GEL Engineering of NC INC

an affiliate of The GEL Group INC

PRELIMINARY SITE ASSESSMENT REPORT

9824 NC Hwy. 107
Robert L. Chastain and
Wife Valerie A. Chastain Property, Parcel 069
Tuckasegee, North Carolina
State Project R-4753
WBS Element #39999.1.1
Jackson County

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

June 30, 2014

PRELIMINARY SITE ASSESSMENT REPORT

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Signature Page

This document, entitled *Preliminary Site Assessment Report*, has been prepared for the Robert L. Chastain and Wife Valerie A. Chastain Property (Parcel 069), located at 9824 NC Hwy. 107 in Tuckasegee, North Carolina (State Project R-4753, WBS Element #39999.1.1, Jackson County). It has been prepared by GEL Engineering of NC, Inc. in accordance with the Notice to Proceed provided by the North Carolina Department of Transportation-GeoEnvironmental Section, Geotechnical Engineering Unit for the exclusive use of the North Carolina Department of Transportation. It has been prepared in accordance with accepted quality control practices and has been reviewed by the undersigned.

GEL ENGINEERING OF NC, INC.
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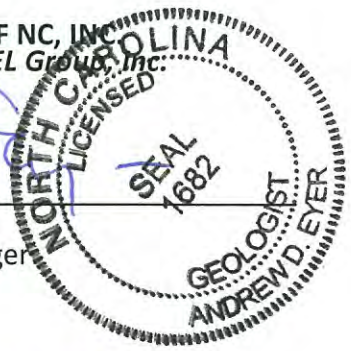

Andrew D. Eyer, L.G.
Senior Project Manager

06-30-14

Date

PRELIMINARY SITE ASSESSMENT REPORT

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Robert L. Chastain and Wife Valerie A. Chastain Property, Parcel 069
Tuckasegee, North Carolina
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Jackson County

Executive Summary

The subject site is the Robert L. Chastain and Wife Valerie A. Chastain property (Parcel 069) located at 9824 NC Hwy. 107 in Tuckasegee, Jackson County, 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 proposed and existing North Carolina Department of Transportation (NCDOT) Right-of-Way (ROW) and easements adjacent to Parcel 069 on the west side of NC Hwy. 107 as a result of previous and/or current operations at the subject site.

An active gas station and convenience store ("Ken's Grocery") is currently located on Parcel 069 and six active petroleum USTs are operating at the site.

The files reviewed at the Asheville Regional Office of the North Carolina Department of Environment and Natural Resources (NCDENR) did not contain any information about Parcel 069. NCDENR representatives of the UST Section confirmed that the site has assigned UST Facility ID No. 0-003643 for operation of the six petroleum USTs. They also confirmed that no UST Incident number has ever been assigned to the site. No groundwater monitoring wells were observed at the site.

GEL Engineering of NC, Inc. (GEL) performed a preliminary site assessment within the accessible portions of the existing and proposed easements and NCDOT ROW at Parcel 069 that included a geophysical investigation and the collection and analysis of soil samples. Six "Known USTs" were identified during the investigation. Three of the USTs are located near the northeast corner of the onsite convenience store, mostly within the investigation area. The other three USTs are located north of the convenience store, mostly outside and west of the investigation area, but extending easterly slightly into

the investigation area. No other suspected USTs were identified within the investigation area.

Soil samples were collected for analysis from four borings constructed within the investigation area and analyzed for petroleum hydrocarbon constituents. The soil sample from one boring, S69-1, was also analyzed for VOCs and SVOCs. GRO was not detected in any of the samples, but DRO was detected in samples S69-2 through S69-4. The DRO concentration detected in sample S69-2 (35.7 mg/kg) exceeds the NCDENR action level for DRO (10 mg/kg). No VOCs or SVOCs were detected in sample S69-1.

Based on the detection of elevated DRO concentration in the S69-2 soil sample, it is estimated that there is an approximate total volume of 260 cubic yards of impacted soil (DRO >10 mg/kg) in the vicinity of boring S69-2.

No additional environmental investigation of the soil at the site by NCDOT is recommended at this time. However, it is recommended that soils excavated in the vicinity of boring S69-2 as part of planned construction activities by NCDOT be handled appropriately and further characterized for petroleum constituents, as needed.

PRELIMINARY SITE ASSESSMENT REPORT

9824 NC Hwy. 107
Robert L. Chastain and Wife Valerie A. Chastain Property, Parcel 069
Tuckasegee, North Carolina
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1.0 Introduction

This document presents the details of a geophysical survey and preliminary site assessment performed within the accessible portions of the existing and proposed North Carolina Department of Transportation (NCDOT) Right-of-Way (ROW) and easements on the west side of NC Hwy. 107 at Robert L. Chastain and Wife Valerie A. Chastain property (Parcel 069) located at 9824 NC Hwy. 107 in Jackson County, North Carolina.

An active gas station and convenience store ("Ken's Grocery") is currently located on Parcel 069, as shown in Photograph 1 in Appendix I, and it distributes petroleum products. The site location is shown in Figure 1, an excerpt from the United States Geological Survey (USGS) 7.5-minute quadrangle map of Sylva South and Tuckasegee, North Carolina. The preliminary site assessment (PSA) was conducted by GEL Engineering of NC, Inc. (GEL) in accordance with the Notice to Proceed issued by NCDOT on February 5, 2014.

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 accessible portions of the existing and proposed easements and NCDOT ROW fronting Parcel 069 as a result of current and/or former operations.

2.0 Background

NCDOT is planning road improvements to the area in the vicinity of NC Hwy. 107 in Jackson County, North Carolina. NCDOT wanted to assess the area in the existing and proposed ROW and easements on the west side of NC Hwy 107 fronting Parcel 069 to evaluate the presence or absence of USTs and soil contamination related to the current and 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 069**.**

Parcel 069 includes an active gas station and convenience store ("Ken's Grocery") that sells petroleum products from six USTs located at the site. The USTs are located within two nests of three tanks each on the north side of the store, as shown in Figure 4 and Photograph 3 in Appendix I. The manager of the convenience store indicated that the entire UST system had been replaced in 1986, and that no releases from the replaced UST system were identified at that time.

The files reviewed at the Asheville Regional Office of the North Carolina Department of Environment and Natural Resources (NCDENR) did not contain any information about Parcel 069. NCDENR representatives of the UST Section confirmed that the site has assigned UST Facility ID No. 0-003643 for operation of the six petroleum USTs. They also confirmed that no UST Incident number has ever been assigned to the site. No groundwater monitoring wells were observed at the site; however, a leak detection and alarm system comprised of at-grade monitoring wells surrounds the onsite USTs. These wells do not penetrate the groundwater.

3.0 Local Geology and Surroundings

Parcel 069 is located in a sparsely developed area of Jackson County, North Carolina. Surrounding land uses include residential and commercial activities. It is located in an unincorporated area between Cullowhee and Tuckasegee, North Carolina.

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 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 Clay Loam" (BkD2), which is characterized as stream terraces composed of clay and clay loam alluvium. The soils encountered at the site during the preliminary site assessment for Parcel 069 consisted predominantly of orange/brown sandy, clayey silt.

Groundwater was not encountered in borings constructed as part of the preliminary site assessment. Previous depth to groundwater measurements made in monitoring wells located at sites in the vicinity of Parcel 069 indicate the water table is located at depths of approximately 20 feet below ground surface (bgs). Based on the USGS topographic map presented as Figure 1, the site is located approximately 2160 feet above mean sea level. The topography in Figure 1 indicates that groundwater in the vicinity of Parcel 069 most likely flows in a westerly direction towards the Tuckasegee River. Storm water within the investigation area of the site generally flows in a northerly direction, as evidenced by the northward-sloping surface topography shown in Photograph 1 in Appendix 1.

4.0 Subsurface Investigation

To evaluate the presence or absence of USTs and/or impact to subsurface soil within the accessible portions of the existing and proposed easements and NCDOT ROWs at Parcel 069, GEL performed a limited site assessment within the accessible portions of the highlighted area shown in Figure 2 that consisted of the following tasks:

- Performance of a geophysical investigation to identify the presence or absence of USTs and associated appurtenances within the accessible portions of the existing and proposed easements and ROW.
- Soil vapor screening of soil samples collected from subsurface soil borings located within the accessible portions of the existing and proposed easements and ROW 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 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 March 5, 2014, within the accessible portions of the existing and proposed easements and ROWs at Parcel 069, 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 069 prior to the initiation of the preliminary site assessment field activities at the site and were marked with paint.

The TDEM and GPR data, as well as visual evidence indicated the presence of three "Known USTs" in the subsurface within the investigation area near the onsite convenience store, as shown in Figures 3 and 4, and in Photograph 3 in Appendix 1. Additionally, there was visual evidence of three "Known USTs" north of the convenience store, located mostly west of and outside the investigation area, but extending easterly into the investigation area, as shown in Photograph 3 and in Figures 3 and 4. No "Possible USTs," "Probable USTs," or other subsurface anomalies indicting the possible presence of USTs were identified within the investigation area. The manager of the convenience store indicated that no other USTs are present on the site. It has been concluded that the linear EM-61 imagery shown in Figure 3 adjacent and parallel to the west side of NC Hwy. 107 is either a corrugated steel or reinforced concrete storm sewer.

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 four subsurface soil borings at Parcel 069, S69-1 through S69-4, on March 5, 2014 for analysis of total petroleum hydrocarbon indicator parameters. The soil borings were constructed within accessible portions of the existing and proposed easements and NCDOT ROW at Parcel 069, as shown in Figures 2 and 4, and in Photographs 2 and 3 in Appendix I. The northing and easting coordinates for the boring locations are listed in the table below.

Summary of Location Data and PID Measurements for Soil Samples Collected for Analysis at Parcel 069

Soil Boring	Depth Interval of Soil Sample Collected for Analysis (feet bgs)	PID Reading (ppm)	Northing	Easting
S69-1	7-8	3.2	580194.238	769458.403
S69-2	7-8	0.0	580222.671	769467.955
S69-3	7-8	10.5	580270.456	769451.256
S69-4	7-8	0.0	580284.203	769430.882

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 bgs and 7-8 feet bgs 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 Probe Technology, Inc. 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 four borings except the samples collected from the 7 to 8-foot depth interval in borings S69-1 and S69-3, in which respective concentrations of 3.2 parts per million (ppm) and 10.5 ppm were measured. Therefore, to assess the subsurface soil quality, soil samples collected from the 7 to 8-foot depth interval from all borings were designated for analysis.

Following completion of the soil sampling activities, all borings were abandoned by filling the boreholes with soil cuttings and hydrated bentonite. The backfilled material in each boring was topped off with asphalt patch material. Soil samples collected from the borings were submitted to QROS' analytical laboratory in Wilmington, North Carolina for analysis of petroleum hydrocarbon constituents using Ultra-violet Fluorescence Spectrometry. To address suspected previous auto repair operations that may have been conducted at the adjoining site, Parcel 071, a split of the soil sample from boring S69-1 was also submitted to Pace for analysis of volatile organic compounds (VOCs) using EPA Method 8260B and semi-volatile organic compounds (SVOCs) using EPA Method 8270D. The analytical results are included on the Certificates of Analysis provided in Appendix III, and a summary of the analytical results is presented in Table 1.

The analytical results indicate that gasoline range organics (GRO) was not detected in any of the samples, and gasoline range organics (DRO) was detected in samples S69-2, S69-3, and S69-4 at levels of 35.7 milligrams per kilogram (mg/kg), 2.6 mg/kg, and 1.3 mg/kg, respectively. The DRO concentration detected in sample S69-2 exceeds the NCDENR action level for DRO (10 mg/kg).

No DRO or total petroleum hydrocarbons (TPH) results were reported for sample S69-1. QROS indicated that the DRO level was so low in this sample (a negative value), that it triggered an error message. Absence of DRO and TPH in the sample is supported by the fingerprint results for the sample. As shown in Table 1, the reported benzo(a)pyrene concentration for S69-1, 0.22 mg/kg, exceeds the NCDNR Maximum Soil-to-Groundwater Soil Contaminant Concentration (MSCC) established for benzo(a)pyrene, 0.088 mg/kg. However, it is our understanding that the elevated benzo(a)pyrene value reported for S69-1 is not indicative of elevated TPH levels in the sample. In addition, no VOCs or SVOCs were detected by Pace in soil sample S69-1.

It is estimated that there is an approximate total volume of 260 cubic yards of impacted soil (DRO >10 mg/kg) in the vicinity of boring S69-2 based on the following assumed area within the investigation area (as shown on Figure 4) and assumed depth of impacted soil:

<u>Boring S69-2 Area</u>

- 875 square feet x 8 feet = 260 cubic yards

5.0 Conclusions and Recommendations

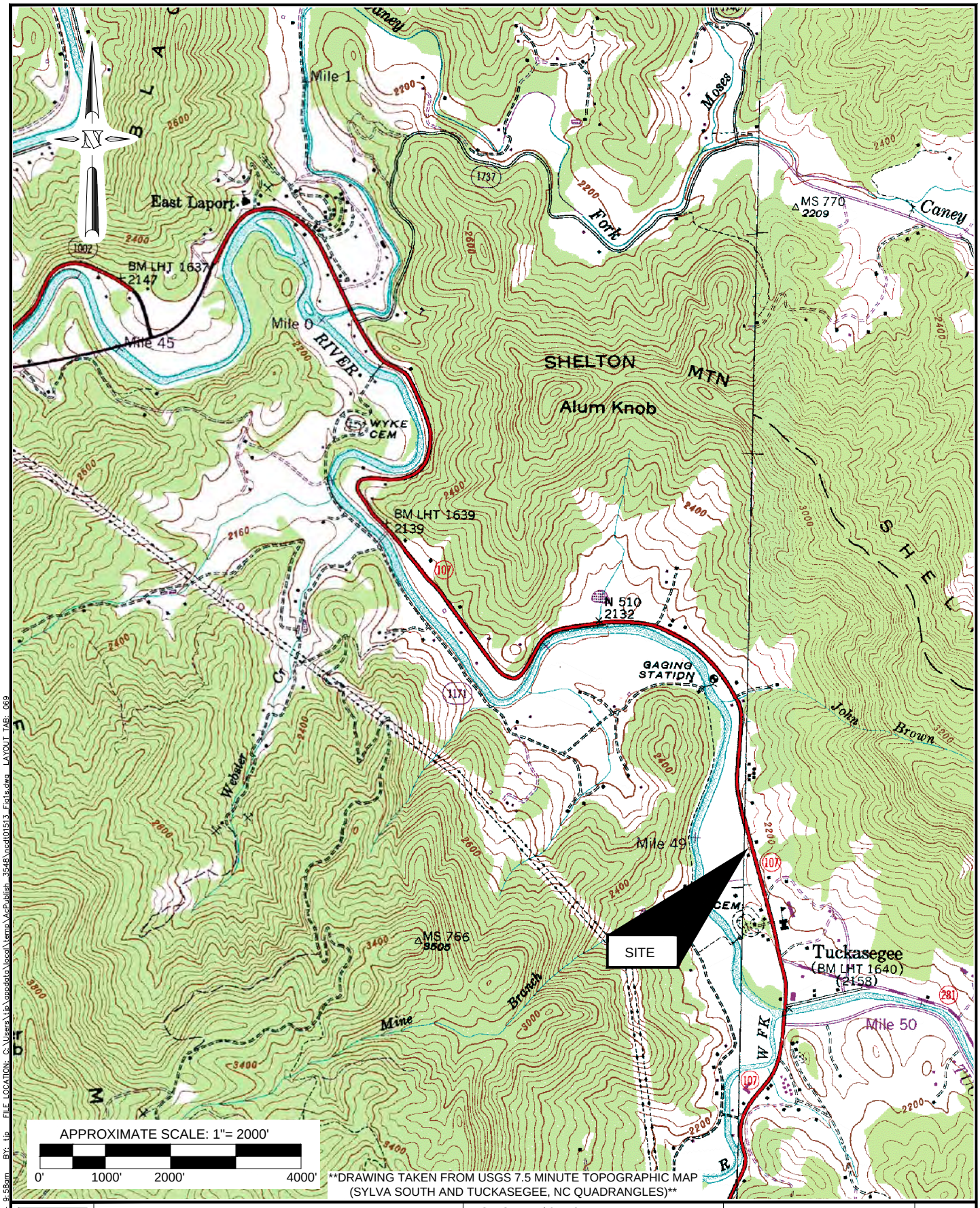
GEL performed a preliminary site assessment within the accessible portions of the existing and proposed easements and NCDOT ROW at Parcel 069 that included a geophysical investigation and the collection and analysis of soil samples. Six "Known USTs" were identified during the investigation. Three of the USTs are located near the northeast corner of the onsite convenience store, mostly within the investigation area. The other three USTs are located north of the convenience store, mostly outside and west of the investigation area, but extending easterly slightly into the investigation area. No other suspected USTs were identified within the investigation area.

Soil samples were collected for analysis from four borings constructed within the investigation area and analyzed for petroleum hydrocarbon constituents. The soil sample from one boring, S69-1, was also analyzed for VOCs and SVOCs. GRO was not detected in any of the samples, but DRO was detected in samples S69-2 through S69-4. The DRO concentration detected in sample S69-2 (35.7 mg/kg) exceeds the NCDENR action level for DRO (10 mg/kg). No VOCs or SVOCs were detected in sample S69-1.

Based on the detection of elevated DRO concentration in the S69-2 soil sample, it is estimated that there is an approximate total volume of 260 cubic yards of impacted soil (DRO >10 mg/kg) in the vicinity of boring S69-2.

No additional environmental investigation of the soil at the site by NCDOT is recommended at this time. However, it is recommended that soils excavated in the vicinity of boring S69-2 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 AND TUCKASEGEE, NC QUADRANGLES)

PLOTTED: May 29, 2014 – 9:58am BY: tjp FILE LOCATION: C:\Users\tjp\appdata\local\Temp\AcPublish_3548\ncdt01513_Fig1s.dwg LAYOUT TAB: 069

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problem solved

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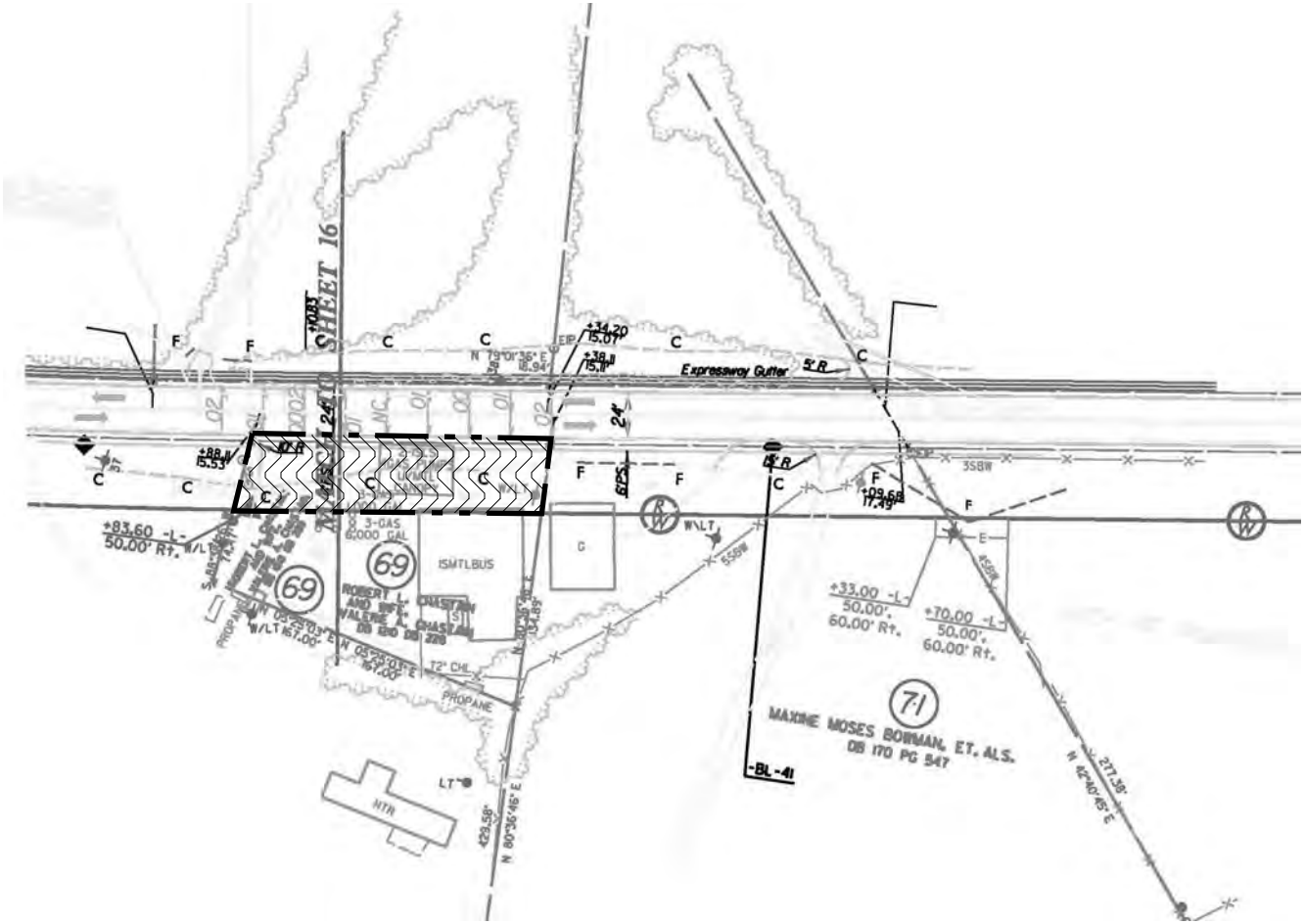
PROJECT: ncdt01513		
PRELIMINARY SITE ASSESSMENT PARCEL 069 JACKSON COUNTY, NORTH CAROLINA TIP NO. R-4753, WBS ELEMENT NO. 39999.1.1	SITE LOCATION MAP	FIGURE 1
DATE: May 27, 2014	DRAWN BY: TJP / APPRV. BY: ADE	



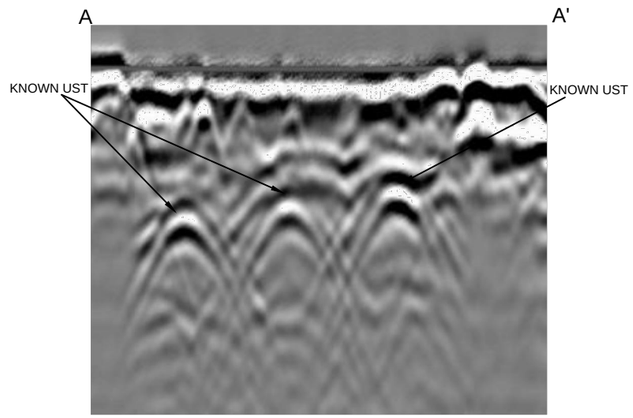
PARCEL 069
INVESTIGATION AREA

NO SCALE

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: ncdt01513		
	PRELIMINARY SITE ASSESSMENT PARCEL 069 JACKSON COUNTY, NORTH CAROLINA TIP NO. R-4753, WBS ELEMENT NO. 39999.1.1	DESIGNATED INVESTIGATION AREA FOR PARCEL 069	FIGURE 2
	DATE: May 5, 2014	DRAWN BY: ADE	

SEE FIGURE 5 FOR SUPPLEMENTAL LEGEND FOR USE WITH FIGURE 3



GPR Data Parcel 69

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 3.3.2014 - 3.6.2014.
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.

EM Response in mV Ch-1: 6000, 5600, 5200, 4800, 4400, 4000, 3600, 3200, 2800, 2400, 2000, 1600, 1200, 800, 400, 0

APPROXIMATE SCALE: 1"= 40'
0' 20' 40' 80'

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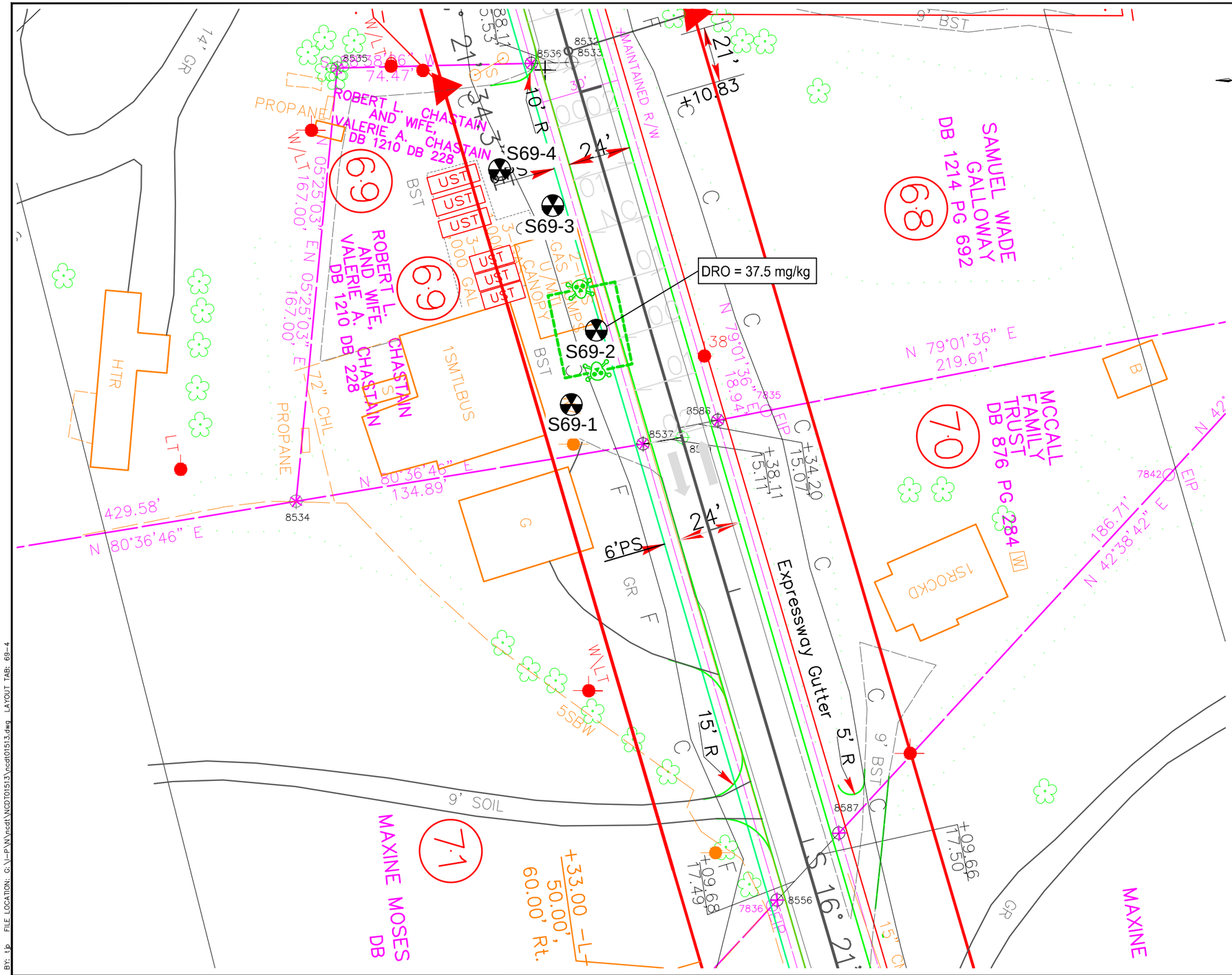
PROJECT: ncdt01513		
PRELIMINARY SITE ASSESSMENT PARCEL 069 JACKSON COUNTY, NORTH CAROLINA TIP NO. R-4753, WBS ELEMENT NO. 39999.1.1	SITE MAP SHOWING RESULTS OF GEOPHYSICAL INVESTIGATION	FIGURE 3
DATE: Jun 16, 2014	DRAWN BY: TJP APPRV. BY: ADE	

PLOTTED: Jul 28, 2014 - 8:39am BY: tjp FILE LOCATION: G:\J-P\N\ncdt\NCDT01513\ncdt01513.dwg LAYOUT TAB: 69-3

SEE FIGURE 5 FOR SUPPLEMENTAL LEGEND FOR USE WITH FIGURE 4



LEGEND

- S69-1 — SOIL BORING LOCATION
- UST — KNOWN UST
- KNOWN SOIL CONTAMINATION
- DRO = 37.5 mg/kg — DRO CONCENTRATION DETECTED BY QROS

APPROXIMATE SCALE: 1"= 40'

0' 20' 40' 80'

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problem solved

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PROJECT: ncdt01513		
PRELIMINARY SITE ASSESSMENT PARCEL 069 JACKSON COUNTY, NORTH CAROLINA TIP NO. R-4753, WBS ELEMENT NO. 39999.1.1	SITE MAP SHOWING LOCATIONS OF SOIL BORINGS	FIGURE 4
DATE: Jun 16, 2014	DRAWN BY: TJP APPRV. BY: ADE	

PLOTTED: Jul 22, 2014 – 4:16pm BY: tjp FILE LOCATION: G:\–PVN\ncdt\NCDT01513\ncdt01513.dwg LAYOUT TAB: 69–4

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-4753C | SHEET NO. 4B

BOUNDARIES AND PROPERTY:

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

BUILDINGS AND OTHER CULTURE:

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

HYDROLOGY:

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

RAILROADS:

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

RIGHT OF WAY:

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

ROADS AND RELATED FEATURES:

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

VEGETATION:

- Single Tree
- Single Shrub
- Hedge
- Woods Line
- Orchard
- Vineyard

EXISTING STRUCTURES:

MAJOR:
- Bridge, Tunnel or Box Culvert
- Bridge Wing Wall, Head Wall and End Wall

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

UTILITIES:

POWER:
- Existing Power Pole
- Proposed Power Pole
- Existing Joint Use Pole
- Proposed Joint Use Pole
- Power Manhole
- Power Line Tower
- Power Transformer
- U/G Power Cable Hand Hole
- H-Frame Pole
- Recorded U/G Power Line
- Designated U/G Power Line (S.U.E.*)

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

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

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

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

SANITARY SEWER:
- Sanitary Sewer Manhole
- Sanitary Sewer Cleanout
- U/G Sanitary Sewer Line
- Above Ground Sanitary Sewer
- Recorded SS Forced Main Line
- Designated SS Forced Main Line (S.U.E.*)

MISCELLANEOUS:
- Utility Pole
- Utility Pole with Base
- Utility Located Object
- Utility Traffic Signal Box
- Utility Unknown U/G Line
- U/G Tank; Water, Gas, Oil
- Underground Storage Tank, Approx. Loc.
- A/G Tank; Water, Gas, Oil
- Geoenvironmental Boring
- U/G Test Hole (S.U.E.*)
- Abandoned According to Utility Records — AATUR
- End of Information — E.O.I.

