GEL Engineering of NC INC

an affiliate of **The GEL Group** INC

PRELIMINARY SITE ASSESSMENT REPORT

3000 Old Cullowhee Road (SR 1002)
WNC Ventures, Inc. Property, Parcel 018
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

3000 Old Cullowhee Road (SR 1002)
Arnold Ashe Property, Parcel 018
Cullowhee, North Carolina
State Project B-4159
WBS Element #33507.1.1
Jackson County

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Signature Page

This document, entitled *Preliminary Site Assessment Report*, has been prepared for the WNC Ventures, Inc. Property, located at 3000 Old Cullowhee Road (Parcel 018) 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.

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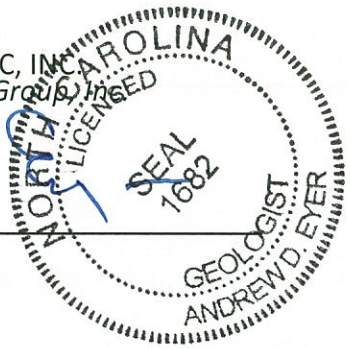

Andrew D. Eyer, L.G.
Senior Project Manager

04-23-14
Date

PRELIMINARY SITE ASSESSMENT REPORT

3000 Old Cullowhee Road (SR 1002)
WNC Ventures, Inc. Property, Parcel 018
Cullowhee, North Carolina
State Project B-4159
WBS Element #33507.1.1
Jackson County

Executive Summary

The subject site is the WNC Ventures, Inc. property (Parcel 018) located at 3000 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 adjacent to Parcel 018, as a result of previous and/or current operations at the subject site.

Parcel 018 contains Kabboord Properties, which is a split-level building that operates as an office, but was formerly Roadrunner Market, which dispensed petroleum products. There is currently no visible evidence of existing USTs or vents at the site, but representatives of the NCDENR Asheville District office indicated that there is an open UST Incident file (Incident No. 7280) for the site in its database. Four petroleum USTs were removed form the site in 1997 and petroleum impacted soil was excavated and removed. However, only a minimal amount of impacted soil required for the UST removals was excavated, and impacted soil is believed to remain in place at the site. No additional regulatory activities, assessments, or corrective action have been conducted since 1997, based on information provided by NCDENR's Asheville District Office. The Asheville District Office has not issued a No Further Action status for Incident No. 7280.

GEL Engineering of NC, Inc. (GEL) performed a preliminary site assessment within the existing and proposed NCDOT ROWs and easements that 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.

Soil samples were collected for analysis from three borings constructed within the preliminary site assessment investigation area. The soil samples were analyzed for DRO and GRO. GRO was not detected in any of the samples, but DRO levels exceeding the NCDENR action level of 10 milligrams per kilogram (mg/kg) were detected in all three soil samples.

Based on the detection of elevated DRO concentrations in the three soil samples, it is estimated that there is an approximate total volume of 1108 cubic yards of impacted soil (DRO >10 mg/kg) in the vicinity of borings S18-1, S18-2, and S18-3.

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 borings S18-1, S18-2, and S18-3 as part of planned construction activities by NCDOT be handled appropriately and further characterized for petroleum constituents, as needed.

PRELIMINARY SITE ASSESSMENT REPORT

3000 Old Cullowhee Road (SR 1002)
WNC Ventures, Inc. Property, Parcel 018
Cullowhee, North Carolina
State Project B-4159
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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 WNC Ventures, Inc. property (Parcel 018) located at 3000 Old Cullowhee Road (SR 1002) in Cullowhee, North Carolina.

Parcel 018 contains a split-level building that currently operates as an office for Kabboord Properties, as shown in Photograph 1 in Appendix I. 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 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 north side of Old Cullowhee Road fronting Parcel 018 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 018**.**

North Carolina Department of Environment and Natural Resources (NCDENR) Groundwater Incident No. 7280 was assigned to the site in the early 1990s under the NCDENR-managed Federal Trust Fund when the site operated as a Roadrunner Market. Files in NCDENR's Asheville District Office for Incident No. 7280 were reviewed by GEL. No information regarding the basis for assigning a UST Incident to the site could be found in the Incident No. 7280 files. Representatives of NCDENR's Federal Trust Fund office in Raleigh, North Carolina indicated that Incident No. 7280 was delisted by the Federal Trust Fund in 1995 when the new owner of the property, Mr. John Kabboord, agreed to remove existing USTs at the site and perform any required assessment, as required.

The Incident No. 7280 files reviewed at NCDENR's Asheville office included a UST closure report dated 1997. A copy of the report is included in Appendix II. The report indicates that four USTs ranging from 4,000 to 7,500 gallons in capacity were removed from the site in April 1997. Based on the UST closure report, all four USTs previously contained gasoline, but older documents in NCDENR's files indicate that two of the USTs may have contained kerosene instead of gasoline.

Three USTs were removed from the northeast side of the onsite building, and one UST was removed from the southeast side of the former dispenser islands. Petroleum-impacted soil was encountered during removal of the USTs, but excavation and removal of impacted soil was limited to a minimal volume required for removal of the USTs: an estimated 18 cubic yards. Therefore, impacted soil is assumed to have remained in place following the UST removals. The 1997 UST closure report also indicates that groundwater contamination had previously been identified at the site.

No documents for Incident No. 7280 dated after 1997 were available in NCDENR's files. Representatives of NCDENR's Asheville District Office indicated that no other regulatory activities, assessments, or corrective action have been conducted since the UST removals in 1997. Therefore, Incident No. 7280 remains open. The Asheville District Office has not issued a No Further Action status for the site. There was no visible evidence of USTs or associated vents observed during GEL's investigation of the site.

3.0 Local Geology and Surroundings

Parcel 018 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/brown sandy, silty clay.

Groundwater was not encountered in borings 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 018 most likely flows in a northerly 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 018, 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 018.
- Soil vapor screening of soil samples collected from subsurface soil borings located within the northerly ROW and proposed easements of Old

Cullowhee Road fronting Parcel 018 to evaluate the potential presence or absence of soil impact from petroleum constituents of concern.

- Collection and laboratory analysis of soil samples from the subsurface soil borings.

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 16, 2013, within the existing and proposed ROWs and easements fronting Parcel 018, 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 018 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.

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 three subsurface soil borings, S18-1, S18-2 and S18-3, at Parcel 018 on December 16, 2013, for analysis of total petroleum hydrocarbon indicator parameters. The soil borings were constructed within the northerly ROW and proposed easements of Old Cullowhee Road, as shown on Figure 4 and Photographs 1 and 2 in Appendix I. The northing and easting coordinates for the boring locations are listed in the table below.

