GEL Engineering of NC INC

an affiliate of **The GEL Group** INC

PRELIMINARY SITE ASSESSMENT REPORT

3050 Old Cullowhee Road (SR 1002)
Arnold Ashe Property, Parcel 011
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 30, 2014

PRELIMINARY SITE ASSESSMENT REPORT

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TABLE OF CONTENTS

Signature Page

This document, entitled *Preliminary Site Assessment Report*, has been prepared for the Arnold Ashe Property, located at 3050 Old Cullowhee Road (Parcel 011) 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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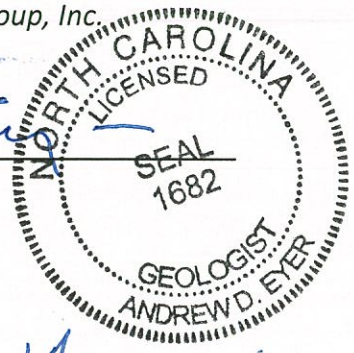

Andrew D. Eyer, L.G.
Senior Project Manager

04-30-14
Date

PRELIMINARY SITE ASSESSMENT REPORT

3050 Old Cullowhee Road (SR 1002)
Arnold Ashe Property, Parcel 011
Cullowhee, North Carolina
State Project B-4159
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Executive Summary

The subject site is the WNC Ventures, Inc. property (Parcel 011) located at 3050 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 011, as a result of previous and/or current operations at the subject site.

Parcel 011 contains an unoccupied one-story building and basement in the northern portion of the Parcel, and an occupied residence in the southern portion of the Parcel. that currently is currently vacant. North Carolina Department of Environment and Natural Resources (NCDENR) Groundwater Incident No. 7281 was assigned to the Cullowhee Service Center in 1990 following the removal of five petroleum USTs. The five former USTs were replaced with four petroleum USTs in 1990. Based on a review of files at NCDENR's Asheville District Office for Incident No. 7281, the "Cullowhee Service Center" evidently encompassed Parcel 013 and the northern half of adjacent Parcel 011, which shared a common front parking area where the five former USTs were previously located. The Center included a “gasoline retail store" and auto repair shop at Parcel 013, and a restaurant at Parcel 011. An active groundwater remediation system (recovery and treatment of impacted groundwater beneath Parcels 011, 013, and 015) was shut down in 1998, and corrective action since 1998 for Incident No. 7281 has consisted of groundwater monitoring and reporting.

Executive Summary (continued)

GEL performed a preliminary site assessment within the NCDOT westerly ROW and proposed easements adjacent to Parcel 011 in December 2013 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 existing and proposed ROWs and proposed easements adjacent to the site.

Soil samples were collected for analysis from three borings, S11-1, S11-2, and S11-3, constructed within the preliminary site assessment investigation area. The soil samples were analyzed for diesel range organics (DRO) and gasoline range organics (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 two samples, S11-2 and S11-3. In addition, benzo(a)pyrene was detected in soil sample S11-2 at a concentration exceeding the Maximum Soil Contaminant Concentration (MSCC) established by NCDENR for benzo(a)pyrene.

Based on the detection of elevated DRO concentrations in the S11-2 and S11-3 soil samples, it is estimated that there is an approximate total volume of 415 cubic yards of impacted soil (DRO >10 mg/kg) in the vicinity of borings S11-2 and S11-3.

A groundwater sample was collected from an existing groundwater monitoring well at Parcel 011 during the preliminary site assessment, and the sample was analyzed for volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs). No VOCs or SVOCs were detected in the sample.

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 S11-2 and S11-3 as part of planned construction activities by NCDOT be handled appropriately and further characterized for petroleum constituents, as needed.

PRELIMINARY SITE ASSESSMENT REPORT

3050 Old Cullowhee Road (SR 1002)
Arnold Ashe Property, Parcel 011
Cullowhee, North Carolina
State Project B-4159
WBS Element #33507.1.1
Jackson County

1.0 Introduction

This document presents the details of a geophysical survey and preliminary site assessment performed within the North Carolina Department of Transportation (NCDOT) existing and proposed Rights-of-Way (ROWs) and easements at the WNC Ventures, Inc. property (Parcel 011) located at 3050 Old Cullowhee Road (SR 1002) in Cullowhee, North Carolina.

The northern portion of Parcel 011 contains an unoccupied one-story building and basement and the southern portion contains an occupied two-story residence on a landscaped tract. 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 west side of Old Cullowhee Road fronting Parcel 011 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 011**.**

North Carolina Department of Environment and Natural Resources (NCDENR) Groundwater Incident No. 7281 was assigned to the Cullowhee Service Center in 1990 following the removal of five petroleum USTs. The five former USTs were replaced with four petroleum USTs in 1990. Based on a review of files at NCDENR's Asheville District Office for Incident No. 7281, the "Cullowhee Service Center" evidently encompassed Parcel 013 and the northern half of adjacent Parcel 011. The Center consisted of a "gasoline retail store" and auto repair shop located on Parcel 013, and a restaurant located on Parcel 011, all of which shared a common front parking area where the five former USTs were previously located.

According to the son of the owner of Parcel 011, Mr. Ashe, the residence located in the southern portion of the parcel is over 100 years old and has been in the Ashe family since it was built. The building has only been used as a residence, and USTs have never been located at the site. Mr. Ashe also confirmed that the structure located in the northern portion of Parcel 011 (as part of Cullowhee Service Center) has always been used as a restaurant and has never had any USTs associated with the restaurant operation.

Over 800 tons of contaminated soil were excavated from the Cullowhee Service Center parking lot in 1990 following the removal of the five USTs, and a groundwater remediation system was installed to recover and treat impacted groundwater from beneath Parcels 011 and Parcel 013, as well as the westerly portion of Parcel 015, which is located adjacent to and west of Parcels 011 and 013, as shown in Figures 2 through 4.

Based on discussions with representatives of the NCDENR Asheville District office, active groundwater remediation (groundwater recovery and treatment) for Incident No. 7281 has been completed and, as of June 1998, corrective action consists of groundwater monitoring and reporting. NCDENR indicated that it has no record of submittal of groundwater monitoring reports for Incident No. 7281 since 1998, and that a No Further Action status for the Incident has not been issued for the Incident by NCDENR.

There is currently no visible evidence of existing USTs or vents at the site, and representatives of the NCDENR Asheville District Office indicated that there are no files for the site in its database.

Two groundwater monitoring wells were observed on Parcel 011, as shown on Figure 4, and are located within the preliminary site investigation area shown in Figure 2. GEL assigned IDs of MW11-1 and MW11-2 to the wells as part of preliminary assessment. Files in the NCDENR Asheville District Office for UST Incident No. 7281 (Cullowhee Service Center) indicated that well MW11-2 was originally identified as well Q94a8, and was part of series of groundwater monitoring wells that were installed at properties located along Old Cullowhee Road by NCDENR approximately 20 to 25 years ago in an effort to locate the source of a petroleum-impacted groundwater contaminant plume that had impacted a drinking water well in Cullowhee. Well MW11-1 was originally identified as well MW-103, which was installed in 1993 and used as part of previous groundwater assessments to address UST Incident No. 7281.

The most recent groundwater quality data reported for well MW11-2 (Q94a8) is provided in a 2002 report prepared by SEI, P.C. that indicates that the well was sampled in April 2002. The data for that sampling event indicate that detected toluene, ethylbenzene, total xylenes, and isopropyl ether levels in the well exceeded the NCDENR 2L standard. The well is currently inaccessible. Northing and Easting coordinates for the well are listed in the table in Section 4.2 of this report.

Well MW11-1 (MW-103) was also sampled in April 2002, and SEI, P.C.'s 2002 report indicated that no constituents were detected above the NCDENR 2L standard. GEL sampled well MW11-1 during the preliminary site assessment conducted at parcel 011 in December 2013 because the well was accessible, and the sampling is discussed below in Section 4.2 of this report. Northing and Easting coordinates for the well are also listed in the table in Section 4.2.

3.0 Local Geology and Surroundings

Parcel 011 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 silty, sandy 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 011 most likely flows in a westerly or northwesterly 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 011, 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 011.
- 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 011 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 17, 2013, within the existing and proposed ROWs and easements fronting Parcel 013, 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 011 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, S11-1, S11-2, and S11-3 at Parcel 011 on December 16-17, 2013, for analysis of total petroleum hydrocarbon indicator parameters. The soil borings were constructed within the westerly ROW and proposed easements of Old Cullowhee Road, as shown on Figure 4 and Photograph 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 and Existing Monitoring Wells at Parcel 011

Soil Boring	Depth Interval of Soil Sample Collected for Analysis (feet bgs)	PID Reading (ppm)	Northing	Easting
S11-1	7-8	0.0	596513.078	754170.033
S11-2	7-8	0.0	596557.612	754212.296
S11-3	7-8	0.0	596591.468	754234.464
Monitoring Well				
MW11-1	N/A	N/A	596584.627	754215.439
MW11-2	N/A		596581.160	754219.649

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 below ground surface (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 direct push technology (DPT) provided by Regional Probing. Soil boring lithologic logs are attached as Appendix II of this document. Groundwater was not encountered in any borings.

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

No organic vapor concentrations were measured in 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 S11-1, S11-2, and S11-3 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. Borings S11-2 and S11-3 were 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 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 III, and a summary of the analytical results is presented in Table 1.

Both the QROS and Pace results indicate that GRO was not detected in the soil samples collected from borings S11-1, S11-2, and S11-3. However, as shown in Table 1, DRO was detected in samples S11-2 and S11-3 analyzed by QROS (37.4 milligrams per kilogram (mg/kg) in S11-2 and 39.1 mg/kg in S11-3) at concentrations exceeding the NCDENR DRO action level of 10 mg/kg. In addition, QROS detected benzo(a)pyrene in soil sample S11-2 at a concentration of 0.16 mg/kg, which exceeds the Maximum Soil Contaminant Concentration (MSCC) of 0.088 mg/kg established by NCDENR for benzo(a)pyrene. A DRO level of 10.2 mg/kg was detected by Pace in soil sample S11-3, which slightly exceeds the NCDENR action level, but DRO was not detected in soil samples S11-1 and S11-2.

It is estimated that there is an approximate total volume of 415 cubic yards of impacted soil (DRO >10 mg/kg) in the vicinity of borings S11-2 and S11-3 based on the following assumed areas within the investigation area (as shown on Figure 4) and assumed depths of impacted soil:

<u>Borings S11-2 and S11-3 Area</u>

- 1400 square feet x 8 feet = 415 cubic yards

Existing groundwater monitoring well MW11-1 described in Section 2.0 was sampled by GEL on December 19, 2013 as part of the preliminary site assessment for Parcel 011. A groundwater samples was collected following evacuation of three well volumes from the well. A total depth of 52.16 feet bgs was measured in the well, and the water table was encountered at a depth of 22.02 feet bgs. The groundwater sample was analyzed by Pace for VOCs by EPA Method 8260B and SVOCs by EPA Method 8270D. The Certificate of Analysis for the sample is included in Appendix III. No VOCs or SVOCs were detected in the sample.