NOTE: LEGEND WAS PROVIDED BY NCDOT

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

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

PROJECT: ncdt01513		
PRELIMINARY SITE ASSESSMENT PARCEL 069 JACKSON COUNTY, NORTH CAROLINA TIP NO. R-4753, WBS ELEMENT NO. 39999.1.1	SUPPLEMENTAL LEGEND FOR USE WITH FIGURES 2, 3, AND 4	FIGURE 5
DATE: May 6, 2014	DRAWN BY: ADE	

TABLES

TABLE 1

SUMMARY OF ANALYTICAL RESULTS FOR COLLECTED SOIL SAMPLES

Preliminary Site Assessment
Parcel 069, 9824 NC Hwy. 107
Jackson County, North Carolina
State Project No. R-4753, WBS Element #39999.1.1

	QROS Results							Pace Results	
								VOCs	SVOCs
Sample ID	**GASOLINE RANGE ORGANICS (GRO)**	**DIESEL RANGE ORGANICS (DRO)**	**BTEX (C6-C9)**	**TPH (C5-C35)**	**Total Aromatics (C10-C35)**	**16 EPA PAHs**	**Benzo(a)pyrene**		
S69-1	<0.2	No Data	<0.2	No Data	39	4	0.22	ND	ND
S69-2	<0.1	37.5	<0.1	37.5	35.7	1.9	0.1	NA	NA
S69-3	<0.1	3.3	<0.1	3.3	2.6	0.11	<0.01	NA	NA
S69-4	<0.1	1.7	<0.1	1.7	1.3	0.09	<0.01	NA	NA
NCDENR Action Level	***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) No data = QROS indicated that the DRO level in this sample was so low that it triggered an error message for the DRO and TPH results (see QROS report in Appendix III).
4) ND = Not detected
5) NA = Not analyzed
6) Reported values exceeding corresponding NCDENR Action Levels or MSCCs are highlighted in yellow.

APPENDICES

APPENDIX I

PHOTOGRAPHS

Photograph 1: View looking south at PSA investigation area for parcel 069.

Photograph 2: View looking southwest at locations of soil borings S69-1 and S69-2. Parcel 071 is in the background.

Photograph 3: View looking south at locations of soil borings S69-3 and S69-4, and locations of "Known USTs."

APPENDIX II

SOIL BORING LITHOLOGIC LOGS

SOIL BORING LOG

Boring/Well No.: **S69-1**
Date Started: 3/5/14
Date Completed: 3/5/14

No.	Depth Interval	Blow Counts	PID (ppm)	Soil Description	Soil Type
1	0.0' – 5.0'	--	0.0	Orange Brown Silt with Sand & Clay, Damp	ML-CL
2	5.0' – 8.0'	--	3.2	Orange Brown Silt with Sand & Clay, Moist	ML-CL
3					
4				Total depth = 8 feet below land surface	
5					
6					
7					
8					
9					
10					

Notes:

1) 5-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.: **S69-2**
Date Started: 3/5/14
Date Completed: 3/5/14

No.	Depth Interval	Blow Counts	PID (ppm)	Soil Description	Soil Type
1	0.0' – 5.0'	--	0.0	Orange Brown Silt with Sand & Clay, Damp	ML-CL
2	5.0' – 8.0'	--	0.0	Orange Brown Silty Clay with Sand, Moist	CL
3					
4				Total depth = 8 feet below land surface	
5					
6					
7					
8					
9					
10					

Notes:

1) 5-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.: **S69-3**
Date Started: 3/5/14
Date Completed: 3/5/14

No.	Depth Interval	Blow Counts	PID (ppm)	Soil Description	Soil Type
1	0.0' – 5.0'	--	0.0	Orange Brown Silt with Sand & Clay, Damp	ML-CL
2	5.0' – 8.0'	--	10.5	Orange Brown Silt with Sand & Clay, Moist	ML-CL
3					
4				Total depth = 8 feet below land surface	
5					
6					
7					
8					
9					
10					

Notes:

1) 5-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.: **S69-4**
Date Started: 3/5/14
Date Completed: 3/5/14

No.	Depth Interval	Blow Counts	PID (ppm)	Soil Description	Soil Type
1	0.0' – 5.0'	--	0.0	Orange Brown Silt with Sand, Damp	ML
2	5.0' – 8.0'	--	0.0	Orange Brown Silt with Sand & Clay, Moist	ML-CL
3					
4				Total depth = 8 feet below land surface	
5					
6					
7					
8					
9					
10					

Notes:

1) 5-foot continuous cores using DPT.

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

APPENDIX III

CERTIFICATES OF ANALYSIS AND CHAIN OF CUSTODY RECORD FOR SOIL SAMPLES

QROS, LLC Results

QED

AQROS

Hydrocarbon Analysis Results

Client: GEL Engineering
Address: Durham, NC

Samples taken Wednesday, March 5, 2014
Samples extracted Wednesday, March 5, 2014
Samples analysed Thursday, March 6, 2014

Contact: Andrew Eyer

Operator Rachel Menoher

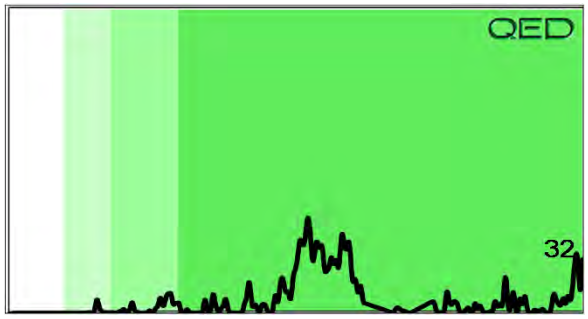
Project: NC DTO 1513

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	S53-1	16.0	<0.2	<0.2	<0.4	<0.8	<0.1	<0.1	<0.01	0	0	100	TPH not detected
s	S53-2	14.0	<0.1	<0.1	69.7	69.7	66.3	<0.1	<0.01	17.4	67.9	14.6	PAH (PFM)
s	S53.3	15.0	<0.2	<0.2	1.1	1.1	0.23	0.02	<0.01	65.7	28.9	5.4	Deg.Fuel (FCM) (P) 83.9%
s	S71-3	14.0	<0.1	<0.1	<0.4	<0.7	<0.1	<0.1	<0.01	0	0	100	TPH not detected
s	S69-1	15.0	<0.2	<0.2	#DIV/0!	#DIV/0!	39	4	0.22	0	0	100	#DIV/0!
s	S69-2	14.0	<0.1	<0.1	37.5	37.5	35.7	1.9	0.1	0	89.9	10.1	Particulate (PFM) (P)
s	S69-3	15.0	<0.1	<0.1	3.3	3.3	2.6	0.11	<0.01	44.8	43.9	11.3	V.Deg.PHC 98.5%
s	S69-4	14.0	<0.1	<0.1	1.7	1.7	1.3	0.09	<0.01	50.9	35.8	13.3	V.Deg.PHC 73.4%
s	S78-1	18.0	<0.2	<0.2	2.2	2.2	2.1	0.14	<0.01	47.2	33.6	19.3	V.Deg.PHC 96.8%
s	S78-2	14.0	<0.1	<0.1	<0.3	<0.7	<0.1	<0.1	<0.01	0	0	100	TPH not detected
		Initial Calibrator QC check			OK								

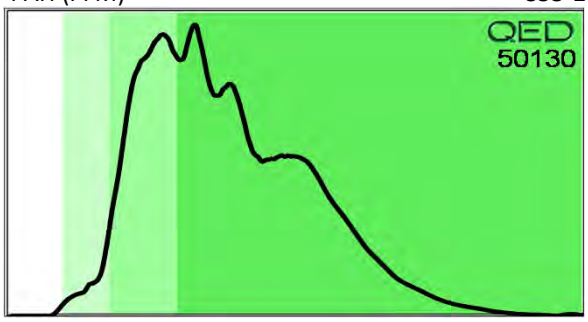
Results generated by a QED HC-1 analyser. Concentration values in mg/kg for soil samples and mg/L for water samples. Soil values are not corrected for moisture or stone content

Fingerprints provide a tentative hydrocarbon identification. The abbreviations are:- FCM = Results calculated using Fundamental Calibration Mode : % = confidence for sample fingerprint match to library (SBS) or (LBS) = Site Specific or Library Background Subtraction applied to result : (PFM) = Poor Fingerprint Match : (T) = Turbid : (P) = Particulate present

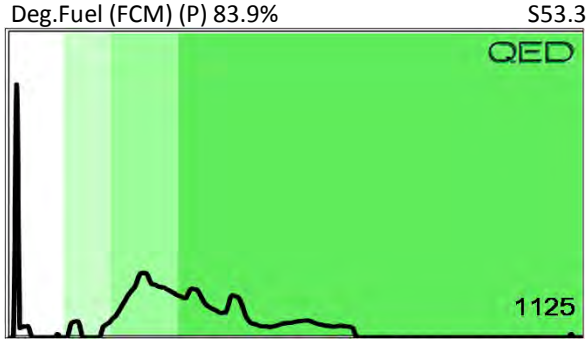
TPH not detected S53-1



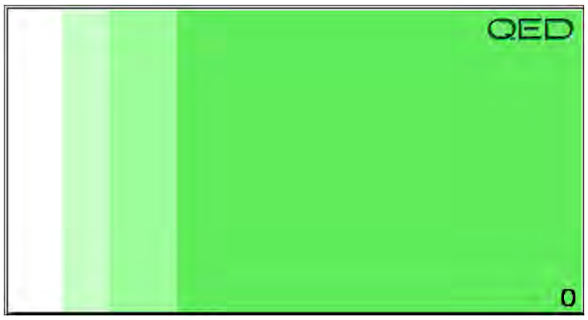
PAH (PFM) S53-2



Deg.Fuel (FCM) (P) 83.9% S53.3

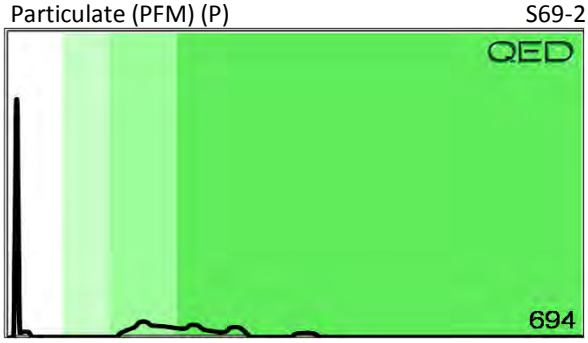


TPH not detected S71-3

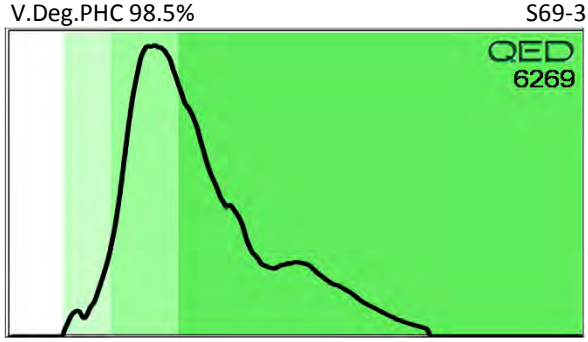


#DIV/0! S69-1

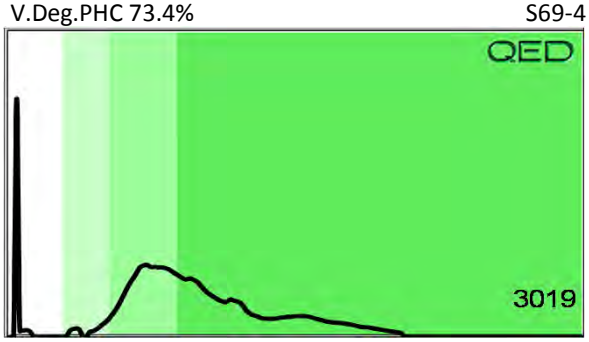
Particulate (PFM) (P) S69-2



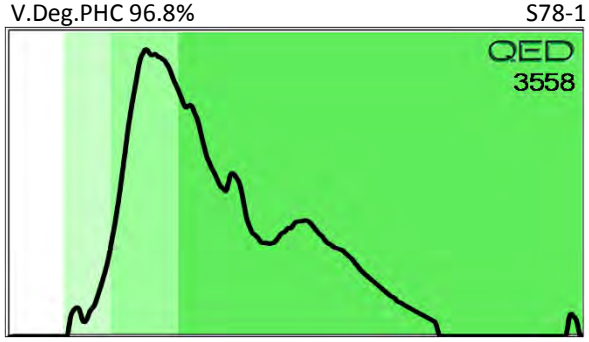
V.Deg.PHC 98.5% S69-3



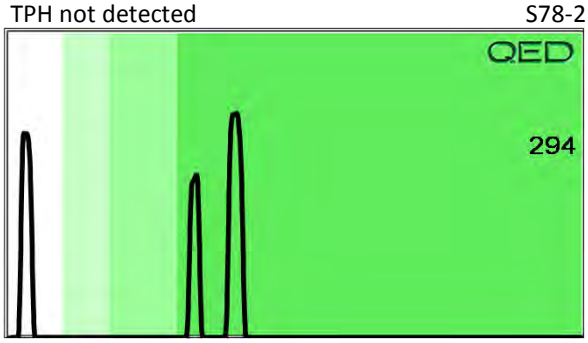
V.Deg.PHC 73.4% S69-4



V.Deg.PHC 96.8% S78-1



TPH not detected S78-2



Chain of Custody Record and Analytical Request Form

Sample ID	Sample Collection			TAT Requested	
QED UVF	Date	Time	Initials	24 Hour	48 Hour
SG-1	3-4-14	09:30	RSG		✓
SG-2		09:45			✓
SG-3		10:10			✓
SG-4		10:30			✓
SB-1		11:10			✓
SB-3		11:34			✓
SB-5		11:57			✓
SB-2		13:05			✓
SB-4		13:25			✓
SW-3		14:55			✓
SS-1		15:25			✓
SS-2		15:40			✓
SS-3	↓	16:00	↓		✓
SG-4	3-5-14	09:15	RSG		✓
SG-3		09:40			✓
SG-2		09:56			✓
SG-1	↓	10:15	↓		✓

Client: GEL

Contact: Andrew Eyer

Phone: (919) 323-8328

Email: ade@gel.com

Project Reference: NCDOT0515 13

Each Sample will be analyzed for total

BTEX, GRO, DRO, TPH, and PAH

Each Sample will generate a fingerprint representative of the petroleum product within the sample. Electronic Data will be submitted to the email above.

Relinquished by	Date/time	Accepted by	Date/time
[signature]	3-5-14 13:50	[signature]	3-6-14 12:30 p.m
Relinquished by	Date/time	Accepted by	Date/time
Relinquished by	Date/time	Accepted by	Date/time

SHIP TO: QROS

420 Raleigh Street Suite E

Wilmington, NC 28412

Pace Analytical Services Results

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

March 17, 2014

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

RE: Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

Dear Andrew Eyer:
Enclosed are the analytical results for sample(s) received by the laboratory on March 06, 2014. 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.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

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

SAMPLE ANALYTE COUNT

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92192150001	**S13-1**	EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	LLW	1	PASI-C
92192150002	**S13-3**	EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	LLW	1	PASI-C
92192150003	**S13-5**	EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	LLW	1	PASI-C
92192150004	**S13-2**	EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	LLW	1	PASI-C
92192150005	**S13-4**	EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	LLW	1	PASI-C
92192150006	**S71-1**	EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	LLW	1	PASI-C
92192150007	**S71-2**	EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	LLW	1	PASI-C
92192150008	**S71-3**	EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	LLW	1	PASI-C
92192150009	**S69-1**	EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	LLW	1	PASI-C
92192150010	**MW20-1**	EPA 8270	BPJ	74	PASI-C
		EPA 8260	MCK	71	PASI-C
92192150011	**MW20-3**	EPA 8270	BPJ	74	PASI-C
		EPA 8260	MCK	71	PASI-C

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

ANALYTICAL RESULTS

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

Sample: S13-1 **Lab ID: 92192150001** Collected: 03/04/14 11:10 Received: 03/06/14 10:30 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	385	1	03/07/14 11:20	03/14/14 20:23	83-32-9	
Acenaphthylene	ND	ug/kg	385	1	03/07/14 11:20	03/14/14 20:23	208-96-8	
Aniline	ND	ug/kg	385	1	03/07/14 11:20	03/14/14 20:23	62-53-3	
Anthracene	ND	ug/kg	385	1	03/07/14 11:20	03/14/14 20:23	120-12-7	
Benzo(a)anthracene	ND	ug/kg	385	1	03/07/14 11:20	03/14/14 20:23	56-55-3	
Benzo(a)pyrene	ND	ug/kg	385	1	03/07/14 11:20	03/14/14 20:23	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	385	1	03/07/14 11:20	03/14/14 20:23	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	385	1	03/07/14 11:20	03/14/14 20:23	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	385	1	03/07/14 11:20	03/14/14 20:23	207-08-9	
Benzoic Acid	ND	ug/kg	1920	1	03/07/14 11:20	03/14/14 20:23	65-85-0	
Benzyl alcohol	ND	ug/kg	769	1	03/07/14 11:20	03/14/14 20:23	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	385	1	03/07/14 11:20	03/14/14 20:23	101-55-3	
Butylbenzylphthalate	ND	ug/kg	385	1	03/07/14 11:20	03/14/14 20:23	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	769	1	03/07/14 11:20	03/14/14 20:23	59-50-7	
4-Chloroaniline	ND	ug/kg	1920	1	03/07/14 11:20	03/14/14 20:23	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	385	1	03/07/14 11:20	03/14/14 20:23	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	385	1	03/07/14 11:20	03/14/14 20:23	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	385	1	03/07/14 11:20	03/14/14 20:23	108-60-1	
2-Chloronaphthalene	ND	ug/kg	385	1	03/07/14 11:20	03/14/14 20:23	91-58-7	
2-Chlorophenol	ND	ug/kg	385	1	03/07/14 11:20	03/14/14 20:23	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	385	1	03/07/14 11:20	03/14/14 20:23	7005-72-3	
Chrysene	ND	ug/kg	385	1	03/07/14 11:20	03/14/14 20:23	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	385	1	03/07/14 11:20	03/14/14 20:23	53-70-3	
Dibenzofuran	ND	ug/kg	385	1	03/07/14 11:20	03/14/14 20:23	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	385	1	03/07/14 11:20	03/14/14 20:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	385	1	03/07/14 11:20	03/14/14 20:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	385	1	03/07/14 11:20	03/14/14 20:23	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	1920	1	03/07/14 11:20	03/14/14 20:23	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	385	1	03/07/14 11:20	03/14/14 20:23	120-83-2	
Diethylphthalate	ND	ug/kg	385	1	03/07/14 11:20	03/14/14 20:23	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	385	1	03/07/14 11:20	03/14/14 20:23	105-67-9	
Dimethylphthalate	ND	ug/kg	385	1	03/07/14 11:20	03/14/14 20:23	131-11-3	
Di-n-butylphthalate	ND	ug/kg	385	1	03/07/14 11:20	03/14/14 20:23	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	769	1	03/07/14 11:20	03/14/14 20:23	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1920	1	03/07/14 11:20	03/14/14 20:23	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	385	1	03/07/14 11:20	03/14/14 20:23	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	385	1	03/07/14 11:20	03/14/14 20:23	606-20-2	
Di-n-octylphthalate	ND	ug/kg	385	1	03/07/14 11:20	03/14/14 20:23	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	385	1	03/07/14 11:20	03/14/14 20:23	117-81-7	
Fluoranthene	ND	ug/kg	385	1	03/07/14 11:20	03/14/14 20:23	206-44-0	
Fluorene	ND	ug/kg	385	1	03/07/14 11:20	03/14/14 20:23	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	385	1	03/07/14 11:20	03/14/14 20:23	87-68-3	
Hexachlorobenzene	ND	ug/kg	385	1	03/07/14 11:20	03/14/14 20:23	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	385	1	03/07/14 11:20	03/14/14 20:23	77-47-4	
Hexachloroethane	ND	ug/kg	385	1	03/07/14 11:20	03/14/14 20:23	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	385	1	03/07/14 11:20	03/14/14 20:23	193-39-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

Sample: S13-1 **Lab ID: 92192150001** Collected: 03/04/14 11:10 Received: 03/06/14 10:30 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	385	1	03/07/14 11:20	03/14/14 20:23	78-59-1	
1-Methylnaphthalene	ND	ug/kg	385	1	03/07/14 11:20	03/14/14 20:23	90-12-0	
2-Methylnaphthalene	ND	ug/kg	385	1	03/07/14 11:20	03/14/14 20:23	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	385	1	03/07/14 11:20	03/14/14 20:23	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	385	1	03/07/14 11:20	03/14/14 20:23		
Naphthalene	ND	ug/kg	385	1	03/07/14 11:20	03/14/14 20:23	91-20-3	
2-Nitroaniline	ND	ug/kg	1920	1	03/07/14 11:20	03/14/14 20:23	88-74-4	
3-Nitroaniline	ND	ug/kg	1920	1	03/07/14 11:20	03/14/14 20:23	99-09-2	
4-Nitroaniline	ND	ug/kg	769	1	03/07/14 11:20	03/14/14 20:23	100-01-6	
Nitrobenzene	ND	ug/kg	385	1	03/07/14 11:20	03/14/14 20:23	98-95-3	
2-Nitrophenol	ND	ug/kg	385	1	03/07/14 11:20	03/14/14 20:23	88-75-5	
4-Nitrophenol	ND	ug/kg	1920	1	03/07/14 11:20	03/14/14 20:23	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	385	1	03/07/14 11:20	03/14/14 20:23	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	385	1	03/07/14 11:20	03/14/14 20:23	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	385	1	03/07/14 11:20	03/14/14 20:23	86-30-6	
Pentachlorophenol	ND	ug/kg	1920	1	03/07/14 11:20	03/14/14 20:23	87-86-5	
Phenanthrene	ND	ug/kg	385	1	03/07/14 11:20	03/14/14 20:23	85-01-8	
Phenol	ND	ug/kg	385	1	03/07/14 11:20	03/14/14 20:23	108-95-2	
Pyrene	ND	ug/kg	385	1	03/07/14 11:20	03/14/14 20:23	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	385	1	03/07/14 11:20	03/14/14 20:23	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	385	1	03/07/14 11:20	03/14/14 20:23	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	385	1	03/07/14 11:20	03/14/14 20:23	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	52	%	23-110	1	03/07/14 11:20	03/14/14 20:23	4165-60-0	
2-Fluorobiphenyl (S)	53	%	30-110	1	03/07/14 11:20	03/14/14 20:23	321-60-8	
Terphenyl-d14 (S)	62	%	28-110	1	03/07/14 11:20	03/14/14 20:23	1718-51-0	
Phenol-d6 (S)	41	%	22-110	1	03/07/14 11:20	03/14/14 20:23	13127-88-3	
2-Fluorophenol (S)	36	%	13-110	1	03/07/14 11:20	03/14/14 20:23	367-12-4	
2,4,6-Tribromophenol (S)	29	%	27-110	1	03/07/14 11:20	03/14/14 20:23	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	**133**	ug/kg	87.6	1		03/11/14 20:54	67-64-1	A+
Benzene	ND	ug/kg	4.4	1		03/11/14 20:54	71-43-2	
Bromobenzene	ND	ug/kg	4.4	1		03/11/14 20:54	108-86-1	
Bromochloromethane	ND	ug/kg	4.4	1		03/11/14 20:54	74-97-5	
Bromodichloromethane	ND	ug/kg	4.4	1		03/11/14 20:54	75-27-4	
Bromoform	ND	ug/kg	4.4	1		03/11/14 20:54	75-25-2	
Bromomethane	ND	ug/kg	8.8	1		03/11/14 20:54	74-83-9	
2-Butanone (MEK)	ND	ug/kg	87.6	1		03/11/14 20:54	78-93-3	
n-Butylbenzene	ND	ug/kg	4.4	1		03/11/14 20:54	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.4	1		03/11/14 20:54	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.4	1		03/11/14 20:54	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.4	1		03/11/14 20:54	56-23-5	
Chlorobenzene	ND	ug/kg	4.4	1		03/11/14 20:54	108-90-7	
Chloroethane	ND	ug/kg	8.8	1		03/11/14 20:54	75-00-3	
Chloroform	ND	ug/kg	4.4	1		03/11/14 20:54	67-66-3	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

Sample: S13-1 **Lab ID: 92192150001** Collected: 03/04/14 11:10 Received: 03/06/14 10:30 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	8.8	1		03/11/14 20:54	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.4	1		03/11/14 20:54	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.4	1		03/11/14 20:54	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.4	1		03/11/14 20:54	96-12-8	
Dibromochloromethane	ND	ug/kg	4.4	1		03/11/14 20:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.4	1		03/11/14 20:54	106-93-4	
Dibromomethane	ND	ug/kg	4.4	1		03/11/14 20:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.4	1		03/11/14 20:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.4	1		03/11/14 20:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.4	1		03/11/14 20:54	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.8	1		03/11/14 20:54	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.4	1		03/11/14 20:54	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.4	1		03/11/14 20:54	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.4	1		03/11/14 20:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.4	1		03/11/14 20:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.4	1		03/11/14 20:54	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.4	1		03/11/14 20:54	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.4	1		03/11/14 20:54	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.4	1		03/11/14 20:54	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.4	1		03/11/14 20:54	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.4	1		03/11/14 20:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.4	1		03/11/14 20:54	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.4	1		03/11/14 20:54	108-20-3	
Ethylbenzene	ND	ug/kg	4.4	1		03/11/14 20:54	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.4	1		03/11/14 20:54	87-68-3	
2-Hexanone	ND	ug/kg	43.8	1		03/11/14 20:54	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.4	1		03/11/14 20:54	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.4	1		03/11/14 20:54	99-87-6	
Methylene Chloride	ND	ug/kg	17.5	1		03/11/14 20:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	43.8	1		03/11/14 20:54	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.4	1		03/11/14 20:54	1634-04-4	
Naphthalene	ND	ug/kg	4.4	1		03/11/14 20:54	91-20-3	
n-Propylbenzene	ND	ug/kg	4.4	1		03/11/14 20:54	103-65-1	
Styrene	ND	ug/kg	4.4	1		03/11/14 20:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.4	1		03/11/14 20:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.4	1		03/11/14 20:54	79-34-5	
Tetrachloroethene	ND	ug/kg	4.4	1		03/11/14 20:54	127-18-4	
Toluene	ND	ug/kg	4.4	1		03/11/14 20:54	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.4	1		03/11/14 20:54	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.4	1		03/11/14 20:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.4	1		03/11/14 20:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.4	1		03/11/14 20:54	79-00-5	
Trichloroethene	ND	ug/kg	4.4	1		03/11/14 20:54	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.4	1		03/11/14 20:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.4	1		03/11/14 20:54	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.4	1		03/11/14 20:54	95-63-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

Sample: S13-1 **Lab ID: 92192150001** Collected: 03/04/14 11:10 Received: 03/06/14 10:30 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		03/11/14 20:54	108-67-8	
Vinyl acetate	ND	ug/kg	43.8	1		03/11/14 20:54	108-05-4	
Vinyl chloride	ND	ug/kg	8.8	1		03/11/14 20:54	75-01-4	
Xylene (Total)	ND	ug/kg	8.8	1		03/11/14 20:54	1330-20-7	
m&p-Xylene	ND	ug/kg	8.8	1		03/11/14 20:54	179601-23-1	
o-Xylene	ND	ug/kg	4.4	1		03/11/14 20:54	95-47-6	
Surrogates								
Toluene-d8 (S)	101	%	70-130	1		03/11/14 20:54	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130	1		03/11/14 20:54	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-132	1		03/11/14 20:54	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**14.2**	%	0.10	1		03/07/14 15:02		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