Summary of Location Data and PID Measurements for Soil Samples Collected for Analysis at Parcel 018

Soil Boring	Depth Interval of Soil Sample Collected for Analysis (feet bgs)	PID Reading (ppm)	Northing	Easting
S18-1	7-8	0.0	596778.844	754439.705
S18-2	7-8	0.0	596751.039	754387.745
S18-3	7-8	0.0	596725.362	754359.359

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

All borings were advanced to a total depth of 8 feet bgs. Soil samples were collected at depths of 3-4 feet and 7-8 feet from each borehole. All 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 III 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 any of the soil screening samples collected from the two borings. Therefore, to assess the subsurface soil quality, soil samples collected at a depth of 7-8 feet bgs from borings S18-1, S18-2, and S18-3 were designated for analysis. One-half of each designated soil sample was submitted to each of two separate laboratories for analysis.

Following completion of the soil sampling activities, all borings were abandoned by filling the boreholes with soil cuttings and hydrated bentonite. Boring S18-3 was topped with asphalt patch material. Splits for each 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, and to Pace Analytical Services, Inc. (Pace) in Huntersville, North Carolina for analysis of diesel range organics (DRO) by EPA Method 8015 with EPA Method 3545 sample preparation, and gasoline range organics (GRO) by EPA Method 8015 with EPA Method 5035A/5030B sample preparation. The analytical results are included on the Certificates of Analysis provided in Appendix IV, and a summary of the analytical results is presented in Table 1. Both the QROS results and the Pace results indicate that no GRO was detected in any of the samples, but DRO concentrations reported for S18-1, S18-2, and S18-3 by KB Labs and Pace all exceeded the NCDENR action level for DRO (10 milligrams per kilogram (mg/kg)).

It is estimated that there is an approximate total volume of 1108 cubic yards of impacted soil (DRO >10 mg/kg) in the vicinity of boring borings S18-1, S18-2, and S18-3 based on the following assumed area within the investigation area (as shown on Figure 4) and assumed depth of impacted soil:

<u>Borings S18-1, S18-2, and S18-3 Area</u>

- 3740 square feet x 8 feet = 1108 cubic yards

Impacted soil may also extend in a northerly direction, outside the investigation area, in the vicinity of the former pump island, as well as in the vicinity of the USTs removed from the northeast side of the onsite building in 1997.

5.0 Conclusions and Recommendations

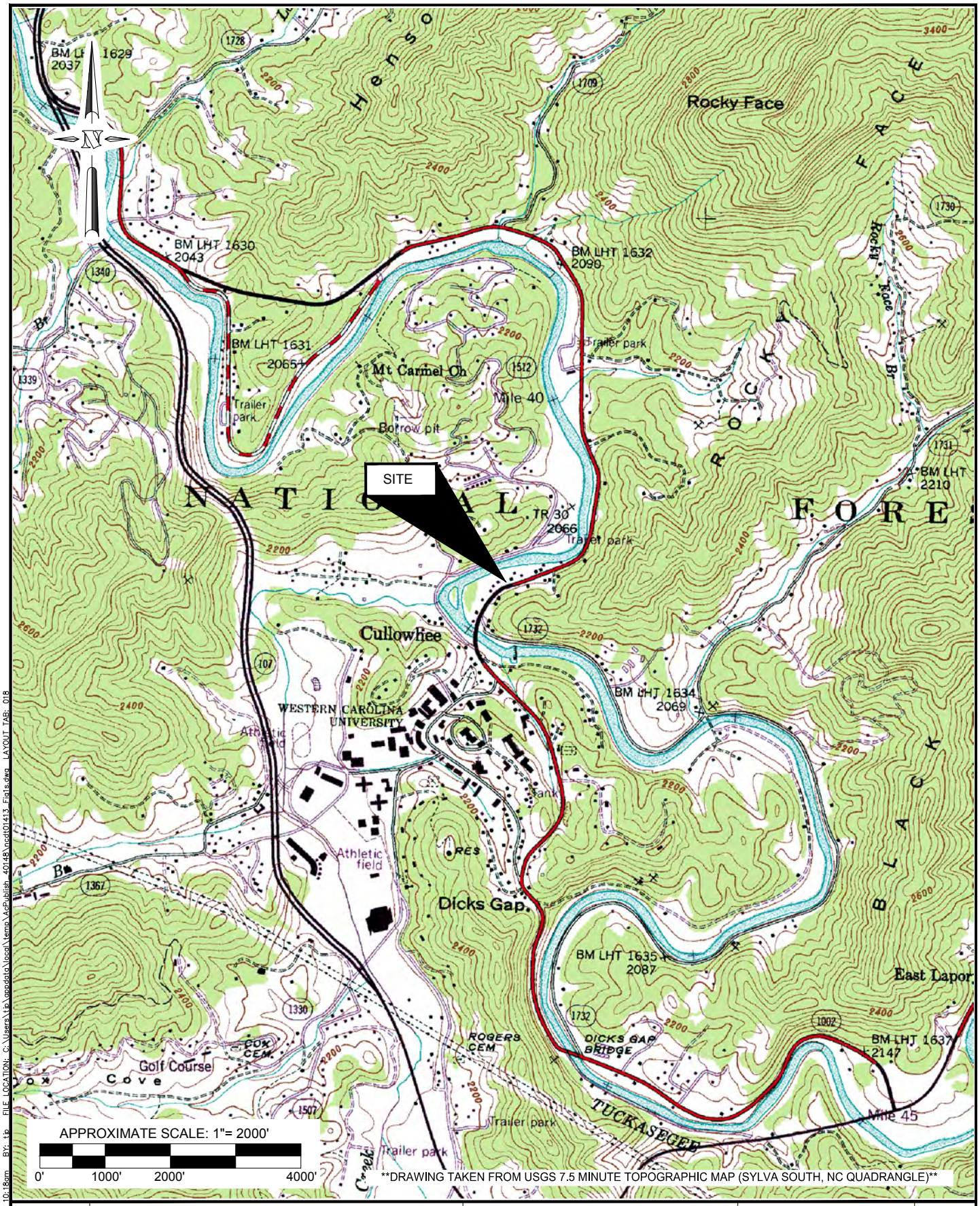
GEL performed a preliminary site assessment within the NCDOT northerly ROW and proposed easements adjacent to Parcel 018 that included a geophysical investigation, and the collection and analysis of soil samples. No subsurface anomalies indicative of suspected or known USTs were identified within the investigation area, and it has been concluded that there are no USTs present within the northerly existing and proposed ROWs and proposed easements adjacent to the site.

Soil samples were collected for analysis from three borings constructed within the preliminary site assessment investigation area. The soil samples were analyzed for DRO and GRO. GRO was not detected in any of the samples, but DRO levels exceeding the NCDENR action level of 10 mg/kg were detected in all three soil samples.

Based on the detection of elevated DRO concentrations in the three soil samples, it is estimated that there is an approximate total volume of 1108 cubic yards of impacted soil (DRO >10 mg/kg) in the vicinity of borings S18-1, S18-2, and S18-3.

