	53.9	58.5	109	70-145	
Isopropylbenzene (Cumene)	ug/kg	53.9	57.3	106	70-141	
m&p-Xylene	ug/kg	108	112	104	70-140	
Methyl-tert-butyl ether	ug/kg	53.9	61.3	114	45-150	
Methylene Chloride	ug/kg	53.9	54.1	100	70-133	
n-Butylbenzene	ug/kg	53.9	58.9	109	65-155	
n-Propylbenzene	ug/kg	53.9	58.9	109	70-148	
Naphthalene	ug/kg	53.9	53.2	99	70-148	
o-Xylene	ug/kg	53.9	55.9	104	70-141	
p-Isopropyltoluene	ug/kg	53.9	56.2	104	70-148	
sec-Butylbenzene	ug/kg	53.9	59.0	110	70-145	
Styrene	ug/kg	53.9	56.7	105	70-138	
tert-Butylbenzene	ug/kg	53.9	56.3	104	70-143	
Tetrachloroethene	ug/kg	53.9	51.8	96	70-140	
Toluene	ug/kg	53.9	52.5	97	70-130	
trans-1,2-Dichloroethene	ug/kg	53.9	58.4	108	70-136	
trans-1,3-Dichloropropene	ug/kg	53.9	57.0	106	70-138	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

LABORATORY CONTROL SAMPLE: 1111205

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichloroethene	ug/kg	53.9	51.8	96	70-132	
Trichlorofluoromethane	ug/kg	53.9	64.3	119	69-134	
Vinyl acetate	ug/kg	108	132	123	24-161	
Vinyl chloride	ug/kg	53.9	59.1	110	55-140	
Xylene (Total)	ug/kg	162	168	104	70-141	
1,2-Dichloroethane-d4 (S)	%			110	70-132	
4-Bromofluorobenzene (S)	%			96	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 1111382

Parameter	Units	92184231005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/kg		ND 30.1	24.2	81	49-180	
Benzene	ug/kg		ND 30.1	27.7	92	50-166	
Chlorobenzene	ug/kg		ND 30.1	30.8	103	43-169	
Toluene	ug/kg		ND 30.1	26.9	90	52-163	
Trichloroethene	ug/kg		ND 30.1	27.4	91	49-167	
1,2-Dichloroethane-d4 (S)	%				129	70-132	
4-Bromofluorobenzene (S)	%				101	70-130	
Toluene-d8 (S)	%				97	70-130	

SAMPLE DUPLICATE: 1111381

Parameter	Units	92184006019 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,1-Trichloroethane	ug/kg	ND	ND		
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,2-Trichloroethane	ug/kg	ND	ND		
1,1-Dichloroethane	ug/kg	ND	ND		
1,1-Dichloroethane	ug/kg	ND	ND		
1,1-Dichloropropene	ug/kg	ND	ND		
1,2,3-Trichlorobenzene	ug/kg	ND	ND		
1,2,3-Trichloropropane	ug/kg	ND	ND		
1,2,4-Trichlorobenzene	ug/kg	ND	ND		
1,2,4-Trimethylbenzene	ug/kg	ND	ND		
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		
1,2-Dichlorobenzene	ug/kg	ND	ND		
1,2-Dichloroethane	ug/kg	ND	ND		
1,2-Dichloropropane	ug/kg	ND	ND		
1,3,5-Trimethylbenzene	ug/kg	ND	ND		
1,3-Dichlorobenzene	ug/kg	ND	ND		
1,3-Dichloropropane	ug/kg	ND	ND		
1,4-Dichlorobenzene	ug/kg	ND	ND		
2,2-Dichloropropane	ug/kg	ND	ND		

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QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

SAMPLE DUPLICATE: 1111381

Parameter	Units	92184006019 Result	Dup Result	RPD	Qualifiers
2-Butanone (MEK)	ug/kg	ND	ND		
2-Chlorotoluene	ug/kg	ND	ND		
2-Hexanone	ug/kg	ND	ND		
4-Chlorotoluene	ug/kg	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND		
Acetone	ug/kg	ND	77.1J		
Benzene	ug/kg	ND	ND		
Bromobenzene	ug/kg	ND	ND		
Bromochloromethane	ug/kg	ND	ND		
Bromodichloromethane	ug/kg	ND	ND		
Bromoform	ug/kg	ND	ND		
Bromomethane	ug/kg	ND	ND		
Carbon tetrachloride	ug/kg	ND	ND		
Chlorobenzene	ug/kg	ND	ND		
Chloroethane	ug/kg	ND	ND		
Chloroform	ug/kg	ND	ND		
Chloromethane	ug/kg	ND	ND		
cis-1,2-Dichloroethene	ug/kg	ND	ND		
cis-1,3-Dichloropropene	ug/kg	ND	ND		
Dibromochloromethane	ug/kg	ND	ND		
Dibromomethane	ug/kg	ND	ND		
Dichlorodifluoromethane	ug/kg	ND	ND		
Diisopropyl ether	ug/kg	ND	ND		
Ethylbenzene	ug/kg	ND	ND		
Hexachloro-1,3-butadiene	ug/kg	ND	ND		
Isopropylbenzene (Cumene)	ug/kg	ND	ND		
m&p-Xylene	ug/kg	ND	ND		
Methyl-tert-butyl ether	ug/kg	ND	ND		
Methylene Chloride	ug/kg	ND	ND		
n-Butylbenzene	ug/kg	ND	ND		
n-Propylbenzene	ug/kg	ND	ND		
Naphthalene	ug/kg	ND	ND		
o-Xylene	ug/kg	ND	ND		
p-Isopropyltoluene	ug/kg	ND	ND		
sec-Butylbenzene	ug/kg	ND	ND		
Styrene	ug/kg	ND	ND		
tert-Butylbenzene	ug/kg	ND	ND		
Tetrachloroethene	ug/kg	ND	ND		
Toluene	ug/kg	ND	ND		
trans-1,2-Dichloroethene	ug/kg	ND	ND		
trans-1,3-Dichloropropene	ug/kg	ND	ND		
Trichloroethene	ug/kg	ND	ND		
Trichlorofluoromethane	ug/kg	ND	ND		
Vinyl acetate	ug/kg	ND	ND		
Vinyl chloride	ug/kg	ND	ND		
Xylene (Total)	ug/kg	ND	ND		
1,2-Dichloroethane-d4 (S)	%	122	123		10
4-Bromofluorobenzene (S)	%	97	100		12

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1
Pace Project No.: 92184006

SAMPLE DUPLICATE: 1111381

Parameter	Units	92184006019 Result	Dup Result	RPD	Qualifiers
Toluene-d8 (S)	%	98	97	8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

QC Batch: MSV/25343	Analysis Method: EPA 8260
QC Batch Method: EPA 8260	Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 92184006024	

METHOD BLANK: 1111846 Matrix: Solid

Associated Lab Samples: 92184006024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	4.9	12/23/13 17:21	
1,1,1-Trichloroethane	ug/kg	ND	4.9	12/23/13 17:21	
1,1,2,2-Tetrachloroethane	ug/kg	ND	4.9	12/23/13 17:21	
1,1,2-Trichloroethane	ug/kg	ND	4.9	12/23/13 17:21	
1,1-Dichloroethane	ug/kg	ND	4.9	12/23/13 17:21	
1,1-Dichloroethene	ug/kg	ND	4.9	12/23/13 17:21	
1,1-Dichloropropene	ug/kg	ND	4.9	12/23/13 17:21	
1,2,3-Trichlorobenzene	ug/kg	ND	4.9	12/23/13 17:21	
1,2,3-Trichloropropane	ug/kg	ND	4.9	12/23/13 17:21	
1,2,4-Trichlorobenzene	ug/kg	ND	4.9	12/23/13 17:21	
1,2,4-Trimethylbenzene	ug/kg	ND	4.9	12/23/13 17:21	
1,2-Dibromo-3-chloropropane	ug/kg	ND	4.9	12/23/13 17:21	
1,2-Dibromoethane (EDB)	ug/kg	ND	4.9	12/23/13 17:21	
1,2-Dichlorobenzene	ug/kg	ND	4.9	12/23/13 17:21	
1,2-Dichloroethane	ug/kg	ND	4.9	12/23/13 17:21	
1,2-Dichloropropane	ug/kg	ND	4.9	12/23/13 17:21	
1,3,5-Trimethylbenzene	ug/kg	ND	4.9	12/23/13 17:21	
1,3-Dichlorobenzene	ug/kg	ND	4.9	12/23/13 17:21	
1,3-Dichloropropane	ug/kg	ND	4.9	12/23/13 17:21	
1,4-Dichlorobenzene	ug/kg	ND	4.9	12/23/13 17:21	
2,2-Dichloropropane	ug/kg	ND	4.9	12/23/13 17:21	
2-Butanone (MEK)	ug/kg	ND	97.8	12/23/13 17:21	
2-Chlorotoluene	ug/kg	ND	4.9	12/23/13 17:21	
2-Hexanone	ug/kg	ND	48.9	12/23/13 17:21	
4-Chlorotoluene	ug/kg	ND	4.9	12/23/13 17:21	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	48.9	12/23/13 17:21	
Acetone	ug/kg	ND	97.8	12/23/13 17:21	
Benzene	ug/kg	ND	4.9	12/23/13 17:21	
Bromobenzene	ug/kg	ND	4.9	12/23/13 17:21	
Bromochloromethane	ug/kg	ND	4.9	12/23/13 17:21	
Bromodichloromethane	ug/kg	ND	4.9	12/23/13 17:21	
Bromoform	ug/kg	ND	4.9	12/23/13 17:21	
Bromomethane	ug/kg	ND	9.8	12/23/13 17:21	
Carbon tetrachloride	ug/kg	ND	4.9	12/23/13 17:21	
Chlorobenzene	ug/kg	ND	4.9	12/23/13 17:21	
Chloroethane	ug/kg	ND	9.8	12/23/13 17:21	
Chloroform	ug/kg	ND	4.9	12/23/13 17:21	
Chloromethane	ug/kg	ND	9.8	12/23/13 17:21	
cis-1,2-Dichloroethene	ug/kg	ND	4.9	12/23/13 17:21	
cis-1,3-Dichloropropene	ug/kg	ND	4.9	12/23/13 17:21	
Dibromochloromethane	ug/kg	ND	4.9	12/23/13 17:21	
Dibromomethane	ug/kg	ND	4.9	12/23/13 17:21	
Dichlorodifluoromethane	ug/kg	ND	9.8	12/23/13 17:21	