Sample: S13-3 **Lab ID: 92192150002** Collected: 03/04/14 11:34 Received: 03/06/14 10:30 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	357	1	03/07/14 11:20	03/14/14 20:51	83-32-9	
Acenaphthylene	ND	ug/kg	357	1	03/07/14 11:20	03/14/14 20:51	208-96-8	
Aniline	ND	ug/kg	357	1	03/07/14 11:20	03/14/14 20:51	62-53-3	
Anthracene	ND	ug/kg	357	1	03/07/14 11:20	03/14/14 20:51	120-12-7	
Benzo(a)anthracene	ND	ug/kg	357	1	03/07/14 11:20	03/14/14 20:51	56-55-3	
Benzo(a)pyrene	ND	ug/kg	357	1	03/07/14 11:20	03/14/14 20:51	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	357	1	03/07/14 11:20	03/14/14 20:51	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	357	1	03/07/14 11:20	03/14/14 20:51	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	357	1	03/07/14 11:20	03/14/14 20:51	207-08-9	
Benzoic Acid	ND	ug/kg	1790	1	03/07/14 11:20	03/14/14 20:51	65-85-0	
Benzyl alcohol	ND	ug/kg	714	1	03/07/14 11:20	03/14/14 20:51	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	357	1	03/07/14 11:20	03/14/14 20:51	101-55-3	
Butylbenzylphthalate	ND	ug/kg	357	1	03/07/14 11:20	03/14/14 20:51	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	714	1	03/07/14 11:20	03/14/14 20:51	59-50-7	
4-Chloroaniline	ND	ug/kg	1790	1	03/07/14 11:20	03/14/14 20:51	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	357	1	03/07/14 11:20	03/14/14 20:51	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	357	1	03/07/14 11:20	03/14/14 20:51	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	357	1	03/07/14 11:20	03/14/14 20:51	108-60-1	
2-Chloronaphthalene	ND	ug/kg	357	1	03/07/14 11:20	03/14/14 20:51	91-58-7	
2-Chlorophenol	ND	ug/kg	357	1	03/07/14 11:20	03/14/14 20:51	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	357	1	03/07/14 11:20	03/14/14 20:51	7005-72-3	
Chrysene	ND	ug/kg	357	1	03/07/14 11:20	03/14/14 20:51	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	357	1	03/07/14 11:20	03/14/14 20:51	53-70-3	
Dibenzofuran	ND	ug/kg	357	1	03/07/14 11:20	03/14/14 20:51	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	357	1	03/07/14 11:20	03/14/14 20:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	357	1	03/07/14 11:20	03/14/14 20:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	357	1	03/07/14 11:20	03/14/14 20:51	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	1790	1	03/07/14 11:20	03/14/14 20:51	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	357	1	03/07/14 11:20	03/14/14 20:51	120-83-2	
Diethylphthalate	ND	ug/kg	357	1	03/07/14 11:20	03/14/14 20:51	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	357	1	03/07/14 11:20	03/14/14 20:51	105-67-9	
Dimethylphthalate	ND	ug/kg	357	1	03/07/14 11:20	03/14/14 20:51	131-11-3	
Di-n-butylphthalate	ND	ug/kg	357	1	03/07/14 11:20	03/14/14 20:51	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	714	1	03/07/14 11:20	03/14/14 20:51	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1790	1	03/07/14 11:20	03/14/14 20:51	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	357	1	03/07/14 11:20	03/14/14 20:51	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	357	1	03/07/14 11:20	03/14/14 20:51	606-20-2	
Di-n-octylphthalate	ND	ug/kg	357	1	03/07/14 11:20	03/14/14 20:51	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	357	1	03/07/14 11:20	03/14/14 20:51	117-81-7	
Fluoranthene	ND	ug/kg	357	1	03/07/14 11:20	03/14/14 20:51	206-44-0	
Fluorene	ND	ug/kg	357	1	03/07/14 11:20	03/14/14 20:51	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	357	1	03/07/14 11:20	03/14/14 20:51	87-68-3	
Hexachlorobenzene	ND	ug/kg	357	1	03/07/14 11:20	03/14/14 20:51	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	357	1	03/07/14 11:20	03/14/14 20:51	77-47-4	
Hexachloroethane	ND	ug/kg	357	1	03/07/14 11:20	03/14/14 20:51	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	357	1	03/07/14 11:20	03/14/14 20:51	193-39-5	

REPORT OF LABORATORY ANALYSIS

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

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

Sample: S13-3 **Lab ID: 92192150002** Collected: 03/04/14 11:34 Received: 03/06/14 10:30 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	357	1	03/07/14 11:20	03/14/14 20:51	78-59-1	
1-Methylnaphthalene	ND	ug/kg	357	1	03/07/14 11:20	03/14/14 20:51	90-12-0	
2-Methylnaphthalene	ND	ug/kg	357	1	03/07/14 11:20	03/14/14 20:51	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	357	1	03/07/14 11:20	03/14/14 20:51	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	357	1	03/07/14 11:20	03/14/14 20:51		
Naphthalene	ND	ug/kg	357	1	03/07/14 11:20	03/14/14 20:51	91-20-3	
2-Nitroaniline	ND	ug/kg	1790	1	03/07/14 11:20	03/14/14 20:51	88-74-4	
3-Nitroaniline	ND	ug/kg	1790	1	03/07/14 11:20	03/14/14 20:51	99-09-2	
4-Nitroaniline	ND	ug/kg	714	1	03/07/14 11:20	03/14/14 20:51	100-01-6	
Nitrobenzene	ND	ug/kg	357	1	03/07/14 11:20	03/14/14 20:51	98-95-3	
2-Nitrophenol	ND	ug/kg	357	1	03/07/14 11:20	03/14/14 20:51	88-75-5	
4-Nitrophenol	ND	ug/kg	1790	1	03/07/14 11:20	03/14/14 20:51	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	357	1	03/07/14 11:20	03/14/14 20:51	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	357	1	03/07/14 11:20	03/14/14 20:51	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	357	1	03/07/14 11:20	03/14/14 20:51	86-30-6	
Pentachlorophenol	ND	ug/kg	1790	1	03/07/14 11:20	03/14/14 20:51	87-86-5	
Phenanthrene	ND	ug/kg	357	1	03/07/14 11:20	03/14/14 20:51	85-01-8	
Phenol	ND	ug/kg	357	1	03/07/14 11:20	03/14/14 20:51	108-95-2	
Pyrene	ND	ug/kg	357	1	03/07/14 11:20	03/14/14 20:51	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	357	1	03/07/14 11:20	03/14/14 20:51	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	357	1	03/07/14 11:20	03/14/14 20:51	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	357	1	03/07/14 11:20	03/14/14 20:51	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	50	%	23-110	1	03/07/14 11:20	03/14/14 20:51	4165-60-0	
2-Fluorobiphenyl (S)	51	%	30-110	1	03/07/14 11:20	03/14/14 20:51	321-60-8	
Terphenyl-d14 (S)	78	%	28-110	1	03/07/14 11:20	03/14/14 20:51	1718-51-0	
Phenol-d6 (S)	52	%	22-110	1	03/07/14 11:20	03/14/14 20:51	13127-88-3	
2-Fluorophenol (S)	46	%	13-110	1	03/07/14 11:20	03/14/14 20:51	367-12-4	
2,4,6-Tribromophenol (S)	48	%	27-110	1	03/07/14 11:20	03/14/14 20:51	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	75.9	1		03/11/14 21:14	67-64-1	
Benzene	ND	ug/kg	3.8	1		03/11/14 21:14	71-43-2	
Bromobenzene	ND	ug/kg	3.8	1		03/11/14 21:14	108-86-1	
Bromochloromethane	ND	ug/kg	3.8	1		03/11/14 21:14	74-97-5	
Bromodichloromethane	ND	ug/kg	3.8	1		03/11/14 21:14	75-27-4	
Bromoform	ND	ug/kg	3.8	1		03/11/14 21:14	75-25-2	
Bromomethane	ND	ug/kg	7.6	1		03/11/14 21:14	74-83-9	
2-Butanone (MEK)	ND	ug/kg	75.9	1		03/11/14 21:14	78-93-3	
n-Butylbenzene	ND	ug/kg	3.8	1		03/11/14 21:14	104-51-8	
sec-Butylbenzene	ND	ug/kg	3.8	1		03/11/14 21:14	135-98-8	
tert-Butylbenzene	ND	ug/kg	3.8	1		03/11/14 21:14	98-06-6	
Carbon tetrachloride	ND	ug/kg	3.8	1		03/11/14 21:14	56-23-5	
Chlorobenzene	ND	ug/kg	3.8	1		03/11/14 21:14	108-90-7	
Chloroethane	ND	ug/kg	7.6	1		03/11/14 21:14	75-00-3	
Chloroform	ND	ug/kg	3.8	1		03/11/14 21:14	67-66-3	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

Sample: S13-3 **Lab ID: 92192150002** Collected: 03/04/14 11:34 Received: 03/06/14 10:30 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	7.6	1		03/11/14 21:14	74-87-3	
2-Chlorotoluene	ND	ug/kg	3.8	1		03/11/14 21:14	95-49-8	
4-Chlorotoluene	ND	ug/kg	3.8	1		03/11/14 21:14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	3.8	1		03/11/14 21:14	96-12-8	
Dibromochloromethane	ND	ug/kg	3.8	1		03/11/14 21:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	3.8	1		03/11/14 21:14	106-93-4	
Dibromomethane	ND	ug/kg	3.8	1		03/11/14 21:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	3.8	1		03/11/14 21:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	3.8	1		03/11/14 21:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	3.8	1		03/11/14 21:14	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	7.6	1		03/11/14 21:14	75-71-8	
1,1-Dichloroethane	ND	ug/kg	3.8	1		03/11/14 21:14	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.8	1		03/11/14 21:14	107-06-2	
1,1-Dichloroethene	ND	ug/kg	3.8	1		03/11/14 21:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	3.8	1		03/11/14 21:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	3.8	1		03/11/14 21:14	156-60-5	
1,2-Dichloropropane	ND	ug/kg	3.8	1		03/11/14 21:14	78-87-5	
1,3-Dichloropropane	ND	ug/kg	3.8	1		03/11/14 21:14	142-28-9	
2,2-Dichloropropane	ND	ug/kg	3.8	1		03/11/14 21:14	594-20-7	
1,1-Dichloropropene	ND	ug/kg	3.8	1		03/11/14 21:14	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	3.8	1		03/11/14 21:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	3.8	1		03/11/14 21:14	10061-02-6	
Diisopropyl ether	ND	ug/kg	3.8	1		03/11/14 21:14	108-20-3	
Ethylbenzene	ND	ug/kg	3.8	1		03/11/14 21:14	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	3.8	1		03/11/14 21:14	87-68-3	
2-Hexanone	ND	ug/kg	37.9	1		03/11/14 21:14	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	3.8	1		03/11/14 21:14	98-82-8	
p-Isopropyltoluene	ND	ug/kg	3.8	1		03/11/14 21:14	99-87-6	
Methylene Chloride	ND	ug/kg	15.2	1		03/11/14 21:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	37.9	1		03/11/14 21:14	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	3.8	1		03/11/14 21:14	1634-04-4	
Naphthalene	ND	ug/kg	3.8	1		03/11/14 21:14	91-20-3	
n-Propylbenzene	ND	ug/kg	3.8	1		03/11/14 21:14	103-65-1	
Styrene	ND	ug/kg	3.8	1		03/11/14 21:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.8	1		03/11/14 21:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.8	1		03/11/14 21:14	79-34-5	
Tetrachloroethene	ND	ug/kg	3.8	1		03/11/14 21:14	127-18-4	
Toluene	ND	ug/kg	3.8	1		03/11/14 21:14	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	3.8	1		03/11/14 21:14	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	3.8	1		03/11/14 21:14	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	3.8	1		03/11/14 21:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	3.8	1		03/11/14 21:14	79-00-5	
Trichloroethene	ND	ug/kg	3.8	1		03/11/14 21:14	79-01-6	
Trichlorofluoromethane	ND	ug/kg	3.8	1		03/11/14 21:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	3.8	1		03/11/14 21:14	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	3.8	1		03/11/14 21:14	95-63-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

Sample: S13-3 **Lab ID: 92192150002** Collected: 03/04/14 11:34 Received: 03/06/14 10:30 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	3.8	1		03/11/14 21:14	108-67-8	
Vinyl acetate	ND	ug/kg	37.9	1		03/11/14 21:14	108-05-4	
Vinyl chloride	ND	ug/kg	7.6	1		03/11/14 21:14	75-01-4	
Xylene (Total)	ND	ug/kg	7.6	1		03/11/14 21:14	1330-20-7	
m&p-Xylene	ND	ug/kg	7.6	1		03/11/14 21:14	179601-23-1	
o-Xylene	ND	ug/kg	3.8	1		03/11/14 21:14	95-47-6	
Surrogates								
Toluene-d8 (S)	99	%	70-130	1		03/11/14 21:14	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130	1		03/11/14 21:14	460-00-4	
1,2-Dichloroethane-d4 (S)	122	%	70-132	1		03/11/14 21:14	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**7.6**	%	0.10	1		03/07/14 15:02		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

Sample: S13-5 **Lab ID: 92192150003** Collected: 03/04/14 11:57 Received: 03/06/14 10:30 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	390	1	03/07/14 11:20	03/14/14 21:19	83-32-9	
Acenaphthylene	ND	ug/kg	390	1	03/07/14 11:20	03/14/14 21:19	208-96-8	
Aniline	ND	ug/kg	390	1	03/07/14 11:20	03/14/14 21:19	62-53-3	
Anthracene	ND	ug/kg	390	1	03/07/14 11:20	03/14/14 21:19	120-12-7	
Benzo(a)anthracene	ND	ug/kg	390	1	03/07/14 11:20	03/14/14 21:19	56-55-3	
Benzo(a)pyrene	ND	ug/kg	390	1	03/07/14 11:20	03/14/14 21:19	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	390	1	03/07/14 11:20	03/14/14 21:19	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	390	1	03/07/14 11:20	03/14/14 21:19	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	390	1	03/07/14 11:20	03/14/14 21:19	207-08-9	
Benzoic Acid	ND	ug/kg	1950	1	03/07/14 11:20	03/14/14 21:19	65-85-0	
Benzyl alcohol	ND	ug/kg	780	1	03/07/14 11:20	03/14/14 21:19	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	390	1	03/07/14 11:20	03/14/14 21:19	101-55-3	
Butylbenzylphthalate	ND	ug/kg	390	1	03/07/14 11:20	03/14/14 21:19	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	780	1	03/07/14 11:20	03/14/14 21:19	59-50-7	
4-Chloroaniline	ND	ug/kg	1950	1	03/07/14 11:20	03/14/14 21:19	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	390	1	03/07/14 11:20	03/14/14 21:19	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	390	1	03/07/14 11:20	03/14/14 21:19	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	390	1	03/07/14 11:20	03/14/14 21:19	108-60-1	
2-Chloronaphthalene	ND	ug/kg	390	1	03/07/14 11:20	03/14/14 21:19	91-58-7	
2-Chlorophenol	ND	ug/kg	390	1	03/07/14 11:20	03/14/14 21:19	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	390	1	03/07/14 11:20	03/14/14 21:19	7005-72-3	
Chrysene	ND	ug/kg	390	1	03/07/14 11:20	03/14/14 21:19	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	390	1	03/07/14 11:20	03/14/14 21:19	53-70-3	
Dibenzofuran	ND	ug/kg	390	1	03/07/14 11:20	03/14/14 21:19	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	390	1	03/07/14 11:20	03/14/14 21:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	390	1	03/07/14 11:20	03/14/14 21:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	390	1	03/07/14 11:20	03/14/14 21:19	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	1950	1	03/07/14 11:20	03/14/14 21:19	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	390	1	03/07/14 11:20	03/14/14 21:19	120-83-2	
Diethylphthalate	ND	ug/kg	390	1	03/07/14 11:20	03/14/14 21:19	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	390	1	03/07/14 11:20	03/14/14 21:19	105-67-9	
Dimethylphthalate	ND	ug/kg	390	1	03/07/14 11:20	03/14/14 21:19	131-11-3	
Di-n-butylphthalate	ND	ug/kg	390	1	03/07/14 11:20	03/14/14 21:19	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	780	1	03/07/14 11:20	03/14/14 21:19	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1950	1	03/07/14 11:20	03/14/14 21:19	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	390	1	03/07/14 11:20	03/14/14 21:19	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	390	1	03/07/14 11:20	03/14/14 21:19	606-20-2	
Di-n-octylphthalate	ND	ug/kg	390	1	03/07/14 11:20	03/14/14 21:19	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	390	1	03/07/14 11:20	03/14/14 21:19	117-81-7	
Fluoranthene	ND	ug/kg	390	1	03/07/14 11:20	03/14/14 21:19	206-44-0	
Fluorene	ND	ug/kg	390	1	03/07/14 11:20	03/14/14 21:19	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	390	1	03/07/14 11:20	03/14/14 21:19	87-68-3	
Hexachlorobenzene	ND	ug/kg	390	1	03/07/14 11:20	03/14/14 21:19	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	390	1	03/07/14 11:20	03/14/14 21:19	77-47-4	
Hexachloroethane	ND	ug/kg	390	1	03/07/14 11:20	03/14/14 21:19	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	390	1	03/07/14 11:20	03/14/14 21:19	193-39-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

Sample: S13-5 **Lab ID: 92192150003** Collected: 03/04/14 11:57 Received: 03/06/14 10:30 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	390	1	03/07/14 11:20	03/14/14 21:19	78-59-1	
1-Methylnaphthalene	ND	ug/kg	390	1	03/07/14 11:20	03/14/14 21:19	90-12-0	
2-Methylnaphthalene	ND	ug/kg	390	1	03/07/14 11:20	03/14/14 21:19	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	390	1	03/07/14 11:20	03/14/14 21:19	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	390	1	03/07/14 11:20	03/14/14 21:19		
Naphthalene	ND	ug/kg	390	1	03/07/14 11:20	03/14/14 21:19	91-20-3	
2-Nitroaniline	ND	ug/kg	1950	1	03/07/14 11:20	03/14/14 21:19	88-74-4	
3-Nitroaniline	ND	ug/kg	1950	1	03/07/14 11:20	03/14/14 21:19	99-09-2	
4-Nitroaniline	ND	ug/kg	780	1	03/07/14 11:20	03/14/14 21:19	100-01-6	
Nitrobenzene	ND	ug/kg	390	1	03/07/14 11:20	03/14/14 21:19	98-95-3	
2-Nitrophenol	ND	ug/kg	390	1	03/07/14 11:20	03/14/14 21:19	88-75-5	
4-Nitrophenol	ND	ug/kg	1950	1	03/07/14 11:20	03/14/14 21:19	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	390	1	03/07/14 11:20	03/14/14 21:19	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	390	1	03/07/14 11:20	03/14/14 21:19	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	390	1	03/07/14 11:20	03/14/14 21:19	86-30-6	
Pentachlorophenol	ND	ug/kg	1950	1	03/07/14 11:20	03/14/14 21:19	87-86-5	
Phenanthrene	ND	ug/kg	390	1	03/07/14 11:20	03/14/14 21:19	85-01-8	
Phenol	ND	ug/kg	390	1	03/07/14 11:20	03/14/14 21:19	108-95-2	
Pyrene	ND	ug/kg	390	1	03/07/14 11:20	03/14/14 21:19	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	390	1	03/07/14 11:20	03/14/14 21:19	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	390	1	03/07/14 11:20	03/14/14 21:19	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	390	1	03/07/14 11:20	03/14/14 21:19	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	54	%	23-110	1	03/07/14 11:20	03/14/14 21:19	4165-60-0	
2-Fluorobiphenyl (S)	52	%	30-110	1	03/07/14 11:20	03/14/14 21:19	321-60-8	
Terphenyl-d14 (S)	59	%	28-110	1	03/07/14 11:20	03/14/14 21:19	1718-51-0	
Phenol-d6 (S)	48	%	22-110	1	03/07/14 11:20	03/14/14 21:19	13127-88-3	
2-Fluorophenol (S)	43	%	13-110	1	03/07/14 11:20	03/14/14 21:19	367-12-4	
2,4,6-Tribromophenol (S)	38	%	27-110	1	03/07/14 11:20	03/14/14 21:19	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	81.0	1		03/11/14 21:34	67-64-1	
Benzene	ND	ug/kg	4.0	1		03/11/14 21:34	71-43-2	
Bromobenzene	ND	ug/kg	4.0	1		03/11/14 21:34	108-86-1	
Bromochloromethane	ND	ug/kg	4.0	1		03/11/14 21:34	74-97-5	
Bromodichloromethane	ND	ug/kg	4.0	1		03/11/14 21:34	75-27-4	
Bromoform	ND	ug/kg	4.0	1		03/11/14 21:34	75-25-2	
Bromomethane	ND	ug/kg	8.1	1		03/11/14 21:34	74-83-9	
2-Butanone (MEK)	ND	ug/kg	81.0	1		03/11/14 21:34	78-93-3	
n-Butylbenzene	ND	ug/kg	4.0	1		03/11/14 21:34	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.0	1		03/11/14 21:34	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.0	1		03/11/14 21:34	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.0	1		03/11/14 21:34	56-23-5	
Chlorobenzene	ND	ug/kg	4.0	1		03/11/14 21:34	108-90-7	
Chloroethane	ND	ug/kg	8.1	1		03/11/14 21:34	75-00-3	
Chloroform	ND	ug/kg	4.0	1		03/11/14 21:34	67-66-3	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

Sample: S13-5 **Lab ID: 92192150003** Collected: 03/04/14 11:57 Received: 03/06/14 10:30 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	8.1	1		03/11/14 21:34	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.0	1		03/11/14 21:34	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.0	1		03/11/14 21:34	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.0	1		03/11/14 21:34	96-12-8	
Dibromochloromethane	ND	ug/kg	4.0	1		03/11/14 21:34	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.0	1		03/11/14 21:34	106-93-4	
Dibromomethane	ND	ug/kg	4.0	1		03/11/14 21:34	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.0	1		03/11/14 21:34	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.0	1		03/11/14 21:34	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.0	1		03/11/14 21:34	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.1	1		03/11/14 21:34	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.0	1		03/11/14 21:34	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.0	1		03/11/14 21:34	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.0	1		03/11/14 21:34	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.0	1		03/11/14 21:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.0	1		03/11/14 21:34	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.0	1		03/11/14 21:34	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.0	1		03/11/14 21:34	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.0	1		03/11/14 21:34	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.0	1		03/11/14 21:34	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.0	1		03/11/14 21:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.0	1		03/11/14 21:34	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.0	1		03/11/14 21:34	108-20-3	
Ethylbenzene	ND	ug/kg	4.0	1		03/11/14 21:34	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.0	1		03/11/14 21:34	87-68-3	
2-Hexanone	ND	ug/kg	40.5	1		03/11/14 21:34	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.0	1		03/11/14 21:34	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.0	1		03/11/14 21:34	99-87-6	
Methylene Chloride	ND	ug/kg	16.2	1		03/11/14 21:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	40.5	1		03/11/14 21:34	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.0	1		03/11/14 21:34	1634-04-4	
Naphthalene	ND	ug/kg	4.0	1		03/11/14 21:34	91-20-3	
n-Propylbenzene	ND	ug/kg	4.0	1		03/11/14 21:34	103-65-1	
Styrene	ND	ug/kg	4.0	1		03/11/14 21:34	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.0	1		03/11/14 21:34	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.0	1		03/11/14 21:34	79-34-5	
Tetrachloroethene	ND	ug/kg	4.0	1		03/11/14 21:34	127-18-4	
Toluene	ND	ug/kg	4.0	1		03/11/14 21:34	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.0	1		03/11/14 21:34	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.0	1		03/11/14 21:34	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.0	1		03/11/14 21:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.0	1		03/11/14 21:34	79-00-5	
Trichloroethene	ND	ug/kg	4.0	1		03/11/14 21:34	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.0	1		03/11/14 21:34	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.0	1		03/11/14 21:34	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.0	1		03/11/14 21:34	95-63-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

Sample: S13-5 **Lab ID: 92192150003** Collected: 03/04/14 11:57 Received: 03/06/14 10:30 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	4.0	1		03/11/14 21:34	108-67-8	
Vinyl acetate	ND	ug/kg	40.5	1		03/11/14 21:34	108-05-4	
Vinyl chloride	ND	ug/kg	8.1	1		03/11/14 21:34	75-01-4	
Xylene (Total)	ND	ug/kg	8.1	1		03/11/14 21:34	1330-20-7	
m&p-Xylene	ND	ug/kg	8.1	1		03/11/14 21:34	179601-23-1	
o-Xylene	ND	ug/kg	4.0	1		03/11/14 21:34	95-47-6	
Surrogates								
Toluene-d8 (S)	99	%	70-130	1		03/11/14 21:34	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130	1		03/11/14 21:34	460-00-4	
1,2-Dichloroethane-d4 (S)	117	%	70-132	1		03/11/14 21:34	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**15.4**	%	0.10	1		03/07/14 15:02		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

Sample: S13-2 **Lab ID: 92192150004** Collected: 03/04/14 13:05 Received: 03/06/14 10:30 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	03/07/14 11:20	03/14/14 21:48	83-32-9	
Acenaphthylene	ND	ug/kg	386	1	03/07/14 11:20	03/14/14 21:48	208-96-8	
Aniline	ND	ug/kg	386	1	03/07/14 11:20	03/14/14 21:48	62-53-3	
Anthracene	ND	ug/kg	386	1	03/07/14 11:20	03/14/14 21:48	120-12-7	
Benzo(a)anthracene	ND	ug/kg	386	1	03/07/14 11:20	03/14/14 21:48	56-55-3	
Benzo(a)pyrene	ND	ug/kg	386	1	03/07/14 11:20	03/14/14 21:48	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	386	1	03/07/14 11:20	03/14/14 21:48	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	386	1	03/07/14 11:20	03/14/14 21:48	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	386	1	03/07/14 11:20	03/14/14 21:48	207-08-9	
Benzoic Acid	ND	ug/kg	1930	1	03/07/14 11:20	03/14/14 21:48	65-85-0	
Benzyl alcohol	ND	ug/kg	772	1	03/07/14 11:20	03/14/14 21:48	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	386	1	03/07/14 11:20	03/14/14 21:48	101-55-3	
Butylbenzylphthalate	ND	ug/kg	386	1	03/07/14 11:20	03/14/14 21:48	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	772	1	03/07/14 11:20	03/14/14 21:48	59-50-7	
4-Chloroaniline	ND	ug/kg	1930	1	03/07/14 11:20	03/14/14 21:48	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	386	1	03/07/14 11:20	03/14/14 21:48	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	386	1	03/07/14 11:20	03/14/14 21:48	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	386	1	03/07/14 11:20	03/14/14 21:48	108-60-1	
2-Chloronaphthalene	ND	ug/kg	386	1	03/07/14 11:20	03/14/14 21:48	91-58-7	
2-Chlorophenol	ND	ug/kg	386	1	03/07/14 11:20	03/14/14 21:48	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	386	1	03/07/14 11:20	03/14/14 21:48	7005-72-3	
Chrysene	ND	ug/kg	386	1	03/07/14 11:20	03/14/14 21:48	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	386	1	03/07/14 11:20	03/14/14 21:48	53-70-3	
Dibenzofuran	ND	ug/kg	386	1	03/07/14 11:20	03/14/14 21:48	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	386	1	03/07/14 11:20	03/14/14 21:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	386	1	03/07/14 11:20	03/14/14 21:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	386	1	03/07/14 11:20	03/14/14 21:48	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	1930	1	03/07/14 11:20	03/14/14 21:48	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	386	1	03/07/14 11:20	03/14/14 21:48	120-83-2	
Diethylphthalate	ND	ug/kg	386	1	03/07/14 11:20	03/14/14 21:48	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	386	1	03/07/14 11:20	03/14/14 21:48	105-67-9	
Dimethylphthalate	ND	ug/kg	386	1	03/07/14 11:20	03/14/14 21:48	131-11-3	
Di-n-butylphthalate	ND	ug/kg	386	1	03/07/14 11:20	03/14/14 21:48	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	772	1	03/07/14 11:20	03/14/14 21:48	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1930	1	03/07/14 11:20	03/14/14 21:48	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	386	1	03/07/14 11:20	03/14/14 21:48	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	386	1	03/07/14 11:20	03/14/14 21:48	606-20-2	
Di-n-octylphthalate	ND	ug/kg	386	1	03/07/14 11:20	03/14/14 21:48	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	386	1	03/07/14 11:20	03/14/14 21:48	117-81-7	
Fluoranthene	ND	ug/kg	386	1	03/07/14 11:20	03/14/14 21:48	206-44-0	
Fluorene	ND	ug/kg	386	1	03/07/14 11:20	03/14/14 21:48	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	386	1	03/07/14 11:20	03/14/14 21:48	87-68-3	
Hexachlorobenzene	ND	ug/kg	386	1	03/07/14 11:20	03/14/14 21:48	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	386	1	03/07/14 11:20	03/14/14 21:48	77-47-4	
Hexachloroethane	ND	ug/kg	386	1	03/07/14 11:20	03/14/14 21:48	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	386	1	03/07/14 11:20	03/14/14 21:48	193-39-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

Sample: S13-2 **Lab ID: 92192150004** Collected: 03/04/14 13:05 Received: 03/06/14 10:30 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	03/07/14 11:20	03/14/14 21:48	78-59-1	
1-Methylnaphthalene	ND	ug/kg	386	1	03/07/14 11:20	03/14/14 21:48	90-12-0	
2-Methylnaphthalene	ND	ug/kg	386	1	03/07/14 11:20	03/14/14 21:48	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	386	1	03/07/14 11:20	03/14/14 21:48	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	386	1	03/07/14 11:20	03/14/14 21:48		
Naphthalene	ND	ug/kg	386	1	03/07/14 11:20	03/14/14 21:48	91-20-3	
2-Nitroaniline	ND	ug/kg	1930	1	03/07/14 11:20	03/14/14 21:48	88-74-4	
3-Nitroaniline	ND	ug/kg	1930	1	03/07/14 11:20	03/14/14 21:48	99-09-2	
4-Nitroaniline	ND	ug/kg	772	1	03/07/14 11:20	03/14/14 21:48	100-01-6	
Nitrobenzene	ND	ug/kg	386	1	03/07/14 11:20	03/14/14 21:48	98-95-3	
2-Nitrophenol	ND	ug/kg	386	1	03/07/14 11:20	03/14/14 21:48	88-75-5	
4-Nitrophenol	ND	ug/kg	1930	1	03/07/14 11:20	03/14/14 21:48	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	386	1	03/07/14 11:20	03/14/14 21:48	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	386	1	03/07/14 11:20	03/14/14 21:48	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	386	1	03/07/14 11:20	03/14/14 21:48	86-30-6	
Pentachlorophenol	ND	ug/kg	1930	1	03/07/14 11:20	03/14/14 21:48	87-86-5	
Phenanthrene	ND	ug/kg	386	1	03/07/14 11:20	03/14/14 21:48	85-01-8	
Phenol	ND	ug/kg	386	1	03/07/14 11:20	03/14/14 21:48	108-95-2	
Pyrene	ND	ug/kg	386	1	03/07/14 11:20	03/14/14 21:48	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	386	1	03/07/14 11:20	03/14/14 21:48	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	386	1	03/07/14 11:20	03/14/14 21:48	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	386	1	03/07/14 11:20	03/14/14 21:48	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	41	%	23-110	1	03/07/14 11:20	03/14/14 21:48	4165-60-0	
2-Fluorobiphenyl (S)	41	%	30-110	1	03/07/14 11:20	03/14/14 21:48	321-60-8	
Terphenyl-d14 (S)	51	%	28-110	1	03/07/14 11:20	03/14/14 21:48	1718-51-0	
Phenol-d6 (S)	38	%	22-110	1	03/07/14 11:20	03/14/14 21:48	13127-88-3	
2-Fluorophenol (S)	39	%	13-110	1	03/07/14 11:20	03/14/14 21:48	367-12-4	
2,4,6-Tribromophenol (S)	38	%	27-110	1	03/07/14 11:20	03/14/14 21:48	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	95.1	1		03/11/14 21:54	67-64-1	
Benzene	ND	ug/kg	4.8	1		03/11/14 21:54	71-43-2	
Bromobenzene	ND	ug/kg	4.8	1		03/11/14 21:54	108-86-1	
Bromochloromethane	ND	ug/kg	4.8	1		03/11/14 21:54	74-97-5	
Bromodichloromethane	ND	ug/kg	4.8	1		03/11/14 21:54	75-27-4	
Bromoform	ND	ug/kg	4.8	1		03/11/14 21:54	75-25-2	
Bromomethane	ND	ug/kg	9.5	1		03/11/14 21:54	74-83-9	
2-Butanone (MEK)	ND	ug/kg	95.1	1		03/11/14 21:54	78-93-3	
n-Butylbenzene	ND	ug/kg	4.8	1		03/11/14 21:54	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.8	1		03/11/14 21:54	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.8	1		03/11/14 21:54	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.8	1		03/11/14 21:54	56-23-5	
Chlorobenzene	ND	ug/kg	4.8	1		03/11/14 21:54	108-90-7	
Chloroethane	ND	ug/kg	9.5	1		03/11/14 21:54	75-00-3	
Chloroform	ND	ug/kg	4.8	1		03/11/14 21:54	67-66-3	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