5.0 Conclusions and Recommendations

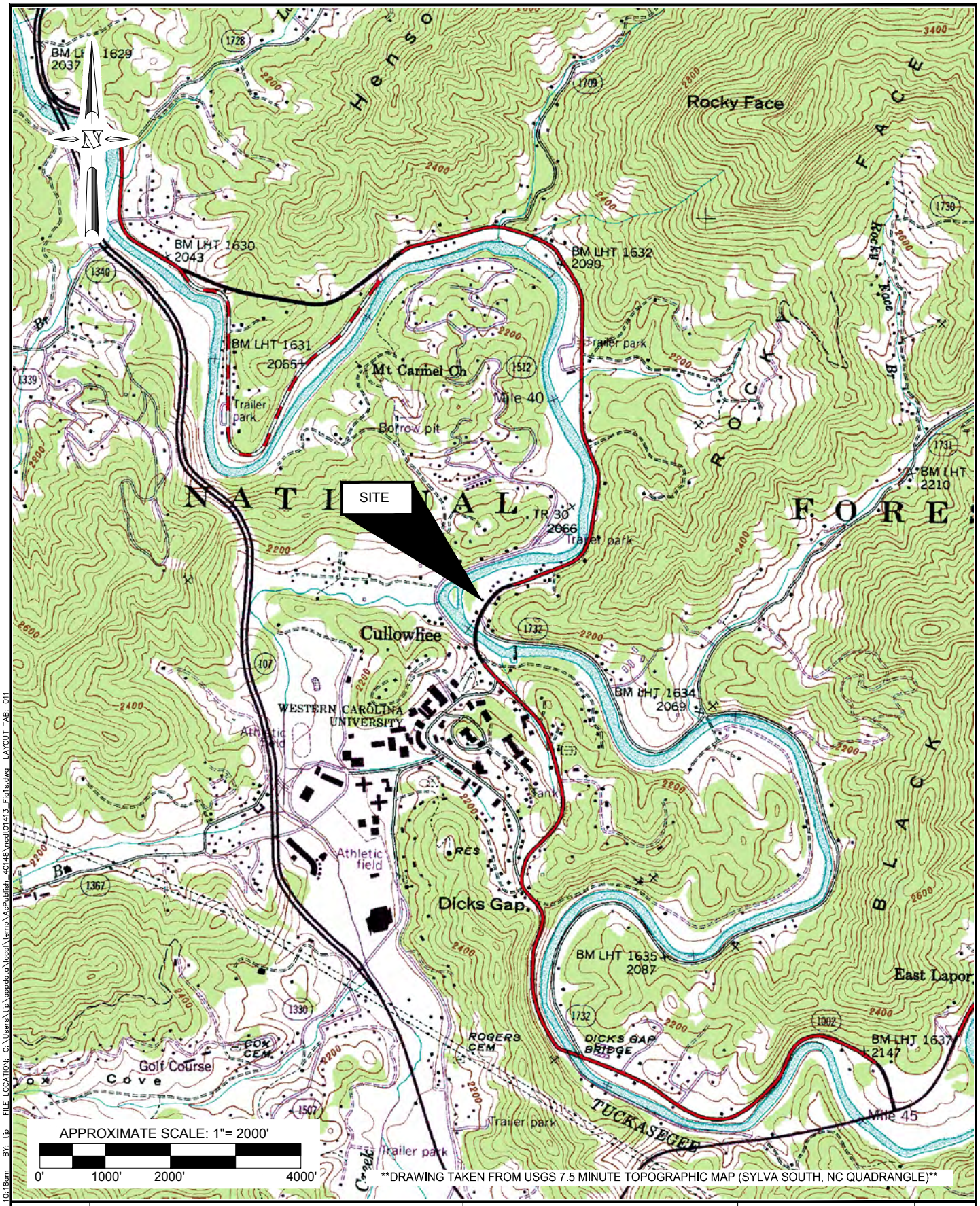
GEL performed a preliminary site assessment within the NCDOT westerly ROW and proposed easements adjacent to Parcel 011 that included a geophysical investigation, and the collection and analysis of soil samples. No subsurface anomalies indicative of suspected or known USTs were identified within the investigation area, and it has been concluded that there are no USTs present within the existing and proposed ROWs and proposed easements adjacent to the site.

Soil samples were collected for analysis from three borings, S11-1, S11-2, and S11-3, constructed within the preliminary site assessment investigation area. The soil samples were analyzed for petroleum hydrocarbon constituents. GRO was not detected in any of the samples, but a DRO levels exceeding the NCDENR action level of 10 mg/kg were detected in samples S11-2 and S11-3. In addition, one SVOC exceeding NCDENR MSCCs was detected sample S11-2.

Based on the detection of elevated DRO concentrations in the S11-2 and S11-3 soil samples, it is estimated that there is an approximate total volume of 415 cubic yards of impacted soil (DRO >10 mg/kg) in the vicinity of borings S11-2 and S11-3.

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 S11-2 and S11-3 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: 011

GEL Engineering LLC

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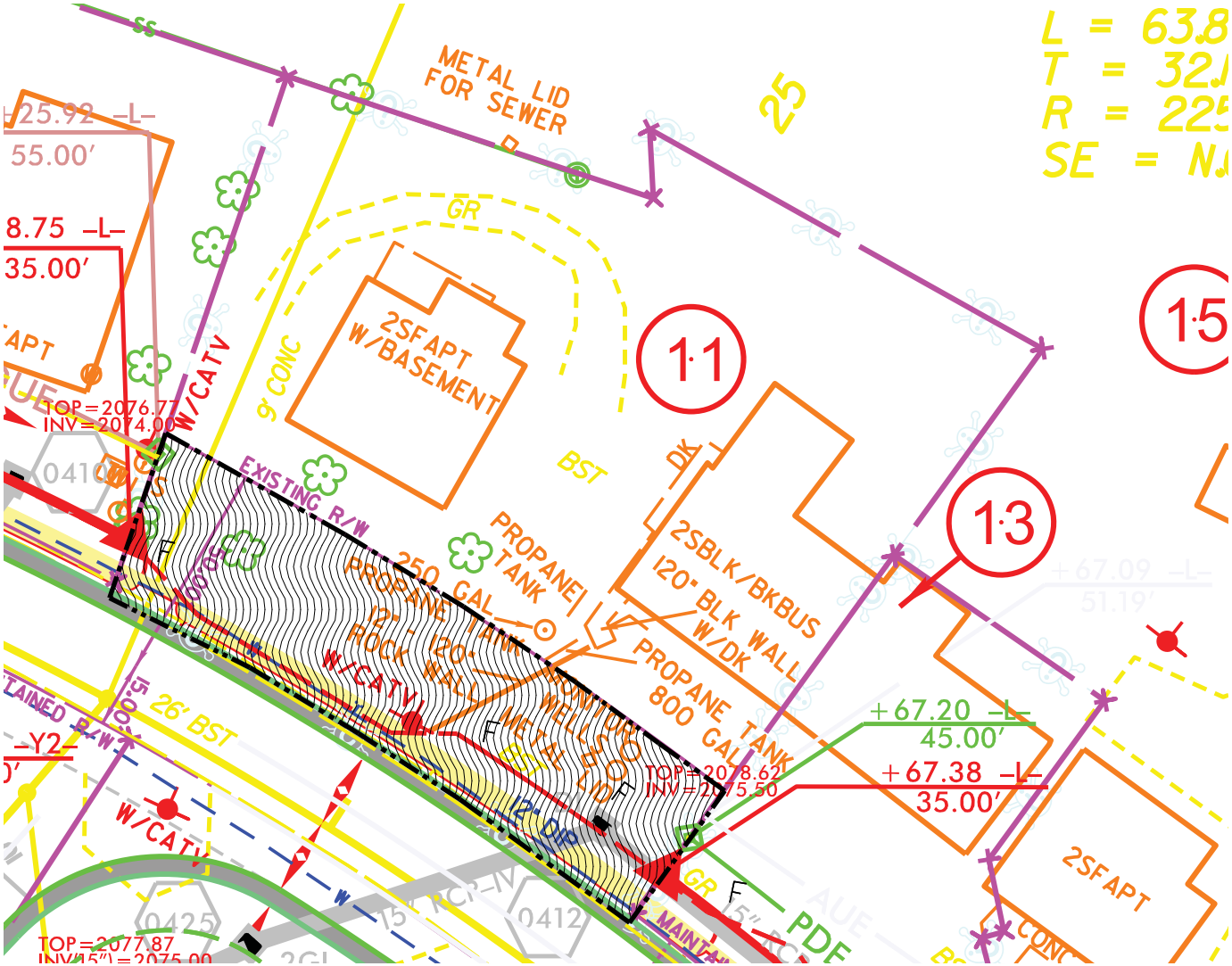
ENVIRONMENTAL ▪ ENGINEERING ▪ SURVEYING

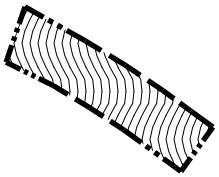
problem solved

P.O. Box 30712
Charleston, SC 29417
2040 Savage Road
Charleston, SC 29407
P (843) 769-7378
F (843) 769-7397
www.gel.com

PROJECT: ncdt01413			
PRELIMINARY SITE ASSESSMENT PARCEL 011 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	



PARCEL 011
INVESTIGATION AREA



SEE FIGURE 5 FOR SUPPLEMENTAL LEGEND FOR USE WITH FIGURE 2

GEL ENGINEERING of NC, Inc. *an Affiliate of THE GEL GROUP, Inc.* GEL Post Office Box 14262 Research Triangle Park, NC 27709 (919) 544-1100	PROJECT: ncdt01413		
	PRELIMINARY SITE ASSESSMENTS JACKSON COUNTY, NORTH CAROLINA TIP NO. B-4159, WBS ELEMENT NO. 33507.1.1	DESIGNATED INVESTIGATION AREA FOR PARCEL 011	FIGURE 2
	DATE: April 2, 2014	DRAWN BY: ADE	

SEE FIGURE 5 FOR SUPPLEMENTAL LEGEND FOR USE WITH FIGURE 3

EM RESPONSE IN mV CH-1

1200
1100
1000
900
800
700
600
500
400
300
200
100
0
-100

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"= 30'

0' 15' 30' 60'

PLOTTED: Apr 23, 2014 - 4:23pm BY: tjp FILE LOCATION: G:\...\ncdt\NCDT01413\ncdt01413.dwg LAYOUT TAB: 11-3

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Research Triangle Park, NC 27709
P 919-544-1100
F 919-406-1807
www.gel.com

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PRELIMINARY SITE ASSESSMENT
PARCEL 011
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 4

LEGEND

- S11-1 — SOIL BORING LOCATION
- MW11-1 — EXISTING MONITORING WELL LOCATION
- KNOWN SOIL CONTAMINATION

APPROXIMATE SCALE: 1"= 30'

0' 15' 30' 60'

PLOTTED: Apr 23, 2014 – 2:59pm BY: tjp FILE LOCATION: G:\L-PVM\ncdt\NCDT01413\ncdt01413.dwg LAYOUT TAB: 11-4

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problem solved

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P 919–544–1100
F 919–406-1807
www.gel.com

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PRELIMINARY SITE ASSESSMENT
PARCEL 011
CULLOWHEE, JACKSON COUNTY,
NORTH CAROLINA
TIP NO. B-4159, WBS ELEMENT NO. 33507.1.1

DATE: April 21, 2014

SITE MAP SHOWING LOCATIONS OF SOIL BORINGS AND EXISTING MONITORING WELLS

DRAWN BY: TJP APPRV. BY: ADE

FIGURE 4

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.