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QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

METHOD BLANK: 1111846

Matrix: Solid

Associated Lab Samples: 92184006024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/kg	ND	4.9	12/23/13 17:21	
Ethylbenzene	ug/kg	ND	4.9	12/23/13 17:21	
Hexachloro-1,3-butadiene	ug/kg	ND	4.9	12/23/13 17:21	
Isopropylbenzene (Cumene)	ug/kg	ND	4.9	12/23/13 17:21	
m&p-Xylene	ug/kg	ND	9.8	12/23/13 17:21	
Methyl-tert-butyl ether	ug/kg	ND	4.9	12/23/13 17:21	
Methylene Chloride	ug/kg	ND	19.6	12/23/13 17:21	
n-Butylbenzene	ug/kg	ND	4.9	12/23/13 17:21	
n-Propylbenzene	ug/kg	ND	4.9	12/23/13 17:21	
Naphthalene	ug/kg	ND	4.9	12/23/13 17:21	
o-Xylene	ug/kg	ND	4.9	12/23/13 17:21	
p-Isopropyltoluene	ug/kg	ND	4.9	12/23/13 17:21	
sec-Butylbenzene	ug/kg	ND	4.9	12/23/13 17:21	
Styrene	ug/kg	ND	4.9	12/23/13 17:21	
tert-Butylbenzene	ug/kg	ND	4.9	12/23/13 17:21	
Tetrachloroethene	ug/kg	ND	4.9	12/23/13 17:21	
Toluene	ug/kg	ND	4.9	12/23/13 17:21	
trans-1,2-Dichloroethene	ug/kg	ND	4.9	12/23/13 17:21	
trans-1,3-Dichloropropene	ug/kg	ND	4.9	12/23/13 17:21	
Trichloroethene	ug/kg	ND	4.9	12/23/13 17:21	
Trichlorofluoromethane	ug/kg	ND	4.9	12/23/13 17:21	
Vinyl acetate	ug/kg	ND	48.9	12/23/13 17:21	
Vinyl chloride	ug/kg	ND	9.8	12/23/13 17:21	
Xylene (Total)	ug/kg	ND	9.8	12/23/13 17:21	
1,2-Dichloroethane-d4 (S)	%	122	70-132	12/23/13 17:21	
4-Bromofluorobenzene (S)	%	102	70-130	12/23/13 17:21	
Toluene-d8 (S)	%	100	70-130	12/23/13 17:21	

LABORATORY CONTROL SAMPLE: 1111847

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50.4	53.7	107	70-131	
1,1,1-Trichloroethane	ug/kg	50.4	58.9	117	70-141	
1,1,2,2-Tetrachloroethane	ug/kg	50.4	60.8	121	70-130	
1,1,2-Trichloroethane	ug/kg	50.4	54.2	107	70-132	
1,1-Dichloroethane	ug/kg	50.4	56.1	111	70-143	
1,1-Dichloroethene	ug/kg	50.4	55.6	110	70-137	
1,1-Dichloropropene	ug/kg	50.4	57.0	113	70-135	
1,2,3-Trichlorobenzene	ug/kg	50.4	50.5	100	69-153	
1,2,3-Trichloropropane	ug/kg	50.4	62.0	123	70-130	
1,2,4-Trichlorobenzene	ug/kg	50.4	47.4	94	55-171	
1,2,4-Trimethylbenzene	ug/kg	50.4	53.5	106	70-149	
1,2-Dibromo-3-chloropropane	ug/kg	50.4	60.2	120	68-141	
1,2-Dibromoethane (EDB)	ug/kg	50.4	58.7	116	70-130	
1,2-Dichlorobenzene	ug/kg	50.4	49.7	99	70-140	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

LABORATORY CONTROL SAMPLE: 1111847

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/kg	50.4	65.5	130	70-137	
1,2-Dichloropropane	ug/kg	50.4	52.3	104	70-133	
1,3,5-Trimethylbenzene	ug/kg	50.4	52.3	104	70-143	
1,3-Dichlorobenzene	ug/kg	50.4	47.5	94	70-144	
1,3-Dichloropropane	ug/kg	50.4	60.1	119	70-132	
1,4-Dichlorobenzene	ug/kg	50.4	48.3	96	70-142	
2,2-Dichloropropane	ug/kg	50.4	56.6	112	68-152	
2-Butanone (MEK)	ug/kg	101	114	113	70-149	
2-Chlorotoluene	ug/kg	50.4	49.5	98	70-141	
2-Hexanone	ug/kg	101	114	113	70-149	
4-Chlorotoluene	ug/kg	50.4	52.0	103	70-149	
4-Methyl-2-pentanone (MIBK)	ug/kg	101	109	108	70-153	
Acetone	ug/kg	101	120	119	70-157	
Benzene	ug/kg	50.4	51.7	103	70-130	
Bromobenzene	ug/kg	50.4	54.1	107	70-141	
Bromochloromethane	ug/kg	50.4	51.9	103	70-149	
Bromodichloromethane	ug/kg	50.4	54.4	108	70-130	
Bromoform	ug/kg	50.4	53.4	106	70-131	
Bromomethane	ug/kg	50.4	65.6	130	64-136	
Carbon tetrachloride	ug/kg	50.4	52.3	104	70-154	
Chlorobenzene	ug/kg	50.4	52.9	105	70-135	
Chloroethane	ug/kg	50.4	57.1	113	68-151	
Chloroform	ug/kg	50.4	56.8	113	70-130	
Chloromethane	ug/kg	50.4	59.2	117	70-132	
cis-1,2-Dichloroethene	ug/kg	50.4	56.6	112	70-140	
cis-1,3-Dichloropropene	ug/kg	50.4	53.0	105	70-137	
Dibromochloromethane	ug/kg	50.4	56.1	111	70-130	
Dibromomethane	ug/kg	50.4	55.1	109	70-136	
Dichlorodifluoromethane	ug/kg	50.4	54.7	109	36-148	
Diisopropyl ether	ug/kg	50.4	51.4	102	70-139	
Ethylbenzene	ug/kg	50.4	52.0	103	70-137	
Hexachloro-1,3-butadiene	ug/kg	50.4	52.2	103	70-145	
Isopropylbenzene (Cumene)	ug/kg	50.4	54.3	108	70-141	
m&p-Xylene	ug/kg	101	107	106	70-140	
Methyl-tert-butyl ether	ug/kg	50.4	61.2	121	45-150	
Methylene Chloride	ug/kg	50.4	53.8	107	70-133	
n-Butylbenzene	ug/kg	50.4	50.4	100	65-155	
n-Propylbenzene	ug/kg	50.4	51.6	102	70-148	
Naphthalene	ug/kg	50.4	51.9	103	70-148	
o-Xylene	ug/kg	50.4	53.0	105	70-141	
p-Isopropyltoluene	ug/kg	50.4	50.0	99	70-148	
sec-Butylbenzene	ug/kg	50.4	52.8	105	70-145	
Styrene	ug/kg	50.4	53.2	106	70-138	
tert-Butylbenzene	ug/kg	50.4	51.2	102	70-143	
Tetrachloroethene	ug/kg	50.4	49.7	99	70-140	
Toluene	ug/kg	50.4	49.5	98	70-130	
trans-1,2-Dichloroethene	ug/kg	50.4	54.8	109	70-136	
trans-1,3-Dichloropropene	ug/kg	50.4	55.3	110	70-138	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