Sample: S13-2 **Lab ID: 92192150004** Collected: 03/04/14 13:05 Received: 03/06/14 10:30 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	9.5	1		03/11/14 21:54	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.8	1		03/11/14 21:54	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.8	1		03/11/14 21:54	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.8	1		03/11/14 21:54	96-12-8	
Dibromochloromethane	ND	ug/kg	4.8	1		03/11/14 21:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.8	1		03/11/14 21:54	106-93-4	
Dibromomethane	ND	ug/kg	4.8	1		03/11/14 21:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.8	1		03/11/14 21:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.8	1		03/11/14 21:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.8	1		03/11/14 21:54	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.5	1		03/11/14 21:54	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.8	1		03/11/14 21:54	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.8	1		03/11/14 21:54	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.8	1		03/11/14 21:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.8	1		03/11/14 21:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.8	1		03/11/14 21:54	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.8	1		03/11/14 21:54	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.8	1		03/11/14 21:54	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.8	1		03/11/14 21:54	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.8	1		03/11/14 21:54	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.8	1		03/11/14 21:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.8	1		03/11/14 21:54	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.8	1		03/11/14 21:54	108-20-3	
Ethylbenzene	ND	ug/kg	4.8	1		03/11/14 21:54	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.8	1		03/11/14 21:54	87-68-3	
2-Hexanone	ND	ug/kg	47.5	1		03/11/14 21:54	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.8	1		03/11/14 21:54	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.8	1		03/11/14 21:54	99-87-6	
Methylene Chloride	ND	ug/kg	19.0	1		03/11/14 21:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	47.5	1		03/11/14 21:54	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.8	1		03/11/14 21:54	1634-04-4	
Naphthalene	ND	ug/kg	4.8	1		03/11/14 21:54	91-20-3	
n-Propylbenzene	ND	ug/kg	4.8	1		03/11/14 21:54	103-65-1	
Styrene	ND	ug/kg	4.8	1		03/11/14 21:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.8	1		03/11/14 21:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.8	1		03/11/14 21:54	79-34-5	
Tetrachloroethene	ND	ug/kg	4.8	1		03/11/14 21:54	127-18-4	
Toluene	ND	ug/kg	4.8	1		03/11/14 21:54	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.8	1		03/11/14 21:54	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.8	1		03/11/14 21:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.8	1		03/11/14 21:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.8	1		03/11/14 21:54	79-00-5	
Trichloroethene	ND	ug/kg	4.8	1		03/11/14 21:54	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.8	1		03/11/14 21:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.8	1		03/11/14 21:54	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.8	1		03/11/14 21:54	95-63-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

Sample: S13-2 **Lab ID: 92192150004** Collected: 03/04/14 13:05 Received: 03/06/14 10:30 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		03/11/14 21:54	108-67-8	
Vinyl acetate	ND	ug/kg	47.5	1		03/11/14 21:54	108-05-4	
Vinyl chloride	ND	ug/kg	9.5	1		03/11/14 21:54	75-01-4	
Xylene (Total)	ND	ug/kg	9.5	1		03/11/14 21:54	1330-20-7	
m&p-Xylene	ND	ug/kg	9.5	1		03/11/14 21:54	179601-23-1	
o-Xylene	ND	ug/kg	4.8	1		03/11/14 21:54	95-47-6	
Surrogates								
Toluene-d8 (S)	100	%	70-130	1		03/11/14 21:54	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130	1		03/11/14 21:54	460-00-4	
1,2-Dichloroethane-d4 (S)	114	%	70-132	1		03/11/14 21:54	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**14.5**	%	0.10	1		03/07/14 15:02		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

Sample: S13-4 **Lab ID: 92192150005** Collected: 03/04/14 13:25 Received: 03/06/14 10:30 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	355	1	03/07/14 11:20	03/14/14 22:16	83-32-9	
Acenaphthylene	ND	ug/kg	355	1	03/07/14 11:20	03/14/14 22:16	208-96-8	
Aniline	ND	ug/kg	355	1	03/07/14 11:20	03/14/14 22:16	62-53-3	
Anthracene	ND	ug/kg	355	1	03/07/14 11:20	03/14/14 22:16	120-12-7	
Benzo(a)anthracene	ND	ug/kg	355	1	03/07/14 11:20	03/14/14 22:16	56-55-3	
Benzo(a)pyrene	ND	ug/kg	355	1	03/07/14 11:20	03/14/14 22:16	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	355	1	03/07/14 11:20	03/14/14 22:16	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	355	1	03/07/14 11:20	03/14/14 22:16	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	355	1	03/07/14 11:20	03/14/14 22:16	207-08-9	
Benzoic Acid	ND	ug/kg	1780	1	03/07/14 11:20	03/14/14 22:16	65-85-0	
Benzyl alcohol	ND	ug/kg	711	1	03/07/14 11:20	03/14/14 22:16	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	355	1	03/07/14 11:20	03/14/14 22:16	101-55-3	
Butylbenzylphthalate	ND	ug/kg	355	1	03/07/14 11:20	03/14/14 22:16	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	711	1	03/07/14 11:20	03/14/14 22:16	59-50-7	
4-Chloroaniline	ND	ug/kg	1780	1	03/07/14 11:20	03/14/14 22:16	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	355	1	03/07/14 11:20	03/14/14 22:16	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	355	1	03/07/14 11:20	03/14/14 22:16	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	355	1	03/07/14 11:20	03/14/14 22:16	108-60-1	
2-Chloronaphthalene	ND	ug/kg	355	1	03/07/14 11:20	03/14/14 22:16	91-58-7	
2-Chlorophenol	ND	ug/kg	355	1	03/07/14 11:20	03/14/14 22:16	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	355	1	03/07/14 11:20	03/14/14 22:16	7005-72-3	
Chrysene	ND	ug/kg	355	1	03/07/14 11:20	03/14/14 22:16	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	355	1	03/07/14 11:20	03/14/14 22:16	53-70-3	
Dibenzofuran	ND	ug/kg	355	1	03/07/14 11:20	03/14/14 22:16	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	355	1	03/07/14 11:20	03/14/14 22:16	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	355	1	03/07/14 11:20	03/14/14 22:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	355	1	03/07/14 11:20	03/14/14 22:16	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	1780	1	03/07/14 11:20	03/14/14 22:16	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	355	1	03/07/14 11:20	03/14/14 22:16	120-83-2	
Diethylphthalate	ND	ug/kg	355	1	03/07/14 11:20	03/14/14 22:16	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	355	1	03/07/14 11:20	03/14/14 22:16	105-67-9	
Dimethylphthalate	ND	ug/kg	355	1	03/07/14 11:20	03/14/14 22:16	131-11-3	
Di-n-butylphthalate	ND	ug/kg	355	1	03/07/14 11:20	03/14/14 22:16	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	711	1	03/07/14 11:20	03/14/14 22:16	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1780	1	03/07/14 11:20	03/14/14 22:16	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	355	1	03/07/14 11:20	03/14/14 22:16	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	355	1	03/07/14 11:20	03/14/14 22:16	606-20-2	
Di-n-octylphthalate	ND	ug/kg	355	1	03/07/14 11:20	03/14/14 22:16	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	355	1	03/07/14 11:20	03/14/14 22:16	117-81-7	
Fluoranthene	ND	ug/kg	355	1	03/07/14 11:20	03/14/14 22:16	206-44-0	
Fluorene	ND	ug/kg	355	1	03/07/14 11:20	03/14/14 22:16	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	355	1	03/07/14 11:20	03/14/14 22:16	87-68-3	
Hexachlorobenzene	ND	ug/kg	355	1	03/07/14 11:20	03/14/14 22:16	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	355	1	03/07/14 11:20	03/14/14 22:16	77-47-4	
Hexachloroethane	ND	ug/kg	355	1	03/07/14 11:20	03/14/14 22:16	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	355	1	03/07/14 11:20	03/14/14 22:16	193-39-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

Sample: S13-4 **Lab ID: 92192150005** Collected: 03/04/14 13:25 Received: 03/06/14 10:30 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	355	1	03/07/14 11:20	03/14/14 22:16	78-59-1	
1-Methylnaphthalene	ND	ug/kg	355	1	03/07/14 11:20	03/14/14 22:16	90-12-0	
2-Methylnaphthalene	ND	ug/kg	355	1	03/07/14 11:20	03/14/14 22:16	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	355	1	03/07/14 11:20	03/14/14 22:16	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	355	1	03/07/14 11:20	03/14/14 22:16		
Naphthalene	ND	ug/kg	355	1	03/07/14 11:20	03/14/14 22:16	91-20-3	
2-Nitroaniline	ND	ug/kg	1780	1	03/07/14 11:20	03/14/14 22:16	88-74-4	
3-Nitroaniline	ND	ug/kg	1780	1	03/07/14 11:20	03/14/14 22:16	99-09-2	
4-Nitroaniline	ND	ug/kg	711	1	03/07/14 11:20	03/14/14 22:16	100-01-6	
Nitrobenzene	ND	ug/kg	355	1	03/07/14 11:20	03/14/14 22:16	98-95-3	
2-Nitrophenol	ND	ug/kg	355	1	03/07/14 11:20	03/14/14 22:16	88-75-5	
4-Nitrophenol	ND	ug/kg	1780	1	03/07/14 11:20	03/14/14 22:16	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	355	1	03/07/14 11:20	03/14/14 22:16	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	355	1	03/07/14 11:20	03/14/14 22:16	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	355	1	03/07/14 11:20	03/14/14 22:16	86-30-6	
Pentachlorophenol	ND	ug/kg	1780	1	03/07/14 11:20	03/14/14 22:16	87-86-5	
Phenanthrene	ND	ug/kg	355	1	03/07/14 11:20	03/14/14 22:16	85-01-8	
Phenol	ND	ug/kg	355	1	03/07/14 11:20	03/14/14 22:16	108-95-2	
Pyrene	ND	ug/kg	355	1	03/07/14 11:20	03/14/14 22:16	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	355	1	03/07/14 11:20	03/14/14 22:16	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	355	1	03/07/14 11:20	03/14/14 22:16	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	355	1	03/07/14 11:20	03/14/14 22:16	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	60	%	23-110	1	03/07/14 11:20	03/14/14 22:16	4165-60-0	
2-Fluorobiphenyl (S)	65	%	30-110	1	03/07/14 11:20	03/14/14 22:16	321-60-8	
Terphenyl-d14 (S)	68	%	28-110	1	03/07/14 11:20	03/14/14 22:16	1718-51-0	
Phenol-d6 (S)	57	%	22-110	1	03/07/14 11:20	03/14/14 22:16	13127-88-3	
2-Fluorophenol (S)	55	%	13-110	1	03/07/14 11:20	03/14/14 22:16	367-12-4	
2,4,6-Tribromophenol (S)	52	%	27-110	1	03/07/14 11:20	03/14/14 22:16	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	90.9	1		03/11/14 22:13	67-64-1	
Benzene	ND	ug/kg	4.5	1		03/11/14 22:13	71-43-2	
Bromobenzene	ND	ug/kg	4.5	1		03/11/14 22:13	108-86-1	
Bromochloromethane	ND	ug/kg	4.5	1		03/11/14 22:13	74-97-5	
Bromodichloromethane	ND	ug/kg	4.5	1		03/11/14 22:13	75-27-4	
Bromoform	ND	ug/kg	4.5	1		03/11/14 22:13	75-25-2	
Bromomethane	ND	ug/kg	9.1	1		03/11/14 22:13	74-83-9	
2-Butanone (MEK)	ND	ug/kg	90.9	1		03/11/14 22:13	78-93-3	
n-Butylbenzene	ND	ug/kg	4.5	1		03/11/14 22:13	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.5	1		03/11/14 22:13	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.5	1		03/11/14 22:13	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.5	1		03/11/14 22:13	56-23-5	
Chlorobenzene	ND	ug/kg	4.5	1		03/11/14 22:13	108-90-7	
Chloroethane	ND	ug/kg	9.1	1		03/11/14 22:13	75-00-3	
Chloroform	ND	ug/kg	4.5	1		03/11/14 22:13	67-66-3	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

Sample: S13-4 **Lab ID: 92192150005** Collected: 03/04/14 13:25 Received: 03/06/14 10:30 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	9.1	1		03/11/14 22:13	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.5	1		03/11/14 22:13	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.5	1		03/11/14 22:13	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.5	1		03/11/14 22:13	96-12-8	
Dibromochloromethane	ND	ug/kg	4.5	1		03/11/14 22:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.5	1		03/11/14 22:13	106-93-4	
Dibromomethane	ND	ug/kg	4.5	1		03/11/14 22:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.5	1		03/11/14 22:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.5	1		03/11/14 22:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.5	1		03/11/14 22:13	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.1	1		03/11/14 22:13	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.5	1		03/11/14 22:13	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.5	1		03/11/14 22:13	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.5	1		03/11/14 22:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.5	1		03/11/14 22:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.5	1		03/11/14 22:13	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.5	1		03/11/14 22:13	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.5	1		03/11/14 22:13	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.5	1		03/11/14 22:13	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.5	1		03/11/14 22:13	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.5	1		03/11/14 22:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.5	1		03/11/14 22:13	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.5	1		03/11/14 22:13	108-20-3	
Ethylbenzene	ND	ug/kg	4.5	1		03/11/14 22:13	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.5	1		03/11/14 22:13	87-68-3	
2-Hexanone	ND	ug/kg	45.5	1		03/11/14 22:13	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.5	1		03/11/14 22:13	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.5	1		03/11/14 22:13	99-87-6	
Methylene Chloride	ND	ug/kg	18.2	1		03/11/14 22:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	45.5	1		03/11/14 22:13	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.5	1		03/11/14 22:13	1634-04-4	
Naphthalene	ND	ug/kg	4.5	1		03/11/14 22:13	91-20-3	
n-Propylbenzene	ND	ug/kg	4.5	1		03/11/14 22:13	103-65-1	
Styrene	ND	ug/kg	4.5	1		03/11/14 22:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.5	1		03/11/14 22:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.5	1		03/11/14 22:13	79-34-5	
Tetrachloroethene	ND	ug/kg	4.5	1		03/11/14 22:13	127-18-4	
Toluene	ND	ug/kg	4.5	1		03/11/14 22:13	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.5	1		03/11/14 22:13	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.5	1		03/11/14 22:13	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.5	1		03/11/14 22:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.5	1		03/11/14 22:13	79-00-5	
Trichloroethene	ND	ug/kg	4.5	1		03/11/14 22:13	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.5	1		03/11/14 22:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.5	1		03/11/14 22:13	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.5	1		03/11/14 22:13	95-63-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

Sample: S13-4 **Lab ID: 92192150005** Collected: 03/04/14 13:25 Received: 03/06/14 10:30 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		03/11/14 22:13	108-67-8	
Vinyl acetate	ND	ug/kg	45.5	1		03/11/14 22:13	108-05-4	
Vinyl chloride	ND	ug/kg	9.1	1		03/11/14 22:13	75-01-4	
Xylene (Total)	ND	ug/kg	9.1	1		03/11/14 22:13	1330-20-7	
m&p-Xylene	ND	ug/kg	9.1	1		03/11/14 22:13	179601-23-1	
o-Xylene	ND	ug/kg	4.5	1		03/11/14 22:13	95-47-6	
Surrogates								
Toluene-d8 (S)	100	%	70-130	1		03/11/14 22:13	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130	1		03/11/14 22:13	460-00-4	
1,2-Dichloroethane-d4 (S)	115	%	70-132	1		03/11/14 22:13	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**7.1**	%	0.10	1		03/07/14 15:03		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

Sample: S71-1 **Lab ID: 92192150006** Collected: 03/04/14 14:25 Received: 03/06/14 10:30 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	392	1	03/07/14 11:20	03/14/14 22:44	83-32-9	
Acenaphthylene	ND	ug/kg	392	1	03/07/14 11:20	03/14/14 22:44	208-96-8	
Aniline	ND	ug/kg	392	1	03/07/14 11:20	03/14/14 22:44	62-53-3	
Anthracene	ND	ug/kg	392	1	03/07/14 11:20	03/14/14 22:44	120-12-7	
Benzo(a)anthracene	ND	ug/kg	392	1	03/07/14 11:20	03/14/14 22:44	56-55-3	
Benzo(a)pyrene	ND	ug/kg	392	1	03/07/14 11:20	03/14/14 22:44	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	392	1	03/07/14 11:20	03/14/14 22:44	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	392	1	03/07/14 11:20	03/14/14 22:44	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	392	1	03/07/14 11:20	03/14/14 22:44	207-08-9	
Benzoic Acid	ND	ug/kg	1960	1	03/07/14 11:20	03/14/14 22:44	65-85-0	
Benzyl alcohol	ND	ug/kg	783	1	03/07/14 11:20	03/14/14 22:44	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	392	1	03/07/14 11:20	03/14/14 22:44	101-55-3	
Butylbenzylphthalate	ND	ug/kg	392	1	03/07/14 11:20	03/14/14 22:44	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	783	1	03/07/14 11:20	03/14/14 22:44	59-50-7	
4-Chloroaniline	ND	ug/kg	1960	1	03/07/14 11:20	03/14/14 22:44	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	392	1	03/07/14 11:20	03/14/14 22:44	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	392	1	03/07/14 11:20	03/14/14 22:44	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	392	1	03/07/14 11:20	03/14/14 22:44	108-60-1	
2-Chloronaphthalene	ND	ug/kg	392	1	03/07/14 11:20	03/14/14 22:44	91-58-7	
2-Chlorophenol	ND	ug/kg	392	1	03/07/14 11:20	03/14/14 22:44	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	392	1	03/07/14 11:20	03/14/14 22:44	7005-72-3	
Chrysene	ND	ug/kg	392	1	03/07/14 11:20	03/14/14 22:44	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	392	1	03/07/14 11:20	03/14/14 22:44	53-70-3	
Dibenzofuran	ND	ug/kg	392	1	03/07/14 11:20	03/14/14 22:44	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	392	1	03/07/14 11:20	03/14/14 22:44	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	392	1	03/07/14 11:20	03/14/14 22:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	392	1	03/07/14 11:20	03/14/14 22:44	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	1960	1	03/07/14 11:20	03/14/14 22:44	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	392	1	03/07/14 11:20	03/14/14 22:44	120-83-2	
Diethylphthalate	ND	ug/kg	392	1	03/07/14 11:20	03/14/14 22:44	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	392	1	03/07/14 11:20	03/14/14 22:44	105-67-9	
Dimethylphthalate	ND	ug/kg	392	1	03/07/14 11:20	03/14/14 22:44	131-11-3	
Di-n-butylphthalate	ND	ug/kg	392	1	03/07/14 11:20	03/14/14 22:44	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	783	1	03/07/14 11:20	03/14/14 22:44	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1960	1	03/07/14 11:20	03/14/14 22:44	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	392	1	03/07/14 11:20	03/14/14 22:44	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	392	1	03/07/14 11:20	03/14/14 22:44	606-20-2	
Di-n-octylphthalate	ND	ug/kg	392	1	03/07/14 11:20	03/14/14 22:44	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	392	1	03/07/14 11:20	03/14/14 22:44	117-81-7	
Fluoranthene	ND	ug/kg	392	1	03/07/14 11:20	03/14/14 22:44	206-44-0	
Fluorene	ND	ug/kg	392	1	03/07/14 11:20	03/14/14 22:44	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	392	1	03/07/14 11:20	03/14/14 22:44	87-68-3	
Hexachlorobenzene	ND	ug/kg	392	1	03/07/14 11:20	03/14/14 22:44	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	392	1	03/07/14 11:20	03/14/14 22:44	77-47-4	
Hexachloroethane	ND	ug/kg	392	1	03/07/14 11:20	03/14/14 22:44	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	392	1	03/07/14 11:20	03/14/14 22:44	193-39-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

Sample: S71-1 **Lab ID: 92192150006** Collected: 03/04/14 14:25 Received: 03/06/14 10:30 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	392	1	03/07/14 11:20	03/14/14 22:44	78-59-1	
1-Methylnaphthalene	ND	ug/kg	392	1	03/07/14 11:20	03/14/14 22:44	90-12-0	
2-Methylnaphthalene	ND	ug/kg	392	1	03/07/14 11:20	03/14/14 22:44	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	392	1	03/07/14 11:20	03/14/14 22:44	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	392	1	03/07/14 11:20	03/14/14 22:44		
Naphthalene	ND	ug/kg	392	1	03/07/14 11:20	03/14/14 22:44	91-20-3	
2-Nitroaniline	ND	ug/kg	1960	1	03/07/14 11:20	03/14/14 22:44	88-74-4	
3-Nitroaniline	ND	ug/kg	1960	1	03/07/14 11:20	03/14/14 22:44	99-09-2	
4-Nitroaniline	ND	ug/kg	783	1	03/07/14 11:20	03/14/14 22:44	100-01-6	
Nitrobenzene	ND	ug/kg	392	1	03/07/14 11:20	03/14/14 22:44	98-95-3	
2-Nitrophenol	ND	ug/kg	392	1	03/07/14 11:20	03/14/14 22:44	88-75-5	
4-Nitrophenol	ND	ug/kg	1960	1	03/07/14 11:20	03/14/14 22:44	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	392	1	03/07/14 11:20	03/14/14 22:44	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	392	1	03/07/14 11:20	03/14/14 22:44	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	392	1	03/07/14 11:20	03/14/14 22:44	86-30-6	
Pentachlorophenol	ND	ug/kg	1960	1	03/07/14 11:20	03/14/14 22:44	87-86-5	
Phenanthrene	ND	ug/kg	392	1	03/07/14 11:20	03/14/14 22:44	85-01-8	
Phenol	ND	ug/kg	392	1	03/07/14 11:20	03/14/14 22:44	108-95-2	
Pyrene	ND	ug/kg	392	1	03/07/14 11:20	03/14/14 22:44	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	392	1	03/07/14 11:20	03/14/14 22:44	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	392	1	03/07/14 11:20	03/14/14 22:44	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	392	1	03/07/14 11:20	03/14/14 22:44	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	64	%	23-110	1	03/07/14 11:20	03/14/14 22:44	4165-60-0	
2-Fluorobiphenyl (S)	67	%	30-110	1	03/07/14 11:20	03/14/14 22:44	321-60-8	
Terphenyl-d14 (S)	78	%	28-110	1	03/07/14 11:20	03/14/14 22:44	1718-51-0	
Phenol-d6 (S)	50	%	22-110	1	03/07/14 11:20	03/14/14 22:44	13127-88-3	
2-Fluorophenol (S)	49	%	13-110	1	03/07/14 11:20	03/14/14 22:44	367-12-4	
2,4,6-Tribromophenol (S)	52	%	27-110	1	03/07/14 11:20	03/14/14 22:44	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	85.0	1		03/11/14 22:33	67-64-1	
Benzene	ND	ug/kg	4.3	1		03/11/14 22:33	71-43-2	
Bromobenzene	ND	ug/kg	4.3	1		03/11/14 22:33	108-86-1	
Bromochloromethane	ND	ug/kg	4.3	1		03/11/14 22:33	74-97-5	
Bromodichloromethane	ND	ug/kg	4.3	1		03/11/14 22:33	75-27-4	
Bromoform	ND	ug/kg	4.3	1		03/11/14 22:33	75-25-2	
Bromomethane	ND	ug/kg	8.5	1		03/11/14 22:33	74-83-9	
2-Butanone (MEK)	ND	ug/kg	85.0	1		03/11/14 22:33	78-93-3	
n-Butylbenzene	ND	ug/kg	4.3	1		03/11/14 22:33	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.3	1		03/11/14 22:33	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.3	1		03/11/14 22:33	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.3	1		03/11/14 22:33	56-23-5	
Chlorobenzene	ND	ug/kg	4.3	1		03/11/14 22:33	108-90-7	
Chloroethane	ND	ug/kg	8.5	1		03/11/14 22:33	75-00-3	
Chloroform	ND	ug/kg	4.3	1		03/11/14 22:33	67-66-3	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

Sample: S71-1 **Lab ID: 92192150006** Collected: 03/04/14 14:25 Received: 03/06/14 10:30 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	8.5	1		03/11/14 22:33	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.3	1		03/11/14 22:33	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.3	1		03/11/14 22:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.3	1		03/11/14 22:33	96-12-8	
Dibromochloromethane	ND	ug/kg	4.3	1		03/11/14 22:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.3	1		03/11/14 22:33	106-93-4	
Dibromomethane	ND	ug/kg	4.3	1		03/11/14 22:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.3	1		03/11/14 22:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.3	1		03/11/14 22:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.3	1		03/11/14 22:33	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.5	1		03/11/14 22:33	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.3	1		03/11/14 22:33	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.3	1		03/11/14 22:33	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.3	1		03/11/14 22:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.3	1		03/11/14 22:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.3	1		03/11/14 22:33	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.3	1		03/11/14 22:33	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.3	1		03/11/14 22:33	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.3	1		03/11/14 22:33	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.3	1		03/11/14 22:33	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.3	1		03/11/14 22:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.3	1		03/11/14 22:33	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.3	1		03/11/14 22:33	108-20-3	
Ethylbenzene	ND	ug/kg	4.3	1		03/11/14 22:33	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.3	1		03/11/14 22:33	87-68-3	
2-Hexanone	ND	ug/kg	42.5	1		03/11/14 22:33	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.3	1		03/11/14 22:33	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.3	1		03/11/14 22:33	99-87-6	
Methylene Chloride	ND	ug/kg	17.0	1		03/11/14 22:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	42.5	1		03/11/14 22:33	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.3	1		03/11/14 22:33	1634-04-4	
Naphthalene	ND	ug/kg	4.3	1		03/11/14 22:33	91-20-3	
n-Propylbenzene	ND	ug/kg	4.3	1		03/11/14 22:33	103-65-1	
Styrene	ND	ug/kg	4.3	1		03/11/14 22:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.3	1		03/11/14 22:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.3	1		03/11/14 22:33	79-34-5	
Tetrachloroethene	ND	ug/kg	4.3	1		03/11/14 22:33	127-18-4	
Toluene	ND	ug/kg	4.3	1		03/11/14 22:33	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.3	1		03/11/14 22:33	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.3	1		03/11/14 22:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.3	1		03/11/14 22:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.3	1		03/11/14 22:33	79-00-5	
Trichloroethene	ND	ug/kg	4.3	1		03/11/14 22:33	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.3	1		03/11/14 22:33	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.3	1		03/11/14 22:33	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.3	1		03/11/14 22:33	95-63-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

Sample: S71-1 **Lab ID: 92192150006** Collected: 03/04/14 14:25 Received: 03/06/14 10:30 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		03/11/14 22:33	108-67-8	
Vinyl acetate	ND	ug/kg	42.5	1		03/11/14 22:33	108-05-4	
Vinyl chloride	ND	ug/kg	8.5	1		03/11/14 22:33	75-01-4	
Xylene (Total)	ND	ug/kg	8.5	1		03/11/14 22:33	1330-20-7	
m&p-Xylene	ND	ug/kg	8.5	1		03/11/14 22:33	179601-23-1	
o-Xylene	ND	ug/kg	4.3	1		03/11/14 22:33	95-47-6	
Surrogates								
Toluene-d8 (S)	100	%	70-130	1		03/11/14 22:33	2037-26-5	
4-Bromofluorobenzene (S)	91	%	70-130	1		03/11/14 22:33	460-00-4	
1,2-Dichloroethane-d4 (S)	118	%	70-132	1		03/11/14 22:33	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**15.7**	%	0.10	1		03/07/14 15:03		