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 borings S18-1, S18-2, and S18-3 as part of planned construction activities by NCDOT be handled appropriately and further characterized for petroleum constituents, as needed.

FIGURES



DRAWING TAKEN FROM USGS 7.5 MINUTE TOPOGRAPHIC MAP (SYLVA SOUTH, NC QUADRANGLE)

PLOTTED: Feb 03, 2014 – 10:18am By: tjp FILE LOCATION: C:\Users\tjp\AppData\Local\Temp\AcPublish_4048\ncdt01413_Fig1s.dwg LAYOUT TAB: 018

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PROJECT: ncdt01413			
PRELIMINARY SITE ASSESSMENT PARCEL 018 CULLOWHEE, JACKSON COUNTY, NORTH CAROLINA TIP NO. B-4159, WBS ELEMENT NO. 33507.1.1	SITE LOCATION MAP		FIGURE 1
DATE: February 3, 2014	DRAWN: TJP	APPRV.: ADE	

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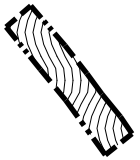
PARCEL 018
INVESTIGATION AREA



SEE FIGURE 5 FOR SUPPLEMENTAL LEGEND FOR USE WITH FIGURE 2

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GEL

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PROJECT: ncdt01413		
PRELIMINARY SITE ASSESSMENTS JACKSON COUNTY, NORTH CAROLINA TIP NO. B-4159, WBS ELEMENT NO. 33507.1.1	DESIGNATED INVESTIGATION AREA FOR PARCEL 018	FIGURE 2
DATE: February 25, 2014	DRAWN BY: ADE	

SEE FIGURE 5 FOR SUPPLEMENTAL LEGEND FOR USE WITH FIGURE 3

EM RESPONSE IN mV CH-1

800
750
700
650
600
550
500
450
400
350
300
250
200
150
100
50
0

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.

APPROXIMATE SCALE: 1"= 40'

0' 20' 40' 80'

PLOTTED: Apr 22, 2014 - 6:01pm BY: tjp FILE LOCATION: G:\L-P\N\ncdt\NCDT01413\ncdt01413.dwg LAYOUT TAB: 18-3(40)

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PRELIMINARY SITE ASSESSMENT
PARCEL 018
CULLOWHEE, JACKSON COUNTY,
NORTH CAROLINA
TIP NO. B-4159, WBS ELEMENT NO. 33507.1.1

SITE MAP SHOWING RESULTS OF GEOPHYSICAL INVESTIGATION

FIGURE 3

DATE: April 21, 2014

DRAWN BY: TJP APPRV. BY: ADE

SEE FIGURE 5 FOR SUPPLEMENTAL LEGEND FOR USE WITH FIGURE 3

DRO = 26.7 MG/KG

DRO = 28.7 MG/KG

DRO = 179.4 MG/KG

S18-1

S18-2

S18-3

LEGEND

S18-1 SOIL BORING LOCATION

KNOWN SOIL CONTAMINATION

DRO= 28.7 MG/KG DRO CONCENTRATION DETECTED BY QROS

APPROXIMATE SCALE: 1"= 40'

0' 20' 40' 80'

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DATE: April 21, 2014

SITE MAP SHOWING LOCATIONS OF SOIL BORINGS AND EXISTING MONITORING WELLS

DRAWN BY: TJP APPRV. BY: ADE

FIGURE 4

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04/16/11

Note: Not to Scale

**S.U.E. = Subsurface Utility Engineering*

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

PROJECT REFERENCE NO. R-2506C | SHEET NO. 4B

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 U/G 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 R/W Marker
- Proposed Control of Access Line with Concrete C/A 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
- U/G Power Cable Hand Hole
- H-Frame Pole
- Recorded U/G Power Line
- Designated U/G Power Line (S.U.E.*)

TELEPHONE:
- Existing Telephone Pole
- Proposed Telephone Pole
- Telephone Manhole
- Telephone Booth
- Telephone Pedestal
- Telephone Cell Tower
- U/G Telephone Cable Hand Hole
- Recorded U/G Telephone Cable
- Designated U/G Telephone Cable (S.U.E.*)
- Recorded U/G Telephone Conduit
- Designated U/G Telephone Conduit (S.U.E.*)
- Recorded U/G Fiber Optics Cable
- Designated U/G Fiber Optics Cable (S.U.E.*)

WATER:
- Water Manhole
- Water Meter
- Water Valve
- Water Hydrant
- Recorded U/G Water Line
- Designated U/G Water Line (S.U.E.*)
- Above Ground Water Line

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

GAS:
- Gas Valve
- Gas Meter
- Recorded U/G Gas Line
- Designated U/G Gas Line (S.U.E.*)
- Above Ground Gas Line

SANITARY SEWER:
- Sanitary Sewer Manhole
- Sanitary Sewer Cleanout
- U/G 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 U/G Line
- U/G Tank; Water, Gas, Oil
- Underground Storage Tank, Approx. Loc.
- A/G Tank; Water, Gas, Oil
- Geoenvironmental Boring
- U/G Test Hole (S.U.E.*)
- Abandoned According to Utility Records — AATUR
- End of Information — E.O.I.

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		
PRELIMIINARY SITE ASSESSMENT PARCEL 018 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 018, 3000 Old Cullowhee Road
Cullowhee, Jackson County, North Carolina
State Project No. B-4159, WBS Element #33507.1.1

	Diesel Range Organics (DRO)		Gasoline Range Organics (GRO)		QROS Analytical Results				
Sample ID	**QROS**	**Pace**	**QROS**	**Pace**	**BTEX (C6-C9)**	**TPH (C5-C35)**	**Total Aromatics (C10-C35)**	**16 EPA PAHs**	**Benzo(a)pyrene**
S18-1	28.7	24.2	< 0.6	< 5.7	< 0.5	28.7	20.94	0.48	< 0.027
S18-2	26.7	35.9	< 0.7	< 5.5	< 0.7	26.7	19.79	0.58	0.07
S18-3	179.4	49.2	< 3	< 6.8	< 3	179.4	133.97	3.02	< 0.15
NCDENR Action Level	***10***	***10***	***10***	***10***					
NCDENR MSCC									***0.096***

Notes:

1) All reported values are shown in milligrams per kilogram (mg/kg).

2) MSCC = NCDENR's Maximum Soil Contaminant Concnetration 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) Reported values exceeding corresponding NCDENR Action Levels or MSCCs are highlighted in yellow.

APPENDICES

APPENDIX I

PHOTOGRAPHS

Photograph 1: View looking east from Parcel 019 at boring locations S18-1 and S18-2 on parcel 018 and existing monitoring well MW19-1 on Parcel 019.

Photograph 2: View looking west from parcel 017 at boring locations S-18-2 and S18-3 on Parcel 018.