LABORATORY CONTROL SAMPLE: 1111847

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichloroethene	ug/kg	50.4	46.5	92	70-132	
Trichlorofluoromethane	ug/kg	50.4	65.5	130	69-134	
Vinyl acetate	ug/kg	101	106	105	24-161	
Vinyl chloride	ug/kg	50.4	55.7	110	55-140	
Xylene (Total)	ug/kg	151	160	106	70-141	
1,2-Dichloroethane-d4 (S)	%			125	70-132	
4-Bromofluorobenzene (S)	%			107	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE SAMPLE: 1112266

Parameter	Units	92184090001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/kg		ND	42.9	37.1	86	49-180
Benzene	ug/kg		ND	42.9	37.3	87	50-166
Chlorobenzene	ug/kg		ND	42.9	35.2	82	43-169
Toluene	ug/kg		ND	42.9	32.4	74	52-163
Trichloroethene	ug/kg		ND	42.9	32.3	75	49-167
1,2-Dichloroethane-d4 (S)	%					104	70-132
4-Bromofluorobenzene (S)	%					96	70-130
Toluene-d8 (S)	%					99	70-130

SAMPLE DUPLICATE: 1112265

Parameter	Units	92184006024 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,1-Trichloroethane	ug/kg	ND	ND		
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,2-Trichloroethane	ug/kg	ND	ND		
1,1-Dichloroethane	ug/kg	ND	ND		
1,1-Dichloroethane	ug/kg	ND	ND		
1,1-Dichloropropene	ug/kg	ND	ND		
1,2,3-Trichlorobenzene	ug/kg	ND	ND		
1,2,3-Trichloropropane	ug/kg	ND	ND		
1,2,4-Trichlorobenzene	ug/kg	ND	ND		
1,2,4-Trimethylbenzene	ug/kg	ND	ND		
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		
1,2-Dichlorobenzene	ug/kg	ND	ND		
1,2-Dichloroethane	ug/kg	ND	ND		
1,2-Dichloropropane	ug/kg	ND	ND		
1,3,5-Trimethylbenzene	ug/kg	ND	ND		
1,3-Dichlorobenzene	ug/kg	ND	ND		
1,3-Dichloropropane	ug/kg	ND	ND		
1,4-Dichlorobenzene	ug/kg	ND	ND		
2,2-Dichloropropane	ug/kg	ND	ND		

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QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

SAMPLE DUPLICATE: 1112265

Parameter	Units	92184006024 Result	Dup Result	RPD	Qualifiers
2-Butanone (MEK)	ug/kg	ND	ND		
2-Chlorotoluene	ug/kg	ND	ND		
2-Hexanone	ug/kg	ND	ND		
4-Chlorotoluene	ug/kg	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND		
Acetone	ug/kg	228	96.2	81	A+,R1
Benzene	ug/kg	ND	ND		
Bromobenzene	ug/kg	ND	ND		
Bromochloromethane	ug/kg	ND	ND		
Bromodichloromethane	ug/kg	ND	ND		
Bromoform	ug/kg	ND	ND		
Bromomethane	ug/kg	ND	ND		
Carbon tetrachloride	ug/kg	ND	ND		
Chlorobenzene	ug/kg	ND	ND		
Chloroethane	ug/kg	ND	ND		
Chloroform	ug/kg	ND	ND		
Chloromethane	ug/kg	ND	ND		
cis-1,2-Dichloroethene	ug/kg	ND	ND		
cis-1,3-Dichloropropene	ug/kg	ND	ND		
Dibromochloromethane	ug/kg	ND	ND		
Dibromomethane	ug/kg	ND	ND		
Dichlorodifluoromethane	ug/kg	ND	ND		
Diisopropyl ether	ug/kg	ND	ND		
Ethylbenzene	ug/kg	ND	ND		
Hexachloro-1,3-butadiene	ug/kg	ND	ND		
Isopropylbenzene (Cumene)	ug/kg	ND	ND		
m&p-Xylene	ug/kg	ND	ND		
Methyl-tert-butyl ether	ug/kg	ND	ND		
Methylene Chloride	ug/kg	ND	ND		
n-Butylbenzene	ug/kg	ND	ND		
n-Propylbenzene	ug/kg	ND	ND		
Naphthalene	ug/kg	ND	ND		
o-Xylene	ug/kg	ND	ND		
p-Isopropyltoluene	ug/kg	ND	ND		
sec-Butylbenzene	ug/kg	ND	ND		
Styrene	ug/kg	ND	ND		
tert-Butylbenzene	ug/kg	ND	ND		
Tetrachloroethene	ug/kg	ND	ND		
Toluene	ug/kg	ND	ND		
trans-1,2-Dichloroethene	ug/kg	ND	ND		
trans-1,3-Dichloropropene	ug/kg	ND	ND		
Trichloroethene	ug/kg	ND	ND		
Trichlorofluoromethane	ug/kg	ND	ND		
Vinyl acetate	ug/kg	ND	ND		
Vinyl chloride	ug/kg	ND	ND		
Xylene (Total)	ug/kg	ND	ND		
1,2-Dichloroethane-d4 (S)	%	110	106	16	
4-Bromofluorobenzene (S)	%	87	92	8	

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QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1
Pace Project No.: 92184006

SAMPLE DUPLICATE: 1112265

Parameter	Units	92184006024 Result	Dup Result	RPD	Qualifiers
Toluene-d8 (S)	%	98	96	14	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

QC Batch: MSV/25355 Analysis Method: EPA 8260
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
 Associated Lab Samples: 92184006023

METHOD BLANK: 1112341 Matrix: Solid
 Associated Lab Samples: 92184006023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.6	12/24/13 11:24	
1,1,1-Trichloroethane	ug/kg	ND	5.6	12/24/13 11:24	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.6	12/24/13 11:24	
1,1,2-Trichloroethane	ug/kg	ND	5.6	12/24/13 11:24	
1,1-Dichloroethane	ug/kg	ND	5.6	12/24/13 11:24	
1,1-Dichloroethene	ug/kg	ND	5.6	12/24/13 11:24	
1,1-Dichloropropene	ug/kg	ND	5.6	12/24/13 11:24	
1,2,3-Trichlorobenzene	ug/kg	ND	5.6	12/24/13 11:24	
1,2,3-Trichloropropane	ug/kg	ND	5.6	12/24/13 11:24	
1,2,4-Trichlorobenzene	ug/kg	ND	5.6	12/24/13 11:24	
1,2,4-Trimethylbenzene	ug/kg	ND	5.6	12/24/13 11:24	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.6	12/24/13 11:24	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.6	12/24/13 11:24	
1,2-Dichlorobenzene	ug/kg	ND	5.6	12/24/13 11:24	
1,2-Dichloroethane	ug/kg	ND	5.6	12/24/13 11:24	
1,2-Dichloropropane	ug/kg	ND	5.6	12/24/13 11:24	
1,3,5-Trimethylbenzene	ug/kg	ND	5.6	12/24/13 11:24	
1,3-Dichlorobenzene	ug/kg	ND	5.6	12/24/13 11:24	
1,3-Dichloropropane	ug/kg	ND	5.6	12/24/13 11:24	
1,4-Dichlorobenzene	ug/kg	ND	5.6	12/24/13 11:24	
2,2-Dichloropropane	ug/kg	ND	5.6	12/24/13 11:24	
2-Butanone (MEK)	ug/kg	ND	112	12/24/13 11:24	
2-Chlorotoluene	ug/kg	ND	5.6	12/24/13 11:24	
2-Hexanone	ug/kg	ND	56.2	12/24/13 11:24	
4-Chlorotoluene	ug/kg	ND	5.6	12/24/13 11:24	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	56.2	12/24/13 11:24	
Acetone	ug/kg	ND	112	12/24/13 11:24	
Benzene	ug/kg	ND	5.6	12/24/13 11:24	
Bromobenzene	ug/kg	ND	5.6	12/24/13 11:24	
Bromochloromethane	ug/kg	ND	5.6	12/24/13 11:24	
Bromodichloromethane	ug/kg	ND	5.6	12/24/13 11:24	
Bromoform	ug/kg	ND	5.6	12/24/13 11:24	
Bromomethane	ug/kg	ND	11.2	12/24/13 11:24	
Carbon tetrachloride	ug/kg	ND	5.6	12/24/13 11:24	
Chlorobenzene	ug/kg	ND	5.6	12/24/13 11:24	
Chloroethane	ug/kg	ND	11.2	12/24/13 11:24	
Chloroform	ug/kg	ND	5.6	12/24/13 11:24	
Chloromethane	ug/kg	ND	11.2	12/24/13 11:24	
cis-1,2-Dichloroethene	ug/kg	ND	5.6	12/24/13 11:24	
cis-1,3-Dichloropropene	ug/kg	ND	5.6	12/24/13 11:24	
Dibromochloromethane	ug/kg	ND	5.6	12/24/13 11:24	
Dibromomethane	ug/kg	ND	5.6	12/24/13 11:24	
Dichlorodifluoromethane	ug/kg	ND	11.2	12/24/13 11:24	