GEL

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

PROJECT: ncdt01413		
PRELIMIINARY SITE ASSESSMENT PARCEL 011 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 011, 3050 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**
S11-1	< 0.5	< 5.9	< 0.5	< 4.9	< 0.5	< 0.5	< 0.54	< 0.05	< 0.027
S11-2	37.4	< 6.6	< 1.1	< 6.6	< 0.5	37.4	28.99	0.94	0.16
S11-3	39.1	10.2	< 2.4	< 6.3	< 1.1	39.1	29.43	0.7	< 0.122
NCDENR Action Level	***10***	***10***	***10***	***10***					
NCDENR MSCC									***0.088***

Notes:

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

2) MSCC = NCDENR's Maximum Soil Contaminant Concentration Levels (April 2012); MSCC shown is the lowest of established Residential Soil Cleanup Levels and Soil-to-Groundwater Maximum Contaminant Concentration shown in the NCDENR MSCC Table for any given constituent.

3) Reported values exceeding corresponding NCDENR Action Levels or MSCCs are highlighted in yellow.

APPENDICES

APPENDIX I

PHOTOGRAPHS

Photograph 1: Aerial view showing boring locations S11-1, S11-2, and S11-3, and existing groundwater monitoring wells MW11-1 and MW11-2 on parcel 011. West is at the top of photo (aerial photo is from Google Earth).

APPENDIX II

SOIL BORING LITHOLOGIC LOGS

SOIL BORING LOG

Boring/Well No.: **S11-1**
Date Started: 12/16/13
Date Completed: 12/16/13

No.	Depth Interval	Blow Counts	PID (ppm)	Soil Description	Soil Type
1	0.0' – 3.0'	--	--	Brown Sandy Silt; Moist; Noncohesive	ML
2	3.0' – 4.0'	--	0.0	Brown Silty Sand; Moist; Noncohesive	SM
3	4.0' – 8.0'	--	0.0	Red/Brown Sandy Silt with Gravel-weathered; Moist; Increasing sand with depth	ML
4					
5				Total depth = 8 feet below land surface	
6					
7					
8					
9					
10					

Notes:

1) 4-foot continuous cores using DPT.

2) PID readings shown are for discrete samples collected at depth intervals of 3'– 4', and 7'– 8'

SOIL BORING LOG

Boring/Well No.: **S11-2**
Date Started: 12/17/13
Date Completed: 12/17/13

No.	Depth Interval	Blow Counts	PID (ppm)	Soil Description	Soil Type
1	0.0' – 4.0'	--	0.0	Red Brown Silty Sand with Gravel; Dry-Moist; Asphalt/gravel 0'-0.5'	ML
2	4.0' – 8.0'	--	0.0	Red Brown Silty Sand with Gravel; Moist; Noncohesive	ML
3					
4				Total depth = 8 feet below land surface	
5					
6					
7					
8					
9					
10					

Notes:

1) 4-foot continuous cores using DPT.

2) PID readings shown are for discrete samples collected at depth intervals of 3'– 4', and 7'– 8'

SOIL BORING LOG

Boring/Well No.: **S11-3**
Date Started: 12/17/13
Date Completed: 12/17/13

No.	Depth Interval	Blow Counts	PID (ppm)	Soil Description	Soil Type
1	0.0' – 4.0'	--	0.0	Red Silty Clay; Moist; Cohesive; Asphalt/gravel 0'-0.5'	CL
2	4.0' – 8.0'	--	0.0	Red Silty Clay; Moist; Cohesive	CL
3					
4				Total depth = 8 feet below land surface	
5					
6					
7					
8					
9					
10					

Notes:

1) 4-foot continuous cores using DPT.

2) PID readings shown are for discrete samples collected at depth intervals of 3'– 4', and 7'– 8'

APPENDIX III

Certificates of Analysis and Chain of Custody Records for Soil Samples and Groundwater Sample

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

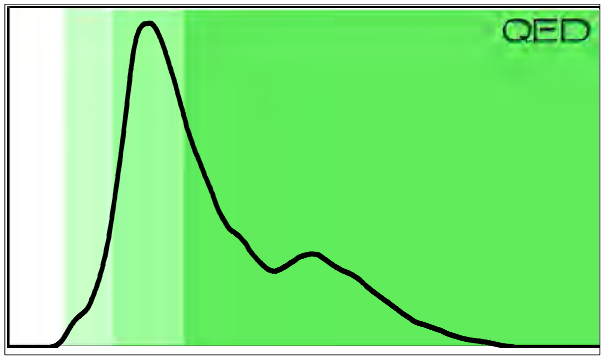
Fingerprints provide a tentative hydrocarbon identification based on operator selected library matches

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

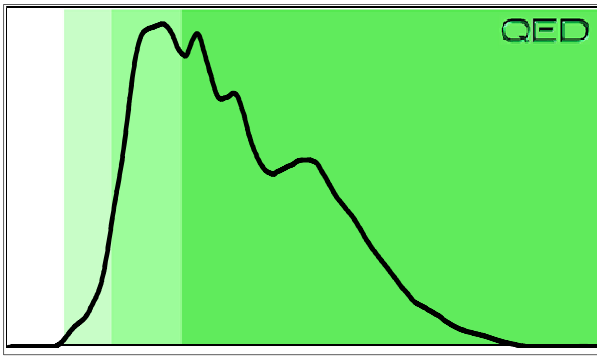
(SBS)= site specific background subracted (LBS)= Library background subtracted % = match confidence