REPORT OF LABORATORY ANALYSIS

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

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

Sample: S71-2 **Lab ID: 92192150007** Collected: 03/04/14 14:40 Received: 03/06/14 10:30 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	408	1	03/07/14 11:20	03/14/14 23:13	83-32-9	
Acenaphthylene	ND	ug/kg	408	1	03/07/14 11:20	03/14/14 23:13	208-96-8	
Aniline	ND	ug/kg	408	1	03/07/14 11:20	03/14/14 23:13	62-53-3	
Anthracene	ND	ug/kg	408	1	03/07/14 11:20	03/14/14 23:13	120-12-7	
Benzo(a)anthracene	ND	ug/kg	408	1	03/07/14 11:20	03/14/14 23:13	56-55-3	
Benzo(a)pyrene	ND	ug/kg	408	1	03/07/14 11:20	03/14/14 23:13	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	408	1	03/07/14 11:20	03/14/14 23:13	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	408	1	03/07/14 11:20	03/14/14 23:13	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	408	1	03/07/14 11:20	03/14/14 23:13	207-08-9	
Benzoic Acid	ND	ug/kg	2040	1	03/07/14 11:20	03/14/14 23:13	65-85-0	
Benzyl alcohol	ND	ug/kg	816	1	03/07/14 11:20	03/14/14 23:13	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	408	1	03/07/14 11:20	03/14/14 23:13	101-55-3	
Butylbenzylphthalate	ND	ug/kg	408	1	03/07/14 11:20	03/14/14 23:13	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	816	1	03/07/14 11:20	03/14/14 23:13	59-50-7	
4-Chloroaniline	ND	ug/kg	2040	1	03/07/14 11:20	03/14/14 23:13	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	408	1	03/07/14 11:20	03/14/14 23:13	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	408	1	03/07/14 11:20	03/14/14 23:13	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	408	1	03/07/14 11:20	03/14/14 23:13	108-60-1	
2-Chloronaphthalene	ND	ug/kg	408	1	03/07/14 11:20	03/14/14 23:13	91-58-7	
2-Chlorophenol	ND	ug/kg	408	1	03/07/14 11:20	03/14/14 23:13	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	408	1	03/07/14 11:20	03/14/14 23:13	7005-72-3	
Chrysene	ND	ug/kg	408	1	03/07/14 11:20	03/14/14 23:13	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	408	1	03/07/14 11:20	03/14/14 23:13	53-70-3	
Dibenzofuran	ND	ug/kg	408	1	03/07/14 11:20	03/14/14 23:13	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	408	1	03/07/14 11:20	03/14/14 23:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	408	1	03/07/14 11:20	03/14/14 23:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	408	1	03/07/14 11:20	03/14/14 23:13	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	2040	1	03/07/14 11:20	03/14/14 23:13	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	408	1	03/07/14 11:20	03/14/14 23:13	120-83-2	
Diethylphthalate	ND	ug/kg	408	1	03/07/14 11:20	03/14/14 23:13	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	408	1	03/07/14 11:20	03/14/14 23:13	105-67-9	
Dimethylphthalate	ND	ug/kg	408	1	03/07/14 11:20	03/14/14 23:13	131-11-3	
Di-n-butylphthalate	ND	ug/kg	408	1	03/07/14 11:20	03/14/14 23:13	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	816	1	03/07/14 11:20	03/14/14 23:13	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	2040	1	03/07/14 11:20	03/14/14 23:13	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	408	1	03/07/14 11:20	03/14/14 23:13	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	408	1	03/07/14 11:20	03/14/14 23:13	606-20-2	
Di-n-octylphthalate	ND	ug/kg	408	1	03/07/14 11:20	03/14/14 23:13	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	408	1	03/07/14 11:20	03/14/14 23:13	117-81-7	
Fluoranthene	ND	ug/kg	408	1	03/07/14 11:20	03/14/14 23:13	206-44-0	
Fluorene	ND	ug/kg	408	1	03/07/14 11:20	03/14/14 23:13	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	408	1	03/07/14 11:20	03/14/14 23:13	87-68-3	
Hexachlorobenzene	ND	ug/kg	408	1	03/07/14 11:20	03/14/14 23:13	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	408	1	03/07/14 11:20	03/14/14 23:13	77-47-4	
Hexachloroethane	ND	ug/kg	408	1	03/07/14 11:20	03/14/14 23:13	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	408	1	03/07/14 11:20	03/14/14 23:13	193-39-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

Sample: S71-2 **Lab ID: 92192150007** Collected: 03/04/14 14:40 Received: 03/06/14 10:30 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	408	1	03/07/14 11:20	03/14/14 23:13	78-59-1	
1-Methylnaphthalene	ND	ug/kg	408	1	03/07/14 11:20	03/14/14 23:13	90-12-0	
2-Methylnaphthalene	ND	ug/kg	408	1	03/07/14 11:20	03/14/14 23:13	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	408	1	03/07/14 11:20	03/14/14 23:13	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	408	1	03/07/14 11:20	03/14/14 23:13		
Naphthalene	ND	ug/kg	408	1	03/07/14 11:20	03/14/14 23:13	91-20-3	
2-Nitroaniline	ND	ug/kg	2040	1	03/07/14 11:20	03/14/14 23:13	88-74-4	
3-Nitroaniline	ND	ug/kg	2040	1	03/07/14 11:20	03/14/14 23:13	99-09-2	
4-Nitroaniline	ND	ug/kg	816	1	03/07/14 11:20	03/14/14 23:13	100-01-6	
Nitrobenzene	ND	ug/kg	408	1	03/07/14 11:20	03/14/14 23:13	98-95-3	
2-Nitrophenol	ND	ug/kg	408	1	03/07/14 11:20	03/14/14 23:13	88-75-5	
4-Nitrophenol	ND	ug/kg	2040	1	03/07/14 11:20	03/14/14 23:13	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	408	1	03/07/14 11:20	03/14/14 23:13	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	408	1	03/07/14 11:20	03/14/14 23:13	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	408	1	03/07/14 11:20	03/14/14 23:13	86-30-6	
Pentachlorophenol	ND	ug/kg	2040	1	03/07/14 11:20	03/14/14 23:13	87-86-5	
Phenanthrene	ND	ug/kg	408	1	03/07/14 11:20	03/14/14 23:13	85-01-8	
Phenol	ND	ug/kg	408	1	03/07/14 11:20	03/14/14 23:13	108-95-2	
Pyrene	ND	ug/kg	408	1	03/07/14 11:20	03/14/14 23:13	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	408	1	03/07/14 11:20	03/14/14 23:13	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	408	1	03/07/14 11:20	03/14/14 23:13	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	408	1	03/07/14 11:20	03/14/14 23:13	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	63	%	23-110	1	03/07/14 11:20	03/14/14 23:13	4165-60-0	
2-Fluorobiphenyl (S)	62	%	30-110	1	03/07/14 11:20	03/14/14 23:13	321-60-8	
Terphenyl-d14 (S)	75	%	28-110	1	03/07/14 11:20	03/14/14 23:13	1718-51-0	
Phenol-d6 (S)	39	%	22-110	1	03/07/14 11:20	03/14/14 23:13	13127-88-3	
2-Fluorophenol (S)	38	%	13-110	1	03/07/14 11:20	03/14/14 23:13	367-12-4	
2,4,6-Tribromophenol (S)	41	%	27-110	1	03/07/14 11:20	03/14/14 23:13	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	86.9	1		03/11/14 22:53	67-64-1	
Benzene	ND	ug/kg	4.3	1		03/11/14 22:53	71-43-2	
Bromobenzene	ND	ug/kg	4.3	1		03/11/14 22:53	108-86-1	
Bromochloromethane	ND	ug/kg	4.3	1		03/11/14 22:53	74-97-5	
Bromodichloromethane	ND	ug/kg	4.3	1		03/11/14 22:53	75-27-4	
Bromoform	ND	ug/kg	4.3	1		03/11/14 22:53	75-25-2	
Bromomethane	ND	ug/kg	8.7	1		03/11/14 22:53	74-83-9	
2-Butanone (MEK)	ND	ug/kg	86.9	1		03/11/14 22:53	78-93-3	
n-Butylbenzene	ND	ug/kg	4.3	1		03/11/14 22:53	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.3	1		03/11/14 22:53	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.3	1		03/11/14 22:53	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.3	1		03/11/14 22:53	56-23-5	
Chlorobenzene	ND	ug/kg	4.3	1		03/11/14 22:53	108-90-7	
Chloroethane	ND	ug/kg	8.7	1		03/11/14 22:53	75-00-3	
Chloroform	ND	ug/kg	4.3	1		03/11/14 22:53	67-66-3	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

Sample: S71-2 **Lab ID: 92192150007** Collected: 03/04/14 14:40 Received: 03/06/14 10:30 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		03/11/14 22:53	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.3	1		03/11/14 22:53	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.3	1		03/11/14 22:53	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.3	1		03/11/14 22:53	96-12-8	
Dibromochloromethane	ND	ug/kg	4.3	1		03/11/14 22:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.3	1		03/11/14 22:53	106-93-4	
Dibromomethane	ND	ug/kg	4.3	1		03/11/14 22:53	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.3	1		03/11/14 22:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.3	1		03/11/14 22:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.3	1		03/11/14 22:53	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.7	1		03/11/14 22:53	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.3	1		03/11/14 22:53	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.3	1		03/11/14 22:53	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.3	1		03/11/14 22:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.3	1		03/11/14 22:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.3	1		03/11/14 22:53	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.3	1		03/11/14 22:53	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.3	1		03/11/14 22:53	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.3	1		03/11/14 22:53	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.3	1		03/11/14 22:53	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.3	1		03/11/14 22:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.3	1		03/11/14 22:53	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.3	1		03/11/14 22:53	108-20-3	
Ethylbenzene	ND	ug/kg	4.3	1		03/11/14 22:53	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.3	1		03/11/14 22:53	87-68-3	
2-Hexanone	ND	ug/kg	43.4	1		03/11/14 22:53	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.3	1		03/11/14 22:53	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.3	1		03/11/14 22:53	99-87-6	
Methylene Chloride	ND	ug/kg	17.4	1		03/11/14 22:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	43.4	1		03/11/14 22:53	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.3	1		03/11/14 22:53	1634-04-4	
Naphthalene	ND	ug/kg	4.3	1		03/11/14 22:53	91-20-3	
n-Propylbenzene	ND	ug/kg	4.3	1		03/11/14 22:53	103-65-1	
Styrene	ND	ug/kg	4.3	1		03/11/14 22:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.3	1		03/11/14 22:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.3	1		03/11/14 22:53	79-34-5	
Tetrachloroethene	ND	ug/kg	4.3	1		03/11/14 22:53	127-18-4	
Toluene	ND	ug/kg	4.3	1		03/11/14 22:53	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.3	1		03/11/14 22:53	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.3	1		03/11/14 22:53	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.3	1		03/11/14 22:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.3	1		03/11/14 22:53	79-00-5	
Trichloroethene	ND	ug/kg	4.3	1		03/11/14 22:53	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.3	1		03/11/14 22:53	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.3	1		03/11/14 22:53	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.3	1		03/11/14 22:53	95-63-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

Sample: S71-2 **Lab ID: 92192150007** Collected: 03/04/14 14:40 Received: 03/06/14 10:30 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		03/11/14 22:53	108-67-8	
Vinyl acetate	ND	ug/kg	43.4	1		03/11/14 22:53	108-05-4	
Vinyl chloride	ND	ug/kg	8.7	1		03/11/14 22:53	75-01-4	
Xylene (Total)	ND	ug/kg	8.7	1		03/11/14 22:53	1330-20-7	
m&p-Xylene	ND	ug/kg	8.7	1		03/11/14 22:53	179601-23-1	
o-Xylene	ND	ug/kg	4.3	1		03/11/14 22:53	95-47-6	
Surrogates								
Toluene-d8 (S)	101	%	70-130	1		03/11/14 22:53	2037-26-5	
4-Bromofluorobenzene (S)	91	%	70-130	1		03/11/14 22:53	460-00-4	
1,2-Dichloroethane-d4 (S)	116	%	70-132	1		03/11/14 22:53	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**19.1**	%	0.10	1		03/07/14 15:03		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

Sample: S71-3 **Lab ID: 92192150008** Collected: 03/04/14 14:55 Received: 03/06/14 10:30 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	450	1	03/07/14 11:20	03/14/14 23:40	83-32-9	
Acenaphthylene	ND	ug/kg	450	1	03/07/14 11:20	03/14/14 23:40	208-96-8	
Aniline	ND	ug/kg	450	1	03/07/14 11:20	03/14/14 23:40	62-53-3	
Anthracene	ND	ug/kg	450	1	03/07/14 11:20	03/14/14 23:40	120-12-7	
Benzo(a)anthracene	ND	ug/kg	450	1	03/07/14 11:20	03/14/14 23:40	56-55-3	
Benzo(a)pyrene	ND	ug/kg	450	1	03/07/14 11:20	03/14/14 23:40	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	450	1	03/07/14 11:20	03/14/14 23:40	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	450	1	03/07/14 11:20	03/14/14 23:40	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	450	1	03/07/14 11:20	03/14/14 23:40	207-08-9	
Benzoic Acid	ND	ug/kg	2250	1	03/07/14 11:20	03/14/14 23:40	65-85-0	
Benzyl alcohol	ND	ug/kg	901	1	03/07/14 11:20	03/14/14 23:40	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	450	1	03/07/14 11:20	03/14/14 23:40	101-55-3	
Butylbenzylphthalate	ND	ug/kg	450	1	03/07/14 11:20	03/14/14 23:40	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	901	1	03/07/14 11:20	03/14/14 23:40	59-50-7	
4-Chloroaniline	ND	ug/kg	2250	1	03/07/14 11:20	03/14/14 23:40	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	450	1	03/07/14 11:20	03/14/14 23:40	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	450	1	03/07/14 11:20	03/14/14 23:40	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	450	1	03/07/14 11:20	03/14/14 23:40	108-60-1	
2-Chloronaphthalene	ND	ug/kg	450	1	03/07/14 11:20	03/14/14 23:40	91-58-7	
2-Chlorophenol	ND	ug/kg	450	1	03/07/14 11:20	03/14/14 23:40	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	450	1	03/07/14 11:20	03/14/14 23:40	7005-72-3	
Chrysene	ND	ug/kg	450	1	03/07/14 11:20	03/14/14 23:40	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	450	1	03/07/14 11:20	03/14/14 23:40	53-70-3	
Dibenzofuran	ND	ug/kg	450	1	03/07/14 11:20	03/14/14 23:40	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	450	1	03/07/14 11:20	03/14/14 23:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	450	1	03/07/14 11:20	03/14/14 23:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	450	1	03/07/14 11:20	03/14/14 23:40	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	2250	1	03/07/14 11:20	03/14/14 23:40	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	450	1	03/07/14 11:20	03/14/14 23:40	120-83-2	
Diethylphthalate	ND	ug/kg	450	1	03/07/14 11:20	03/14/14 23:40	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	450	1	03/07/14 11:20	03/14/14 23:40	105-67-9	
Dimethylphthalate	ND	ug/kg	450	1	03/07/14 11:20	03/14/14 23:40	131-11-3	
Di-n-butylphthalate	ND	ug/kg	450	1	03/07/14 11:20	03/14/14 23:40	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	901	1	03/07/14 11:20	03/14/14 23:40	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	2250	1	03/07/14 11:20	03/14/14 23:40	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	450	1	03/07/14 11:20	03/14/14 23:40	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	450	1	03/07/14 11:20	03/14/14 23:40	606-20-2	
Di-n-octylphthalate	ND	ug/kg	450	1	03/07/14 11:20	03/14/14 23:40	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	450	1	03/07/14 11:20	03/14/14 23:40	117-81-7	
Fluoranthene	ND	ug/kg	450	1	03/07/14 11:20	03/14/14 23:40	206-44-0	
Fluorene	ND	ug/kg	450	1	03/07/14 11:20	03/14/14 23:40	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	450	1	03/07/14 11:20	03/14/14 23:40	87-68-3	
Hexachlorobenzene	ND	ug/kg	450	1	03/07/14 11:20	03/14/14 23:40	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	450	1	03/07/14 11:20	03/14/14 23:40	77-47-4	
Hexachloroethane	ND	ug/kg	450	1	03/07/14 11:20	03/14/14 23:40	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	450	1	03/07/14 11:20	03/14/14 23:40	193-39-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

Sample: S71-3 **Lab ID: 92192150008** Collected: 03/04/14 14:55 Received: 03/06/14 10:30 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	450	1	03/07/14 11:20	03/14/14 23:40	78-59-1	
1-Methylnaphthalene	ND	ug/kg	450	1	03/07/14 11:20	03/14/14 23:40	90-12-0	
2-Methylnaphthalene	ND	ug/kg	450	1	03/07/14 11:20	03/14/14 23:40	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	450	1	03/07/14 11:20	03/14/14 23:40	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	450	1	03/07/14 11:20	03/14/14 23:40		
Naphthalene	ND	ug/kg	450	1	03/07/14 11:20	03/14/14 23:40	91-20-3	
2-Nitroaniline	ND	ug/kg	2250	1	03/07/14 11:20	03/14/14 23:40	88-74-4	
3-Nitroaniline	ND	ug/kg	2250	1	03/07/14 11:20	03/14/14 23:40	99-09-2	
4-Nitroaniline	ND	ug/kg	901	1	03/07/14 11:20	03/14/14 23:40	100-01-6	
Nitrobenzene	ND	ug/kg	450	1	03/07/14 11:20	03/14/14 23:40	98-95-3	
2-Nitrophenol	ND	ug/kg	450	1	03/07/14 11:20	03/14/14 23:40	88-75-5	
4-Nitrophenol	ND	ug/kg	2250	1	03/07/14 11:20	03/14/14 23:40	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	450	1	03/07/14 11:20	03/14/14 23:40	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	450	1	03/07/14 11:20	03/14/14 23:40	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	450	1	03/07/14 11:20	03/14/14 23:40	86-30-6	
Pentachlorophenol	ND	ug/kg	2250	1	03/07/14 11:20	03/14/14 23:40	87-86-5	
Phenanthrene	ND	ug/kg	450	1	03/07/14 11:20	03/14/14 23:40	85-01-8	
Phenol	ND	ug/kg	450	1	03/07/14 11:20	03/14/14 23:40	108-95-2	
Pyrene	ND	ug/kg	450	1	03/07/14 11:20	03/14/14 23:40	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	450	1	03/07/14 11:20	03/14/14 23:40	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	450	1	03/07/14 11:20	03/14/14 23:40	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	450	1	03/07/14 11:20	03/14/14 23:40	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	65	%	23-110	1	03/07/14 11:20	03/14/14 23:40	4165-60-0	
2-Fluorobiphenyl (S)	67	%	30-110	1	03/07/14 11:20	03/14/14 23:40	321-60-8	
Terphenyl-d14 (S)	79	%	28-110	1	03/07/14 11:20	03/14/14 23:40	1718-51-0	
Phenol-d6 (S)	64	%	22-110	1	03/07/14 11:20	03/14/14 23:40	13127-88-3	
2-Fluorophenol (S)	67	%	13-110	1	03/07/14 11:20	03/14/14 23:40	367-12-4	
2,4,6-Tribromophenol (S)	65	%	27-110	1	03/07/14 11:20	03/14/14 23:40	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	**179**	ug/kg	115	1		03/11/14 23:13	67-64-1	A+
Benzene	ND	ug/kg	5.8	1		03/11/14 23:13	71-43-2	
Bromobenzene	ND	ug/kg	5.8	1		03/11/14 23:13	108-86-1	
Bromochloromethane	ND	ug/kg	5.8	1		03/11/14 23:13	74-97-5	
Bromodichloromethane	ND	ug/kg	5.8	1		03/11/14 23:13	75-27-4	
Bromoform	ND	ug/kg	5.8	1		03/11/14 23:13	75-25-2	
Bromomethane	ND	ug/kg	11.5	1		03/11/14 23:13	74-83-9	
2-Butanone (MEK)	ND	ug/kg	115	1		03/11/14 23:13	78-93-3	
n-Butylbenzene	ND	ug/kg	5.8	1		03/11/14 23:13	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.8	1		03/11/14 23:13	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.8	1		03/11/14 23:13	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.8	1		03/11/14 23:13	56-23-5	
Chlorobenzene	ND	ug/kg	5.8	1		03/11/14 23:13	108-90-7	
Chloroethane	ND	ug/kg	11.5	1		03/11/14 23:13	75-00-3	
Chloroform	ND	ug/kg	5.8	1		03/11/14 23:13	67-66-3	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

Sample: S71-3 **Lab ID: 92192150008** Collected: 03/04/14 14:55 Received: 03/06/14 10:30 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	11.5	1		03/11/14 23:13	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.8	1		03/11/14 23:13	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.8	1		03/11/14 23:13	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.8	1		03/11/14 23:13	96-12-8	
Dibromochloromethane	ND	ug/kg	5.8	1		03/11/14 23:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.8	1		03/11/14 23:13	106-93-4	
Dibromomethane	ND	ug/kg	5.8	1		03/11/14 23:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.8	1		03/11/14 23:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.8	1		03/11/14 23:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.8	1		03/11/14 23:13	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	11.5	1		03/11/14 23:13	75-71-8	IO
1,1-Dichloroethane	ND	ug/kg	5.8	1		03/11/14 23:13	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.8	1		03/11/14 23:13	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.8	1		03/11/14 23:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.8	1		03/11/14 23:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.8	1		03/11/14 23:13	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.8	1		03/11/14 23:13	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.8	1		03/11/14 23:13	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.8	1		03/11/14 23:13	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.8	1		03/11/14 23:13	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.8	1		03/11/14 23:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.8	1		03/11/14 23:13	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.8	1		03/11/14 23:13	108-20-3	
Ethylbenzene	ND	ug/kg	5.8	1		03/11/14 23:13	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.8	1		03/11/14 23:13	87-68-3	
2-Hexanone	ND	ug/kg	57.7	1		03/11/14 23:13	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.8	1		03/11/14 23:13	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.8	1		03/11/14 23:13	99-87-6	
Methylene Chloride	ND	ug/kg	23.1	1		03/11/14 23:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	57.7	1		03/11/14 23:13	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.8	1		03/11/14 23:13	1634-04-4	
Naphthalene	ND	ug/kg	5.8	1		03/11/14 23:13	91-20-3	
n-Propylbenzene	ND	ug/kg	5.8	1		03/11/14 23:13	103-65-1	
Styrene	ND	ug/kg	5.8	1		03/11/14 23:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.8	1		03/11/14 23:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.8	1		03/11/14 23:13	79-34-5	
Tetrachloroethene	ND	ug/kg	5.8	1		03/11/14 23:13	127-18-4	
Toluene	ND	ug/kg	5.8	1		03/11/14 23:13	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.8	1		03/11/14 23:13	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.8	1		03/11/14 23:13	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.8	1		03/11/14 23:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.8	1		03/11/14 23:13	79-00-5	
Trichloroethene	ND	ug/kg	5.8	1		03/11/14 23:13	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.8	1		03/11/14 23:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.8	1		03/11/14 23:13	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.8	1		03/11/14 23:13	95-63-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

Sample: S71-3 **Lab ID: 92192150008** Collected: 03/04/14 14:55 Received: 03/06/14 10:30 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	5.8	1		03/11/14 23:13	108-67-8	
Vinyl acetate	ND	ug/kg	57.7	1		03/11/14 23:13	108-05-4	
Vinyl chloride	ND	ug/kg	11.5	1		03/11/14 23:13	75-01-4	
Xylene (Total)	ND	ug/kg	11.5	1		03/11/14 23:13	1330-20-7	
m&p-Xylene	ND	ug/kg	11.5	1		03/11/14 23:13	179601-23-1	
o-Xylene	ND	ug/kg	5.8	1		03/11/14 23:13	95-47-6	
Surrogates								
Toluene-d8 (S)	100	%	70-130	1		03/11/14 23:13	2037-26-5	
4-Bromofluorobenzene (S)	90	%	70-130	1		03/11/14 23:13	460-00-4	
1,2-Dichloroethane-d4 (S)	134	%	70-132	1		03/11/14 23:13	17060-07-0	S2
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**26.7**	%	0.10	1		03/07/14 15:03		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

Sample: S69-1 **Lab ID: 92192150009** Collected: 03/05/14 10:15 Received: 03/06/14 10:30 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	394	1	03/07/14 11:20	03/15/14 00:09	83-32-9	
Acenaphthylene	ND	ug/kg	394	1	03/07/14 11:20	03/15/14 00:09	208-96-8	
Aniline	ND	ug/kg	394	1	03/07/14 11:20	03/15/14 00:09	62-53-3	
Anthracene	ND	ug/kg	394	1	03/07/14 11:20	03/15/14 00:09	120-12-7	
Benzo(a)anthracene	ND	ug/kg	394	1	03/07/14 11:20	03/15/14 00:09	56-55-3	
Benzo(a)pyrene	ND	ug/kg	394	1	03/07/14 11:20	03/15/14 00:09	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	394	1	03/07/14 11:20	03/15/14 00:09	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	394	1	03/07/14 11:20	03/15/14 00:09	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	394	1	03/07/14 11:20	03/15/14 00:09	207-08-9	
Benzoic Acid	ND	ug/kg	1970	1	03/07/14 11:20	03/15/14 00:09	65-85-0	
Benzyl alcohol	ND	ug/kg	788	1	03/07/14 11:20	03/15/14 00:09	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	394	1	03/07/14 11:20	03/15/14 00:09	101-55-3	
Butylbenzylphthalate	ND	ug/kg	394	1	03/07/14 11:20	03/15/14 00:09	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	788	1	03/07/14 11:20	03/15/14 00:09	59-50-7	
4-Chloroaniline	ND	ug/kg	1970	1	03/07/14 11:20	03/15/14 00:09	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	394	1	03/07/14 11:20	03/15/14 00:09	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	394	1	03/07/14 11:20	03/15/14 00:09	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	394	1	03/07/14 11:20	03/15/14 00:09	108-60-1	
2-Chloronaphthalene	ND	ug/kg	394	1	03/07/14 11:20	03/15/14 00:09	91-58-7	
2-Chlorophenol	ND	ug/kg	394	1	03/07/14 11:20	03/15/14 00:09	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	394	1	03/07/14 11:20	03/15/14 00:09	7005-72-3	
Chrysene	ND	ug/kg	394	1	03/07/14 11:20	03/15/14 00:09	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	394	1	03/07/14 11:20	03/15/14 00:09	53-70-3	
Dibenzofuran	ND	ug/kg	394	1	03/07/14 11:20	03/15/14 00:09	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	394	1	03/07/14 11:20	03/15/14 00:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	394	1	03/07/14 11:20	03/15/14 00:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	394	1	03/07/14 11:20	03/15/14 00:09	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	1970	1	03/07/14 11:20	03/15/14 00:09	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	394	1	03/07/14 11:20	03/15/14 00:09	120-83-2	
Diethylphthalate	ND	ug/kg	394	1	03/07/14 11:20	03/15/14 00:09	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	394	1	03/07/14 11:20	03/15/14 00:09	105-67-9	
Dimethylphthalate	ND	ug/kg	394	1	03/07/14 11:20	03/15/14 00:09	131-11-3	
Di-n-butylphthalate	ND	ug/kg	394	1	03/07/14 11:20	03/15/14 00:09	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	788	1	03/07/14 11:20	03/15/14 00:09	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1970	1	03/07/14 11:20	03/15/14 00:09	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	394	1	03/07/14 11:20	03/15/14 00:09	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	394	1	03/07/14 11:20	03/15/14 00:09	606-20-2	
Di-n-octylphthalate	ND	ug/kg	394	1	03/07/14 11:20	03/15/14 00:09	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	394	1	03/07/14 11:20	03/15/14 00:09	117-81-7	
Fluoranthene	ND	ug/kg	394	1	03/07/14 11:20	03/15/14 00:09	206-44-0	
Fluorene	ND	ug/kg	394	1	03/07/14 11:20	03/15/14 00:09	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	394	1	03/07/14 11:20	03/15/14 00:09	87-68-3	
Hexachlorobenzene	ND	ug/kg	394	1	03/07/14 11:20	03/15/14 00:09	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	394	1	03/07/14 11:20	03/15/14 00:09	77-47-4	
Hexachloroethane	ND	ug/kg	394	1	03/07/14 11:20	03/15/14 00:09	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	394	1	03/07/14 11:20	03/15/14 00:09	193-39-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

Sample: S69-1 **Lab ID: 92192150009** Collected: 03/05/14 10:15 Received: 03/06/14 10:30 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	394	1	03/07/14 11:20	03/15/14 00:09	78-59-1	
1-Methylnaphthalene	ND	ug/kg	394	1	03/07/14 11:20	03/15/14 00:09	90-12-0	
2-Methylnaphthalene	ND	ug/kg	394	1	03/07/14 11:20	03/15/14 00:09	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	394	1	03/07/14 11:20	03/15/14 00:09	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	394	1	03/07/14 11:20	03/15/14 00:09		
Naphthalene	ND	ug/kg	394	1	03/07/14 11:20	03/15/14 00:09	91-20-3	
2-Nitroaniline	ND	ug/kg	1970	1	03/07/14 11:20	03/15/14 00:09	88-74-4	
3-Nitroaniline	ND	ug/kg	1970	1	03/07/14 11:20	03/15/14 00:09	99-09-2	
4-Nitroaniline	ND	ug/kg	788	1	03/07/14 11:20	03/15/14 00:09	100-01-6	
Nitrobenzene	ND	ug/kg	394	1	03/07/14 11:20	03/15/14 00:09	98-95-3	
2-Nitrophenol	ND	ug/kg	394	1	03/07/14 11:20	03/15/14 00:09	88-75-5	
4-Nitrophenol	ND	ug/kg	1970	1	03/07/14 11:20	03/15/14 00:09	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	394	1	03/07/14 11:20	03/15/14 00:09	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	394	1	03/07/14 11:20	03/15/14 00:09	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	394	1	03/07/14 11:20	03/15/14 00:09	86-30-6	
Pentachlorophenol	ND	ug/kg	1970	1	03/07/14 11:20	03/15/14 00:09	87-86-5	
Phenanthrene	ND	ug/kg	394	1	03/07/14 11:20	03/15/14 00:09	85-01-8	
Phenol	ND	ug/kg	394	1	03/07/14 11:20	03/15/14 00:09	108-95-2	
Pyrene	ND	ug/kg	394	1	03/07/14 11:20	03/15/14 00:09	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	394	1	03/07/14 11:20	03/15/14 00:09	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	394	1	03/07/14 11:20	03/15/14 00:09	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	394	1	03/07/14 11:20	03/15/14 00:09	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	65	%	23-110	1	03/07/14 11:20	03/15/14 00:09	4165-60-0	
2-Fluorobiphenyl (S)	66	%	30-110	1	03/07/14 11:20	03/15/14 00:09	321-60-8	
Terphenyl-d14 (S)	80	%	28-110	1	03/07/14 11:20	03/15/14 00:09	1718-51-0	
Phenol-d6 (S)	47	%	22-110	1	03/07/14 11:20	03/15/14 00:09	13127-88-3	
2-Fluorophenol (S)	45	%	13-110	1	03/07/14 11:20	03/15/14 00:09	367-12-4	
2,4,6-Tribromophenol (S)	48	%	27-110	1	03/07/14 11:20	03/15/14 00:09	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	85.1	1		03/11/14 23:33	67-64-1	
Benzene	ND	ug/kg	4.3	1		03/11/14 23:33	71-43-2	
Bromobenzene	ND	ug/kg	4.3	1		03/11/14 23:33	108-86-1	
Bromochloromethane	ND	ug/kg	4.3	1		03/11/14 23:33	74-97-5	
Bromodichloromethane	ND	ug/kg	4.3	1		03/11/14 23:33	75-27-4	
Bromoform	ND	ug/kg	4.3	1		03/11/14 23:33	75-25-2	
Bromomethane	ND	ug/kg	8.5	1		03/11/14 23:33	74-83-9	
2-Butanone (MEK)	ND	ug/kg	85.1	1		03/11/14 23:33	78-93-3	
n-Butylbenzene	ND	ug/kg	4.3	1		03/11/14 23:33	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.3	1		03/11/14 23:33	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.3	1		03/11/14 23:33	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.3	1		03/11/14 23:33	56-23-5	
Chlorobenzene	ND	ug/kg	4.3	1		03/11/14 23:33	108-90-7	
Chloroethane	ND	ug/kg	8.5	1		03/11/14 23:33	75-00-3	
Chloroform	ND	ug/kg	4.3	1		03/11/14 23:33	67-66-3	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