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QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

METHOD BLANK: 1112341

Matrix: Solid

Associated Lab Samples: 92184006023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/kg	ND	5.6	12/24/13 11:24	
Ethylbenzene	ug/kg	ND	5.6	12/24/13 11:24	
Hexachloro-1,3-butadiene	ug/kg	ND	5.6	12/24/13 11:24	
Isopropylbenzene (Cumene)	ug/kg	ND	5.6	12/24/13 11:24	
m&p-Xylene	ug/kg	ND	11.2	12/24/13 11:24	
Methyl-tert-butyl ether	ug/kg	ND	5.6	12/24/13 11:24	
Methylene Chloride	ug/kg	ND	22.5	12/24/13 11:24	
n-Butylbenzene	ug/kg	ND	5.6	12/24/13 11:24	
n-Propylbenzene	ug/kg	ND	5.6	12/24/13 11:24	
Naphthalene	ug/kg	ND	5.6	12/24/13 11:24	
o-Xylene	ug/kg	ND	5.6	12/24/13 11:24	
p-Isopropyltoluene	ug/kg	ND	5.6	12/24/13 11:24	
sec-Butylbenzene	ug/kg	ND	5.6	12/24/13 11:24	
Styrene	ug/kg	ND	5.6	12/24/13 11:24	
tert-Butylbenzene	ug/kg	ND	5.6	12/24/13 11:24	
Tetrachloroethene	ug/kg	ND	5.6	12/24/13 11:24	
Toluene	ug/kg	ND	5.6	12/24/13 11:24	
trans-1,2-Dichloroethene	ug/kg	ND	5.6	12/24/13 11:24	
trans-1,3-Dichloropropene	ug/kg	ND	5.6	12/24/13 11:24	
Trichloroethene	ug/kg	ND	5.6	12/24/13 11:24	
Trichlorofluoromethane	ug/kg	ND	5.6	12/24/13 11:24	
Vinyl acetate	ug/kg	ND	56.2	12/24/13 11:24	
Vinyl chloride	ug/kg	ND	11.2	12/24/13 11:24	
Xylene (Total)	ug/kg	ND	11.2	12/24/13 11:24	
1,2-Dichloroethane-d4 (S)	%	110	70-132	12/24/13 11:24	
4-Bromofluorobenzene (S)	%	100	70-130	12/24/13 11:24	
Toluene-d8 (S)	%	99	70-130	12/24/13 11:24	

LABORATORY CONTROL SAMPLE: 1112342

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	51.7	55.1	107	70-131	
1,1,1-Trichloroethane	ug/kg	51.7	56.6	110	70-141	
1,1,2,2-Tetrachloroethane	ug/kg	51.7	62.7	121	70-130	
1,1,2-Trichloroethane	ug/kg	51.7	56.0	108	70-132	
1,1-Dichloroethane	ug/kg	51.7	59.7	116	70-143	
1,1-Dichloroethene	ug/kg	51.7	58.2	113	70-137	
1,1-Dichloropropene	ug/kg	51.7	61.4	119	70-135	
1,2,3-Trichlorobenzene	ug/kg	51.7	53.5	104	69-153	
1,2,3-Trichloropropane	ug/kg	51.7	63.4	123	70-130	
1,2,4-Trichlorobenzene	ug/kg	51.7	51.3	99	55-171	
1,2,4-Trimethylbenzene	ug/kg	51.7	54.7	106	70-149	
1,2-Dibromo-3-chloropropane	ug/kg	51.7	55.8	108	68-141	
1,2-Dibromoethane (EDB)	ug/kg	51.7	61.3	119	70-130	
1,2-Dichlorobenzene	ug/kg	51.7	50.5	98	70-140	

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QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

LABORATORY CONTROL SAMPLE: 1112342

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/kg	51.7	61.2	118	70-137	
1,2-Dichloropropane	ug/kg	51.7	54.8	106	70-133	
1,3,5-Trimethylbenzene	ug/kg	51.7	53.7	104	70-143	
1,3-Dichlorobenzene	ug/kg	51.7	49.4	96	70-144	
1,3-Dichloropropane	ug/kg	51.7	63.6	123	70-132	
1,4-Dichlorobenzene	ug/kg	51.7	50.6	98	70-142	
2,2-Dichloropropane	ug/kg	51.7	57.7	112	68-152	
2-Butanone (MEK)	ug/kg	103	131	127	70-149	
2-Chlorotoluene	ug/kg	51.7	49.8	96	70-141	
2-Hexanone	ug/kg	103	123	119	70-149	
4-Chlorotoluene	ug/kg	51.7	54.3	105	70-149	
4-Methyl-2-pentanone (MIBK)	ug/kg	103	113	109	70-153	
Acetone	ug/kg	103	119	115	70-157	
Benzene	ug/kg	51.7	55.1	107	70-130	
Bromobenzene	ug/kg	51.7	55.3	107	70-141	
Bromochloromethane	ug/kg	51.7	52.4	101	70-149	
Bromodichloromethane	ug/kg	51.7	52.8	102	70-130	
Bromoform	ug/kg	51.7	53.1	103	70-131	
Bromomethane	ug/kg	51.7	55.4	107	64-136	
Carbon tetrachloride	ug/kg	51.7	49.0	95	70-154	
Chlorobenzene	ug/kg	51.7	55.4	107	70-135	
Chloroethane	ug/kg	51.7	57.6	112	68-151	
Chloroform	ug/kg	51.7	57.3	111	70-130	
Chloromethane	ug/kg	51.7	61.1	118	70-132	
cis-1,2-Dichloroethene	ug/kg	51.7	58.7	114	70-140	
cis-1,3-Dichloropropene	ug/kg	51.7	54.0	105	70-137	
Dibromochloromethane	ug/kg	51.7	57.1	111	70-130	
Dibromomethane	ug/kg	51.7	54.4	105	70-136	
Dichlorodifluoromethane	ug/kg	51.7	43.3	84	36-148	
Diisopropyl ether	ug/kg	51.7	59.0	114	70-139	
Ethylbenzene	ug/kg	51.7	54.1	105	70-137	
Hexachloro-1,3-butadiene	ug/kg	51.7	51.4	99	70-145	
Isopropylbenzene (Cumene)	ug/kg	51.7	56.5	109	70-141	
m&p-Xylene	ug/kg	103	110	106	70-140	
Methyl-tert-butyl ether	ug/kg	51.7	63.9	124	45-150	
Methylene Chloride	ug/kg	51.7	53.7	104	70-133	
n-Butylbenzene	ug/kg	51.7	54.7	106	65-155	
n-Propylbenzene	ug/kg	51.7	54.3	105	70-148	
Naphthalene	ug/kg	51.7	55.5	107	70-148	
o-Xylene	ug/kg	51.7	54.6	106	70-141	
p-Isopropyltoluene	ug/kg	51.7	51.0	99	70-148	
sec-Butylbenzene	ug/kg	51.7	54.5	106	70-145	
Styrene	ug/kg	51.7	55.3	107	70-138	
tert-Butylbenzene	ug/kg	51.7	50.9	99	70-143	
Tetrachloroethene	ug/kg	51.7	52.2	101	70-140	
Toluene	ug/kg	51.7	49.2	95	70-130	
trans-1,2-Dichloroethene	ug/kg	51.7	59.0	114	70-136	
trans-1,3-Dichloropropene	ug/kg	51.7	55.8	108	70-138	

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QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

LABORATORY CONTROL SAMPLE: 1112342

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichloroethene	ug/kg	51.7	49.2	95	70-132	
Trichlorofluoromethane	ug/kg	51.7	60.9	118	69-134	
Vinyl acetate	ug/kg	103	140	135	24-161	
Vinyl chloride	ug/kg	51.7	54.5	105	55-140	
Xylene (Total)	ug/kg	155	164	106	70-141	
1,2-Dichloroethane-d4 (S)	%			120	70-132	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE SAMPLE: 1112885

Parameter	Units	92184377003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/kg		ND 31.7	35.8	113	49-180	
Benzene	ug/kg		ND 31.7	33.4	106	50-166	
Chlorobenzene	ug/kg		ND 31.7	30.2	95	43-169	
Toluene	ug/kg		ND 31.7	27.6	87	52-163	
Trichloroethene	ug/kg		ND 31.7	28.7	91	49-167	
1,2-Dichloroethane-d4 (S)	%				118	70-132	
4-Bromofluorobenzene (S)	%				86	70-130	
Toluene-d8 (S)	%				93	70-130	