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

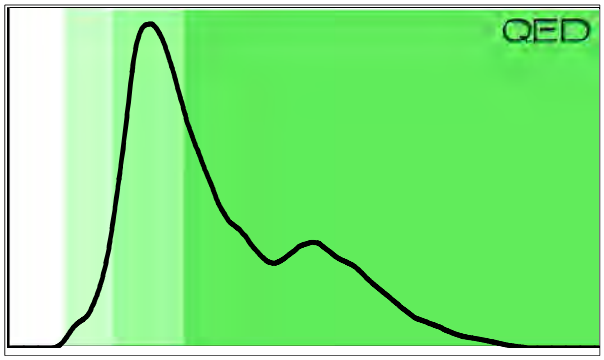
V.Deg.PHC 98.5% S-18-3



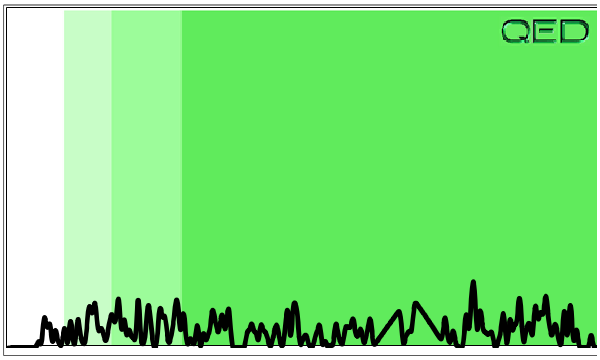
V.Deg.PHC 80.9% S-18-2



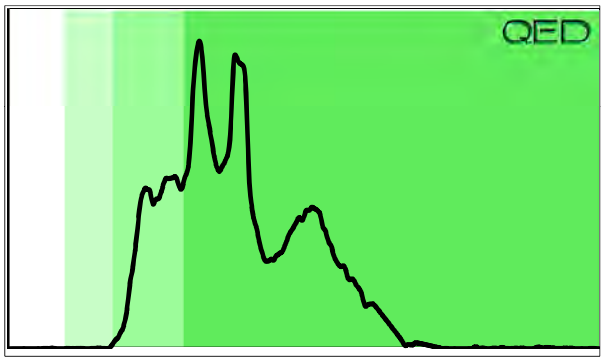
V.Deg.PHC 98.5% S-18-1



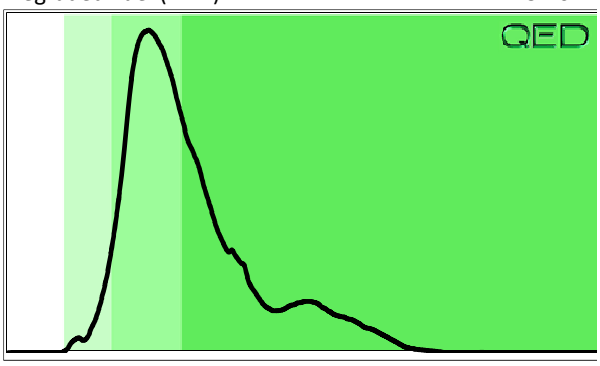
Deg.Fuel 700.2% S-19.1



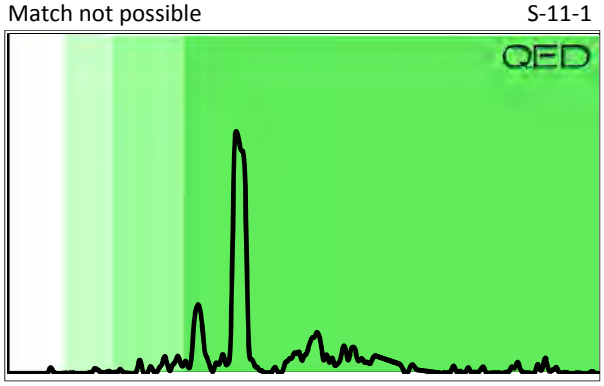
PAH S-20-2



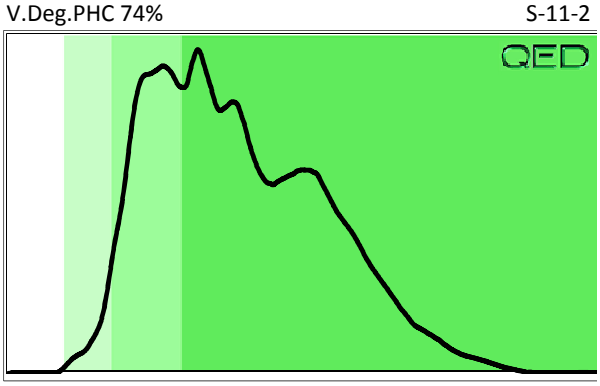
Degraded Fuel (PFM) S-20-1



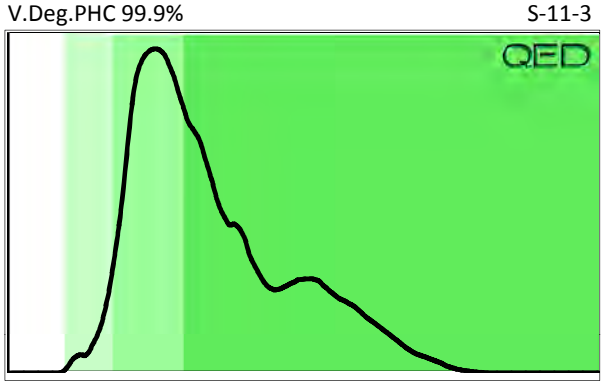
Match not possible S-11-1



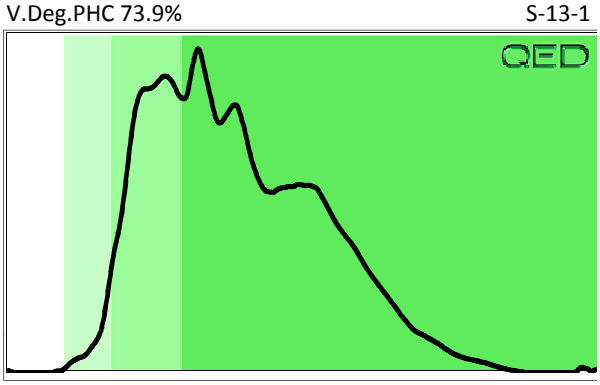
V.Deg.PHC 74% S-11-2



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



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



CHAIN-OF-CUSTODY RECORD

KB LABS 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
GEL ENG. of N.C.	B-4159, Cullowhee, N.C.
SAMPLERS	**CONTACT PERSON**
WSR, RSG	Andrew Eyer

BATCH # (Lab Use Only)

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: LUF	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
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 1200

Remarks and Observations

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

Pace Analytical Services Results

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

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

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

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

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

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

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

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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Eden, NC 27288
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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

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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205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

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

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

Results reported on a "dry-weight" basis

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

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205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

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

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

Results reported on a "dry-weight" basis

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

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Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

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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Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

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

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

Results reported on a "dry-weight" basis

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

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Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

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

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

Results reported on a "dry-weight" basis

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

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Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

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

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

Results reported on a "dry-weight" basis

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

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Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

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

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

Results reported on a "dry-weight" basis

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

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Huntersville, NC 28078
(704)875-9092

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

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

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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Pace Analytical Services, Inc.
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Eden, NC 27288
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Asheville, NC 28804
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Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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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Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

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

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

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

Pace Analytical Services, Inc.
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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
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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

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

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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Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
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Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

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

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

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

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
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Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

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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Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

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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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

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

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

Results reported on a "dry-weight" basis

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

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Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

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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205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

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

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

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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Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

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

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

Results reported on a "dry-weight" basis

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

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Pace Analytical Services, Inc.
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Huntersville, NC 28078
(704)875-9092

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

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

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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Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

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

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

Results reported on a "dry-weight" basis

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

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Eden, NC 27288
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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

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

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

Results reported on a "dry-weight" basis

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

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Pace Analytical
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Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
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Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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	

REPORT OF LABORATORY ANALYSIS

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

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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Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

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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Pace Analytical Services, Inc.
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Eden, NC 27288
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Asheville, NC 28804
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Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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	

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Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

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

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

Results reported on a "dry-weight" basis

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

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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Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
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Asheville, NC 28804
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Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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

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

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

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	

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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	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

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		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

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	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

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

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

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	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

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		

REPORT OF LABORATORY ANALYSIS

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205 East Meadow Road - Suite A
Eden, NC 27288
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Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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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Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

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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Pace Analytical
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Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
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Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

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

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

Results reported on a "dry-weight" basis

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

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Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
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Asheville, NC 28804
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Huntersville, NC 28078
(704)875-9092

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		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

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

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

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	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

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	

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Pace Analytical Services, Inc.
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Eden, NC 27288
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Huntersville, NC 28078
(704)875-9092

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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www.pacelabs.com

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Huntersville, NC 28078
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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

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

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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Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

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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Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

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		

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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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9800 Kincey Ave. Suite 100
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(704)875-9092

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	

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

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

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

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	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

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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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

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	

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

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

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

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

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

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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Eden, NC 27288
(336)623-8921

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Asheville, NC 28804
(828)254-7176

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

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	

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Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

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	

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

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

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

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

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

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		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

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

SAMPLE DUPLICATE: 1112265

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

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205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

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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205 East Meadow Road - Suite A
Eden, NC 27288
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Asheville, NC 28804
(828)254-7176

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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	

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

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

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

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

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

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

LABORATORY CONTROL SAMPLE: 1112342

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

MATRIX SPIKE SAMPLE: 1112885

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

SAMPLE DUPLICATE: 1112884

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

REPORT OF LABORATORY ANALYSIS

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205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

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	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

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	

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Huntersville, NC 28078
(704)875-9092

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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Asheville, NC 28804
(828)254-7176

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

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	

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

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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Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

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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Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

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	

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Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
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Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

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		

REPORT OF LABORATORY ANALYSIS

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Eden, NC 27288
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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

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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(704)875-9092

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	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

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

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

SAMPLE DUPLICATE: 1110278

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

SAMPLE DUPLICATE: 1110279

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

REPORT OF LABORATORY ANALYSIS

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Asheville, NC 28804
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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		

REPORT OF LABORATORY ANALYSIS

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Eden, NC 27288
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Asheville, NC 28804
(828)254-7176

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Huntersville, NC 28078
(704)875-9092

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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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

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

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:

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: 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

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 (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)
	Steve Rucker GEL	12/18/13	1400	[illegible]	12/19/13	1115	1.4	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Steve Rucker

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

*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.

Groundwater Sample form Monitoring Well MW11-1

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

December 31, 2013

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

RE: Project: B-4159 WBS33507.1.1
Pace Project No.: 92184131

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: B-4159 WBS33507.1.1
Pace Project No.: 92184131

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: B-4159 WBS33507.1.1
Pace Project No.: 92184131

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92184131001	**MW-11-1**	EPA 8270	BPJ	74	PASI-C
		EPA 8260	MCK	71	PASI-C

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: B-4159 WBS33507.1.1
Pace Project No.: 92184131

Sample: MW-11-1 **Lab ID: 92184131001** Collected: 12/19/13 13:50 Received: 12/19/13 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	10.0	1	12/20/13 09:20	12/23/13 17:43	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1	12/20/13 09:20	12/23/13 17:43	208-96-8	
Aniline	ND	ug/L	10.0	1	12/20/13 09:20	12/23/13 17:43	62-53-3	
Anthracene	ND	ug/L	10.0	1	12/20/13 09:20	12/23/13 17:43	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	1	12/20/13 09:20	12/23/13 17:43	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	1	12/20/13 09:20	12/23/13 17:43	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	1	12/20/13 09:20	12/23/13 17:43	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	1	12/20/13 09:20	12/23/13 17:43	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	1	12/20/13 09:20	12/23/13 17:43	207-08-9	
Benzoic Acid	ND	ug/L	50.0	1	12/20/13 09:20	12/23/13 17:43	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	1	12/20/13 09:20	12/23/13 17:43	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1	12/20/13 09:20	12/23/13 17:43	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	1	12/20/13 09:20	12/23/13 17:43	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	1	12/20/13 09:20	12/23/13 17:43	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	1	12/20/13 09:20	12/23/13 17:43	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1	12/20/13 09:20	12/23/13 17:43	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1	12/20/13 09:20	12/23/13 17:43	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	10.0	1	12/20/13 09:20	12/23/13 17:43	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.0	1	12/20/13 09:20	12/23/13 17:43	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1	12/20/13 09:20	12/23/13 17:43	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1	12/20/13 09:20	12/23/13 17:43	7005-72-3	
Chrysene	ND	ug/L	10.0	1	12/20/13 09:20	12/23/13 17:43	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	1	12/20/13 09:20	12/23/13 17:43	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1	12/20/13 09:20	12/23/13 17:43	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1	12/20/13 09:20	12/23/13 17:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1	12/20/13 09:20	12/23/13 17:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1	12/20/13 09:20	12/23/13 17:43	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	1	12/20/13 09:20	12/23/13 17:43	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1	12/20/13 09:20	12/23/13 17:43	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1	12/20/13 09:20	12/23/13 17:43	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1	12/20/13 09:20	12/23/13 17:43	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1	12/20/13 09:20	12/23/13 17:43	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1	12/20/13 09:20	12/23/13 17:43	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1	12/20/13 09:20	12/23/13 17:43	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	1	12/20/13 09:20	12/23/13 17:43	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	1	12/20/13 09:20	12/23/13 17:43	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1	12/20/13 09:20	12/23/13 17:43	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	1	12/20/13 09:20	12/23/13 17:43	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	1	12/20/13 09:20	12/23/13 17:43	117-81-7	
Fluoranthene	ND	ug/L	10.0	1	12/20/13 09:20	12/23/13 17:43	206-44-0	
Fluorene	ND	ug/L	10.0	1	12/20/13 09:20	12/23/13 17:43	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1	12/20/13 09:20	12/23/13 17:43	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1	12/20/13 09:20	12/23/13 17:43	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1	12/20/13 09:20	12/23/13 17:43	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1	12/20/13 09:20	12/23/13 17:43	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1	12/20/13 09:20	12/23/13 17:43	193-39-5	
Isophorone	ND	ug/L	10.0	1	12/20/13 09:20	12/23/13 17:43	78-59-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: B-4159 WBS33507.1.1
Pace Project No.: 92184131