Sample: S69-1 **Lab ID: 92192150009** Collected: 03/05/14 10:15 Received: 03/06/14 10:30 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	8.5	1		03/11/14 23:33	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.3	1		03/11/14 23:33	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.3	1		03/11/14 23:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.3	1		03/11/14 23:33	96-12-8	
Dibromochloromethane	ND	ug/kg	4.3	1		03/11/14 23:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.3	1		03/11/14 23:33	106-93-4	
Dibromomethane	ND	ug/kg	4.3	1		03/11/14 23:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.3	1		03/11/14 23:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.3	1		03/11/14 23:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.3	1		03/11/14 23:33	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.5	1		03/11/14 23:33	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.3	1		03/11/14 23:33	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.3	1		03/11/14 23:33	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.3	1		03/11/14 23:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.3	1		03/11/14 23:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.3	1		03/11/14 23:33	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.3	1		03/11/14 23:33	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.3	1		03/11/14 23:33	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.3	1		03/11/14 23:33	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.3	1		03/11/14 23:33	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.3	1		03/11/14 23:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.3	1		03/11/14 23:33	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.3	1		03/11/14 23:33	108-20-3	
Ethylbenzene	ND	ug/kg	4.3	1		03/11/14 23:33	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.3	1		03/11/14 23:33	87-68-3	
2-Hexanone	ND	ug/kg	42.5	1		03/11/14 23:33	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.3	1		03/11/14 23:33	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.3	1		03/11/14 23:33	99-87-6	
Methylene Chloride	ND	ug/kg	17.0	1		03/11/14 23:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	42.5	1		03/11/14 23:33	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.3	1		03/11/14 23:33	1634-04-4	
Naphthalene	ND	ug/kg	4.3	1		03/11/14 23:33	91-20-3	
n-Propylbenzene	ND	ug/kg	4.3	1		03/11/14 23:33	103-65-1	
Styrene	ND	ug/kg	4.3	1		03/11/14 23:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.3	1		03/11/14 23:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.3	1		03/11/14 23:33	79-34-5	
Tetrachloroethene	ND	ug/kg	4.3	1		03/11/14 23:33	127-18-4	
Toluene	ND	ug/kg	4.3	1		03/11/14 23:33	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.3	1		03/11/14 23:33	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.3	1		03/11/14 23:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.3	1		03/11/14 23:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.3	1		03/11/14 23:33	79-00-5	
Trichloroethene	ND	ug/kg	4.3	1		03/11/14 23:33	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.3	1		03/11/14 23:33	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.3	1		03/11/14 23:33	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.3	1		03/11/14 23:33	95-63-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

Sample: S69-1 **Lab ID: 92192150009** Collected: 03/05/14 10:15 Received: 03/06/14 10:30 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		03/11/14 23:33	108-67-8	
Vinyl acetate	ND	ug/kg	42.5	1		03/11/14 23:33	108-05-4	
Vinyl chloride	ND	ug/kg	8.5	1		03/11/14 23:33	75-01-4	
Xylene (Total)	ND	ug/kg	8.5	1		03/11/14 23:33	1330-20-7	
m&p-Xylene	ND	ug/kg	8.5	1		03/11/14 23:33	179601-23-1	
o-Xylene	ND	ug/kg	4.3	1		03/11/14 23:33	95-47-6	
Surrogates								
Toluene-d8 (S)	101	%	70-130	1		03/11/14 23:33	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130	1		03/11/14 23:33	460-00-4	
1,2-Dichloroethane-d4 (S)	115	%	70-132	1		03/11/14 23:33	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**16.3**	%	0.10	1		03/07/14 15:03		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

Sample: MW20-1 **Lab ID: 92192150010** Collected: 03/05/14 15:40 Received: 03/06/14 10:30 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	03/10/14 14:20	03/13/14 00:48	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 00:48	208-96-8	
Aniline	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 00:48	62-53-3	
Anthracene	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 00:48	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 00:48	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 00:48	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 00:48	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 00:48	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 00:48	207-08-9	
Benzoic Acid	ND	ug/L	50.0	1	03/10/14 14:20	03/13/14 00:48	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	1	03/10/14 14:20	03/13/14 00:48	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 00:48	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 00:48	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	1	03/10/14 14:20	03/13/14 00:48	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	1	03/10/14 14:20	03/13/14 00:48	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 00:48	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 00:48	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 00:48	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 00:48	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 00:48	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 00:48	7005-72-3	
Chrysene	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 00:48	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 00:48	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 00:48	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 00:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 00:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 00:48	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	1	03/10/14 14:20	03/13/14 00:48	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 00:48	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 00:48	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 00:48	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 00:48	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 00:48	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1	03/10/14 14:20	03/13/14 00:48	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	1	03/10/14 14:20	03/13/14 00:48	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 00:48	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 00:48	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 00:48	117-84-0	
bis(2-Ethylhexyl)phthalate	**9.4**	ug/L	6.0	1	03/10/14 14:20	03/13/14 00:48	117-81-7	
Fluoranthene	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 00:48	206-44-0	
Fluorene	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 00:48	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 00:48	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 00:48	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 00:48	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 00:48	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 00:48	193-39-5	
Isophorone	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 00:48	78-59-1	

Pace Analytical Services, Inc.
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ANALYTICAL RESULTS

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

Sample: MW20-1 **Lab ID: 92192150010** Collected: 03/05/14 15:40 Received: 03/06/14 10:30 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	03/10/14 14:20	03/13/14 00:48	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 00:48	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 00:48	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 00:48		
Naphthalene	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 00:48	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	1	03/10/14 14:20	03/13/14 00:48	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	1	03/10/14 14:20	03/13/14 00:48	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	1	03/10/14 14:20	03/13/14 00:48	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 00:48	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 00:48	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	1	03/10/14 14:20	03/13/14 00:48	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 00:48	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 00:48	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 00:48	86-30-6	
Pentachlorophenol	ND	ug/L	25.0	1	03/10/14 14:20	03/13/14 00:48	87-86-5	
Phenanthrene	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 00:48	85-01-8	
Phenol	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 00:48	108-95-2	
Pyrene	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 00:48	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 00:48	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 00:48	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 00:48	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	40	%	21-110	1	03/10/14 14:20	03/13/14 00:48	4165-60-0	
2-Fluorobiphenyl (S)	48	%	27-110	1	03/10/14 14:20	03/13/14 00:48	321-60-8	
Terphenyl-d14 (S)	65	%	31-107	1	03/10/14 14:20	03/13/14 00:48	1718-51-0	
Phenol-d6 (S)	18	%	10-110	1	03/10/14 14:20	03/13/14 00:48	13127-88-3	
2-Fluorophenol (S)	23	%	12-110	1	03/10/14 14:20	03/13/14 00:48	367-12-4	
2,4,6-Tribromophenol (S)	75	%	27-110	1	03/10/14 14:20	03/13/14 00:48	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		03/11/14 05:19	67-64-1	
Benzene	ND	ug/L	5.0	1		03/11/14 05:19	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		03/11/14 05:19	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		03/11/14 05:19	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		03/11/14 05:19	75-27-4	
Bromoform	ND	ug/L	5.0	1		03/11/14 05:19	75-25-2	
Bromomethane	ND	ug/L	10.0	1		03/11/14 05:19	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/11/14 05:19	78-93-3	
tert-Butyl Alcohol	ND	ug/L	100	1		03/11/14 05:19	75-65-0	
n-Butylbenzene	ND	ug/L	5.0	1		03/11/14 05:19	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		03/11/14 05:19	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		03/11/14 05:19	98-06-6	
Carbon tetrachloride	ND	ug/L	5.0	1		03/11/14 05:19	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		03/11/14 05:19	108-90-7	
Chloroethane	ND	ug/L	10.0	1		03/11/14 05:19	75-00-3	
Chloroform	ND	ug/L	5.0	1		03/11/14 05:19	67-66-3	
Chloromethane	ND	ug/L	5.0	1		03/11/14 05:19	74-87-3	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

Sample: MW20-1 **Lab ID: 92192150010** Collected: 03/05/14 15:40 Received: 03/06/14 10:30 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		03/11/14 05:19	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		03/11/14 05:19	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		03/11/14 05:19	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		03/11/14 05:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		03/11/14 05:19	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		03/11/14 05:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		03/11/14 05:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		03/11/14 05:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		03/11/14 05:19	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		03/11/14 05:19	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/11/14 05:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/11/14 05:19	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	5.0	1		03/11/14 05:19	540-59-0	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/11/14 05:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/11/14 05:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/11/14 05:19	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		03/11/14 05:19	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		03/11/14 05:19	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		03/11/14 05:19	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		03/11/14 05:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/11/14 05:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		03/11/14 05:19	10061-02-6	
Diisopropyl ether	ND	ug/L	5.0	1		03/11/14 05:19	108-20-3	
Ethylbenzene	ND	ug/L	5.0	1		03/11/14 05:19	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		03/11/14 05:19	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		03/11/14 05:19	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		03/11/14 05:19	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		03/11/14 05:19	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		03/11/14 05:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/11/14 05:19	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		03/11/14 05:19	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		03/11/14 05:19	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		03/11/14 05:19	103-65-1	
Styrene	ND	ug/L	5.0	1		03/11/14 05:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		03/11/14 05:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		03/11/14 05:19	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		03/11/14 05:19	127-18-4	
Toluene	ND	ug/L	5.0	1		03/11/14 05:19	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		03/11/14 05:19	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		03/11/14 05:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/11/14 05:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		03/11/14 05:19	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		03/11/14 05:19	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		03/11/14 05:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		03/11/14 05:19	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		03/11/14 05:19	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		03/11/14 05:19	108-67-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

Sample: MW20-1 **Lab ID: 92192150010** Collected: 03/05/14 15:40 Received: 03/06/14 10:30 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		03/11/14 05:19	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1		03/11/14 05:19	75-01-4	
m&p-Xylene	ND	ug/L	10.0	1		03/11/14 05:19	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		03/11/14 05:19	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		03/11/14 05:19	460-00-4	
1,2-Dichloroethane-d4 (S)	88	%	70-130	1		03/11/14 05:19	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		03/11/14 05:19	2037-26-5	

Pace Analytical Services, Inc.
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ANALYTICAL RESULTS

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

Sample: MW20-3 **Lab ID: 92192150011** Collected: 03/05/14 15:25 Received: 03/06/14 10:30 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	03/10/14 14:20	03/13/14 01:16	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 01:16	208-96-8	
Aniline	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 01:16	62-53-3	
Anthracene	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 01:16	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 01:16	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 01:16	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 01:16	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 01:16	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 01:16	207-08-9	
Benzoic Acid	ND	ug/L	50.0	1	03/10/14 14:20	03/13/14 01:16	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	1	03/10/14 14:20	03/13/14 01:16	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 01:16	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 01:16	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	1	03/10/14 14:20	03/13/14 01:16	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	1	03/10/14 14:20	03/13/14 01:16	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 01:16	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 01:16	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 01:16	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 01:16	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 01:16	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 01:16	7005-72-3	
Chrysene	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 01:16	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 01:16	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 01:16	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 01:16	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 01:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 01:16	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	1	03/10/14 14:20	03/13/14 01:16	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 01:16	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 01:16	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 01:16	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 01:16	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 01:16	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1	03/10/14 14:20	03/13/14 01:16	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	1	03/10/14 14:20	03/13/14 01:16	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 01:16	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 01:16	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 01:16	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	1	03/10/14 14:20	03/13/14 01:16	117-81-7	
Fluoranthene	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 01:16	206-44-0	
Fluorene	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 01:16	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 01:16	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 01:16	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 01:16	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 01:16	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 01:16	193-39-5	
Isophorone	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 01:16	78-59-1	

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ANALYTICAL RESULTS

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

Sample: MW20-3 **Lab ID: 92192150011** Collected: 03/05/14 15:25 Received: 03/06/14 10:30 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	03/10/14 14:20	03/13/14 01:16	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 01:16	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 01:16	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 01:16		
Naphthalene	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 01:16	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	1	03/10/14 14:20	03/13/14 01:16	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	1	03/10/14 14:20	03/13/14 01:16	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	1	03/10/14 14:20	03/13/14 01:16	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 01:16	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 01:16	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	1	03/10/14 14:20	03/13/14 01:16	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 01:16	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 01:16	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 01:16	86-30-6	
Pentachlorophenol	ND	ug/L	25.0	1	03/10/14 14:20	03/13/14 01:16	87-86-5	
Phenanthrene	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 01:16	85-01-8	
Phenol	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 01:16	108-95-2	
Pyrene	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 01:16	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 01:16	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 01:16	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1	03/10/14 14:20	03/13/14 01:16	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	70	%	21-110	1	03/10/14 14:20	03/13/14 01:16	4165-60-0	
2-Fluorobiphenyl (S)	71	%	27-110	1	03/10/14 14:20	03/13/14 01:16	321-60-8	
Terphenyl-d14 (S)	90	%	31-107	1	03/10/14 14:20	03/13/14 01:16	1718-51-0	
Phenol-d6 (S)	28	%	10-110	1	03/10/14 14:20	03/13/14 01:16	13127-88-3	
2-Fluorophenol (S)	39	%	12-110	1	03/10/14 14:20	03/13/14 01:16	367-12-4	
2,4,6-Tribromophenol (S)	82	%	27-110	1	03/10/14 14:20	03/13/14 01:16	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		03/17/14 15:30	67-64-1	
Benzene	ND	ug/L	5.0	1		03/17/14 15:30	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		03/17/14 15:30	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		03/17/14 15:30	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		03/17/14 15:30	75-27-4	
Bromoform	ND	ug/L	5.0	1		03/17/14 15:30	75-25-2	
Bromomethane	ND	ug/L	10.0	1		03/17/14 15:30	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/17/14 15:30	78-93-3	
tert-Butyl Alcohol	ND	ug/L	100	1		03/17/14 15:30	75-65-0	
n-Butylbenzene	ND	ug/L	5.0	1		03/17/14 15:30	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		03/17/14 15:30	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		03/17/14 15:30	98-06-6	
Carbon tetrachloride	ND	ug/L	5.0	1		03/17/14 15:30	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		03/17/14 15:30	108-90-7	
Chloroethane	ND	ug/L	10.0	1		03/17/14 15:30	75-00-3	
Chloroform	ND	ug/L	5.0	1		03/17/14 15:30	67-66-3	
Chloromethane	ND	ug/L	5.0	1		03/17/14 15:30	74-87-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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ANALYTICAL RESULTS

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

Sample: MW20-3 **Lab ID: 92192150011** Collected: 03/05/14 15:25 Received: 03/06/14 10:30 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		03/17/14 15:30	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		03/17/14 15:30	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		03/17/14 15:30	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		03/17/14 15:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		03/17/14 15:30	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		03/17/14 15:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		03/17/14 15:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		03/17/14 15:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		03/17/14 15:30	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		03/17/14 15:30	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/17/14 15:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/17/14 15:30	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	5.0	1		03/17/14 15:30	540-59-0	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/17/14 15:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/17/14 15:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/17/14 15:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		03/17/14 15:30	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		03/17/14 15:30	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		03/17/14 15:30	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		03/17/14 15:30	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/17/14 15:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		03/17/14 15:30	10061-02-6	
Diisopropyl ether	ND	ug/L	5.0	1		03/17/14 15:30	108-20-3	
Ethylbenzene	ND	ug/L	5.0	1		03/17/14 15:30	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		03/17/14 15:30	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		03/17/14 15:30	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		03/17/14 15:30	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		03/17/14 15:30	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		03/17/14 15:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/17/14 15:30	108-10-1	
Methyl-tert-butyl ether	**18.5**	ug/L	5.0	1		03/17/14 15:30	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		03/17/14 15:30	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		03/17/14 15:30	103-65-1	
Styrene	ND	ug/L	5.0	1		03/17/14 15:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		03/17/14 15:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		03/17/14 15:30	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		03/17/14 15:30	127-18-4	
Toluene	ND	ug/L	5.0	1		03/17/14 15:30	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		03/17/14 15:30	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		03/17/14 15:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/17/14 15:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		03/17/14 15:30	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		03/17/14 15:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		03/17/14 15:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		03/17/14 15:30	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		03/17/14 15:30	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		03/17/14 15:30	108-67-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

Sample: MW20-3 **Lab ID: 92192150011** Collected: 03/05/14 15:25 Received: 03/06/14 10:30 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		03/17/14 15:30	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1		03/17/14 15:30	75-01-4	
m&p-Xylene	ND	ug/L	10.0	1		03/17/14 15:30	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		03/17/14 15:30	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		03/17/14 15:30	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130	1		03/17/14 15:30	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		03/17/14 15:30	2037-26-5	

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QUALITY CONTROL DATA

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

QC Batch: MSV/26036 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 92192150010

METHOD BLANK: 1153959 Matrix: Water
Associated Lab Samples: 92192150010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	03/11/14 04:01	
1,1,1-Trichloroethane	ug/L	ND	5.0	03/11/14 04:01	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	03/11/14 04:01	
1,1,2-Trichloroethane	ug/L	ND	5.0	03/11/14 04:01	
1,1-Dichloroethane	ug/L	ND	5.0	03/11/14 04:01	
1,1-Dichloroethene	ug/L	ND	5.0	03/11/14 04:01	
1,1-Dichloropropene	ug/L	ND	5.0	03/11/14 04:01	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	03/11/14 04:01	
1,2,3-Trichloropropane	ug/L	ND	5.0	03/11/14 04:01	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	03/11/14 04:01	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	03/11/14 04:01	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	03/11/14 04:01	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	03/11/14 04:01	
1,2-Dichlorobenzene	ug/L	ND	5.0	03/11/14 04:01	
1,2-Dichloroethane	ug/L	ND	5.0	03/11/14 04:01	
1,2-Dichloroethene (Total)	ug/L	ND	5.0	03/11/14 04:01	
1,2-Dichloropropane	ug/L	ND	5.0	03/11/14 04:01	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	03/11/14 04:01	
1,3-Dichlorobenzene	ug/L	ND	5.0	03/11/14 04:01	
1,3-Dichloropropane	ug/L	ND	5.0	03/11/14 04:01	
1,4-Dichlorobenzene	ug/L	ND	5.0	03/11/14 04:01	
2,2-Dichloropropane	ug/L	ND	5.0	03/11/14 04:01	
2-Butanone (MEK)	ug/L	ND	10.0	03/11/14 04:01	
2-Chlorotoluene	ug/L	ND	5.0	03/11/14 04:01	
2-Hexanone	ug/L	ND	10.0	03/11/14 04:01	
4-Chlorotoluene	ug/L	ND	5.0	03/11/14 04:01	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	03/11/14 04:01	
Acetone	ug/L	ND	25.0	03/11/14 04:01	
Benzene	ug/L	ND	5.0	03/11/14 04:01	
Bromobenzene	ug/L	ND	5.0	03/11/14 04:01	
Bromochloromethane	ug/L	ND	5.0	03/11/14 04:01	
Bromodichloromethane	ug/L	ND	5.0	03/11/14 04:01	
Bromoform	ug/L	ND	5.0	03/11/14 04:01	
Bromomethane	ug/L	ND	10.0	03/11/14 04:01	
Carbon tetrachloride	ug/L	ND	5.0	03/11/14 04:01	
Chlorobenzene	ug/L	ND	5.0	03/11/14 04:01	
Chloroethane	ug/L	ND	10.0	03/11/14 04:01	
Chloroform	ug/L	ND	5.0	03/11/14 04:01	
Chloromethane	ug/L	ND	5.0	03/11/14 04:01	
cis-1,2-Dichloroethene	ug/L	ND	5.0	03/11/14 04:01	
cis-1,3-Dichloropropene	ug/L	ND	5.0	03/11/14 04:01	
Dibromochloromethane	ug/L	ND	5.0	03/11/14 04:01	
Dibromomethane	ug/L	ND	5.0	03/11/14 04:01	

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
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QUALITY CONTROL DATA

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

METHOD BLANK: 1153959 Matrix: Water
Associated Lab Samples: 92192150010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	5.0	03/11/14 04:01	
Diisopropyl ether	ug/L	ND	5.0	03/11/14 04:01	
Ethylbenzene	ug/L	ND	5.0	03/11/14 04:01	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	03/11/14 04:01	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	03/11/14 04:01	
m&p-Xylene	ug/L	ND	10.0	03/11/14 04:01	
Methyl-tert-butyl ether	ug/L	ND	5.0	03/11/14 04:01	
Methylene Chloride	ug/L	ND	5.0	03/11/14 04:01	
n-Butylbenzene	ug/L	ND	5.0	03/11/14 04:01	
n-Propylbenzene	ug/L	ND	5.0	03/11/14 04:01	
Naphthalene	ug/L	ND	5.0	03/11/14 04:01	
o-Xylene	ug/L	ND	5.0	03/11/14 04:01	
p-Isopropyltoluene	ug/L	ND	5.0	03/11/14 04:01	
sec-Butylbenzene	ug/L	ND	5.0	03/11/14 04:01	
Styrene	ug/L	ND	5.0	03/11/14 04:01	
tert-Butyl Alcohol	ug/L	ND	100	03/11/14 04:01	
tert-Butylbenzene	ug/L	ND	5.0	03/11/14 04:01	
Tetrachloroethene	ug/L	ND	5.0	03/11/14 04:01	
Toluene	ug/L	ND	5.0	03/11/14 04:01	
trans-1,2-Dichloroethene	ug/L	ND	5.0	03/11/14 04:01	
trans-1,3-Dichloropropene	ug/L	ND	5.0	03/11/14 04:01	
Trichloroethene	ug/L	ND	5.0	03/11/14 04:01	
Trichlorofluoromethane	ug/L	ND	10.0	03/11/14 04:01	
Vinyl acetate	ug/L	ND	10.0	03/11/14 04:01	
Vinyl chloride	ug/L	ND	5.0	03/11/14 04:01	
1,2-Dichloroethane-d4 (S)	%	91	70-130	03/11/14 04:01	
4-Bromofluorobenzene (S)	%	102	70-130	03/11/14 04:01	
Toluene-d8 (S)	%	99	70-130	03/11/14 04:01	

LABORATORY CONTROL SAMPLE: 1153960

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.8	104	70-130	
1,1,1-Trichloroethane	ug/L	50	47.8	96	70-137	
1,1,2,2-Tetrachloroethane	ug/L	50	51.4	103	70-130	
1,1,2-Trichloroethane	ug/L	50	53.3	107	70-130	
1,1-Dichloroethane	ug/L	50	47.4	95	70-137	
1,1-Dichloroethene	ug/L	50	45.3	91	70-138	
1,1-Dichloropropene	ug/L	50	49.3	99	70-130	
1,2,3-Trichlorobenzene	ug/L	50	39.8	80	70-143	
1,2,3-Trichloropropane	ug/L	50	52.9	106	70-130	
1,2,4-Trichlorobenzene	ug/L	50	41.4	83	70-138	
1,2,4-Trimethylbenzene	ug/L	50	50.4	101	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	46.7	93	68-134	
1,2-Dibromoethane (EDB)	ug/L	50	53.6	107	70-130	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

LABORATORY CONTROL SAMPLE: 1153960

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/L	50	50.5	101	70-130	
1,2-Dichloroethane	ug/L	50	44.9	90	70-133	
1,2-Dichloroethene (Total)	ug/L	100	91.3	91	70-130	
1,2-Dichloropropane	ug/L	50	50.2	100	70-130	
1,3,5-Trimethylbenzene	ug/L	50	51.1	102	70-130	
1,3-Dichlorobenzene	ug/L	50	49.4	99	70-130	
1,3-Dichloropropane	ug/L	50	51.1	102	70-130	
1,4-Dichlorobenzene	ug/L	50	50.0	100	70-130	
2,2-Dichloropropane	ug/L	50	43.9	88	61-142	
2-Butanone (MEK)	ug/L	100	99.8	100	63-150	
2-Chlorotoluene	ug/L	50	48.4	97	70-130	
2-Hexanone	ug/L	100	101	101	70-137	
4-Chlorotoluene	ug/L	50	50.3	101	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	99.8	100	70-134	
Acetone	ug/L	100	90.0	90	68-160	
Benzene	ug/L	50	51.4	103	70-130	
Bromobenzene	ug/L	50	50.6	101	70-130	
Bromochloromethane	ug/L	50	51.4	103	70-135	
Bromodichloromethane	ug/L	50	48.6	97	70-130	
Bromoform	ug/L	50	56.4	113	70-130	
Bromomethane	ug/L	50	41.9	84	63-130	
Carbon tetrachloride	ug/L	50	49.2	98	70-146	
Chlorobenzene	ug/L	50	51.2	102	70-130	
Chloroethane	ug/L	50	44.7	89	60-151	
Chloroform	ug/L	50	47.0	94	70-130	
Chloromethane	ug/L	50	41.5	83	65-133	
cis-1,2-Dichloroethene	ug/L	50	45.7	91	70-134	
cis-1,3-Dichloropropene	ug/L	50	50.0	100	70-130	
Dibromochloromethane	ug/L	50	52.7	105	70-130	
Dibromomethane	ug/L	50	54.1	108	70-130	
Dichlorodifluoromethane	ug/L	50	43.6	87	66-130	
Diisopropyl ether	ug/L	50	47.0	94	70-133	
Ethylbenzene	ug/L	50	49.3	99	70-130	
Hexachloro-1,3-butadiene	ug/L	50	43.9	88	58-151	
Isopropylbenzene (Cumene)	ug/L	50	51.4	103	70-130	
m&p-Xylene	ug/L	100	102	102	70-130	
Methyl-tert-butyl ether	ug/L	50	51.4	103	70-136	
Methylene Chloride	ug/L	50	42.5	85	70-130	
n-Butylbenzene	ug/L	50	48.0	96	70-130	
n-Propylbenzene	ug/L	50	51.3	103	70-130	
Naphthalene	ug/L	50	40.9	82	70-139	
o-Xylene	ug/L	50	50.9	102	70-130	
p-Isopropyltoluene	ug/L	50	50.0	100	70-130	
sec-Butylbenzene	ug/L	50	50.6	101	70-130	
Styrene	ug/L	50	53.4	107	70-130	
tert-Butyl Alcohol	ug/L	500	523	105	69-151	
tert-Butylbenzene	ug/L	50	50.7	101	70-130	
Tetrachloroethene	ug/L	50	51.8	104	70-130	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

LABORATORY CONTROL SAMPLE: 1153960

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	50	50.3	101	70-130	
trans-1,2-Dichloroethene	ug/L	50	45.6	91	70-130	
trans-1,3-Dichloropropene	ug/L	50	50.8	102	70-130	
Trichloroethene	ug/L	50	51.0	102	70-130	
Trichlorofluoromethane	ug/L	50	46.8	94	70-130	
Vinyl acetate	ug/L	100	93.0	93	67-148	
Vinyl chloride	ug/L	50	48.3	97	67-133	
1,2-Dichloroethane-d4 (S)	%			89	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1154274 1154275

Parameter	Units	92192150010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	45.9	48.0	92	96	65-160	4	
Benzene	ug/L	ND	50	50	50.7	53.9	101	108	58-162	6	
Chlorobenzene	ug/L	ND	50	50	50.1	53.5	100	107	70-138	6	
Toluene	ug/L	ND	50	50	47.8	51.6	96	103	65-152	8	
Trichloroethene	ug/L	ND	50	50	53.3	56.8	107	114	70-142	6	
1,2-Dichloroethane-d4 (S)	%						87	88	70-130		
4-Bromofluorobenzene (S)	%						102	102	70-130		
Toluene-d8 (S)	%						98	99	70-130		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

QC Batch: MSV/26114 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 92192150011

METHOD BLANK: 1158705 Matrix: Water
Associated Lab Samples: 92192150011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	03/17/14 12:20	
1,1,1-Trichloroethane	ug/L	ND	5.0	03/17/14 12:20	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	03/17/14 12:20	
1,1,2-Trichloroethane	ug/L	ND	5.0	03/17/14 12:20	
1,1-Dichloroethane	ug/L	ND	5.0	03/17/14 12:20	
1,1-Dichloroethene	ug/L	ND	5.0	03/17/14 12:20	
1,1-Dichloropropene	ug/L	ND	5.0	03/17/14 12:20	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	03/17/14 12:20	
1,2,3-Trichloropropane	ug/L	ND	5.0	03/17/14 12:20	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	03/17/14 12:20	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	03/17/14 12:20	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	03/17/14 12:20	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	03/17/14 12:20	
1,2-Dichlorobenzene	ug/L	ND	5.0	03/17/14 12:20	
1,2-Dichloroethane	ug/L	ND	5.0	03/17/14 12:20	
1,2-Dichloroethene (Total)	ug/L	ND	5.0	03/17/14 12:20	
1,2-Dichloropropane	ug/L	ND	5.0	03/17/14 12:20	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	03/17/14 12:20	
1,3-Dichlorobenzene	ug/L	ND	5.0	03/17/14 12:20	
1,3-Dichloropropane	ug/L	ND	5.0	03/17/14 12:20	
1,4-Dichlorobenzene	ug/L	ND	5.0	03/17/14 12:20	
2,2-Dichloropropane	ug/L	ND	5.0	03/17/14 12:20	
2-Butanone (MEK)	ug/L	ND	10.0	03/17/14 12:20	
2-Chlorotoluene	ug/L	ND	5.0	03/17/14 12:20	
2-Hexanone	ug/L	ND	10.0	03/17/14 12:20	
4-Chlorotoluene	ug/L	ND	5.0	03/17/14 12:20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	03/17/14 12:20	
Acetone	ug/L	ND	25.0	03/17/14 12:20	
Benzene	ug/L	ND	5.0	03/17/14 12:20	
Bromobenzene	ug/L	ND	5.0	03/17/14 12:20	
Bromochloromethane	ug/L	ND	5.0	03/17/14 12:20	
Bromodichloromethane	ug/L	ND	5.0	03/17/14 12:20	
Bromoform	ug/L	ND	5.0	03/17/14 12:20	
Bromomethane	ug/L	ND	10.0	03/17/14 12:20	
Carbon tetrachloride	ug/L	ND	5.0	03/17/14 12:20	
Chlorobenzene	ug/L	ND	5.0	03/17/14 12:20	
Chloroethane	ug/L	ND	10.0	03/17/14 12:20	
Chloroform	ug/L	ND	5.0	03/17/14 12:20	
Chloromethane	ug/L	ND	5.0	03/17/14 12:20	
cis-1,2-Dichloroethene	ug/L	ND	5.0	03/17/14 12:20	
cis-1,3-Dichloropropene	ug/L	ND	5.0	03/17/14 12:20	
Dibromochloromethane	ug/L	ND	5.0	03/17/14 12:20	
Dibromomethane	ug/L	ND	5.0	03/17/14 12:20	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