APPENDIX II

1997 CLOSURE REPORT

TO: DAVE REICHARD
FTF-RCO-PCB

JACKSON COUNTY
TF-7280
FORMER ROADRUNNER MARKET
DME 6/9/97

1325 Dills Cove Rd.
Sylva, NC 28779

MOUNTAIN GEOLOGY, INC.

Phone & Fax
(704) 586-3955

FILE COPY

UNDERGROUND STORAGE TANK
CLOSURE REPORT
for

KABBOORD PROPERTIES, INC

Contents

Primary Consultant:

Name: Mountain Geology, Inc.

Address: 1325 Dills Cove Rd.
Sylva, Nc 28779

Phone: (704) 586-3955

Laboratory:

Name: Hydrologic, Inc. Lab # 399

Address: P. O. Box 18029
Asheville, NC 28814-0029

Phone: (704) 254 - 5169

UST information:

Tank No.	Installation Dates	Size in Gallons	Tank Dimensions	Last contents
1	1972 ?	7,500	20'x 8'	gasoline
2	1972 ?	4,000	24'x 5.3'	gasoline
3	1792 ?	4,000	12.5'x 7.75'	gasoline
4	1792 ?	7,500	20' x 8'	gasoline

SITE CHARACTERISTICS:

Past Releases: Contaminated groundwater found as part of investigation related to water well contamination; also, material around tank # 1 is suggestive of contamination prior to tank installation.

Facility:

Active:

Inactive: (X) ,Last Time of Operation 1989 ?

Surrounding Property Use: Commercial - Residential

Geology/Hydrogeology: Four feet of fill material overlying 4 - 8 feet of clay-clay loam soil overlying silt loam texture saprolite.

CLOSURE PROCEDURES

PREPARATION FOR CLOSURE:

Authorities Notified: DEM - Groundwater Section , Fire Department

Permits Obtained: None

Tank Cleaning & Purging Procedure: Unknown - dry at removal

Amount of Residual Material Pumped: None

Storage, sampling and Disposal of the Residual Material: N/A

EXCAVATION:

Dimensions: tank #1 26 ft x 14 ft x 11 ft deep

tanks #2-4 36 ft x 21-28 ft x 8.5-11 ft deep

Soil Conditions: Dry

Depth of Tank Burial(s): # 1 - # 3, 3 ft deep; # 4, 2 ft deep

Quantity of Soil Removed: Only enough for tank removal

Soil Type(s): Fill - mixed clay loam & saprolite; soil - clay - clay loam; saprolite - silt loam texture

Type and source of Backfill: Soil - Kabboord properties, Cullowhee, NC.

CONTAMINATED SOIL:

Extent of Excavation: Only enough for tank removal, estimated 18 cubic yards.

Temporary Storage, Sampling, Treatment & Disposal of Soil: Stored on site pending disposal.

SITE INVESTIGATION

FIELD SCREENING, OBSERVATIONS, AND CALIBRATION:

Calibrated Photovac photo ion detector, separated excavated contaminated soil from uncontaminated soil.

SOIL SAMPLING POINTS & PROCEDURES:

Location: K1 - K4 beneath dispenser island
K5 - K6 beneath tank #1, K7 - K9 beneath tank #2
K10 - K11 beneath tank #3, K12 - K13 beneath product lines, K14 - K15 beneath tank # 4, K16 stockpile

Type of Samples: K1 - K15 grab; K16 composite

Collection Procedures:

K1, K2, K4, K13 - shovel; K3 - soil auger, K16- lined soil probe, remainder from excavator bucket.

Depth: variable

Identification:

K1 through K16

Sample Analyses:

EPA method 5030 - TPH gasoline

QUALITY CONTROL:

Handling Procedures: All samples collected with fresh latex gloves; excavator & shovel material not in contact with equipment surface.

Decontamination Procedures: New material, gloves, liners & bottles used for each sample.

Collection Time & Date: 4/22/97 9:05 am - 6:30 pm

Submittal Time & Date: 4/23/97 5:00 pm

Quality Control Procedures: N/A

Quality Control Results: N/A

INVESTIGATION RESULTS:

Site Sensitivity Evaluation: (SSE) Not done, prior work encountered contaminated ground water.

Method(s) of Analyses: EPA method 5030 - TPH gasoline

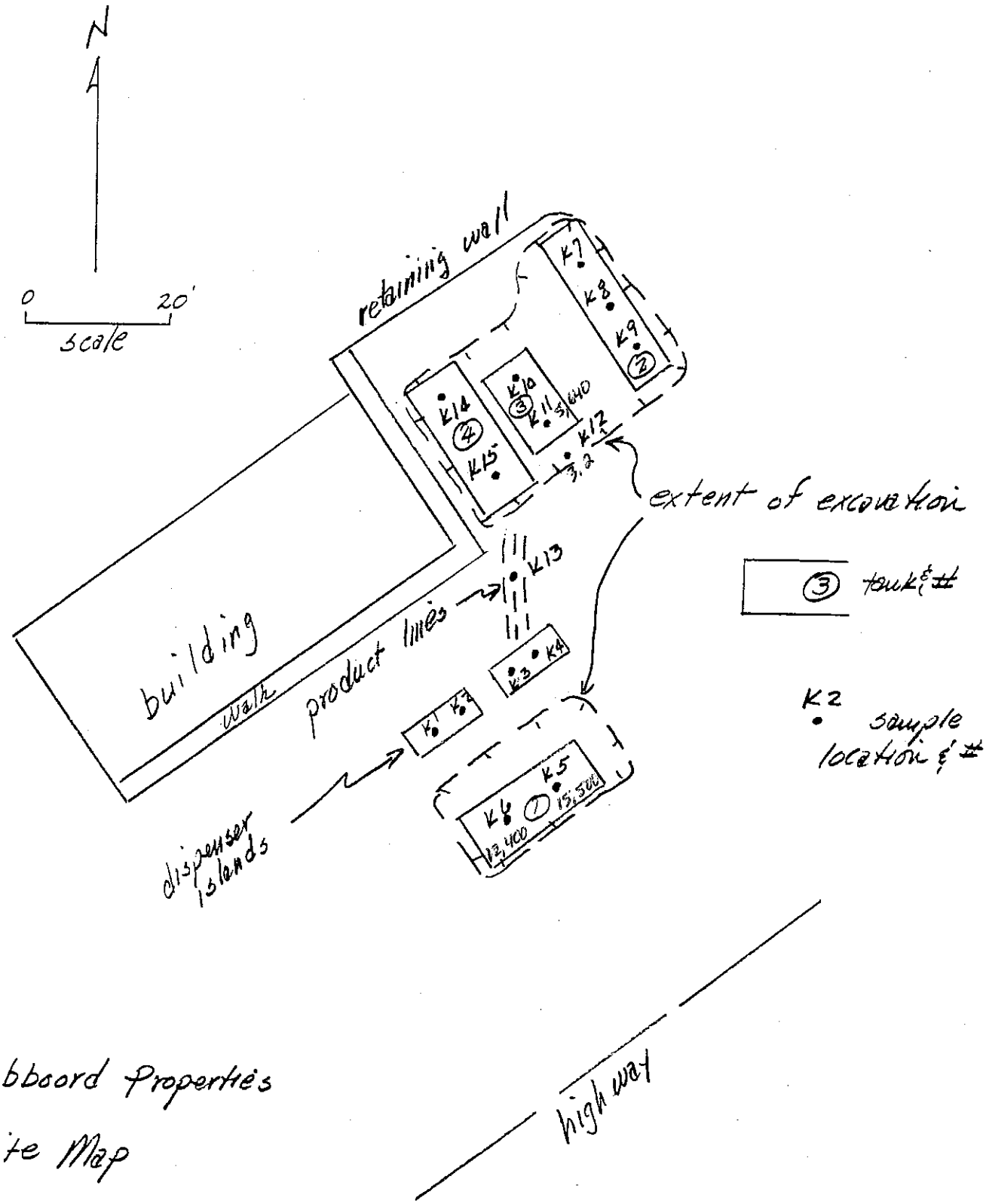
Analytical Results: (mg/kg) K5 - 15,500, K6 - 12,400: K11 - 5,640; K12 - 3.2, K16 - 390; all others below detection limit of 2 mg/kg