SAMPLE DUPLICATE: 1112884

Parameter	Units	92184127002 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,1-Trichloroethane	ug/kg	ND	ND		
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,2-Trichloroethane	ug/kg	ND	ND		
1,1-Dichloroethane	ug/kg	ND	ND		
1,1-Dichloroethene	ug/kg	ND	ND		
1,1-Dichloropropene	ug/kg	ND	ND		
1,2,3-Trichlorobenzene	ug/kg	ND	ND		
1,2,3-Trichloropropane	ug/kg	ND	ND		
1,2,4-Trichlorobenzene	ug/kg	ND	ND		
1,2,4-Trimethylbenzene	ug/kg	ND	ND		
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		
1,2-Dichlorobenzene	ug/kg	ND	ND		
1,2-Dichloroethane	ug/kg	ND	ND		
1,2-Dichloropropane	ug/kg	ND	ND		
1,3,5-Trimethylbenzene	ug/kg	ND	ND		
1,3-Dichlorobenzene	ug/kg	ND	ND		
1,3-Dichloropropane	ug/kg	ND	ND		
1,4-Dichlorobenzene	ug/kg	ND	ND		
2,2-Dichloropropane	ug/kg	ND	ND		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

SAMPLE DUPLICATE: 1112884

Parameter	Units	92184127002 Result	Dup Result	RPD	Qualifiers
2-Butanone (MEK)	ug/kg	ND	ND		
2-Chlorotoluene	ug/kg	ND	ND		
2-Hexanone	ug/kg	ND	ND		
4-Chlorotoluene	ug/kg	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND		
Acetone	ug/kg	218	170	25	A+
Benzene	ug/kg	ND	ND		
Bromobenzene	ug/kg	ND	ND		
Bromochloromethane	ug/kg	ND	ND		
Bromodichloromethane	ug/kg	ND	ND		
Bromoform	ug/kg	ND	ND		
Bromomethane	ug/kg	ND	ND		
Carbon tetrachloride	ug/kg	ND	ND		
Chlorobenzene	ug/kg	ND	ND		
Chloroethane	ug/kg	ND	ND		
Chloroform	ug/kg	ND	ND		
Chloromethane	ug/kg	ND	ND		
cis-1,2-Dichloroethene	ug/kg	ND	ND		
cis-1,3-Dichloropropene	ug/kg	ND	ND		
Dibromochloromethane	ug/kg	ND	ND		
Dibromomethane	ug/kg	ND	ND		
Dichlorodifluoromethane	ug/kg	ND	ND		IO
Diisopropyl ether	ug/kg	ND	ND		
Ethylbenzene	ug/kg	ND	ND		
Hexachloro-1,3-butadiene	ug/kg	ND	ND		
Isopropylbenzene (Cumene)	ug/kg	ND	ND		
m&p-Xylene	ug/kg	ND	ND		
Methyl-tert-butyl ether	ug/kg	ND	ND		
Methylene Chloride	ug/kg	ND	ND		
n-Butylbenzene	ug/kg	ND	ND		
n-Propylbenzene	ug/kg	ND	ND		
Naphthalene	ug/kg	ND	ND		
o-Xylene	ug/kg	ND	ND		
p-Isopropyltoluene	ug/kg	ND	ND		
sec-Butylbenzene	ug/kg	ND	ND		
Styrene	ug/kg	ND	ND		
tert-Butylbenzene	ug/kg	ND	ND		
Tetrachloroethene	ug/kg	ND	ND		
Toluene	ug/kg	ND	ND		
trans-1,2-Dichloroethene	ug/kg	ND	ND		
trans-1,3-Dichloropropene	ug/kg	ND	ND		
Trichloroethene	ug/kg	ND	ND		
Trichlorofluoromethane	ug/kg	ND	ND		
Vinyl acetate	ug/kg	ND	ND		
Vinyl chloride	ug/kg	ND	ND		
Xylene (Total)	ug/kg	ND	ND		
1,2-Dichloroethane-d4 (S)	%	118	143	21	S2
4-Bromofluorobenzene (S)	%	92	83	8	

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QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1
Pace Project No.: 92184006

SAMPLE DUPLICATE: 1112884

Parameter	Units	92184127002 Result	Dup Result	RPD	Qualifiers
Toluene-d8 (S)	%	96	92	2	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1
 Pace Project No.: 92184006

QC Batch: OEXT/25264 Analysis Method: EPA 8015 Modified
 QC Batch Method: EPA 3546 Analysis Description: 8015 Solid GCSV
 Associated Lab Samples: 92184006001, 92184006002, 92184006003, 92184006004, 92184006005, 92184006006, 92184006007, 92184006008, 92184006009, 92184006013, 92184006014, 92184006015, 92184006016

METHOD BLANK: 1109337 Matrix: Solid
 Associated Lab Samples: 92184006001, 92184006002, 92184006003, 92184006004, 92184006005, 92184006006, 92184006007, 92184006008, 92184006009, 92184006013, 92184006014, 92184006015, 92184006016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Components	mg/kg	ND	5.0	12/20/13 23:31	
n-Pentacosane (S)	%	75	41-119	12/20/13 23:31	

LABORATORY CONTROL SAMPLE: 1109338

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Components	mg/kg	66.7	51.1	77	49-113	
n-Pentacosane (S)	%			89	41-119	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1109339 1109340

Parameter	Units	92184006001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Diesel Components	mg/kg	24.2	82.3	82.3	52.6	47.9	35	29	10-146	9	
n-Pentacosane (S)	%						68	60	41-119		

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QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

QC Batch: OEXT/25257 Analysis Method: EPA 8270
 QC Batch Method: EPA 3546 Analysis Description: 8270 Solid MSSV Microwave
 Associated Lab Samples: 92184006010, 92184006011, 92184006012, 92184006017, 92184006018, 92184006019, 92184006020,
 92184006021, 92184006022, 92184006023, 92184006024

METHOD BLANK: 1109029 Matrix: Solid
 Associated Lab Samples: 92184006010, 92184006011, 92184006012, 92184006017, 92184006018, 92184006019, 92184006020,
 92184006021, 92184006022, 92184006023, 92184006024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	ND	330	12/20/13 14:41	
1,2-Dichlorobenzene	ug/kg	ND	330	12/20/13 14:41	
1,3-Dichlorobenzene	ug/kg	ND	330	12/20/13 14:41	
1,4-Dichlorobenzene	ug/kg	ND	330	12/20/13 14:41	
1-Methylnaphthalene	ug/kg	ND	330	12/20/13 14:41	
2,4,5-Trichlorophenol	ug/kg	ND	330	12/20/13 14:41	
2,4,6-Trichlorophenol	ug/kg	ND	330	12/20/13 14:41	
2,4-Dichlorophenol	ug/kg	ND	330	12/20/13 14:41	
2,4-Dimethylphenol	ug/kg	ND	330	12/20/13 14:41	
2,4-Dinitrophenol	ug/kg	ND	1650	12/20/13 14:41	
2,4-Dinitrotoluene	ug/kg	ND	330	12/20/13 14:41	
2,6-Dinitrotoluene	ug/kg	ND	330	12/20/13 14:41	
2-Chloronaphthalene	ug/kg	ND	330	12/20/13 14:41	
2-Chlorophenol	ug/kg	ND	330	12/20/13 14:41	
2-Methylnaphthalene	ug/kg	ND	330	12/20/13 14:41	
2-Methylphenol(o-Cresol)	ug/kg	ND	330	12/20/13 14:41	
2-Nitroaniline	ug/kg	ND	1650	12/20/13 14:41	
2-Nitrophenol	ug/kg	ND	330	12/20/13 14:41	
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	330	12/20/13 14:41	
3,3'-Dichlorobenzidine	ug/kg	ND	1650	12/20/13 14:41	
3-Nitroaniline	ug/kg	ND	1650	12/20/13 14:41	
4,6-Dinitro-2-methylphenol	ug/kg	ND	660	12/20/13 14:41	
4-Bromophenylphenyl ether	ug/kg	ND	330	12/20/13 14:41	
4-Chloro-3-methylphenol	ug/kg	ND	660	12/20/13 14:41	
4-Chloroaniline	ug/kg	ND	1650	12/20/13 14:41	
4-Chlorophenylphenyl ether	ug/kg	ND	330	12/20/13 14:41	
4-Nitroaniline	ug/kg	ND	660	12/20/13 14:41	
4-Nitrophenol	ug/kg	ND	1650	12/20/13 14:41	
Acenaphthene	ug/kg	ND	330	12/20/13 14:41	
Acenaphthylene	ug/kg	ND	330	12/20/13 14:41	
Aniline	ug/kg	ND	330	12/20/13 14:41	
Anthracene	ug/kg	ND	330	12/20/13 14:41	
Benzo(a)anthracene	ug/kg	ND	330	12/20/13 14:41	
Benzo(a)pyrene	ug/kg	ND	330	12/20/13 14:41	
Benzo(b)fluoranthene	ug/kg	ND	330	12/20/13 14:41	
Benzo(g,h,i)perylene	ug/kg	ND	330	12/20/13 14:41	
Benzo(k)fluoranthene	ug/kg	ND	330	12/20/13 14:41	
Benzoic Acid	ug/kg	ND	1650	12/20/13 14:41	
Benzyl alcohol	ug/kg	ND	660	12/20/13 14:41	
bis(2-Chloroethoxy)methane	ug/kg	ND	330	12/20/13 14:41	
bis(2-Chloroethyl) ether	ug/kg	ND	330	12/20/13 14:41	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