METHOD BLANK: 1158705 Matrix: Water
Associated Lab Samples: 92192150011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	5.0	03/17/14 12:20	
Diisopropyl ether	ug/L	ND	5.0	03/17/14 12:20	
Ethylbenzene	ug/L	ND	5.0	03/17/14 12:20	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	03/17/14 12:20	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	03/17/14 12:20	
m&p-Xylene	ug/L	ND	10.0	03/17/14 12:20	
Methyl-tert-butyl ether	ug/L	ND	5.0	03/17/14 12:20	
Methylene Chloride	ug/L	ND	5.0	03/17/14 12:20	
n-Butylbenzene	ug/L	ND	5.0	03/17/14 12:20	
n-Propylbenzene	ug/L	ND	5.0	03/17/14 12:20	
Naphthalene	ug/L	ND	5.0	03/17/14 12:20	
o-Xylene	ug/L	ND	5.0	03/17/14 12:20	
p-Isopropyltoluene	ug/L	ND	5.0	03/17/14 12:20	
sec-Butylbenzene	ug/L	ND	5.0	03/17/14 12:20	
Styrene	ug/L	ND	5.0	03/17/14 12:20	
tert-Butyl Alcohol	ug/L	ND	100	03/17/14 12:20	
tert-Butylbenzene	ug/L	ND	5.0	03/17/14 12:20	
Tetrachloroethene	ug/L	ND	5.0	03/17/14 12:20	
Toluene	ug/L	ND	5.0	03/17/14 12:20	
trans-1,2-Dichloroethene	ug/L	ND	5.0	03/17/14 12:20	
trans-1,3-Dichloropropene	ug/L	ND	5.0	03/17/14 12:20	
Trichloroethene	ug/L	ND	5.0	03/17/14 12:20	
Trichlorofluoromethane	ug/L	ND	10.0	03/17/14 12:20	
Vinyl acetate	ug/L	ND	10.0	03/17/14 12:20	
Vinyl chloride	ug/L	ND	5.0	03/17/14 12:20	
1,2-Dichloroethane-d4 (S)	%	108	70-130	03/17/14 12:20	
4-Bromofluorobenzene (S)	%	98	70-130	03/17/14 12:20	
Toluene-d8 (S)	%	100	70-130	03/17/14 12:20	

LABORATORY CONTROL SAMPLE: 1158706

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.2	100	70-130	
1,1,1-Trichloroethane	ug/L	50	50.3	101	70-137	
1,1,2,2-Tetrachloroethane	ug/L	50	50.9	102	70-130	
1,1,2-Trichloroethane	ug/L	50	51.6	103	70-130	
1,1-Dichloroethane	ug/L	50	49.1	98	70-137	
1,1-Dichloroethene	ug/L	50	48.7	97	70-138	
1,1-Dichloropropene	ug/L	50	52.3	105	70-130	
1,2,3-Trichlorobenzene	ug/L	50	52.3	105	70-143	
1,2,3-Trichloropropane	ug/L	50	49.4	99	70-130	
1,2,4-Trichlorobenzene	ug/L	50	51.5	103	70-138	
1,2,4-Trimethylbenzene	ug/L	50	54.3	109	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	54.7	109	68-134	
1,2-Dibromoethane (EDB)	ug/L	50	48.4	97	70-130	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

LABORATORY CONTROL SAMPLE: 1158706

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/L	50	51.5	103	70-130	
1,2-Dichloroethane	ug/L	50	49.7	99	70-133	
1,2-Dichloroethene (Total)	ug/L	100	96.1	96	70-130	
1,2-Dichloropropane	ug/L	50	49.5	99	70-130	
1,3,5-Trimethylbenzene	ug/L	50	51.3	103	70-130	
1,3-Dichlorobenzene	ug/L	50	50.5	101	70-130	
1,3-Dichloropropane	ug/L	50	49.3	99	70-130	
1,4-Dichlorobenzene	ug/L	50	50.5	101	70-130	
2,2-Dichloropropane	ug/L	50	53.6	107	61-142	
2-Butanone (MEK)	ug/L	100	104	104	63-150	
2-Chlorotoluene	ug/L	50	49.9	100	70-130	
2-Hexanone	ug/L	100	101	101	70-137	
4-Chlorotoluene	ug/L	50	51.6	103	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	103	103	70-134	
Acetone	ug/L	100	93.5	93	68-160	
Benzene	ug/L	50	49.0	98	70-130	
Bromobenzene	ug/L	50	51.9	104	70-130	
Bromochloromethane	ug/L	50	46.2	92	70-135	
Bromodichloromethane	ug/L	50	50.5	101	70-130	
Bromoform	ug/L	50	51.7	103	70-130	
Bromomethane	ug/L	50	53.7	107	63-130	
Carbon tetrachloride	ug/L	50	50.6	101	70-146	
Chlorobenzene	ug/L	50	47.6	95	70-130	
Chloroethane	ug/L	50	39.6	79	60-151	
Chloroform	ug/L	50	50.1	100	70-130	
Chloromethane	ug/L	50	50.5	101	65-133	
cis-1,2-Dichloroethene	ug/L	50	48.5	97	70-134	
cis-1,3-Dichloropropene	ug/L	50	51.0	102	70-130	
Dibromochloromethane	ug/L	50	51.8	104	70-130	
Dibromomethane	ug/L	50	50.3	101	70-130	
Dichlorodifluoromethane	ug/L	50	63.2	126	66-130	F3
Diisopropyl ether	ug/L	50	52.3	105	70-133	
Ethylbenzene	ug/L	50	47.5	95	70-130	
Hexachloro-1,3-butadiene	ug/L	50	53.9	108	58-151	
Isopropylbenzene (Cumene)	ug/L	50	49.8	100	70-130	
m&p-Xylene	ug/L	100	98.3	98	70-130	
Methyl-tert-butyl ether	ug/L	50	52.8	106	70-136	
Methylene Chloride	ug/L	50	47.6	95	70-130	
n-Butylbenzene	ug/L	50	53.0	106	70-130	
n-Propylbenzene	ug/L	50	52.5	105	70-130	
Naphthalene	ug/L	50	53.7	107	70-139	
o-Xylene	ug/L	50	49.3	99	70-130	
p-Isopropyltoluene	ug/L	50	54.7	109	70-130	
sec-Butylbenzene	ug/L	50	52.6	105	70-130	
Styrene	ug/L	50	50.1	100	70-130	
tert-Butyl Alcohol	ug/L	500	562	112	69-151	
tert-Butylbenzene	ug/L	50	53.5	107	70-130	
Tetrachloroethene	ug/L	50	49.6	99	70-130	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

LABORATORY CONTROL SAMPLE: 1158706

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	50	49.2	98	70-130	
trans-1,2-Dichloroethene	ug/L	50	47.6	95	70-130	
trans-1,3-Dichloropropene	ug/L	50	51.8	104	70-130	
Trichloroethene	ug/L	50	47.4	95	70-130	
Trichlorofluoromethane	ug/L	50	51.3	103	70-130	
Vinyl acetate	ug/L	100	143	143	67-148	F3
Vinyl chloride	ug/L	50	57.6	115	67-133	
1,2-Dichloroethane-d4 (S)	%			110	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	
Toluene-d8 (S)	%			99	70-130	

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

QUALITY CONTROL DATA

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

QC Batch: MSV/26042 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 92192150001, 92192150002, 92192150003, 92192150004, 92192150005, 92192150006, 92192150007, 92192150008, 92192150009

METHOD BLANK: 1154359 Matrix: Solid
Associated Lab Samples: 92192150001, 92192150002, 92192150003, 92192150004, 92192150005, 92192150006, 92192150007, 92192150008, 92192150009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	4.7	03/11/14 17:36	
1,1,1-Trichloroethane	ug/kg	ND	4.7	03/11/14 17:36	
1,1,2,2-Tetrachloroethane	ug/kg	ND	4.7	03/11/14 17:36	
1,1,2-Trichloroethane	ug/kg	ND	4.7	03/11/14 17:36	
1,1-Dichloroethane	ug/kg	ND	4.7	03/11/14 17:36	
1,1-Dichloroethene	ug/kg	ND	4.7	03/11/14 17:36	
1,1-Dichloropropene	ug/kg	ND	4.7	03/11/14 17:36	
1,2,3-Trichlorobenzene	ug/kg	ND	4.7	03/11/14 17:36	
1,2,3-Trichloropropane	ug/kg	ND	4.7	03/11/14 17:36	
1,2,4-Trichlorobenzene	ug/kg	ND	4.7	03/11/14 17:36	
1,2,4-Trimethylbenzene	ug/kg	ND	4.7	03/11/14 17:36	
1,2-Dibromo-3-chloropropane	ug/kg	ND	4.7	03/11/14 17:36	
1,2-Dibromoethane (EDB)	ug/kg	ND	4.7	03/11/14 17:36	
1,2-Dichlorobenzene	ug/kg	ND	4.7	03/11/14 17:36	
1,2-Dichloroethane	ug/kg	ND	4.7	03/11/14 17:36	
1,2-Dichloropropane	ug/kg	ND	4.7	03/11/14 17:36	
1,3,5-Trimethylbenzene	ug/kg	ND	4.7	03/11/14 17:36	
1,3-Dichlorobenzene	ug/kg	ND	4.7	03/11/14 17:36	
1,3-Dichloropropane	ug/kg	ND	4.7	03/11/14 17:36	
1,4-Dichlorobenzene	ug/kg	ND	4.7	03/11/14 17:36	
2,2-Dichloropropane	ug/kg	ND	4.7	03/11/14 17:36	
2-Butanone (MEK)	ug/kg	ND	94.9	03/11/14 17:36	
2-Chlorotoluene	ug/kg	ND	4.7	03/11/14 17:36	
2-Hexanone	ug/kg	ND	47.4	03/11/14 17:36	
4-Chlorotoluene	ug/kg	ND	4.7	03/11/14 17:36	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	47.4	03/11/14 17:36	
Acetone	ug/kg	ND	94.9	03/11/14 17:36	
Benzene	ug/kg	ND	4.7	03/11/14 17:36	
Bromobenzene	ug/kg	ND	4.7	03/11/14 17:36	
Bromochloromethane	ug/kg	ND	4.7	03/11/14 17:36	
Bromodichloromethane	ug/kg	ND	4.7	03/11/14 17:36	
Bromoform	ug/kg	ND	4.7	03/11/14 17:36	
Bromomethane	ug/kg	ND	9.5	03/11/14 17:36	
Carbon tetrachloride	ug/kg	ND	4.7	03/11/14 17:36	
Chlorobenzene	ug/kg	ND	4.7	03/11/14 17:36	
Chloroethane	ug/kg	ND	9.5	03/11/14 17:36	
Chloroform	ug/kg	ND	4.7	03/11/14 17:36	
Chloromethane	ug/kg	ND	9.5	03/11/14 17:36	
cis-1,2-Dichloroethene	ug/kg	ND	4.7	03/11/14 17:36	
cis-1,3-Dichloropropene	ug/kg	ND	4.7	03/11/14 17:36	
Dibromochloromethane	ug/kg	ND	4.7	03/11/14 17:36	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

METHOD BLANK: 1154359 Matrix: Solid

Associated Lab Samples: 92192150001, 92192150002, 92192150003, 92192150004, 92192150005, 92192150006, 92192150007, 92192150008, 92192150009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	4.7	03/11/14 17:36	
Dichlorodifluoromethane	ug/kg	ND	9.5	03/11/14 17:36	
Diisopropyl ether	ug/kg	ND	4.7	03/11/14 17:36	
Ethylbenzene	ug/kg	ND	4.7	03/11/14 17:36	
Hexachloro-1,3-butadiene	ug/kg	ND	4.7	03/11/14 17:36	
Isopropylbenzene (Cumene)	ug/kg	ND	4.7	03/11/14 17:36	
m&p-Xylene	ug/kg	ND	9.5	03/11/14 17:36	
Methyl-tert-butyl ether	ug/kg	ND	4.7	03/11/14 17:36	
Methylene Chloride	ug/kg	ND	19.0	03/11/14 17:36	
n-Butylbenzene	ug/kg	ND	4.7	03/11/14 17:36	
n-Propylbenzene	ug/kg	ND	4.7	03/11/14 17:36	
Naphthalene	ug/kg	ND	4.7	03/11/14 17:36	
o-Xylene	ug/kg	ND	4.7	03/11/14 17:36	
p-Isopropyltoluene	ug/kg	ND	4.7	03/11/14 17:36	
sec-Butylbenzene	ug/kg	ND	4.7	03/11/14 17:36	
Styrene	ug/kg	ND	4.7	03/11/14 17:36	
tert-Butylbenzene	ug/kg	ND	4.7	03/11/14 17:36	
Tetrachloroethene	ug/kg	ND	4.7	03/11/14 17:36	
Toluene	ug/kg	ND	4.7	03/11/14 17:36	
trans-1,2-Dichloroethene	ug/kg	ND	4.7	03/11/14 17:36	
trans-1,3-Dichloropropene	ug/kg	ND	4.7	03/11/14 17:36	
Trichloroethene	ug/kg	ND	4.7	03/11/14 17:36	
Trichlorofluoromethane	ug/kg	ND	4.7	03/11/14 17:36	
Vinyl acetate	ug/kg	ND	47.4	03/11/14 17:36	
Vinyl chloride	ug/kg	ND	9.5	03/11/14 17:36	
Xylene (Total)	ug/kg	ND	9.5	03/11/14 17:36	
1,2-Dichloroethane-d4 (S)	%	123	70-132	03/11/14 17:36	
4-Bromofluorobenzene (S)	%	95	70-130	03/11/14 17:36	
Toluene-d8 (S)	%	98	70-130	03/11/14 17:36	

LABORATORY CONTROL SAMPLE: 1154360

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50.6	52.8	104	70-131	
1,1,1-Trichloroethane	ug/kg	50.6	49.2	97	70-141	
1,1,2,2-Tetrachloroethane	ug/kg	50.6	55.6	110	70-130	
1,1,2-Trichloroethane	ug/kg	50.6	52.3	103	70-132	
1,1-Dichloroethane	ug/kg	50.6	50.9	101	70-143	
1,1-Dichloroethene	ug/kg	50.6	50.7	100	70-137	
1,1-Dichloropropene	ug/kg	50.6	53.1	105	70-135	
1,2,3-Trichlorobenzene	ug/kg	50.6	52.7	104	69-153	
1,2,3-Trichloropropane	ug/kg	50.6	54.1	107	70-130	
1,2,4-Trichlorobenzene	ug/kg	50.6	52.2	103	55-171	
1,2,4-Trimethylbenzene	ug/kg	50.6	52.6	104	70-149	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

LABORATORY CONTROL SAMPLE: 1154360

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/kg	50.6	57.7	114	68-141	
1,2-Dibromoethane (EDB)	ug/kg	50.6	55.7	110	70-130	
1,2-Dichlorobenzene	ug/kg	50.6	54.0	107	70-140	
1,2-Dichloroethane	ug/kg	50.6	56.5	112	70-137	
1,2-Dichloropropane	ug/kg	50.6	51.2	101	70-133	
1,3,5-Trimethylbenzene	ug/kg	50.6	52.2	103	70-143	
1,3-Dichlorobenzene	ug/kg	50.6	50.4	100	70-144	
1,3-Dichloropropane	ug/kg	50.6	56.1	111	70-132	
1,4-Dichlorobenzene	ug/kg	50.6	52.5	104	70-142	
2,2-Dichloropropane	ug/kg	50.6	52.5	104	68-152	
2-Butanone (MEK)	ug/kg	101	131	130	70-149	
2-Chlorotoluene	ug/kg	50.6	53.1	105	70-141	
2-Hexanone	ug/kg	101	123	122	70-149	
4-Chlorotoluene	ug/kg	50.6	53.2	105	70-149	
4-Methyl-2-pentanone (MIBK)	ug/kg	101	120	119	70-153	
Acetone	ug/kg	101	131	129	70-157	
Benzene	ug/kg	50.6	50.0	99	70-130	
Bromobenzene	ug/kg	50.6	56.1	111	70-141	
Bromochloromethane	ug/kg	50.6	52.0	103	70-149	
Bromodichloromethane	ug/kg	50.6	49.6	98	70-130	
Bromoform	ug/kg	50.6	53.6	106	70-131	
Bromomethane	ug/kg	50.6	49.1	97	64-136	
Carbon tetrachloride	ug/kg	50.6	47.1	93	70-154	
Chlorobenzene	ug/kg	50.6	52.4	104	70-135	
Chloroethane	ug/kg	50.6	54.4	108	68-151	
Chloroform	ug/kg	50.6	51.2	101	70-130	
Chloromethane	ug/kg	50.6	57.0	113	70-132	
cis-1,2-Dichloroethene	ug/kg	50.6	55.2	109	70-140	
cis-1,3-Dichloropropene	ug/kg	50.6	49.6	98	70-137	
Dibromochloromethane	ug/kg	50.6	52.2	103	70-130	
Dibromomethane	ug/kg	50.6	54.0	107	70-136	
Dichlorodifluoromethane	ug/kg	50.6	49.0	97	36-148	
Diisopropyl ether	ug/kg	50.6	54.4	108	70-139	
Ethylbenzene	ug/kg	50.6	52.2	103	70-137	
Hexachloro-1,3-butadiene	ug/kg	50.6	48.1	95	70-145	
Isopropylbenzene (Cumene)	ug/kg	50.6	52.3	103	70-141	
m&p-Xylene	ug/kg	101	106	104	70-140	
Methyl-tert-butyl ether	ug/kg	50.6	53.2	105	45-150	
Methylene Chloride	ug/kg	50.6	67.4	133	70-133	
n-Butylbenzene	ug/kg	50.6	53.5	106	65-155	
n-Propylbenzene	ug/kg	50.6	55.0	109	70-148	
Naphthalene	ug/kg	50.6	59.9	118	70-148	
o-Xylene	ug/kg	50.6	52.3	103	70-141	
p-Isopropyltoluene	ug/kg	50.6	51.4	101	70-148	
sec-Butylbenzene	ug/kg	50.6	54.1	107	70-145	
Styrene	ug/kg	50.6	52.4	104	70-138	
tert-Butylbenzene	ug/kg	50.6	55.6	110	70-143	
Tetrachloroethene	ug/kg	50.6	49.6	98	70-140	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

LABORATORY CONTROL SAMPLE: 1154360

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/kg	50.6	49.1	97	70-130	
trans-1,2-Dichloroethene	ug/kg	50.6	48.3	95	70-136	
trans-1,3-Dichloropropene	ug/kg	50.6	52.0	103	70-138	
Trichloroethene	ug/kg	50.6	47.0	93	70-132	
Trichlorofluoromethane	ug/kg	50.6	51.0	101	69-134	
Vinyl acetate	ug/kg	101	115	114	24-161	
Vinyl chloride	ug/kg	50.6	52.4	104	55-140	
Xylene (Total)	ug/kg	152	158	104	70-141	
1,2-Dichloroethane-d4 (S)	%			117	70-132	
4-Bromofluorobenzene (S)	%			96	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE SAMPLE: 1155223

Parameter	Units	92192150009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/kg	ND	51	52.9	104	49-180	
Benzene	ug/kg	ND	51	52.0	102	50-166	
Chlorobenzene	ug/kg	ND	51	57.2	112	43-169	
Toluene	ug/kg	ND	51	50.6	99	52-163	
Trichloroethene	ug/kg	ND	51	52.1	102	49-167	
1,2-Dichloroethane-d4 (S)	%				111	70-132	
4-Bromofluorobenzene (S)	%				97	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 1155222

Parameter	Units	92192150008 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		

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

SAMPLE DUPLICATE: 1155222

Parameter	Units	92192150008 Result	Dup Result	RPD	Qualifiers
1,3-Dichloropropane	ug/kg	ND	ND		
1,4-Dichlorobenzene	ug/kg	ND	ND		
2,2-Dichloropropane	ug/kg	ND	ND		
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	179	29.7J		
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		

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

SAMPLE DUPLICATE: 1155222

Parameter	Units	92192150008 Result	Dup Result	RPD	Qualifiers
Xylene (Total)	ug/kg	ND	ND		
1,2-Dichloroethane-d4 (S)	%	134	102	30	
4-Bromofluorobenzene (S)	%	90	97	4	
Toluene-d8 (S)	%	100	102	1	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

QC Batch: OEXT/26348 Analysis Method: EPA 8270
QC Batch Method: EPA 3546 Analysis Description: 8270 Solid MSSV Microwave
Associated Lab Samples: 92192150001, 92192150002, 92192150003, 92192150004, 92192150005, 92192150006, 92192150007, 92192150008, 92192150009

METHOD BLANK: 1152478 Matrix: Solid
Associated Lab Samples: 92192150001, 92192150002, 92192150003, 92192150004, 92192150005, 92192150006, 92192150007, 92192150008, 92192150009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	ND	330	03/12/14 18:35	
1,2-Dichlorobenzene	ug/kg	ND	330	03/12/14 18:35	
1,3-Dichlorobenzene	ug/kg	ND	330	03/12/14 18:35	
1,4-Dichlorobenzene	ug/kg	ND	330	03/12/14 18:35	
1-Methylnaphthalene	ug/kg	ND	330	03/12/14 18:35	
2,4,5-Trichlorophenol	ug/kg	ND	330	03/12/14 18:35	
2,4,6-Trichlorophenol	ug/kg	ND	330	03/12/14 18:35	
2,4-Dichlorophenol	ug/kg	ND	330	03/12/14 18:35	
2,4-Dimethylphenol	ug/kg	ND	330	03/12/14 18:35	
2,4-Dinitrophenol	ug/kg	ND	1650	03/12/14 18:35	
2,4-Dinitrotoluene	ug/kg	ND	330	03/12/14 18:35	
2,6-Dinitrotoluene	ug/kg	ND	330	03/12/14 18:35	
2-Chloronaphthalene	ug/kg	ND	330	03/12/14 18:35	
2-Chlorophenol	ug/kg	ND	330	03/12/14 18:35	
2-Methylnaphthalene	ug/kg	ND	330	03/12/14 18:35	
2-Methylphenol(o-Cresol)	ug/kg	ND	330	03/12/14 18:35	
2-Nitroaniline	ug/kg	ND	1650	03/12/14 18:35	
2-Nitrophenol	ug/kg	ND	330	03/12/14 18:35	
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	330	03/12/14 18:35	
3,3'-Dichlorobenzidine	ug/kg	ND	1650	03/12/14 18:35	
3-Nitroaniline	ug/kg	ND	1650	03/12/14 18:35	
4,6-Dinitro-2-methylphenol	ug/kg	ND	660	03/12/14 18:35	
4-Bromophenylphenyl ether	ug/kg	ND	330	03/12/14 18:35	
4-Chloro-3-methylphenol	ug/kg	ND	660	03/12/14 18:35	
4-Chloroaniline	ug/kg	ND	1650	03/12/14 18:35	
4-Chlorophenylphenyl ether	ug/kg	ND	330	03/12/14 18:35	
4-Nitroaniline	ug/kg	ND	660	03/12/14 18:35	
4-Nitrophenol	ug/kg	ND	1650	03/12/14 18:35	
Acenaphthene	ug/kg	ND	330	03/12/14 18:35	
Acenaphthylene	ug/kg	ND	330	03/12/14 18:35	
Aniline	ug/kg	ND	330	03/12/14 18:35	
Anthracene	ug/kg	ND	330	03/12/14 18:35	
Benzo(a)anthracene	ug/kg	ND	330	03/12/14 18:35	
Benzo(a)pyrene	ug/kg	ND	330	03/12/14 18:35	
Benzo(b)fluoranthene	ug/kg	ND	330	03/12/14 18:35	
Benzo(g,h,i)perylene	ug/kg	ND	330	03/12/14 18:35	
Benzo(k)fluoranthene	ug/kg	ND	330	03/12/14 18:35	
Benzoic Acid	ug/kg	ND	1650	03/12/14 18:35	
Benzyl alcohol	ug/kg	ND	660	03/12/14 18:35	
bis(2-Chloroethoxy)methane	ug/kg	ND	330	03/12/14 18:35	
bis(2-Chloroethyl) ether	ug/kg	ND	330	03/12/14 18:35	

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

METHOD BLANK: 1152478 Matrix: Solid
Associated Lab Samples: 92192150001, 92192150002, 92192150003, 92192150004, 92192150005, 92192150006, 92192150007, 92192150008, 92192150009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
bis(2-Chloroisopropyl) ether	ug/kg	ND	330	03/12/14 18:35	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	330	03/12/14 18:35	
Butylbenzylphthalate	ug/kg	ND	330	03/12/14 18:35	
Chrysene	ug/kg	ND	330	03/12/14 18:35	
Di-n-butylphthalate	ug/kg	ND	330	03/12/14 18:35	
Di-n-octylphthalate	ug/kg	ND	330	03/12/14 18:35	
Dibenz(a,h)anthracene	ug/kg	ND	330	03/12/14 18:35	
Dibenzofuran	ug/kg	ND	330	03/12/14 18:35	
Diethylphthalate	ug/kg	ND	330	03/12/14 18:35	
Dimethylphthalate	ug/kg	ND	330	03/12/14 18:35	
Fluoranthene	ug/kg	ND	330	03/12/14 18:35	
Fluorene	ug/kg	ND	330	03/12/14 18:35	
Hexachloro-1,3-butadiene	ug/kg	ND	330	03/12/14 18:35	
Hexachlorobenzene	ug/kg	ND	330	03/12/14 18:35	
Hexachlorocyclopentadiene	ug/kg	ND	330	03/12/14 18:35	
Hexachloroethane	ug/kg	ND	330	03/12/14 18:35	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	330	03/12/14 18:35	
Isophorone	ug/kg	ND	330	03/12/14 18:35	
N-Nitroso-di-n-propylamine	ug/kg	ND	330	03/12/14 18:35	
N-Nitrosodimethylamine	ug/kg	ND	330	03/12/14 18:35	
N-Nitrosodiphenylamine	ug/kg	ND	330	03/12/14 18:35	
Naphthalene	ug/kg	ND	330	03/12/14 18:35	
Nitrobenzene	ug/kg	ND	330	03/12/14 18:35	
Pentachlorophenol	ug/kg	ND	1650	03/12/14 18:35	
Phenanthrene	ug/kg	ND	330	03/12/14 18:35	
Phenol	ug/kg	ND	330	03/12/14 18:35	
Pyrene	ug/kg	ND	330	03/12/14 18:35	
2,4,6-Tribromophenol (S)	%	86	27-110	03/12/14 18:35	
2-Fluorobiphenyl (S)	%	72	30-110	03/12/14 18:35	
2-Fluorophenol (S)	%	73	13-110	03/12/14 18:35	
Nitrobenzene-d5 (S)	%	76	23-110	03/12/14 18:35	
Phenol-d6 (S)	%	83	22-110	03/12/14 18:35	
Terphenyl-d14 (S)	%	86	28-110	03/12/14 18:35	

LABORATORY CONTROL SAMPLE: 1152479

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	1670	1280	77	39-101	
1,2-Dichlorobenzene	ug/kg	1670	1320	79	36-110	
1,3-Dichlorobenzene	ug/kg	1670	1260	76	35-110	
1,4-Dichlorobenzene	ug/kg	1670	1340	80	35-110	
1-Methylnaphthalene	ug/kg	1670	1300	78	45-105	
2,4,5-Trichlorophenol	ug/kg	1670	1430	86	48-109	
2,4,6-Trichlorophenol	ug/kg	1670	1290	78	45-111	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