Sample: MW-11-1 **Lab ID: 92184131001** Collected: 12/19/13 13:50 Received: 12/19/13 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
1-Methylnaphthalene	ND	ug/L	10.0	1	12/20/13 09:20	12/23/13 17:43	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	1	12/20/13 09:20	12/23/13 17:43	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1	12/20/13 09:20	12/23/13 17:43	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	12/20/13 09:20	12/23/13 17:43		
Naphthalene	ND	ug/L	10.0	1	12/20/13 09:20	12/23/13 17:43	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	1	12/20/13 09:20	12/23/13 17:43	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	1	12/20/13 09:20	12/23/13 17:43	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	1	12/20/13 09:20	12/23/13 17:43	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1	12/20/13 09:20	12/23/13 17:43	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1	12/20/13 09:20	12/23/13 17:43	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	1	12/20/13 09:20	12/23/13 17:43	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1	12/20/13 09:20	12/23/13 17:43	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1	12/20/13 09:20	12/23/13 17:43	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1	12/20/13 09:20	12/23/13 17:43	86-30-6	
Pentachlorophenol	ND	ug/L	25.0	1	12/20/13 09:20	12/23/13 17:43	87-86-5	
Phenanthrene	ND	ug/L	10.0	1	12/20/13 09:20	12/23/13 17:43	85-01-8	
Phenol	ND	ug/L	10.0	1	12/20/13 09:20	12/23/13 17:43	108-95-2	
Pyrene	ND	ug/L	10.0	1	12/20/13 09:20	12/23/13 17:43	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1	12/20/13 09:20	12/23/13 17:43	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1	12/20/13 09:20	12/23/13 17:43	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1	12/20/13 09:20	12/23/13 17:43	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	25	%	21-110	1	12/20/13 09:20	12/23/13 17:43	4165-60-0	
2-Fluorobiphenyl (S)	25	%	27-110	1	12/20/13 09:20	12/23/13 17:43	321-60-8	S0
Terphenyl-d14 (S)	67	%	31-107	1	12/20/13 09:20	12/23/13 17:43	1718-51-0	
Phenol-d6 (S)	8	%	10-110	1	12/20/13 09:20	12/23/13 17:43	13127-88-3	S0
2-Fluorophenol (S)	13	%	12-110	1	12/20/13 09:20	12/23/13 17:43	367-12-4	
2,4,6-Tribromophenol (S)	61	%	27-110	1	12/20/13 09:20	12/23/13 17:43	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		12/30/13 20:22	67-64-1	
Benzene	ND	ug/L	5.0	1		12/30/13 20:22	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		12/30/13 20:22	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		12/30/13 20:22	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		12/30/13 20:22	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/30/13 20:22	75-25-2	
Bromomethane	ND	ug/L	10.0	1		12/30/13 20:22	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/30/13 20:22	78-93-3	
tert-Butyl Alcohol	ND	ug/L	100	1		12/30/13 20:22	75-65-0	
n-Butylbenzene	ND	ug/L	5.0	1		12/30/13 20:22	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		12/30/13 20:22	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		12/30/13 20:22	98-06-6	
Carbon tetrachloride	ND	ug/L	5.0	1		12/30/13 20:22	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/30/13 20:22	108-90-7	
Chloroethane	ND	ug/L	10.0	1		12/30/13 20:22	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/30/13 20:22	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/30/13 20:22	74-87-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: B-4159 WBS33507.1.1
Pace Project No.: 92184131

Sample: MW-11-1 **Lab ID: 92184131001** Collected: 12/19/13 13:50 Received: 12/19/13 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
2-Chlorotoluene	ND	ug/L	5.0	1		12/30/13 20:22	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		12/30/13 20:22	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		12/30/13 20:22	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		12/30/13 20:22	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/30/13 20:22	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		12/30/13 20:22	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/30/13 20:22	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/30/13 20:22	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/30/13 20:22	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		12/30/13 20:22	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/30/13 20:22	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/30/13 20:22	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	5.0	1		12/30/13 20:22	540-59-0	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/30/13 20:22	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		12/30/13 20:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/30/13 20:22	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/30/13 20:22	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		12/30/13 20:22	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		12/30/13 20:22	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		12/30/13 20:22	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/30/13 20:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/30/13 20:22	10061-02-6	
Diisopropyl ether	ND	ug/L	5.0	1		12/30/13 20:22	108-20-3	
Ethylbenzene	ND	ug/L	5.0	1		12/30/13 20:22	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		12/30/13 20:22	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		12/30/13 20:22	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		12/30/13 20:22	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		12/30/13 20:22	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		12/30/13 20:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/30/13 20:22	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		12/30/13 20:22	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/30/13 20:22	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		12/30/13 20:22	103-65-1	
Styrene	ND	ug/L	5.0	1		12/30/13 20:22	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		12/30/13 20:22	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/30/13 20:22	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/30/13 20:22	127-18-4	
Toluene	ND	ug/L	5.0	1		12/30/13 20:22	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		12/30/13 20:22	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		12/30/13 20:22	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/30/13 20:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/30/13 20:22	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		12/30/13 20:22	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		12/30/13 20:22	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		12/30/13 20:22	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		12/30/13 20:22	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		12/30/13 20:22	108-67-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

Project: B-4159 WBS33507.1.1
Pace Project No.: 92184131

Sample: MW-11-1 **Lab ID: 92184131001** Collected: 12/19/13 13:50 Received: 12/19/13 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Vinyl acetate	ND	ug/L	10.0	1		12/30/13 20:22	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1		12/30/13 20:22	75-01-4	
m&p-Xylene	ND	ug/L	10.0	1		12/30/13 20:22	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		12/30/13 20:22	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		12/30/13 20:22	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		12/30/13 20:22	17060-07-0	
Toluene-d8 (S)	94	%	70-130	1		12/30/13 20:22	2037-26-5	

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: B-4159 WBS33507.1.1
Pace Project No.: 92184131

QC Batch: MSV/25386
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Associated Lab Samples: 92184131001

METHOD BLANK: 1113874
Matrix: Water
Associated Lab Samples: 92184131001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	12/30/13 12:50	
1,1,1-Trichloroethane	ug/L	ND	5.0	12/30/13 12:50	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	12/30/13 12:50	
1,1,2-Trichloroethane	ug/L	ND	5.0	12/30/13 12:50	
1,1-Dichloroethane	ug/L	ND	5.0	12/30/13 12:50	
1,1-Dichloroethene	ug/L	ND	5.0	12/30/13 12:50	
1,1-Dichloropropene	ug/L	ND	5.0	12/30/13 12:50	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	12/30/13 12:50	
1,2,3-Trichloropropane	ug/L	ND	5.0	12/30/13 12:50	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	12/30/13 12:50	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	12/30/13 12:50	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	12/30/13 12:50	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	12/30/13 12:50	
1,2-Dichlorobenzene	ug/L	ND	5.0	12/30/13 12:50	
1,2-Dichloroethane	ug/L	ND	5.0	12/30/13 12:50	
1,2-Dichloroethene (Total)	ug/L	ND	5.0	12/30/13 12:50	
1,2-Dichloropropane	ug/L	ND	5.0	12/30/13 12:50	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	12/30/13 12:50	
1,3-Dichlorobenzene	ug/L	ND	5.0	12/30/13 12:50	
1,3-Dichloropropane	ug/L	ND	5.0	12/30/13 12:50	
1,4-Dichlorobenzene	ug/L	ND	5.0	12/30/13 12:50	
2,2-Dichloropropane	ug/L	ND	5.0	12/30/13 12:50	
2-Butanone (MEK)	ug/L	ND	10.0	12/30/13 12:50	
2-Chlorotoluene	ug/L	ND	5.0	12/30/13 12:50	
2-Hexanone	ug/L	ND	10.0	12/30/13 12:50	
4-Chlorotoluene	ug/L	ND	5.0	12/30/13 12:50	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	12/30/13 12:50	
Acetone	ug/L	ND	25.0	12/30/13 12:50	
Benzene	ug/L	ND	5.0	12/30/13 12:50	
Bromobenzene	ug/L	ND	5.0	12/30/13 12:50	
Bromochloromethane	ug/L	ND	5.0	12/30/13 12:50	
Bromodichloromethane	ug/L	ND	5.0	12/30/13 12:50	
Bromoform	ug/L	ND	5.0	12/30/13 12:50	
Bromomethane	ug/L	ND	10.0	12/30/13 12:50	
Carbon tetrachloride	ug/L	ND	5.0	12/30/13 12:50	
Chlorobenzene	ug/L	ND	5.0	12/30/13 12:50	
Chloroethane	ug/L	ND	10.0	12/30/13 12:50	
Chloroform	ug/L	ND	5.0	12/30/13 12:50	
Chloromethane	ug/L	ND	5.0	12/30/13 12:50	
cis-1,2-Dichloroethene	ug/L	ND	5.0	12/30/13 12:50	
cis-1,3-Dichloropropene	ug/L	ND	5.0	12/30/13 12:50	
Dibromochloromethane	ug/L	ND	5.0	12/30/13 12:50	
Dibromomethane	ug/L	ND	5.0	12/30/13 12:50	

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Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: B-4159 WBS33507.1.1
Pace Project No.: 92184131

METHOD BLANK: 1113874 Matrix: Water
Associated Lab Samples: 92184131001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	5.0	12/30/13 12:50	
Diisopropyl ether	ug/L	ND	5.0	12/30/13 12:50	
Ethylbenzene	ug/L	ND	5.0	12/30/13 12:50	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	12/30/13 12:50	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	12/30/13 12:50	
m&p-Xylene	ug/L	ND	10.0	12/30/13 12:50	
Methyl-tert-butyl ether	ug/L	ND	5.0	12/30/13 12:50	
Methylene Chloride	ug/L	ND	5.0	12/30/13 12:50	
n-Butylbenzene	ug/L	ND	5.0	12/30/13 12:50	
n-Propylbenzene	ug/L	ND	5.0	12/30/13 12:50	
Naphthalene	ug/L	ND	5.0	12/30/13 12:50	
o-Xylene	ug/L	ND	5.0	12/30/13 12:50	
p-Isopropyltoluene	ug/L	ND	5.0	12/30/13 12:50	
sec-Butylbenzene	ug/L	ND	5.0	12/30/13 12:50	
Styrene	ug/L	ND	5.0	12/30/13 12:50	
tert-Butyl Alcohol	ug/L	ND	100	12/30/13 12:50	
tert-Butylbenzene	ug/L	ND	5.0	12/30/13 12:50	
Tetrachloroethene	ug/L	ND	5.0	12/30/13 12:50	
Toluene	ug/L	ND	5.0	12/30/13 12:50	
trans-1,2-Dichloroethene	ug/L	ND	5.0	12/30/13 12:50	
trans-1,3-Dichloropropene	ug/L	ND	5.0	12/30/13 12:50	
Trichloroethene	ug/L	ND	5.0	12/30/13 12:50	
Trichlorofluoromethane	ug/L	ND	10.0	12/30/13 12:50	
Vinyl acetate	ug/L	ND	10.0	12/30/13 12:50	
Vinyl chloride	ug/L	ND	5.0	12/30/13 12:50	
1,2-Dichloroethane-d4 (S)	%	110	70-130	12/30/13 12:50	
4-Bromofluorobenzene (S)	%	104	70-130	12/30/13 12:50	
Toluene-d8 (S)	%	99	70-130	12/30/13 12:50	