METHOD BLANK: 1109029

Matrix: Solid

Associated Lab Samples: 92184006010, 92184006011, 92184006012, 92184006017, 92184006018, 92184006019, 92184006020, 92184006021, 92184006022, 92184006023, 92184006024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
bis(2-Chloroisopropyl) ether	ug/kg	ND	330	12/20/13 14:41	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	330	12/20/13 14:41	
Butylbenzylphthalate	ug/kg	ND	330	12/20/13 14:41	
Chrysene	ug/kg	ND	330	12/20/13 14:41	
Di-n-butylphthalate	ug/kg	ND	330	12/20/13 14:41	
Di-n-octylphthalate	ug/kg	ND	330	12/20/13 14:41	
Dibenz(a,h)anthracene	ug/kg	ND	330	12/20/13 14:41	
Dibenzofuran	ug/kg	ND	330	12/20/13 14:41	
Diethylphthalate	ug/kg	ND	330	12/20/13 14:41	
Dimethylphthalate	ug/kg	ND	330	12/20/13 14:41	
Fluoranthene	ug/kg	ND	330	12/20/13 14:41	
Fluorene	ug/kg	ND	330	12/20/13 14:41	
Hexachloro-1,3-butadiene	ug/kg	ND	330	12/20/13 14:41	
Hexachlorobenzene	ug/kg	ND	330	12/20/13 14:41	
Hexachlorocyclopentadiene	ug/kg	ND	330	12/20/13 14:41	
Hexachloroethane	ug/kg	ND	330	12/20/13 14:41	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	330	12/20/13 14:41	
Isophorone	ug/kg	ND	330	12/20/13 14:41	
N-Nitroso-di-n-propylamine	ug/kg	ND	330	12/20/13 14:41	
N-Nitrosodimethylamine	ug/kg	ND	330	12/20/13 14:41	
N-Nitrosodiphenylamine	ug/kg	ND	330	12/20/13 14:41	
Naphthalene	ug/kg	ND	330	12/20/13 14:41	
Nitrobenzene	ug/kg	ND	330	12/20/13 14:41	
Pentachlorophenol	ug/kg	ND	1650	12/20/13 14:41	
Phenanthrene	ug/kg	ND	330	12/20/13 14:41	
Phenol	ug/kg	ND	330	12/20/13 14:41	
Pyrene	ug/kg	ND	330	12/20/13 14:41	
2,4,6-Tribromophenol (S)	%	39	27-110	12/20/13 14:41	
2-Fluorobiphenyl (S)	%	43	30-110	12/20/13 14:41	
2-Fluorophenol (S)	%	46	13-110	12/20/13 14:41	
Nitrobenzene-d5 (S)	%	41	23-110	12/20/13 14:41	
Phenol-d6 (S)	%	48	22-110	12/20/13 14:41	
Terphenyl-d14 (S)	%	68	28-110	12/20/13 14:41	

LABORATORY CONTROL SAMPLE: 1109030

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	1670	682	41	39-101	
1,2-Dichlorobenzene	ug/kg	1670	720	43	36-110	
1,3-Dichlorobenzene	ug/kg	1670	684	41	35-110	
1,4-Dichlorobenzene	ug/kg	1670	711	43	35-110	
1-Methylnaphthalene	ug/kg	1670	797	48	45-105	
2,4,5-Trichlorophenol	ug/kg	1670	937	56	48-109	
2,4,6-Trichlorophenol	ug/kg	1670	782	47	45-111	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

LABORATORY CONTROL SAMPLE: 1109030

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-Dichlorophenol	ug/kg	1670	744	45	51-116	L2
2,4-Dimethylphenol	ug/kg	1670	819	49	42-103	
2,4-Dinitrophenol	ug/kg	8330	4990	60	28-103	
2,4-Dinitrotoluene	ug/kg	1670	1200	72	46-114	
2,6-Dinitrotoluene	ug/kg	1670	1070	64	48-112	
2-Chloronaphthalene	ug/kg	1670	699	42	44-105	L2
2-Chlorophenol	ug/kg	1670	812	49	36-110	
2-Methylnaphthalene	ug/kg	1670	834	50	39-112	
2-Methylphenol(o-Cresol)	ug/kg	1670	842	51	39-101	
2-Nitroaniline	ug/kg	3330	2140	64	44-111	
2-Nitrophenol	ug/kg	1670	732	44	41-100	
3&4-Methylphenol(m&p Cresol)	ug/kg	1670	856	51	43-103	
3,3'-Dichlorobenzidine	ug/kg	3330	2090	63	10-150	
3-Nitroaniline	ug/kg	3330	2240	67	35-110	
4,6-Dinitro-2-methylphenol	ug/kg	3330	2080	62	38-118	
4-Bromophenylphenyl ether	ug/kg	1670	972	58	47-115	
4-Chloro-3-methylphenol	ug/kg	3330	1750	53	43-127	
4-Chloroaniline	ug/kg	3330	1690	51	34-109	
4-Chlorophenylphenyl ether	ug/kg	1670	936	56	44-115	
4-Nitroaniline	ug/kg	3330	2430	73	37-111	
4-Nitrophenol	ug/kg	8330	5780	69	21-152	
Acenaphthene	ug/kg	1670	829	50	38-117	
Acenaphthylene	ug/kg	1670	836	50	46-107	
Aniline	ug/kg	1670	775	47	29-110	
Anthracene	ug/kg	1670	1100	66	50-110	
Benzo(a)anthracene	ug/kg	1670	1100	66	47-116	
Benzo(a)pyrene	ug/kg	1670	1180	71	47-106	
Benzo(b)fluoranthene	ug/kg	1670	1090	65	47-109	
Benzo(g,h,i)perylene	ug/kg	1670	1120	67	39-115	
Benzo(k)fluoranthene	ug/kg	1670	1080	65	45-117	
Benzoic Acid	ug/kg	8330	3130	38	16-110	
Benzyl alcohol	ug/kg	3330	1440	43	38-105	
bis(2-Chloroethoxy)methane	ug/kg	1670	778	47	39-110	
bis(2-Chloroethyl) ether	ug/kg	1670	817	49	19-119	
bis(2-Chloroisopropyl) ether	ug/kg	1670	792	48	21-110	
bis(2-Ethylhexyl)phthalate	ug/kg	1670	1010	61	35-116	
Butylbenzylphthalate	ug/kg	1670	1030	62	38-110	
Chrysene	ug/kg	1670	1150	69	49-110	
Di-n-butylphthalate	ug/kg	1670	1030	62	43-109	
Di-n-octylphthalate	ug/kg	1670	1040	62	37-109	
Dibenz(a,h)anthracene	ug/kg	1670	1170	70	43-116	
Dibenzofuran	ug/kg	1670	793	48	45-106	
Diethylphthalate	ug/kg	1670	1000	60	41-114	
Dimethylphthalate	ug/kg	1670	958	57	43-110	
Fluoranthene	ug/kg	1670	1170	70	50-114	
Fluorene	ug/kg	1670	943	57	46-114	
Hexachloro-1,3-butadiene	ug/kg	1670	681	41	28-111	
Hexachlorobenzene	ug/kg	1670	928	56	46-120	

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QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

LABORATORY CONTROL SAMPLE: 1109030

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Hexachlorocyclopentadiene	ug/kg	1670	746	45	18-119	
Hexachloroethane	ug/kg	1670	690	41	33-110	
Indeno(1,2,3-cd)pyrene	ug/kg	1670	1190	72	42-115	
Isophorone	ug/kg	1670	872	52	44-109	
N-Nitroso-di-n-propylamine	ug/kg	1670	738	44	43-104	
N-Nitrosodimethylamine	ug/kg	1670	695	42	29-110	
N-Nitrosodiphenylamine	ug/kg	1670	880	53	48-113	
Naphthalene	ug/kg	1670	799	48	41-110	
Nitrobenzene	ug/kg	1670	821	49	38-110	
Pentachlorophenol	ug/kg	3330	1920	58	32-128	
Phenanthrene	ug/kg	1670	1070	64	50-110	
Phenol	ug/kg	1670	840	50	28-106	
Pyrene	ug/kg	1670	1080	65	45-114	
2,4,6-Tribromophenol (S)	%			68	27-110	
2-Fluorobiphenyl (S)	%			48	30-110	
2-Fluorophenol (S)	%			49	13-110	
Nitrobenzene-d5 (S)	%			46	23-110	
Phenol-d6 (S)	%			51	22-110	
Terphenyl-d14 (S)	%			64	28-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1109031 1109032