CONCLUSIONS AND RECOMMENDATIONS

Sources of Contamination: Tank # 1 spillage from overfilling; also, the extent of contaminated soil beneath, adjacent to, and above the tank on southeast side coupled with new appearance of tank suggest contamination prior to tank installation (reportedly new tanks installed in 1980's). tank #s 2 - 4 Spillage from overfilling

Further Investigation: Coupled with prior work, delineate extent of soil and groundwater contamination by soil auger borings & samples, sampling nearby monitor & water supply wells, and installation & sampling of new monitor well down gradient from tanks # 2-4. Also, fracture trace analysis to determine groundwater flow in fracture zone(s).

Signature: Michael H. Owens 6/4/97 Licensed Geologist:
MICHAEL H. OWENS # 1086



Kabboord Properties

Site Map

Enclosure II

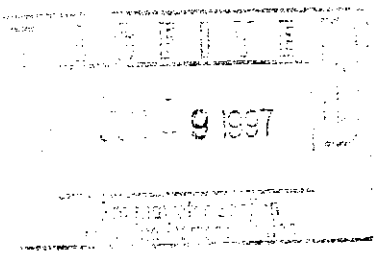
Enclosure III

Kabboord Properties

Soil Samples 04/22/97

sample #	depth (ft)	5030 mg/kg	comments
K1	2	BDL	dispenser island
K2	2	BDL	dispenser island
K3	1.7	BDL	dispenser island
K4	2	BDL	dispenser island
K5	12	15,500	tank # 1
K6	12	12,400	tank # 1
K7	9	BDL	tank # 2
K8	9	BDL	tank # 2
K9	9	BDL	tank # 2
K10	11	BDL	tank # 3
K11	12	5,640	tank # 3
K12	3	3.2	product line
K13	12	BDL	product line
K14	12	BDL	tank # 4
K15	12	BDL	tank # 4
K16	NA	390	stock pile

BDL = Below sample detection limit (2mg/kg)



Appendix B Yellow copy sent to Annette Parker 5/16

GW/UST-2 Site Investigation Report For Permanent Closure or Change-in-Service of U.S.T.

FOR TANKS IN **NC**

Return Completed Form To:
The appropriate DWQ Regional Office according to the county of the facility's location. [SEE MAP ON REVERSE SIDE OF OWNER'S COPY (PINK) FOR REGIONAL OFFICE ADDRESS].

State Use Only
I.D. Number _____
Date Received _____

INSTRUCTIONS

Complete and return within (30) days following completion of site investigation.

I. Ownership of Tank(s)

Owner Name: Kabbcord Properties, Inc
(Corporation, Individual, Public Agency, or Other Entity)
Street Address: 75 Ledbetter Rd, #29
County: Jackson
City: Cullowhee State: NC Zip Code: 28723
Telephone Number: (704) 293-7474 (Area Code)

II. Location of Tank(s)

Facility Name: Kabbcord Properties, Inc
(or Company)
Facility ID # (if available): ~~5[illegible]~~ 0-031706 5
Street Address: 3000 old Cullowhee Rd
(or State Road)
County: Jackson City: Cullowhee Zip Code: 28723
Telephone Number: (704) 293-7474 (Area Code)

III. Contact Person

Name: Bobby Chastain Job Title: president Tel. No.: (704) 293-3751
Closure Contractor: Chastain Excavating Address: PO Box 2034, Sylva, NC 28779 Tel. No.: " "
Primary Consultant: Mountain Geology Address: 1325 Dills Creek Rd, Sylva, NC Tel. No. (704) 586-3955
Lab: Hydrologic Inc Address: PO Box 18209 Asheville, NC Tel. No. (704) 254-5769

IV. U.S.T. Information

Tank No.	Size in Gallons	Tank Dimensions	Last Contents
1	7500	20'X8'	gasoline
2	4000	24'X5.3'	"
3	4400	12.5'X7.75'	"
4	7500	20'X8'	"

V. Excavation Condition

Water In Excavation		Free Product		Notable Odor or Visible Soil Contamination	
Yes	No	Yes	No	Yes	No
	X		X	X	
	X		X	X	
	X		X	X	
	X		X	X	

VI. Additional Information Required

See reverse side of pink copy (owner's copy) for additional information required by N.C. - DWQ in the written report and sketch.

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

VII. Check List (Check the activities completed)

PERMANENT CLOSURE (For Removing or Abandoning-in-place)

- [X] Contact local fire marshal.
- [X] Notify DWQ Regional Office before abandonment.
- [X] Drain & flush piping into tank.
- [X] Remove all product and residuals from tank.
- [X] Excavate down to tank.
- [X] Clean and inspect tank.
- [X] Remove drop tube, fill pipe, gauge pipe, vapor recovery tank connections, submersible pumps and other tank fixtures.
- [X] Cap or plug all lines except the vent and fill lines.
- [X] Purge tank of all product & flammable vapors.
- [X] Cut one or more large holes in the tanks.
- [X] Backfill the area.

Date Tank(s) Permanently closed: 4/22/97
Date of Change-in-Service: _____

ABANDONMENT IN PLACE

- [ ] Fill tank until material overflows tank opening.
- [ ] Plug or cap all openings.
- [ ] Disconnect and cap or remove vent line.
- [ ] Solid inert material used - specify: _____

REMOVAL

- [X] Create vent hole.
- [X] Label tank.
- [X] Dispose of tank in approved manner.