LABORATORY CONTROL SAMPLE: 1113875

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.7	103	70-130	
1,1,1-Trichloroethane	ug/L	50	46.4	93	70-137	
1,1,2,2-Tetrachloroethane	ug/L	50	45.2	90	70-130	
1,1,2-Trichloroethane	ug/L	50	46.8	94	70-130	
1,1-Dichloroethane	ug/L	50	45.3	91	70-137	
1,1-Dichloroethene	ug/L	50	49.6	99	70-138	
1,1-Dichloropropene	ug/L	50	48.3	97	70-130	
1,2,3-Trichlorobenzene	ug/L	50	48.2	96	70-143	
1,2,3-Trichloropropane	ug/L	50	44.1	88	70-130	
1,2,4-Trichlorobenzene	ug/L	50	49.4	99	70-138	
1,2,4-Trimethylbenzene	ug/L	50	48.9	98	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	43.9	88	68-134	
1,2-Dibromoethane (EDB)	ug/L	50	49.9	100	70-130	

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: B-4159 WBS33507.1.1
Pace Project No.: 92184131

LABORATORY CONTROL SAMPLE: 1113875

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/L	50	48.4	97	70-130	
1,2-Dichloroethane	ug/L	50	44.8	90	70-133	
1,2-Dichloroethene (Total)	ug/L	100	87.3	87	70-130	
1,2-Dichloropropane	ug/L	50	46.1	92	70-130	
1,3,5-Trimethylbenzene	ug/L	50	48.3	97	70-130	
1,3-Dichlorobenzene	ug/L	50	46.3	93	70-130	
1,3-Dichloropropane	ug/L	50	49.6	99	70-130	
1,4-Dichlorobenzene	ug/L	50	47.5	95	70-130	
2,2-Dichloropropane	ug/L	50	47.5	95	61-142	
2-Butanone (MEK)	ug/L	100	83.4	83	63-150	
2-Chlorotoluene	ug/L	50	44.3	89	70-130	
2-Hexanone	ug/L	100	74.3	74	70-137	
4-Chlorotoluene	ug/L	50	46.4	93	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	74.7	75	70-134	
Acetone	ug/L	100	69.5	69	68-160	
Benzene	ug/L	50	47.3	95	70-130	
Bromobenzene	ug/L	50	44.1	88	70-130	
Bromochloromethane	ug/L	50	46.8	94	70-135	
Bromodichloromethane	ug/L	50	47.4	95	70-130	
Bromoform	ug/L	50	53.4	107	70-130	
Bromomethane	ug/L	50	52.4	105	63-130	
Carbon tetrachloride	ug/L	50	46.5	93	70-146	
Chlorobenzene	ug/L	50	47.2	94	70-130	
Chloroethane	ug/L	50	45.6	91	60-151	
Chloroform	ug/L	50	44.2	88	70-130	
Chloromethane	ug/L	50	54.2	108	65-133	
cis-1,2-Dichloroethene	ug/L	50	43.8	88	70-134	
cis-1,3-Dichloropropene	ug/L	50	47.6	95	70-130	
Dibromochloromethane	ug/L	50	52.5	105	70-130	
Dibromomethane	ug/L	50	46.8	94	70-130	
Dichlorodifluoromethane	ug/L	50	64.4	129	66-130	
Diisopropyl ether	ug/L	50	45.2	90	70-133	
Ethylbenzene	ug/L	50	45.0	90	70-130	
Hexachloro-1,3-butadiene	ug/L	50	49.1	98	58-151	
Isopropylbenzene (Cumene)	ug/L	50	47.8	96	70-130	
m&p-Xylene	ug/L	100	94.8	95	70-130	
Methyl-tert-butyl ether	ug/L	50	47.8	96	70-136	
Methylene Chloride	ug/L	50	45.1	90	70-130	
n-Butylbenzene	ug/L	50	49.3	99	70-130	
n-Propylbenzene	ug/L	50	46.5	93	70-130	
Naphthalene	ug/L	50	43.5	87	70-139	
o-Xylene	ug/L	50	48.7	97	70-130	
p-Isopropyltoluene	ug/L	50	48.6	97	70-130	
sec-Butylbenzene	ug/L	50	47.9	96	70-130	
Styrene	ug/L	50	49.3	99	70-130	
tert-Butyl Alcohol	ug/L	500	412	82	69-151	
tert-Butylbenzene	ug/L	50	47.9	96	70-130	
Tetrachloroethene	ug/L	50	51.2	102	70-130	

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Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: B-4159 WBS33507.1.1
Pace Project No.: 92184131

LABORATORY CONTROL SAMPLE: 1113875

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	50	44.3	89	70-130	
trans-1,2-Dichloroethene	ug/L	50	43.5	87	70-130	
trans-1,3-Dichloropropene	ug/L	50	47.6	95	70-130	
Trichloroethene	ug/L	50	47.0	94	70-130	
Trichlorofluoromethane	ug/L	50	46.1	92	70-130	
Vinyl acetate	ug/L	100	101	101	67-148	
Vinyl chloride	ug/L	50	55.9	112	67-133	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE SAMPLE: 1114789

Parameter	Units	92184117007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	ND	50	56.4	113	65-160	
Benzene	ug/L	ND	50	56.6	113	58-162	
Chlorobenzene	ug/L	ND	50	57.2	114	70-138	
Toluene	ug/L	ND	50	53.5	107	65-152	
Trichloroethene	ug/L	ND	50	54.0	108	70-142	
1,2-Dichloroethane-d4 (S)	%				102	70-130	
4-Bromofluorobenzene (S)	%				93	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 1114790

Parameter	Units	92184117008 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		
1,1,1-Trichloroethane	ug/L	ND	ND		
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		
1,1,2-Trichloroethane	ug/L	ND	ND		
1,1-Dichloroethane	ug/L	ND	ND		
1,1-Dichloroethene	ug/L	ND	ND		
1,1-Dichloropropene	ug/L	ND	ND		
1,2,3-Trichlorobenzene	ug/L	ND	ND		
1,2,3-Trichloropropane	ug/L	ND	ND		
1,2,4-Trichlorobenzene	ug/L	ND	ND		
1,2,4-Trimethylbenzene	ug/L	ND	ND		
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		
1,2-Dibromoethane (EDB)	ug/L	ND	ND		
1,2-Dichlorobenzene	ug/L	ND	ND		
1,2-Dichloroethane	ug/L	ND	ND		
1,2-Dichloroethene (Total)	ug/L	ND	ND		
1,2-Dichloropropane	ug/L	ND	ND		
1,3,5-Trimethylbenzene	ug/L	ND	ND		
1,3-Dichlorobenzene	ug/L	ND	ND		

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Huntersville, NC 28078
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QUALITY CONTROL DATA

Project: B-4159 WBS33507.1.1
Pace Project No.: 92184131

SAMPLE DUPLICATE: 1114790

Parameter	Units	92184117008 Result	Dup Result	RPD	Qualifiers
1,3-Dichloropropane	ug/L	ND	ND		
1,4-Dichlorobenzene	ug/L	ND	ND		
2,2-Dichloropropane	ug/L	ND	ND		
2-Butanone (MEK)	ug/L	ND	ND		
2-Chlorotoluene	ug/L	ND	ND		
2-Hexanone	ug/L	ND	ND		
4-Chlorotoluene	ug/L	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		
Acetone	ug/L	ND	ND		
Benzene	ug/L	ND	ND		
Bromobenzene	ug/L	ND	ND		
Bromochloromethane	ug/L	ND	ND		
Bromodichloromethane	ug/L	ND	ND		
Bromoform	ug/L	ND	ND		
Bromomethane	ug/L	ND	ND		
Carbon tetrachloride	ug/L	ND	ND		
Chlorobenzene	ug/L	ND	ND		
Chloroethane	ug/L	ND	ND		
Chloroform	ug/L	ND	ND		
Chloromethane	ug/L	ND	ND		
cis-1,2-Dichloroethene	ug/L	ND	ND		
cis-1,3-Dichloropropene	ug/L	ND	ND		
Dibromochloromethane	ug/L	ND	ND		
Dibromomethane	ug/L	ND	ND		
Dichlorodifluoromethane	ug/L	ND	ND		
Diisopropyl ether	ug/L	ND	ND		
Ethylbenzene	ug/L	ND	ND		
Hexachloro-1,3-butadiene	ug/L	ND	ND		
Isopropylbenzene (Cumene)	ug/L	ND	ND		
m&p-Xylene	ug/L	ND	ND		
Methyl-tert-butyl ether	ug/L	ND	ND		
Methylene Chloride	ug/L	ND	ND		
n-Butylbenzene	ug/L	ND	ND		
n-Propylbenzene	ug/L	ND	ND		
Naphthalene	ug/L	ND	ND		
o-Xylene	ug/L	ND	ND		
p-Isopropyltoluene	ug/L	ND	ND		
sec-Butylbenzene	ug/L	ND	ND		
Styrene	ug/L	ND	ND		
tert-Butyl Alcohol	ug/L	ND	ND		
tert-Butylbenzene	ug/L	ND	ND		
Tetrachloroethene	ug/L	ND	ND		
Toluene	ug/L	ND	ND		
trans-1,2-Dichloroethene	ug/L	ND	ND		
trans-1,3-Dichloropropene	ug/L	ND	ND		
Trichloroethene	ug/L	ND	ND		
Trichlorofluoromethane	ug/L	ND	ND		
Vinyl acetate	ug/L	ND	ND		

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: B-4159 WBS33507.1.1
Pace Project No.: 92184131

SAMPLE DUPLICATE: 1114790

Parameter	Units	92184117008 Result	Dup Result	RPD	Qualifiers
Vinyl chloride	ug/L	ND	ND		
1,2-Dichloroethane-d4 (S)	%	95	110	14	
4-Bromofluorobenzene (S)	%	102	92	11	
Toluene-d8 (S)	%	111	102	9	

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Huntersville, NC 28078
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QUALITY CONTROL DATA

Project: B-4159 WBS33507.1.1
Pace Project No.: 92184131

QC Batch: OEXT/25285
QC Batch Method: EPA 3510
Analysis Method: EPA 8270
Analysis Description: 8270 Water MSSV
Associated Lab Samples: 92184131001