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		92183618003 Result	Spike Conc.	Spike Conc.	MS Result					
1,2,4-Trichlorobenzene	ug/kg	ND	2240	2240	994	955	44	43	18-119	4
1,2-Dichlorobenzene	ug/kg	ND	2240	2240	1100	1070	49	48	50-110	3 M1
1,3-Dichlorobenzene	ug/kg	ND	2240	2240	1030	1040	46	47	27-110	1
1,4-Dichlorobenzene	ug/kg	ND	2240	2240	1060	1080	47	48	28-110	2
1-Methylnaphthalene	ug/kg	ND	2240	2240	1320	1100	59	49	24-116	18
2,4,5-Trichlorophenol	ug/kg	ND	2240	2240	1260	1000	56	45	28-110	23
2,4,6-Trichlorophenol	ug/kg	ND	2240	2240	1030	761	46	34	17-117	30
2,4-Dichlorophenol	ug/kg	ND	2240	2240	1110	810	49	36	21-128	31
2,4-Dimethylphenol	ug/kg	ND	2240	2240	874	560	39	25	10-120	44
2,4-Dinitrophenol	ug/kg	ND	11200	11200	6510	5570	58	50	10-107	16
2,4-Dinitrotoluene	ug/kg	ND	2240	2240	1580	1180	71	53	36-109	29
2,6-Dinitrotoluene	ug/kg	ND	2240	2240	1490	1170	67	52	32-110	24
2-Chloronaphthalene	ug/kg	ND	2240	2240	975	863	44	39	30-107	12
2-Chlorophenol	ug/kg	ND	2240	2240	1150	972	52	43	14-106	17
2-Methylnaphthalene	ug/kg	ND	2240	2240	1360	1160	61	52	10-135	16
2-Methylphenol(o-Cresol)	ug/kg	ND	2240	2240	1110	720	50	32	10-124	43 2g,R1
2-Nitroaniline	ug/kg	ND	4460	4460	3090	2770	69	62	26-116	11
2-Nitrophenol	ug/kg	ND	2240	2240	1170	1080	52	48	28-103	8
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	2240	2240	1200	769	54	34	10-109	44
3,3'-Dichlorobenzidine	ug/kg	ND	4460	4460	1730J	278J	39	6	10-150	M0
3-Nitroaniline	ug/kg	ND	4460	4460	3010	1660J	67	37	22-110	
4,6-Dinitro-2-methylphenol	ug/kg	ND	4460	4460	2650	2040	59	46	13-121	26

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QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1109031 1109032													
Parameter	Units	92183618003 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	Limits	RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
4-Bromophenylphenyl ether	ug/kg	ND	2240	2240	1220	929	55	42	31-109	27			
4-Chloro-3-methylphenol	ug/kg	ND	4460	4460	2620	1650	59	37	13-128	46			
4-Chloroaniline	ug/kg	ND	4460	4460	2460	1790J	55	40	18-102				
4-Chlorophenylphenyl ether	ug/kg	ND	2240	2240	1270	968	57	43	29-112	27			
4-Nitroaniline	ug/kg	ND	4460	4460	3170	1470	71	33	16-111	74			
4-Nitrophenol	ug/kg	ND	11200	11200	7020	6250	63	56	14-135	12			
Acenaphthene	ug/kg	ND	2240	2240	1170	978	53	44	26-114	18			
Acenaphthylene	ug/kg	ND	2240	2240	1230	1010	55	45	32-108	19			
Aniline	ug/kg	ND	2240	2240	618	467	28	21	10-107	28			
Anthracene	ug/kg	ND	2240	2240	1330	975	60	44	32-111	31			
Benzo(a)anthracene	ug/kg	ND	2240	2240	1290	870	58	39	25-117	39			
Benzo(a)pyrene	ug/kg	ND	2240	2240	1300	816	58	37	25-106	46			
Benzo(b)fluoranthene	ug/kg	ND	2240	2240	1210	774	54	35	24-110	44			
Benzo(g,h,i)perylene	ug/kg	ND	2240	2240	1140	792	51	35	19-112	36			
Benzo(k)fluoranthene	ug/kg	ND	2240	2240	1190	791	53	35	24-114	40			
Benzoic Acid	ug/kg	ND	11200	11200	1960J	2610	18	23	10-110				
Benzyl alcohol	ug/kg	ND	4460	4460	2690	2370	60	53	24-106	13			
bis(2-Chloroethoxy)methane	ug/kg	ND	2240	2240	1170	1040	53	47	13-119	12			
bis(2-Chloroethyl) ether	ug/kg	ND	2240	2240	1230	1210	55	54	10-134	2			
bis(2-Chloroisopropyl) ether	ug/kg	ND	2240	2240	1220	1130	55	51	10-113	7			
bis(2-Ethylhexyl)phthalate	ug/kg	ND	2240	2240	1210	756	51	30	10-125	46			
Butylbenzylphthalate	ug/kg	ND	2240	2240	1260	805	56	36	18-110	44			
Chrysene	ug/kg	ND	2240	2240	1330	912	60	41	30-110	37			
Di-n-butylphthalate	ug/kg	ND	2240	2240	1210	808	54	36	19-112	39			
Di-n-octylphthalate	ug/kg	ND	2240	2240	1280	793	57	35	17-105	47			
Dibenz(a,h)anthracene	ug/kg	ND	2240	2240	1240	814	55	36	23-111	41			
Dibenzofuran	ug/kg	ND	2240	2240	1090	877	49	39	35-103	22			
Diethylphthalate	ug/kg	ND	2240	2240	1250	900	56	40	27-113	32			
Dimethylphthalate	ug/kg	ND	2240	2240	1260	992	56	44	26-111	24			
Fluoranthene	ug/kg	ND	2240	2240	1390	974	62	44	33-109	35			
Fluorene	ug/kg	ND	2240	2240	1300	1010	58	45	32-113	26			
Hexachloro-1,3-butadiene	ug/kg	ND	2240	2240	915	919	41	41	16-116	0			
Hexachlorobenzene	ug/kg	ND	2240	2240	1090	872	49	39	27-120	22			
Hexachlorocyclopentadiene	ug/kg	ND	2240	2240	859	782	38	35	10-108	9			
Hexachloroethane	ug/kg	ND	2240	2240	1030	1010	46	45	10-117	2			
Indeno(1,2,3-cd)pyrene	ug/kg	ND	2240	2240	1250	817	56	37	10-122	41			
Isophorone	ug/kg	ND	2240	2240	1560	1300	70	58	28-114	18			
N-Nitroso-di-n-propylamine	ug/kg	ND	2240	2240	1400	1100	62	49	27-113	24			
N-Nitrosodimethylamine	ug/kg	ND	2240	2240	973	994	44	44	10-109	2			
N-Nitrosodiphenylamine	ug/kg	ND	2240	2240	961	611	43	27	10-128	45			
Naphthalene	ug/kg	ND	2240	2240	1170	1110	53	50	25-110	6			
Nitrobenzene	ug/kg	ND	2240	2240	1160	1170	52	52	18-114	1			
Pentachlorophenol	ug/kg	ND	4460	4460	2530	1730J	57	39	10-122				
Phenanthrene	ug/kg	ND	2240	2240	1320	996	59	45	30-114	28			
Phenol	ug/kg	ND	2240	2240	1050	805	47	36	11-102	26			
Pyrene	ug/kg	ND	2240	2240	1320	936	59	42	25-116	34			
2,4,6-Tribromophenol (S)	%						53	33	27-110				

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
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 Asheville, NC 28804
 (828)254-7176

Pace Analytical Services, Inc.
 9800 Kinsey Ave. Suite 100
 Huntersville, NC 28078
 (704)875-9092

QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1
 Pace Project No.: 92184006

Parameter	Units	1109031		1109032		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		92183618003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result					
2-Fluorobiphenyl (S)	%					47	41	30-110		
2-Fluorophenol (S)	%					44	37	13-110		
Nitrobenzene-d5 (S)	%					50	47	23-110		
Phenol-d6 (S)	%					51	38	22-110		
Terphenyl-d14 (S)	%					56	38	28-110		

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QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

QC Batch: PMST/6106 Analysis Method: ASTM D2974-87
 QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
 Associated Lab Samples: 92184006001, 92184006002, 92184006003, 92184006004, 92184006005, 92184006006, 92184006007,
 92184006008, 92184006009, 92184006010, 92184006011, 92184006012, 92184006013, 92184006014,
 92184006015, 92184006016, 92184006017, 92184006018

SAMPLE DUPLICATE: 1109483

Parameter	Units	92183839001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	14.9	14.8	1	

SAMPLE DUPLICATE: 1109484

Parameter	Units	92184006018 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	11.6	12.3	6	

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QUALITY CONTROL DATA

Project: NCDT01413 WBS33507.1.1
 Pace Project No.: 92184006

QC Batch: PMST/6109 Analysis Method: ASTM D2974-87
 QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
 Associated Lab Samples: 92184006019, 92184006020, 92184006021, 92184006022, 92184006023, 92184006024

SAMPLE DUPLICATE: 1110278

Parameter	Units	92184075013 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	14.3	16.2	12	

SAMPLE DUPLICATE: 1110279

Parameter	Units	92184006024 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	22.6	23.2	3	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

1g The internal standard response is below criteria. No hits associated with this internal standard. Results unaffected by high bias.