Final tank destination: Scrap Hafer's Inc Waynesville, NC

VIII. Certification (Read and Sign)

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

Print name and official title of owner or owner's authorized representative	Signature	Date Signed
William Kabbcord, owner	William Kabbcord	6/6/97

APPENDIX III

SOIL BORING LITHOLOGIC LOGS

SOIL BORING LOG

Boring/Well No.: **S18-1**
Date Started: 12/16/13
Date Completed: 12/16/13

No.	Depth Interval	Blow Counts	PID (ppm)	Soil Description	Soil Type
1	0.0’ – 4.5’	--	(3’-4’) 0.0	Red Silty Clay; Moist; micaceous; Asphalt/gravel 0’-0.5’	CL
2	4.5’ – 8.0’	--	(7’-8’) 0.0	Red/Brown Sandy Silt; Moist; Noncohesive; Increasing amounts of sand with depth	ML
3					
4					
5				Total depth = 8 feet below land surface	
6					
7					
8					
9					
10					
11					
12					

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’

SOIL BORING LOG

Boring/Well No.: **S18-2**
Date Started: 12/16/13
Date Completed: 12/16/13

No.	Depth Interval	Blow Counts	PID (ppm)	Soil Description	Soil Type
1	0.0’ – 7.0’	--	(3’-4’) 0.0	Brown Silt with Sand; damp; micaceous silt; Asphalt/gravel 0’-0.5’	ML
2	7.0’ – 8.0’	--	(7’-8’) 0.0	Red Sandy Clay; Moist; Cohesive	CL
3					
4				Total depth = 8 feet below land surface	
5					
6					
7					
8					
9					
10					
11					
12					

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’

SOIL BORING LOG

Boring/Well No.: **S18-3**
Date Started: 12/16/13
Date Completed: 12/16/13

No.	Depth Interval	Blow Counts	PID (ppm)	Soil Description	Soil Type
1	0.0’ – 4.0’	--	(3’-4’) 0.0	Red silty clay; moist; micaceous; cohesive; Asphalt/gravel 0’-0.5’	MH/CL
2	4.0’ – 8.0’	--	(7’-8’) 0.0	Red silt with sand; damp; noncohesive	ML
3					
4				Total depth = 8 feet below land surface	
5					
6					
7					
8					
9					
10					
11					
12					

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 IV

CERTIFICATES OF ANALYSIS AND CHAIN OF CUSTODY RECORD FOR SOIL SAMPLES

KB Labs, Inc. Results

QED

AQROS

Hydrocarbon Analysis Results

Client: GEL ENS of NC
Address:

Samples taken 12/16 & 12/17/13
Samples extracted 12/16 & 12/17/13
Samples analysed Thursday, December 19, 2013

Contact: Andrew Eyer

Operator CSB

Project: B-4159, Cullowhee NC

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-18-3	10.9	<0.5	<0.5	28.7	28.7	20.94	0.48	< 0.027	57.2	39.9	2.9	V.Deg.PHC 98.5%
s	S-18-2	14.0	<0.7	<0.7	26.7	26.7	19.79	0.58	0.07	53.6	38.9	7.5	V.Deg.PHC 80.9%
s	S-18-1	60.2	<3	<3	179.4	179.4	133.97	3.02	< 0.15	52.2	44.5	3.3	V.Deg.PHC 98.5%
s	S-19.1	11.6	<0.6	<0.6	<0.6	<0.6	< 0.58	< 0.06	< 0.029	0	0	100	Deg.Fuel 700.2%
s	S-20-2	11.4	<0.6	<0.6	<0.6	<0.6	< 0.57	< 0.06	< 0.028	0	41	59	PAH
s	S-20-1	10.9	<0.5	<0.5	3.7	3.7	3.08	< 0.05	< 0.027	55.4	37.6	7	Degraded Fuel (PFM)
s	S-11-1	10.7	<0.5	<0.5	<0.5	<0.5	< 0.54	< 0.05	< 0.027	0	0	100	Match not possible
s	S-11-2	21.2	<1.1	<1.1	37.4	37.4	28.99	0.94	0.16	44.9	37.8	17.4	V.Deg.PHC 74%
s	S-11-3	48.8	<2.4	<2.4	39.1	39.1	29.43	0.7	< 0.122	50.6	40.8	8.6	V.Deg.PHC 99.9%
s	S-13-1	10.8	<0.5	<0.5	12.4	12.4	11.6	0.43	0.08	45.3	44.7	10	V.Deg.PHC 73.9%

Initial Calibrator QC check OK

Low Range Calibrator Final check Low 0.067

High Range Calibrator Final check OK 1.536

Results generated by a QED HC-1 analyser

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

Soil values are not corrected for moisture or stone content

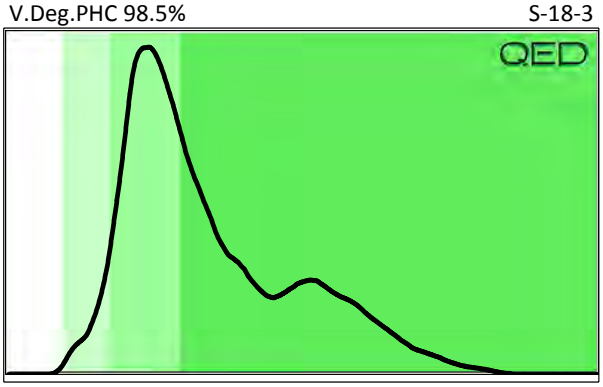
Fingerprints provide a tentative hydrocarbon identification based on operator selected library matches

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

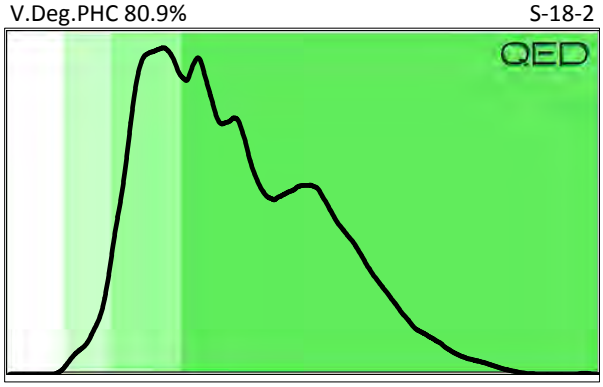
(SBS)= site specific background subracted (LBS)= Library background subtracted % = match confidence