LABORATORY CONTROL SAMPLE: 1152479

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-Dichlorophenol	ug/kg	1670	1380	83	51-116	
2,4-Dimethylphenol	ug/kg	1670	1370	82	42-103	
2,4-Dinitrophenol	ug/kg	8330	6700	80	28-103	
2,4-Dinitrotoluene	ug/kg	1670	1470	88	46-114	
2,6-Dinitrotoluene	ug/kg	1670	1420	85	48-112	
2-Chloronaphthalene	ug/kg	1670	1300	78	44-105	
2-Chlorophenol	ug/kg	1670	1460	88	36-110	
2-Methylnaphthalene	ug/kg	1670	1330	80	39-112	
2-Methylphenol(o-Cresol)	ug/kg	1670	1550	93	39-101	
2-Nitroaniline	ug/kg	3330	3530	106	44-111	
2-Nitrophenol	ug/kg	1670	1360	82	41-100	
3&4-Methylphenol(m&p Cresol)	ug/kg	1670	1640	99	43-103	
3,3'-Dichlorobenzidine	ug/kg	3330	2680	80	10-150	
3-Nitroaniline	ug/kg	3330	3040	91	35-110	
4,6-Dinitro-2-methylphenol	ug/kg	3330	2890	87	38-118	
4-Bromophenylphenyl ether	ug/kg	1670	1340	81	47-115	
4-Chloro-3-methylphenol	ug/kg	3330	3080	92	43-127	
4-Chloroaniline	ug/kg	3330	2880	86	34-109	
4-Chlorophenylphenyl ether	ug/kg	1670	1330	80	44-115	
4-Nitroaniline	ug/kg	3330	3240	97	37-111	
4-Nitrophenol	ug/kg	8330	8150	98	21-152	
Acenaphthene	ug/kg	1670	1330	80	38-117	
Acenaphthylene	ug/kg	1670	1360	82	46-107	
Aniline	ug/kg	1670	1300	78	29-110	
Anthracene	ug/kg	1670	1420	85	50-110	
Benzo(a)anthracene	ug/kg	1670	1350	81	47-116	
Benzo(a)pyrene	ug/kg	1670	1450	87	47-106	
Benzo(b)fluoranthene	ug/kg	1670	1380	83	47-109	
Benzo(g,h,i)perylene	ug/kg	1670	1430	86	39-115	
Benzo(k)fluoranthene	ug/kg	1670	1250	75	45-117	
Benzoic Acid	ug/kg	8330	5510	66	16-110	
Benzyl alcohol	ug/kg	3330	3170	95	38-105	
bis(2-Chloroethoxy)methane	ug/kg	1670	1340	80	39-110	
bis(2-Chloroethyl) ether	ug/kg	1670	1360	82	19-119	
bis(2-Chloroisopropyl) ether	ug/kg	1670	1480	89	21-110	
bis(2-Ethylhexyl)phthalate	ug/kg	1670	1420	85	35-116	
Butylbenzylphthalate	ug/kg	1670	1400	84	38-110	
Chrysene	ug/kg	1670	1390	83	49-110	
Di-n-butylphthalate	ug/kg	1670	1420	85	43-109	
Di-n-octylphthalate	ug/kg	1670	1520	91	37-109	
Dibenz(a,h)anthracene	ug/kg	1670	1560	94	43-116	
Dibenzofuran	ug/kg	1670	1440	86	45-106	
Diethylphthalate	ug/kg	1670	1400	84	41-114	
Dimethylphthalate	ug/kg	1670	1370	82	43-110	
Fluoranthene	ug/kg	1670	1450	87	50-114	
Fluorene	ug/kg	1670	1430	86	46-114	
Hexachloro-1,3-butadiene	ug/kg	1670	1250	75	28-111	
Hexachlorobenzene	ug/kg	1670	1430	86	46-120	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

LABORATORY CONTROL SAMPLE: 1152479

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Hexachlorocyclopentadiene	ug/kg	1670	1140	68	18-119	
Hexachloroethane	ug/kg	1670	1310	79	33-110	
Indeno(1,2,3-cd)pyrene	ug/kg	1670	1510	91	42-115	
Isophorone	ug/kg	1670	1510	90	44-109	
N-Nitroso-di-n-propylamine	ug/kg	1670	1350	81	43-104	
N-Nitrosodimethylamine	ug/kg	1670	1210	73	29-110	
N-Nitrosodiphenylamine	ug/kg	1670	1190	71	48-113	
Naphthalene	ug/kg	1670	1310	79	41-110	
Nitrobenzene	ug/kg	1670	1340	81	38-110	
Pentachlorophenol	ug/kg	3330	2650	80	32-128	
Phenanthrene	ug/kg	1670	1380	83	50-110	
Phenol	ug/kg	1670	1600	96	28-106	
Pyrene	ug/kg	1670	1400	84	45-114	
2,4,6-Tribromophenol (S)	%			101	27-110	
2-Fluorobiphenyl (S)	%			81	30-110	
2-Fluorophenol (S)	%			84	13-110	
Nitrobenzene-d5 (S)	%			80	23-110	
Phenol-d6 (S)	%			91	22-110	
Terphenyl-d14 (S)	%			91	28-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1152480 1152481

Parameter	Units	92192310003 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	2010	2010	1230	1400	61	70	18-119	13	
1,2-Dichlorobenzene	ug/kg	ND	2010	2010	1210	1390	61	69	50-110	13	
1,3-Dichlorobenzene	ug/kg	ND	2010	2010	1180	1360	59	68	27-110	15	
1,4-Dichlorobenzene	ug/kg	ND	2010	2010	1210	1410	60	70	28-110	15	
1-Methylnaphthalene	ug/kg	ND	2010	2010	1230	1400	61	70	24-116	13	
2,4,5-Trichlorophenol	ug/kg	ND	2010	2010	1320	1500	66	75	28-110	13	
2,4,6-Trichlorophenol	ug/kg	ND	2010	2010	1200	1410	60	70	17-117	16	
2,4-Dichlorophenol	ug/kg	ND	2010	2010	1260	1480	63	74	21-128	16	
2,4-Dimethylphenol	ug/kg	ND	2010	2010	1220	1430	61	71	10-120	16	
2,4-Dinitrophenol	ug/kg	ND	10000	10000	5520	5520	55	55	10-107	0	
2,4-Dinitrotoluene	ug/kg	ND	2010	2010	1600	1670	80	83	36-109	4	
2,6-Dinitrotoluene	ug/kg	ND	2010	2010	1560	1660	78	83	32-110	7	
2-Chloronaphthalene	ug/kg	ND	2010	2010	1120	1360	56	68	30-107	19	
2-Chlorophenol	ug/kg	ND	2010	2010	1300	1480	65	74	14-106	13	
2-Methylnaphthalene	ug/kg	ND	2010	2010	1270	1410	63	70	10-135	11	
2-Methylphenol(o-Cresol)	ug/kg	ND	2010	2010	1230	1460	61	73	10-124	17	
2-Nitroaniline	ug/kg	ND	4010	4010	3010	3240	75	81	26-116	7	
2-Nitrophenol	ug/kg	ND	2010	2010	1320	1540	66	77	28-103	15	
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	2010	2010	1290	1470	64	73	10-109	13	
3,3'-Dichlorobenzidine	ug/kg	ND	4010	4010	2770	2940	69	73	10-150	6	
3-Nitroaniline	ug/kg	ND	4010	4010	3130	3240	78	81	22-110	4	
4,6-Dinitro-2-methylphenol	ug/kg	ND	4010	4010	2840	3100	71	77	13-121	8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1152480 1152481

Parameter	Units	92192310003 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	2010	2010	1260	1400	63	70	31-109	10	
4-Chloro-3-methylphenol	ug/kg	ND	4010	4010	2980	3210	74	80	13-128	7	
4-Chloroaniline	ug/kg	ND	4010	4010	2570	2850	64	71	18-102	10	
4-Chlorophenylphenyl ether	ug/kg	ND	2010	2010	1300	1390	65	69	29-112	7	
4-Nitroaniline	ug/kg	ND	4010	4010	3410	3560	85	89	16-111	4	
4-Nitrophenol	ug/kg	ND	10000	10000	6870	7430	69	74	14-135	8	
Acenaphthene	ug/kg	ND	2010	2010	1190	1360	59	68	26-114	14	
Acenaphthylene	ug/kg	ND	2010	2010	1230	1410	61	70	32-108	14	
Aniline	ug/kg	ND	2010	2010	995	1120	50	56	10-107	12	
Anthracene	ug/kg	ND	2010	2010	1380	1490	69	74	32-111	7	
Benzo(a)anthracene	ug/kg	ND	2010	2010	1360	1450	68	72	25-117	6	
Benzo(a)pyrene	ug/kg	ND	2010	2010	1440	1530	72	76	25-106	6	
Benzo(b)fluoranthene	ug/kg	ND	2010	2010	1350	1460	67	73	24-110	8	
Benzo(g,h,i)perylene	ug/kg	ND	2010	2010	1330	1460	66	73	19-112	9	
Benzo(k)fluoranthene	ug/kg	ND	2010	2010	1330	1400	66	70	24-114	5	
Benzoic Acid	ug/kg	ND	10000	10000	371J	469J	4	5	10-110		M1
Benzyl alcohol	ug/kg	ND	4010	4010	2700	3070	67	76	24-106	13	
bis(2-Chloroethoxy)methane	ug/kg	ND	2010	2010	1100	1280	55	64	13-119	15	
bis(2-Chloroethyl) ether	ug/kg	ND	2010	2010	1110	1320	56	66	10-134	17	
bis(2-Chloroisopropyl) ether	ug/kg	ND	2010	2010	1030	1200	51	60	10-113	16	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	2010	2010	1380	1420	69	71	10-125	3	
Butylbenzylphthalate	ug/kg	ND	2010	2010	1380	1460	69	73	18-110	5	
Chrysene	ug/kg	ND	2010	2010	1390	1480	69	74	30-110	6	
Di-n-butylphthalate	ug/kg	ND	2010	2010	1330	1410	66	70	19-112	6	
Di-n-octylphthalate	ug/kg	ND	2010	2010	1280	1260	64	63	17-105	1	
Dibenz(a,h)anthracene	ug/kg	ND	2010	2010	1360	1500	68	75	23-111	10	
Dibenzofuran	ug/kg	ND	2010	2010	1350	1530	67	76	35-103	12	
Diethylphthalate	ug/kg	ND	2010	2010	1350	1430	67	71	27-113	6	
Dimethylphthalate	ug/kg	ND	2010	2010	1350	1450	67	72	26-111	7	
Fluoranthene	ug/kg	ND	2010	2010	1450	1530	72	76	33-109	5	
Fluorene	ug/kg	ND	2010	2010	1380	1490	69	74	32-113	7	
Hexachloro-1,3-butadiene	ug/kg	ND	2010	2010	1170	1400	59	70	16-116	18	
Hexachlorobenzene	ug/kg	ND	2010	2010	1310	1450	65	72	27-120	10	
Hexachlorocyclopentadiene	ug/kg	ND	2010	2010	1120	1390	56	69	10-108	22	
Hexachloroethane	ug/kg	ND	2010	2010	1130	1340	56	67	10-117	17	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	2010	2010	1400	1540	70	77	10-122	10	
Isophorone	ug/kg	ND	2010	2010	1250	1420	63	71	28-114	13	
N-Nitroso-di-n-propylamine	ug/kg	ND	2010	2010	1040	1160	52	58	27-113	10	
N-Nitrosodimethylamine	ug/kg	ND	2010	2010	924	1090	46	54	10-109	16	
N-Nitrosodiphenylamine	ug/kg	ND	2010	2010	1080	1230	54	61	10-128	13	
Naphthalene	ug/kg	ND	2010	2010	1230	1390	61	70	25-110	13	
Nitrobenzene	ug/kg	ND	2010	2010	1170	1360	58	68	18-114	15	
Pentachlorophenol	ug/kg	ND	4010	4010	2780	2980	69	74	10-122	7	
Phenanthrene	ug/kg	ND	2010	2010	1330	1430	66	71	30-114	7	
Phenol	ug/kg	ND	2010	2010	1330	1510	67	75	11-102	12	
Pyrene	ug/kg	ND	2010	2010	1370	1470	68	74	25-116	7	
2,4,6-Tribromophenol (S)	%						74	83	27-110		

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1152480 1152481

Parameter	Units	92192310003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
2-Fluorobiphenyl (S)	%						55	67	30-110		
2-Fluorophenol (S)	%						59	70	13-110		
Nitrobenzene-d5 (S)	%						58	67	23-110		
Phenol-d6 (S)	%						61	71	22-110		
Terphenyl-d14 (S)	%						71	76	28-110		

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

QC Batch: OEXT/26382 Analysis Method: EPA 8270
QC Batch Method: EPA 3510 Analysis Description: 8270 Water MSSV
Associated Lab Samples: 92192150010, 92192150011

METHOD BLANK: 1153672 Matrix: Water
Associated Lab Samples: 92192150010, 92192150011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	10.0	03/12/14 16:25	
1,2-Dichlorobenzene	ug/L	ND	10.0	03/12/14 16:25	
1,3-Dichlorobenzene	ug/L	ND	10.0	03/12/14 16:25	
1,4-Dichlorobenzene	ug/L	ND	10.0	03/12/14 16:25	
1-Methylnaphthalene	ug/L	ND	10.0	03/12/14 16:25	
2,4,5-Trichlorophenol	ug/L	ND	10.0	03/12/14 16:25	
2,4,6-Trichlorophenol	ug/L	ND	10.0	03/12/14 16:25	
2,4-Dichlorophenol	ug/L	ND	10.0	03/12/14 16:25	
2,4-Dimethylphenol	ug/L	ND	10.0	03/12/14 16:25	
2,4-Dinitrophenol	ug/L	ND	50.0	03/12/14 16:25	
2,4-Dinitrotoluene	ug/L	ND	10.0	03/12/14 16:25	
2,6-Dinitrotoluene	ug/L	ND	10.0	03/12/14 16:25	
2-Chloronaphthalene	ug/L	ND	10.0	03/12/14 16:25	
2-Chlorophenol	ug/L	ND	10.0	03/12/14 16:25	
2-Methylnaphthalene	ug/L	ND	10.0	03/12/14 16:25	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	03/12/14 16:25	
2-Nitroaniline	ug/L	ND	50.0	03/12/14 16:25	
2-Nitrophenol	ug/L	ND	10.0	03/12/14 16:25	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	03/12/14 16:25	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	03/12/14 16:25	
3-Nitroaniline	ug/L	ND	50.0	03/12/14 16:25	
4,6-Dinitro-2-methylphenol	ug/L	ND	20.0	03/12/14 16:25	
4-Bromophenylphenyl ether	ug/L	ND	10.0	03/12/14 16:25	
4-Chloro-3-methylphenol	ug/L	ND	20.0	03/12/14 16:25	
4-Chloroaniline	ug/L	ND	20.0	03/12/14 16:25	
4-Chlorophenylphenyl ether	ug/L	ND	10.0	03/12/14 16:25	
4-Nitroaniline	ug/L	ND	20.0	03/12/14 16:25	
4-Nitrophenol	ug/L	ND	50.0	03/12/14 16:25	
Acenaphthene	ug/L	ND	10.0	03/12/14 16:25	
Acenaphthylene	ug/L	ND	10.0	03/12/14 16:25	
Aniline	ug/L	ND	10.0	03/12/14 16:25	
Anthracene	ug/L	ND	10.0	03/12/14 16:25	
Benzo(a)anthracene	ug/L	ND	10.0	03/12/14 16:25	
Benzo(a)pyrene	ug/L	ND	10.0	03/12/14 16:25	
Benzo(b)fluoranthene	ug/L	ND	10.0	03/12/14 16:25	
Benzo(g,h,i)perylene	ug/L	ND	10.0	03/12/14 16:25	
Benzo(k)fluoranthene	ug/L	ND	10.0	03/12/14 16:25	
Benzoic Acid	ug/L	ND	50.0	03/12/14 16:25	
Benzyl alcohol	ug/L	ND	20.0	03/12/14 16:25	
bis(2-Chloroethoxy)methane	ug/L	ND	10.0	03/12/14 16:25	
bis(2-Chloroethyl) ether	ug/L	ND	10.0	03/12/14 16:25	
bis(2-Chloroisopropyl) ether	ug/L	ND	10.0	03/12/14 16:25	
bis(2-Ethylhexyl)phthalate	ug/L	ND	6.0	03/12/14 16:25	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

METHOD BLANK: 1153672 Matrix: Water
Associated Lab Samples: 92192150010, 92192150011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Butylbenzylphthalate	ug/L	ND	10.0	03/12/14 16:25	
Chrysene	ug/L	ND	10.0	03/12/14 16:25	
Di-n-butylphthalate	ug/L	ND	10.0	03/12/14 16:25	
Di-n-octylphthalate	ug/L	ND	10.0	03/12/14 16:25	
Dibenz(a,h)anthracene	ug/L	ND	10.0	03/12/14 16:25	
Dibenzofuran	ug/L	ND	10.0	03/12/14 16:25	
Diethylphthalate	ug/L	ND	10.0	03/12/14 16:25	
Dimethylphthalate	ug/L	ND	10.0	03/12/14 16:25	
Fluoranthene	ug/L	ND	10.0	03/12/14 16:25	
Fluorene	ug/L	ND	10.0	03/12/14 16:25	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	03/12/14 16:25	
Hexachlorobenzene	ug/L	ND	10.0	03/12/14 16:25	
Hexachlorocyclopentadiene	ug/L	ND	10.0	03/12/14 16:25	
Hexachloroethane	ug/L	ND	10.0	03/12/14 16:25	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10.0	03/12/14 16:25	
Isophorone	ug/L	ND	10.0	03/12/14 16:25	
N-Nitroso-di-n-propylamine	ug/L	ND	10.0	03/12/14 16:25	
N-Nitrosodimethylamine	ug/L	ND	10.0	03/12/14 16:25	
N-Nitrosodiphenylamine	ug/L	ND	10.0	03/12/14 16:25	
Naphthalene	ug/L	ND	10.0	03/12/14 16:25	
Nitrobenzene	ug/L	ND	10.0	03/12/14 16:25	
Pentachlorophenol	ug/L	ND	25.0	03/12/14 16:25	
Phenanthrene	ug/L	ND	10.0	03/12/14 16:25	
Phenol	ug/L	ND	10.0	03/12/14 16:25	
Pyrene	ug/L	ND	10.0	03/12/14 16:25	
2,4,6-Tribromophenol (S)	%	74	27-110	03/12/14 16:25	
2-Fluorobiphenyl (S)	%	77	27-110	03/12/14 16:25	
2-Fluorophenol (S)	%	41	12-110	03/12/14 16:25	
Nitrobenzene-d5 (S)	%	74	21-110	03/12/14 16:25	
Phenol-d6 (S)	%	27	10-110	03/12/14 16:25	
Terphenyl-d14 (S)	%	101	31-107	03/12/14 16:25	

LABORATORY CONTROL SAMPLE: 1153673

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	29.3	59	10-110	
1,2-Dichlorobenzene	ug/L	50	35.6	71	10-110	
1,3-Dichlorobenzene	ug/L	50	34.0	68	10-110	
1,4-Dichlorobenzene	ug/L	50	35.5	71	10-110	
1-Methylnaphthalene	ug/L	50	31.4	63	21-110	
2,4,5-Trichlorophenol	ug/L	50	44.7	89	23-116	
2,4,6-Trichlorophenol	ug/L	50	41.5	83	21-114	
2,4-Dichlorophenol	ug/L	50	33.5	67	22-120	
2,4-Dimethylphenol	ug/L	50	31.6	63	15-109	
2,4-Dinitrophenol	ug/L	250	244	98	10-103	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

LABORATORY CONTROL SAMPLE: 1153673

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-Dinitrotoluene	ug/L	50	51.4	103	24-119	
2,6-Dinitrotoluene	ug/L	50	52.8	106	25-116	
2-Chloronaphthalene	ug/L	50	42.3	85	18-110	
2-Chlorophenol	ug/L	50	38.2	76	10-104	
2-Methylnaphthalene	ug/L	50	31.9	64	16-110	
2-Methylphenol(o-Cresol)	ug/L	50	33.2	66	13-110	
2-Nitroaniline	ug/L	100	95.5	96	20-117	
2-Nitrophenol	ug/L	50	37.3	75	16-108	
3&4-Methylphenol(m&p Cresol)	ug/L	50	30.7	61	14-110	
3,3'-Dichlorobenzidine	ug/L	100	99.4	99	13-131	
3-Nitroaniline	ug/L	100	99.4	99	15-117	
4,6-Dinitro-2-methylphenol	ug/L	100	93.7	94	13-119	
4-Bromophenylphenyl ether	ug/L	50	39.7	79	23-120	
4-Chloro-3-methylphenol	ug/L	100	71.6	72	21-119	
4-Chloroaniline	ug/L	100	65.1	65	10-122	
4-Chlorophenylphenyl ether	ug/L	50	41.9	84	22-112	
4-Nitroaniline	ug/L	100	110	110	14-118	
4-Nitrophenol	ug/L	250	104	42	10-110	
Acenaphthene	ug/L	50	38.8	78	20-105	
Acenaphthylene	ug/L	50	40.6	81	23-106	
Aniline	ug/L	50	28.6	57	10-110	
Anthracene	ug/L	50	42.6	85	25-120	
Benzo(a)anthracene	ug/L	50	44.6	89	21-128	
Benzo(a)pyrene	ug/L	50	47.4	95	25-116	
Benzo(b)fluoranthene	ug/L	50	49.5	99	23-117	
Benzo(g,h,i)perylene	ug/L	50	45.3	91	17-128	
Benzo(k)fluoranthene	ug/L	50	41.0	82	25-127	
Benzoic Acid	ug/L	250	65.3	26	10-110	
Benzyl alcohol	ug/L	100	75.8	76	10-101	
bis(2-Chloroethoxy)methane	ug/L	50	38.1	76	19-107	
bis(2-Chloroethyl) ether	ug/L	50	37.0	74	10-108	
bis(2-Chloroisopropyl) ether	ug/L	50	34.5	69	10-108	
bis(2-Ethylhexyl)phthalate	ug/L	50	49.0	98	16-123	
Butylbenzylphthalate	ug/L	50	50.7	101	20-118	
Chrysene	ug/L	50	43.6	87	24-125	
Di-n-butylphthalate	ug/L	50	45.3	91	23-115	
Di-n-octylphthalate	ug/L	50	45.8	92	20-115	
Dibenz(a,h)anthracene	ug/L	50	46.9	94	18-131	
Dibenzofuran	ug/L	50	44.1	88	23-106	
Diethylphthalate	ug/L	50	42.3	85	24-115	
Dimethylphthalate	ug/L	50	41.9	84	22-113	
Fluoranthene	ug/L	50	47.5	95	24-125	
Fluorene	ug/L	50	43.8	88	24-114	
Hexachloro-1,3-butadiene	ug/L	50	28.8	58	10-110	
Hexachlorobenzene	ug/L	50	41.5	83	22-127	
Hexachlorocyclopentadiene	ug/L	50	42.8	86	10-110	
Hexachloroethane	ug/L	50	37.9	76	10-110	
Indeno(1,2,3-cd)pyrene	ug/L	50	48.1	96	18-130	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

LABORATORY CONTROL SAMPLE: 1153673

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Isophorone	ug/L	50	34.0	68	23-114	
N-Nitroso-di-n-propylamine	ug/L	50	35.6	71	21-114	
N-Nitrosodimethylamine	ug/L	50	21.3	43	10-110	
N-Nitrosodiphenylamine	ug/L	50	33.4	67	24-123	
Naphthalene	ug/L	50	31.5	63	14-110	
Nitrobenzene	ug/L	50	31.8	64	16-106	
Pentachlorophenol	ug/L	100	95.7	96	10-123	
Phenanthrene	ug/L	50	41.3	83	25-119	
Phenol	ug/L	50	21.5	43	10-110	
Pyrene	ug/L	50	43.7	87	22-127	
2,4,6-Tribromophenol (S)	%			96	27-110	
2-Fluorobiphenyl (S)	%			77	27-110	
2-Fluorophenol (S)	%			47	12-110	
Nitrobenzene-d5 (S)	%			65	21-110	
Phenol-d6 (S)	%			35	10-110	
Terphenyl-d14 (S)	%			91	31-107	

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QUALITY CONTROL DATA

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

QC Batch: PMST/6325 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 92192150001, 92192150002, 92192150003, 92192150004, 92192150005, 92192150006, 92192150007, 92192150008, 92192150009

SAMPLE DUPLICATE: 1152377

Parameter	Units	92191704005 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	70.0	71.2	2	

SAMPLE DUPLICATE: 1152378

Parameter	Units	92192299004 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	12.7	10.6	18	

REPORT OF LABORATORY ANALYSIS

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(704)875-9092

QUALIFIERS

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

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

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.
F3	The recovery of the second source standard used to verify the initial calibration curve for this analyte is outside the laboratory's control limits. The result is estimated.
IO	The internal standard response was outside the laboratory acceptance limits confirmed by reanalysis. The results reported are from the most QC compliant analysis.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
S2	Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WBS:39999.1.1 JACKSON CO
Pace Project No.: 92192150

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92192150001	**S13-1**	EPA 3546	OEXT/26348	EPA 8270	MSSV/8858
92192150002	**S13-3**	EPA 3546	OEXT/26348	EPA 8270	MSSV/8858
92192150003	**S13-5**	EPA 3546	OEXT/26348	EPA 8270	MSSV/8858
92192150004	**S13-2**	EPA 3546	OEXT/26348	EPA 8270	MSSV/8858
92192150005	**S13-4**	EPA 3546	OEXT/26348	EPA 8270	MSSV/8858
92192150006	**S71-1**	EPA 3546	OEXT/26348	EPA 8270	MSSV/8858
92192150007	**S71-2**	EPA 3546	OEXT/26348	EPA 8270	MSSV/8858
92192150008	**S71-3**	EPA 3546	OEXT/26348	EPA 8270	MSSV/8858
92192150009	**S69-1**	EPA 3546	OEXT/26348	EPA 8270	MSSV/8858
92192150010	**MW20-1**	EPA 3510	OEXT/26382	EPA 8270	MSSV/8862
92192150011	**MW20-3**	EPA 3510	OEXT/26382	EPA 8270	MSSV/8862
92192150010	**MW20-1**	EPA 8260	MSV/26036		
92192150011	**MW20-3**	EPA 8260	MSV/26114		
92192150001	**S13-1**	EPA 8260	MSV/26042		
92192150002	**S13-3**	EPA 8260	MSV/26042		
92192150003	**S13-5**	EPA 8260	MSV/26042		
92192150004	**S13-2**	EPA 8260	MSV/26042		
92192150005	**S13-4**	EPA 8260	MSV/26042		
92192150006	**S71-1**	EPA 8260	MSV/26042		
92192150007	**S71-2**	EPA 8260	MSV/26042		
92192150008	**S71-3**	EPA 8260	MSV/26042		
92192150009	**S69-1**	EPA 8260	MSV/26042		
92192150001	**S13-1**	ASTM D2974-87	PMST/6325		
92192150002	**S13-3**	ASTM D2974-87	PMST/6325		
92192150003	**S13-5**	ASTM D2974-87	PMST/6325		
92192150004	**S13-2**	ASTM D2974-87	PMST/6325		
92192150005	**S13-4**	ASTM D2974-87	PMST/6325		
92192150006	**S71-1**	ASTM D2974-87	PMST/6325		
92192150007	**S71-2**	ASTM D2974-87	PMST/6325		
92192150008	**S71-3**	ASTM D2974-87	PMST/6325		
92192150009	**S69-1**	ASTM D2974-87	PMST/6325		

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: GEL

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 IR Gun #2- 80344039 Type of Ice: Wet Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor: Add / Subtract 0.0 C

Corrected Cooler Temp.: 3.3 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: JDB 3/6/14

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: SL/WT		
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: _____

SCURF Review: AMB Date: 3-6-14

SRF Review: AMB Date: 3-6-14

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)

92192150

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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: of 1799276

Section A Required Client Information:

Company: GEL
Address: PO Box 14262
RTP, NC 27709
Email To: ade@gel.com
Phone: (919) 323-8524 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Andrew Eger
Copy To:
Purchase Order No.: TIP # R-4753, WBS # 39999.1.1
Project Name: Jackson Co. PSA
Project Number: NCDOT01513

Section C Invoice Information:

Attention: TIP # R-4753, WBS # 39999.1.1
Company Name: NC DOT
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 5996-213

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER

Site Location STATE: NC

Section D Required Client Information

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 (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	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	Requested Analysis Filtered (Y/N) Y/N	Analysis Test: 4260	8270	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 9292150
1	S13-1	SL	G			3-4-14	11:10		5	2					2	1			4	1			001
2	S13-3	SL	G				11:34		5	2					2	1			4	1			002
3	S13-5	SL	G				11:57		5	2					2	1			4	1			003
4	S13-2	SL	G				13:05		5	2					2	1			4	1			004
5	S13-4	SL	G				13:25		5	2					2	1			4	1			005
6	S71-1	SL	G				14:25		5	2					2	1			4	1			006
7	S71-2	SL	G				14:40		5	2					2	1			4	1			007
8	S71-3	SL	G				14:55		5	2					2	1			4	1			008
9	SG7-1	SL	G			3-5-14	10:15		5	2					2	1			4	1			009
10	MW20-1	WT	G				15:40		5	2			3						3	2			010
11	MW20-3	WT	G				15:25		5	2			3						3	2			011
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Andrew Eger / GEL	3/6/14	1030	Robert Blanton	3/6/14	16:30	3.3	Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY):

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

ORIGINAL

F-ALL-Q-020rev.07, 15-May-2007

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: GEL

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 IR Gun #2- 80344039 Type of Ice: (Wet) Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor: Add / Subtract 0.0 C

Corrected Cooler Temp.: 3.3 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: JDB 3/6/14

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.
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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: _____

SCURF Review: AMB Date: 3-6-14

SRF Review: AMB Date: 3-6-14

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)

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OR

Handwrite project number (if no label available)

92192150

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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: of

1799276

Section A Required Client Information:

- Company: GEL
- Address: PO Box 14262, RTP, NC 27709
- Email To: ade@gel.com
- Phone: (919) 323-5824 Fax:
- Requested Due Date/TAT:

Section B Required Project Information:

- Report To: Andrew Eyer
- Copy To:
- Purchase Order No.: TIP # R-4753, WBS # 39999.1.1
- Project Name: Jackson Co. PSA
- Project Number: NCDT01513

Section C Invoice Information:

- Attention: TIP # R-4753, WBS # 39999.1.1
- Company Name: NC DOT
- Address:
- Pace Quote Reference:
- Pace Project Manager:
- Pace Profile #: 5996-2,3

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

Site Location STATE: NC

Section D Required Client Information

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

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

Requested Analysis Filtered (Y/N)

Pace Project No./ Lab I.D.: 92192150

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	Composite Start DATE	Composite Start TIME	Composite End/Grab DATE	Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test	8260	8270	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	S13-1	SL	G			3-4-14	11:10		5	2					2	1			4	1		001
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5	S13-4	SL	G				13:25		5	2					2	1			4	1		005
6	S71-1	SL	G				14:25		5	2					2	1			4	1		006
7	S71-2	SL	G				14:40		5	2					2	1			4	1		007
8	S71-3	SL	G			↓	14:55		5	2					2	1			4	1		008
9	S69-1	SL	G			3-5-14	10:15		5	2					2	1			4	1		009
10	MW20-1	WT	G			↓	15:40		5	2			3						3	2		010
11	MW20-3	WT	G			↓	15:25		5	2			3						3	2		011
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature] / GEL	3/6/14	1030	[signature]	3/6/14	16:30	3.3	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)