2g This flag applies to all compounds with RPD greater than 30%.

A+ The reaction of the soil preservative, sodium bisulfate, is known to react with humic acid in soils to produce ketones. Based upon method blank results, the laboratory feels the ketones in this sample are a result of that reaction.

IO The internal standard response was outside the laboratory acceptance limits confirmed by reanalysis. The results reported are from the most QC compliant analysis.

L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

R1 RPD value was outside control limits.

S0 Surrogate recovery outside laboratory control limits.

S2 Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92184006001	S-18-3	EPA 3546	OEXT/25264	EPA 8015 Modified	GCSV/16299
92184006002	S-18-2	EPA 3546	OEXT/25264	EPA 8015 Modified	GCSV/16299
92184006003	S-18-1	EPA 3546	OEXT/25264	EPA 8015 Modified	GCSV/16299
92184006004	S-19-1	EPA 3546	OEXT/25264	EPA 8015 Modified	GCSV/16299
92184006005	S-20-2	EPA 3546	OEXT/25264	EPA 8015 Modified	GCSV/16299
92184006006	S-20-1	EPA 3546	OEXT/25264	EPA 8015 Modified	GCSV/16299
92184006007	S-11-1	EPA 3546	OEXT/25264	EPA 8015 Modified	GCSV/16299
92184006008	S-11-2	EPA 3546	OEXT/25264	EPA 8015 Modified	GCSV/16299
92184006009	S-11-3	EPA 3546	OEXT/25264	EPA 8015 Modified	GCSV/16299
92184006013	S-12-1	EPA 3546	OEXT/25264	EPA 8015 Modified	GCSV/16299
92184006014	S-12-2	EPA 3546	OEXT/25264	EPA 8015 Modified	GCSV/16299
92184006015	S-12-4	EPA 3546	OEXT/25264	EPA 8015 Modified	GCSV/16299
92184006016	S-12-3	EPA 3546	OEXT/25264	EPA 8015 Modified	GCSV/16299
92184006001	S-18-3	EPA 5035A/5030B	GCV/7649	EPA 8015 Modified	GCV/7655
92184006002	S-18-2	EPA 5035A/5030B	GCV/7649	EPA 8015 Modified	GCV/7655
92184006003	S-18-1	EPA 5035A/5030B	GCV/7649	EPA 8015 Modified	GCV/7655
92184006004	S-19-1	EPA 5035A/5030B	GCV/7649	EPA 8015 Modified	GCV/7655
92184006005	S-20-2	EPA 5035A/5030B	GCV/7649	EPA 8015 Modified	GCV/7655
92184006006	S-20-1	EPA 5035A/5030B	GCV/7649	EPA 8015 Modified	GCV/7655
92184006007	S-11-1	EPA 5035A/5030B	GCV/7649	EPA 8015 Modified	GCV/7655
92184006008	S-11-2	EPA 5035A/5030B	GCV/7649	EPA 8015 Modified	GCV/7655
92184006009	S-11-3	EPA 5035A/5030B	GCV/7649	EPA 8015 Modified	GCV/7655
92184006013	S-12-1	EPA 5035A/5030B	GCV/7649	EPA 8015 Modified	GCV/7655
92184006014	S-12-2	EPA 5035A/5030B	GCV/7653	EPA 8015 Modified	GCV/7657
92184006015	S-12-4	EPA 5035A/5030B	GCV/7653	EPA 8015 Modified	GCV/7657
92184006016	S-12-3	EPA 5035A/5030B	GCV/7653	EPA 8015 Modified	GCV/7657
92184006010	S-13-1	EPA 3546	OEXT/25257	EPA 8270	MSSV/8587
92184006011	S-13-2	EPA 3546	OEXT/25257	EPA 8270	MSSV/8587
92184006012	S-15-1	EPA 3546	OEXT/25257	EPA 8270	MSSV/8587
92184006017	S-12-5	EPA 3546	OEXT/25257	EPA 8270	MSSV/8587
92184006018	S-12-6	EPA 3546	OEXT/25257	EPA 8270	MSSV/8587
92184006019	S-12-7	EPA 3546	OEXT/25257	EPA 8270	MSSV/8587
92184006020	S-12-8	EPA 3546	OEXT/25257	EPA 8270	MSSV/8587
92184006021	S-12-9	EPA 3546	OEXT/25257	EPA 8270	MSSV/8587
92184006022	S-8-1	EPA 3546	OEXT/25257	EPA 8270	MSSV/8587
92184006023	S-8-2	EPA 3546	OEXT/25257	EPA 8270	MSSV/8587
92184006024	S-8-5	EPA 3546	OEXT/25257	EPA 8270	MSSV/8587
92184006010	S-13-1	EPA 8260	MSV/25308		
92184006011	S-13-2	EPA 8260	MSV/25308		
92184006012	S-15-1	EPA 8260	MSV/25319		
92184006017	S-12-5	EPA 8260	MSV/25319		
92184006018	S-12-6	EPA 8260	MSV/25319		
92184006019	S-12-7	EPA 8260	MSV/25319		
92184006020	S-12-8	EPA 8260	MSV/25319		
92184006021	S-12-9	EPA 8260	MSV/25319		
92184006022	S-8-1	EPA 8260	MSV/25319		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: NCDT01413 WBS33507.1.1

Pace Project No.: 92184006

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92184006023	S-8-2	EPA 8260	MSV/25355		
92184006024	S-8-5	EPA 8260	MSV/25343		
92184006001	S-18-3	ASTM D2974-87	PMST/6106		
92184006002	S-18-2	ASTM D2974-87	PMST/6106		
92184006003	S-18-1	ASTM D2974-87	PMST/6106		
92184006004	S-19-1	ASTM D2974-87	PMST/6106		
92184006005	S-20-2	ASTM D2974-87	PMST/6106		
92184006006	S-20-1	ASTM D2974-87	PMST/6106		
92184006007	S-11-1	ASTM D2974-87	PMST/6106		
92184006008	S-11-2	ASTM D2974-87	PMST/6106		
92184006009	S-11-3	ASTM D2974-87	PMST/6106		
92184006010	S-13-1	ASTM D2974-87	PMST/6106		
92184006011	S-13-2	ASTM D2974-87	PMST/6106		
92184006012	S-15-1	ASTM D2974-87	PMST/6106		
92184006013	S-12-1	ASTM D2974-87	PMST/6106		
92184006014	S-12-2	ASTM D2974-87	PMST/6106		
92184006015	S-12-4	ASTM D2974-87	PMST/6106		
92184006016	S-12-3	ASTM D2974-87	PMST/6106		
92184006017	S-12-5	ASTM D2974-87	PMST/6106		
92184006018	S-12-6	ASTM D2974-87	PMST/6106		
92184006019	S-12-7	ASTM D2974-87	PMST/6109		
92184006020	S-12-8	ASTM D2974-87	PMST/6109		
92184006021	S-12-9	ASTM D2974-87	PMST/6109		
92184006022	S-8-1	ASTM D2974-87	PMST/6109		
92184006023	S-8-2	ASTM D2974-87	PMST/6109		
92184006024	S-8-5	ASTM D2974-87	PMST/6109		

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Sample Condition Upon Receipt (SCUR)

Document Number:
F-CHR-CS-03-rev.13

Issuing Authority:
Pace Huntersville Quality Office

Client Name: General Eng. Consultants

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Optional
Proj. Due Date:
Proj. Name:

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used: IR Gun T1102 T1301 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Temp Correction Factor T1102: No Correction T1301: No Correction

Corrected Cooler Temp.: 1.4 °C Biological Tissue is Frozen: Yes No N/A

Date and Initials of person examining contents: SD 12/14/13

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:		
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: Jackson Co.

SCURF Review: AMB Date: 12-19-13
SRF Review: AMB Date: 12-19-13

WO# : 92184006

92184006

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