Project B-4159, Cullowhee NC **Date** ay, December 19, 2013

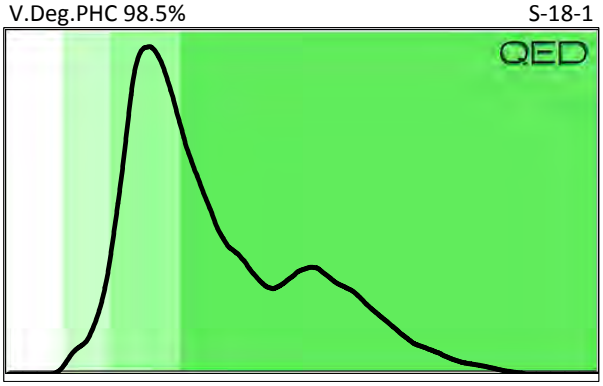
V.Deg.PHC 98.5% S-18-3



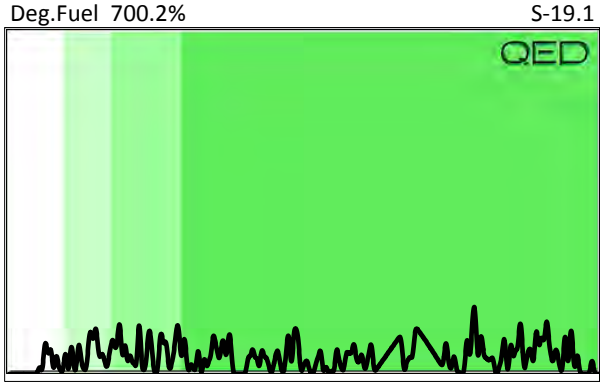
V.Deg.PHC 80.9% S-18-2



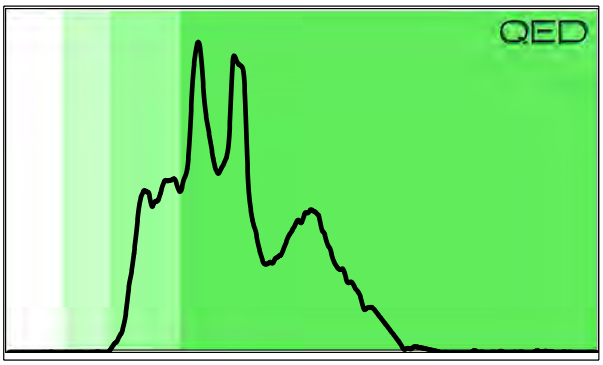
V.Deg.PHC 98.5% S-18-1



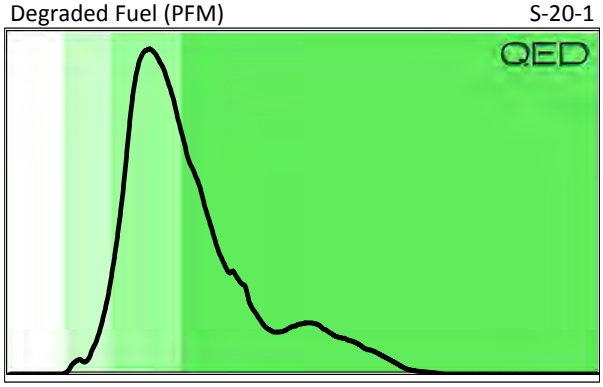
Deg.Fuel 700.2% S-19.1



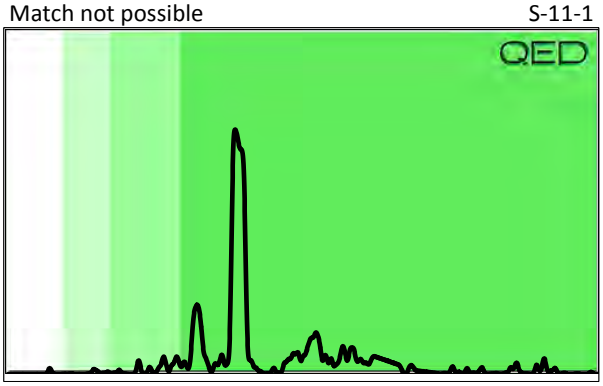
PAH S-20-2



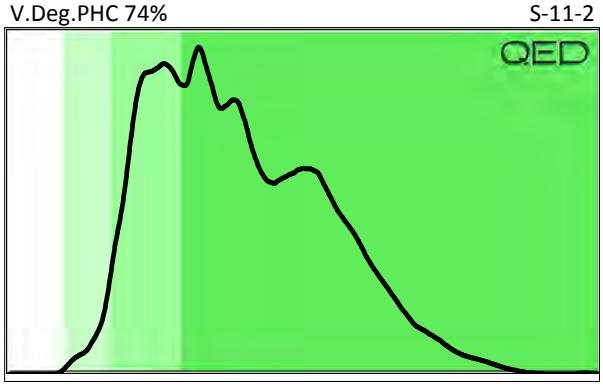
Degraded Fuel (PFM) S-20-1



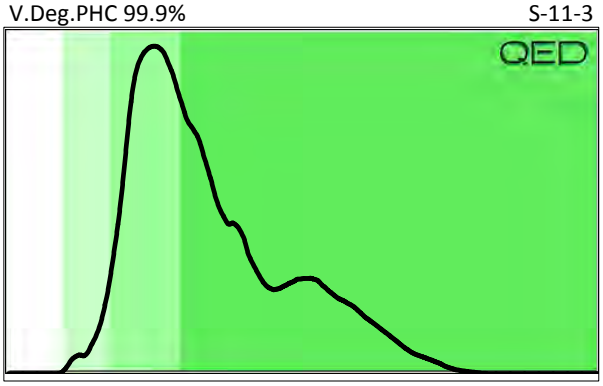
Match not possible S-11-1



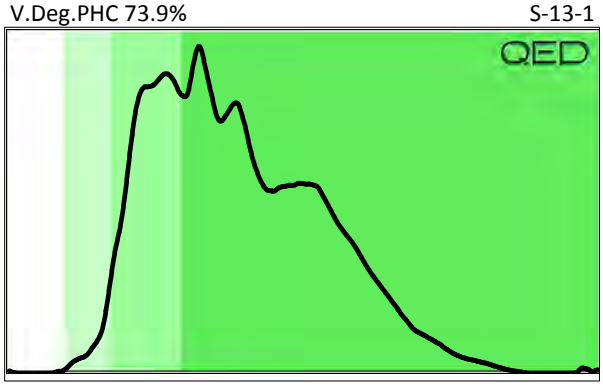
V.Deg.PHC 74% S-11-2



V.Deg.PHC 99.9% S-11-3



V.Deg.PHC 73.9% S-13-1



CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

6821 SW Archer Road
Gainesville, FL 32608
TEL (352) 367-0073 · FAX (352) 378-6491

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

MOBILE UNIT #

CLIENT NAME	PROJECT NAME & ADDRESS	BATCH # (Lab Use Only)
GEL ENG. of N.C.	B-4159, Cullowhee, N.C.	
SAMPLERS	**CONTACT PERSON**	
WSR, RSG	Andrew Eyer	