METHOD BLANK: 1110272
Matrix: Water
Associated Lab Samples: 92184131001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	10.0	12/23/13 13:03	
1,2-Dichlorobenzene	ug/L	ND	10.0	12/23/13 13:03	
1,3-Dichlorobenzene	ug/L	ND	10.0	12/23/13 13:03	
1,4-Dichlorobenzene	ug/L	ND	10.0	12/23/13 13:03	
1-Methylnaphthalene	ug/L	ND	10.0	12/23/13 13:03	
2,4,5-Trichlorophenol	ug/L	ND	10.0	12/23/13 13:03	
2,4,6-Trichlorophenol	ug/L	ND	10.0	12/23/13 13:03	
2,4-Dichlorophenol	ug/L	ND	10.0	12/23/13 13:03	
2,4-Dimethylphenol	ug/L	ND	10.0	12/23/13 13:03	
2,4-Dinitrophenol	ug/L	ND	50.0	12/23/13 13:03	
2,4-Dinitrotoluene	ug/L	ND	10.0	12/23/13 13:03	
2,6-Dinitrotoluene	ug/L	ND	10.0	12/23/13 13:03	
2-Chloronaphthalene	ug/L	ND	10.0	12/23/13 13:03	
2-Chlorophenol	ug/L	ND	10.0	12/23/13 13:03	
2-Methylnaphthalene	ug/L	ND	10.0	12/23/13 13:03	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	12/23/13 13:03	
2-Nitroaniline	ug/L	ND	50.0	12/23/13 13:03	
2-Nitrophenol	ug/L	ND	10.0	12/23/13 13:03	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	12/23/13 13:03	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	12/23/13 13:03	
3-Nitroaniline	ug/L	ND	50.0	12/23/13 13:03	
4,6-Dinitro-2-methylphenol	ug/L	ND	20.0	12/23/13 13:03	
4-Bromophenylphenyl ether	ug/L	ND	10.0	12/23/13 13:03	
4-Chloro-3-methylphenol	ug/L	ND	20.0	12/23/13 13:03	
4-Chloroaniline	ug/L	ND	20.0	12/23/13 13:03	
4-Chlorophenylphenyl ether	ug/L	ND	10.0	12/23/13 13:03	
4-Nitroaniline	ug/L	ND	20.0	12/23/13 13:03	
4-Nitrophenol	ug/L	ND	50.0	12/23/13 13:03	
Acenaphthene	ug/L	ND	10.0	12/23/13 13:03	
Acenaphthylene	ug/L	ND	10.0	12/23/13 13:03	
Aniline	ug/L	ND	10.0	12/23/13 13:03	
Anthracene	ug/L	ND	10.0	12/23/13 13:03	
Benzo(a)anthracene	ug/L	ND	10.0	12/23/13 13:03	
Benzo(a)pyrene	ug/L	ND	10.0	12/23/13 13:03	
Benzo(b)fluoranthene	ug/L	ND	10.0	12/23/13 13:03	
Benzo(g,h,i)perylene	ug/L	ND	10.0	12/23/13 13:03	
Benzo(k)fluoranthene	ug/L	ND	10.0	12/23/13 13:03	
Benzoic Acid	ug/L	ND	50.0	12/23/13 13:03	
Benzyl alcohol	ug/L	ND	20.0	12/23/13 13:03	
bis(2-Chloroethoxy)methane	ug/L	ND	10.0	12/23/13 13:03	
bis(2-Chloroethyl) ether	ug/L	ND	10.0	12/23/13 13:03	
bis(2-Chloroisopropyl) ether	ug/L	ND	10.0	12/23/13 13:03	
bis(2-Ethylhexyl)phthalate	ug/L	ND	6.0	12/23/13 13:03	

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: B-4159 WBS33507.1.1
Pace Project No.: 92184131

METHOD BLANK: 1110272 Matrix: Water
Associated Lab Samples: 92184131001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Butylbenzylphthalate	ug/L	ND	10.0	12/23/13 13:03	
Chrysene	ug/L	ND	10.0	12/23/13 13:03	
Di-n-butylphthalate	ug/L	ND	10.0	12/23/13 13:03	
Di-n-octylphthalate	ug/L	ND	10.0	12/23/13 13:03	
Dibenz(a,h)anthracene	ug/L	ND	10.0	12/23/13 13:03	
Dibenzofuran	ug/L	ND	10.0	12/23/13 13:03	
Diethylphthalate	ug/L	ND	10.0	12/23/13 13:03	
Dimethylphthalate	ug/L	ND	10.0	12/23/13 13:03	
Fluoranthene	ug/L	ND	10.0	12/23/13 13:03	
Fluorene	ug/L	ND	10.0	12/23/13 13:03	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	12/23/13 13:03	
Hexachlorobenzene	ug/L	ND	10.0	12/23/13 13:03	
Hexachlorocyclopentadiene	ug/L	ND	10.0	12/23/13 13:03	
Hexachloroethane	ug/L	ND	10.0	12/23/13 13:03	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10.0	12/23/13 13:03	
Isophorone	ug/L	ND	10.0	12/23/13 13:03	
N-Nitroso-di-n-propylamine	ug/L	ND	10.0	12/23/13 13:03	
N-Nitrosodimethylamine	ug/L	ND	10.0	12/23/13 13:03	
N-Nitrosodiphenylamine	ug/L	ND	10.0	12/23/13 13:03	
Naphthalene	ug/L	ND	10.0	12/23/13 13:03	
Nitrobenzene	ug/L	ND	10.0	12/23/13 13:03	
Pentachlorophenol	ug/L	ND	25.0	12/23/13 13:03	
Phenanthrene	ug/L	ND	10.0	12/23/13 13:03	
Phenol	ug/L	ND	10.0	12/23/13 13:03	
Pyrene	ug/L	ND	10.0	12/23/13 13:03	
2,4,6-Tribromophenol (S)	%	72	27-110	12/23/13 13:03	
2-Fluorobiphenyl (S)	%	74	27-110	12/23/13 13:03	
2-Fluorophenol (S)	%	44	12-110	12/23/13 13:03	
Nitrobenzene-d5 (S)	%	75	21-110	12/23/13 13:03	
Phenol-d6 (S)	%	33	10-110	12/23/13 13:03	
Terphenyl-d14 (S)	%	96	31-107	12/23/13 13:03	

LABORATORY CONTROL SAMPLE: 1110273

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	32.6	65	10-110	
1,2-Dichlorobenzene	ug/L	50	32.4	65	10-110	
1,3-Dichlorobenzene	ug/L	50	30.2	60	10-110	
1,4-Dichlorobenzene	ug/L	50	32.2	64	10-110	
1-Methylnaphthalene	ug/L	50	39.5	79	21-110	
2,4,5-Trichlorophenol	ug/L	50	43.2	86	23-116	
2,4,6-Trichlorophenol	ug/L	50	36.2	72	21-114	
2,4-Dichlorophenol	ug/L	50	38.4	77	22-120	
2,4-Dimethylphenol	ug/L	50	39.1	78	15-109	
2,4-Dinitrophenol	ug/L	250	222	89	10-103	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: B-4159 WBS33507.1.1
Pace Project No.: 92184131

LABORATORY CONTROL SAMPLE: 1110273

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-Dinitrotoluene	ug/L	50	53.6	107	24-119	
2,6-Dinitrotoluene	ug/L	50	49.0	98	25-116	
2-Chloronaphthalene	ug/L	50	32.6	65	18-110	
2-Chlorophenol	ug/L	50	36.5	73	10-104	
2-Methylnaphthalene	ug/L	50	41.6	83	16-110	
2-Methylphenol(o-Cresol)	ug/L	50	34.5	69	13-110	
2-Nitroaniline	ug/L	100	105	105	20-117	
2-Nitrophenol	ug/L	50	38.9	78	16-108	
3&4-Methylphenol(m&p Cresol)	ug/L	50	30.2	60	14-110	
3,3'-Dichlorobenzidine	ug/L	100	98.1	98	13-131	
3-Nitroaniline	ug/L	100	96.9	97	15-117	
4,6-Dinitro-2-methylphenol	ug/L	100	97.2	97	13-119	
4-Bromophenylphenyl ether	ug/L	50	41.1	82	23-120	
4-Chloro-3-methylphenol	ug/L	100	85.5	86	21-119	
4-Chloroaniline	ug/L	100	80.2	80	10-122	
4-Chlorophenylphenyl ether	ug/L	50	42.4	85	22-112	
4-Nitroaniline	ug/L	100	109	109	14-118	
4-Nitrophenol	ug/L	250	103	41	10-110	
Acenaphthene	ug/L	50	38.3	77	20-105	
Acenaphthylene	ug/L	50	39.5	79	23-106	
Aniline	ug/L	50	30.3	61	10-110	
Anthracene	ug/L	50	45.9	92	25-120	
Benzo(a)anthracene	ug/L	50	47.2	94	21-128	
Benzo(a)pyrene	ug/L	50	49.9	100	25-116	
Benzo(b)fluoranthene	ug/L	50	49.0	98	23-117	
Benzo(g,h,i)perylene	ug/L	50	50.6	101	17-128	
Benzo(k)fluoranthene	ug/L	50	41.9	84	25-127	
Benzoic Acid	ug/L	250	38.7J	15	10-110	
Benzyl alcohol	ug/L	100	62.3	62	10-101	
bis(2-Chloroethoxy)methane	ug/L	50	41.1	82	19-107	
bis(2-Chloroethyl) ether	ug/L	50	40.7	81	10-108	
bis(2-Chloroisopropyl) ether	ug/L	50	42.9	86	10-108	
bis(2-Ethylhexyl)phthalate	ug/L	50	49.9	100	16-123	
Butylbenzylphthalate	ug/L	50	49.5	99	20-118	
Chrysene	ug/L	50	49.1	98	24-125	
Di-n-butylphthalate	ug/L	50	46.3	93	23-115	
Di-n-octylphthalate	ug/L	50	50.4	101	20-115	
Dibenz(a,h)anthracene	ug/L	50	52.1	104	18-131	
Dibenzofuran	ug/L	50	36.4	73	23-106	
Diethylphthalate	ug/L	50	45.7	91	24-115	
Dimethylphthalate	ug/L	50	43.1	86	22-113	
Fluoranthene	ug/L	50	50.6	101	24-125	
Fluorene	ug/L	50	43.4	87	24-114	
Hexachloro-1,3-butadiene	ug/L	50	31.6	63	10-110	
Hexachlorobenzene	ug/L	50	37.2	74	22-127	
Hexachlorocyclopentadiene	ug/L	50	35.4	71	10-110	
Hexachloroethane	ug/L	50	31.6	63	10-110	
Indeno(1,2,3-cd)pyrene	ug/L	50	52.6	105	18-130	

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Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: B-4159 WBS33507.1.1
Pace Project No.: 92184131

LABORATORY CONTROL SAMPLE: 1110273

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Isophorone	ug/L	50	47.8	96	23-114	
N-Nitroso-di-n-propylamine	ug/L	50	37.1	74	21-114	
N-Nitrosodimethylamine	ug/L	50	22.4	45	10-110	
N-Nitrosodiphenylamine	ug/L	50	36.5	73	24-123	
Naphthalene	ug/L	50	36.9	74	14-110	
Nitrobenzene	ug/L	50	42.7	85	16-106	
Pentachlorophenol	ug/L	100	82.0	82	10-123	
Phenanthrene	ug/L	50	44.2	88	25-119	
Phenol	ug/L	50	18.8	38	10-110	
Pyrene	ug/L	50	47.5	95	22-127	
2,4,6-Tribromophenol (S)	%			88	27-110	
2-Fluorobiphenyl (S)	%			72	27-110	
2-Fluorophenol (S)	%			42	12-110	
Nitrobenzene-d5 (S)	%			78	21-110	
Phenol-d6 (S)	%			33	10-110	
Terphenyl-d14 (S)	%			89	31-107	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1110274 1110275

Parameter	Units	92184117012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,2,4-Trichlorobenzene	ug/L	ND	100	100	76.2	76.7	76	77	10-110	1	
1,2-Dichlorobenzene	ug/L	ND	100	100	74.2	75.3	74	75	10-110	2	
1,3-Dichlorobenzene	ug/L	ND	100	100	68.3	73.2	68	73	10-110	7	
1,4-Dichlorobenzene	ug/L	ND	100	100	73.5	75.2	74	75	10-110	2	
1-Methylnaphthalene	ug/L	ND	100	100	86.9	88.4	87	88	14-110	2	
2,4,5-Trichlorophenol	ug/L	ND	100	100	94.9	94.7	95	95	19-105	0	
2,4,6-Trichlorophenol	ug/L	ND	100	100	81.7	84.8	82	85	13-108	4	
2,4-Dichlorophenol	ug/L	ND	100	100	85.4	88.2	85	88	29-111	3	
2,4-Dimethylphenol	ug/L	ND	100	100	88.8	92.9	89	93	21-103	5	
2,4-Dinitrophenol	ug/L	ND	500	500	402	447	80	89	10-109	10	
2,4-Dinitrotoluene	ug/L	ND	100	100	102	103	102	103	27-104	1	
2,6-Dinitrotoluene	ug/L	ND	100	100	97.4	99.4	97	99	28-101	2	
2-Chloronaphthalene	ug/L	ND	100	100	77.4	75.8	77	76	14-102	2	
2-Chlorophenol	ug/L	ND	100	100	81.8	87.2	82	87	16-110	6	
2-Methylnaphthalene	ug/L	ND	100	100	91.9	95.0	92	95	13-110	3	
2-Methylphenol(o-Cresol)	ug/L	ND	100	100	79.9	88.1	80	88	19-110	10	
2-Nitroaniline	ug/L	ND	200	200	217	216	108	108	26-103	0	M1
2-Nitrophenol	ug/L	ND	100	100	85.6	89.9	86	90	20-110	5	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	100	100	74.6	81.0	75	81	20-110	8	
3,3'-Dichlorobenzidine	ug/L	ND	200	200	163	163	81	81	25-112	0	
3-Nitroaniline	ug/L	ND	200	200	191	188	95	94	29-110	2	
4,6-Dinitro-2-methylphenol	ug/L	ND	200	200	179	188	90	94	10-117	5	
4-Bromophenylphenyl ether	ug/L	ND	100	100	84.0	86.8	84	87	20-105	3	
4-Chloro-3-methylphenol	ug/L	ND	200	200	184	189	92	95	22-110	3	
4-Chloroaniline	ug/L	ND	200	200	170	165	85	83	20-100	3	

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Pace Analytical Services, Inc.
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Eden, NC 27288
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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: B-4159 WBS33507.1.1
Pace Project No.: 92184131

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1110274 1110275

Parameter	Units	92184117012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
4-Chlorophenylphenyl ether	ug/L	ND	100	100	91.1	90.5	91	91	19-102	1	
4-Nitroaniline	ug/L	ND	200	200	211	201	106	101	29-110	5	
4-Nitrophenol	ug/L	ND	500	500	286	297	57	59	10-110	4	
Acenaphthene	ug/L	ND	100	100	88.0	87.3	88	87	17-100	1	
Acenaphthylene	ug/L	ND	100	100	90.0	89.0	90	89	21-100	1	
Aniline	ug/L	ND	100	100	55.9	45.0	56	45	10-110	22	
Anthracene	ug/L	ND	100	100	93.2	92.8	93	93	24-109	0	
Benzo(a)anthracene	ug/L	ND	100	100	86.6	89.7	87	90	22-117	4	
Benzo(a)pyrene	ug/L	ND	100	100	87.4	91.8	87	92	23-104	5	
Benzo(b)fluoranthene	ug/L	ND	100	100	81.8	90.7	82	91	23-103	10	
Benzo(g,h,i)perylene	ug/L	ND	100	100	94.3	94.0	94	94	18-111	0	
Benzo(k)fluoranthene	ug/L	ND	100	100	81.2	79.7	81	80	22-113	2	
Benzoic Acid	ug/L	ND	500	500	188	231	38	46	10-110	20	
Benzyl alcohol	ug/L	ND	200	200	147	163	73	82	19-101	11	
bis(2-Chloroethoxy)methane	ug/L	ND	100	100	89.9	95.4	90	95	22-110	6	
bis(2-Chloroethyl) ether	ug/L	ND	100	100	89.9	94.1	90	94	16-110	5	
bis(2-Chloroisopropyl) ether	ug/L	ND	100	100	93.0	96.9	93	97	14-110	4	
bis(2-Ethylhexyl)phthalate	ug/L	ND	100	100	88.8	96.2	89	96	23-102	8	
Butylbenzylphthalate	ug/L	ND	100	100	89.8	97.9	90	98	25-110	9	
Chrysene	ug/L	ND	100	100	92.1	96.1	92	96	23-115	4	
Di-n-butylphthalate	ug/L	ND	100	100	90.9	90.9	91	91	26-110	0	
Di-n-octylphthalate	ug/L	ND	100	100	89.5	97.4	89	97	22-110	8	
Dibenz(a,h)anthracene	ug/L	ND	100	100	97.1	100	97	100	21-112	3	
Dibenzofuran	ug/L	ND	100	100	80.9	78.9	81	79	19-102	2	
Diethylphthalate	ug/L	ND	100	100	88.7	88.3	89	88	29-110	0	
Dimethylphthalate	ug/L	ND	100	100	85.5	84.9	86	85	27-110	1	
Fluoranthene	ug/L	ND	100	100	99.7	98.7	100	99	23-112	1	
Fluorene	ug/L	ND	100	100	93.5	90.0	94	90	22-104	4	
Hexachloro-1,3-butadiene	ug/L	ND	100	100	77.9	75.9	78	76	10-110	3	
Hexachlorobenzene	ug/L	ND	100	100	75.2	75.7	75	76	21-116	1	
Hexachlorocyclopentadiene	ug/L	ND	100	100	84.7	91.9	85	92	10-110	8	
Hexachloroethane	ug/L	ND	100	100	71.1	75.2	71	75	10-110	6	
Indeno(1,2,3-cd)pyrene	ug/L	ND	100	100	97.6	100	98	100	20-113	3	
Isophorone	ug/L	ND	100	100	102	107	102	107	50-150	5	
N-Nitroso-di-n-propylamine	ug/L	ND	100	100	74.5	82.1	74	82	21-105	10	
N-Nitrosodimethylamine	ug/L	ND	100	100	65.1	69.5	65	69	10-110	6	
N-Nitrosodiphenylamine	ug/L	ND	100	100	74.4	74.7	74	75	23-107	0	
Naphthalene	ug/L	ND	100	100	86.9	87.6	87	88	10-110	1	
Nitrobenzene	ug/L	ND	100	100	92.0	94.3	92	94	20-110	3	
Pentachlorophenol	ug/L	ND	200	200	153	163	76	81	10-118	6	
Phenanthrene	ug/L	ND	100	100	88.3	87.3	88	87	24-106	1	
Phenol	ug/L	ND	100	100	53.2	56.9	53	57	12-110	7	
Pyrene	ug/L	ND	100	100	87.9	95.1	88	95	24-114	8	
2,4,6-Tribromophenol (S)	%						88	91	27-110		
2-Fluorobiphenyl (S)	%						85	85	27-110		
2-Fluorophenol (S)	%						61	65	12-110		
Nitrobenzene-d5 (S)	%						90	89	21-110		

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: B-4159 WBS33507.1.1
Pace Project No.: 92184131

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1110274 1110275

Parameter	Units	92184117012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Phenol-d6 (S)	%						50	53	10-110		
Terphenyl-d14 (S)	%						77	83	31-107		

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(704)875-9092

QUALIFIERS

Project: B-4159 WBS33507.1.1
Pace Project No.: 92184131

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

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
S0	Surrogate recovery outside laboratory control limits.

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: B-4159 WBS33507.1.1
Pace Project No.: 92184131

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92184131001	**MW-11-1**	EPA 3510	OEXT/25285	EPA 8270	MSSV/8598
92184131001	**MW-11-1**	EPA 8260	MSV/25386		

Pace Analytical www.pacelabs.com	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: June 4, 2013 Page 1 of 2
	Document No.: F-ASV-CS-003-rev.11	Issuing Authorities: Pace Asheville Quality Office

Client Name: GFL ENG of N.C.

Where Received: ☐ Huntersville ☑ Asheville ☐ Eden ☐ Raleigh

Courier (Circle): 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_____

Circle Thermometer Used: IR Gun#3 -130265963 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

IR Gun #2- 80344039

Temp Correction Factor: Add / Subtract 0.0 C

Corrected Cooler Temp.: 1.8 C Biological Tissue is Frozen: Yes No N/A

Temp should be above freezing to 6°C

Comments:

Date and Initials of person examining contents: 2013 12/19 2093

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)

Place label here

OR

Handwrite project number (if no label available)

92184131

Pace Analytical
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: of 1727153

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: GEL ENG. of N.C.	Report To: A. Eyer	Attention: NCDOT
Address: P.O. Box 14262 RTP N.C. 27709	Copy To:	Company Name:
Email To: ADE@gel.com	Purchase Order No.: WBS No. 33507.1.1	Address:
Phone: Fax:	Project Name: B-4159	Pace Quote Reference:
Requested Due Date/TAT: Normal TA	Project Number: NCDT01413	Pace Project Manager:
		Pace Profile #: 5996-3

REGULATORY AGENCY: NPDES ✓ GROUND WATER DRINKING WATER; UST RCRA OTHER

Site Location STATE: NC

ITEM #	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	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	Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-11-1		WT	G			12-19-13	13:20		5	2			3					VOCs	3		92184131 001
2																			SVOCs	2		
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Steve Ruckers GEL	12/19/13	1400	[signature] / GEL	12/19/13	1400	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Steve Ruckers

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 12/19/13