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: 4UF	Weight (g)	COMMENT / SAMPLE PRE FIX
S-18-3	12/16/13	1330		X				S	1	✓	12.8	48hr 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	48hr TA
S-13-1		1015		X				S	1	✓	13	48hr TA
S-13-2		1045		X				S	1	✓	13.3	48hr TA
S-15-1		1110		X				S	1	✓	13.02	48hr 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)	48hr TA Low Volume

	Date / Time	Received by: (Signature)	Date / Time	Remarks and Observations
Precleaned Containers Relinquished by: (Signature) Steve Ruckar	12/17/13 1250		12/17/13 1250	
Relinquished by: (Signature)	12/17/13 1400		12/18/13 0800	

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 M. Baioni

Angela Baioni

angela.baioni@pacelabs.com
Project Manager

Enclosures

cc: Chemical Testing Engineer, NCDOT

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CERTIFICATIONS

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

Charlotte Certification IDs
9800 Kincey 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

REPORT OF LABORATORY ANALYSIS

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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
		EPA 8015 Modified	GAW	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92184006014	**S-12-2**	EPA 8015 Modified	NU1	2	PASI-C
		EPA 8015 Modified	GAW	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92184006015	**S-12-4**	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
92184006017	**S-12-5**	EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92184006018	**S-12-6**	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
92184006020	**S-12-8**	EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92184006021	**S-12-9**	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
92184006023	**S-8-2**	EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92184006024	**S-8-5**	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		

REPORT OF LABORATORY ANALYSIS

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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		

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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		

REPORT OF LABORATORY ANALYSIS

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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		

REPORT OF LABORATORY ANALYSIS

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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		

REPORT OF LABORATORY ANALYSIS

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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		

REPORT OF LABORATORY ANALYSIS

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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		

REPORT OF LABORATORY ANALYSIS

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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		

REPORT OF LABORATORY ANALYSIS

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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	

REPORT OF LABORATORY ANALYSIS

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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		

REPORT OF LABORATORY ANALYSIS

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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	

REPORT OF LABORATORY ANALYSIS

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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	

REPORT OF LABORATORY ANALYSIS

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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		

REPORT OF LABORATORY ANALYSIS

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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	

REPORT OF LABORATORY ANALYSIS

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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		

REPORT OF LABORATORY ANALYSIS

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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		

REPORT OF LABORATORY ANALYSIS

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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	

REPORT OF LABORATORY ANALYSIS

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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	

REPORT OF LABORATORY ANALYSIS

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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		

REPORT OF LABORATORY ANALYSIS

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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	

REPORT OF LABORATORY ANALYSIS

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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							
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	

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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		

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
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
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
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	

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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	

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							
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	

REPORT OF LABORATORY ANALYSIS

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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	
1,1,2,2-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	

REPORT OF LABORATORY ANALYSIS

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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		

REPORT OF LABORATORY ANALYSIS

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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	

REPORT OF LABORATORY ANALYSIS

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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 Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
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		

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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 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
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
QC Batch Method: EPA 8260
Analysis 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	

REPORT OF LABORATORY ANALYSIS

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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-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		

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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

QUALITY CONTROL DATA

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

QC Batch: MSV/25343
QC Batch Method: EPA 8260
Analysis 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-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		

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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	

REPORT OF LABORATORY ANALYSIS

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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
QC Batch Method: EPA 8260
Analysis 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	

REPORT OF LABORATORY ANALYSIS

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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	

REPORT OF LABORATORY ANALYSIS

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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		

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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	

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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	

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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	92183618003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
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	

REPORT OF LABORATORY ANALYSIS

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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 Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
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		

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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 Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
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	

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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).

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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		

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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		

Pace Analytical	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: December 16, 2013 Page 1 of 2
	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

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)

Temp should be above freezing to 6°C

Optional
Proj. Due Date:
Proj. Name:

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

Comments:

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

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)

WO# : 92184006

92184006

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www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 2

1727157

Section A Required Client Information:

Company: GEL Eng. of N.C.
Address: PO Box 14262
RTP N.C. 27709
Email To: ADE@gel.com
Phone: 919-323-8828 Fax:
Requested Due Date/TAT: Normal TA

Section B Required Project Information:

Report To: A. Eyer
Copy To:
Purchase Order No.: WBS No. 33507.1.1
Project Name: B-4159
Project Number: NCDT01413

Section C Invoice Information:

Attention: ~~A. Eyer~~ NCDOT
Company Name: ~~GEL~~
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 5996-2

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER

Site Location STATE: NC

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	GRO	DRO	VOC's	SVOC's	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	S-18-3	SL	G	12/16/13	1330				5										X	X				92184006 001
2	S-18-2	SL	G	"	1350				5										X	X				002
3	S-18-1	SL	G	"	1420				5										X	X				003
4	S-19-1	SL	G	"	1523				5										X	X				004
5	S-20-2	SL	G	"	1555				5										X	X				005
6	S-20-1	SL	G	"	1615				5										X	X				006
7	S-11-1	SL	G	"	1650				5										X	X				007
8	S-11-2	SL	G	12/17/13	0920				5										X	X				008
9	S-11-3	SL	G	"	0945				5										X	X				009
10	S-13-1	SL	G	"	1015				5												X	X		010
11	S-13-2	SL	G	"	1045				5												X	X		011
12	S-15-1	SL	G	"	1110				5												X	X		012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Steve Rucker GEL	12/18/13	1400	[illegible]	12/19/13	1115	1.4	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Steve Rucker

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 12/18/13

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 2 of 2

1727156

Section A Required Client Information:

Company: GEL ENG. of N.C.
Address: PO Box 14262
RTP N.C. 27709
Email To: ADE@gel.com
Phone: Fax:
Requested Due Date/TAT: Normal TA

Section B Required Project Information:

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Copy To:
Purchase Order No.: WBS No. 33507.1.1
Project Name: B-4159
Project Number: NCDT01413

Section C Invoice Information:

Attention: NCDOT
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER

Site Location STATE: NC

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SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	GRO	DRO	VOC's	SVOC's	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	S-12-1	SL	G	12/17/13	1155				5										X	X				92134006-013
2	S-12-2	SL	G	"	1230				5										X	X				014
3	S-12-4	SL	G	"	1245				5										X	X				015
4	S-12-3	SL	G	"	1310				5										X	X				016
5	S-12-5	SL	G	"	1509				5										[illegible]		X	X		017
6	S-12-6	SL	G	"	1540				5												X	X		018
7	S-12-7	SL	G	"	1555				5												X	X		019
8	S-12-8	SL	G	"	1610				5												X	X		020
9	S-12-9	SL	G	"	1625				5												X	X		021
10	S-8-1	SL	G	"	1635				5												X	X		022
11	S-8-2	SL	G	12/18/13	0855				5												X	X		023
12	S-8-5	SL	G	12/18/13	0925				5												X	X		024

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
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ORIGINAL

SAMPLER NAME AND SIGNATURE

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