INITIAL ABATEMENT ACTION REPORT
Parcel 98, Steven Joseph Whitley Property
1532 Sparta Rd, North Wilkesboro, NC
State Project: R-3405
WBS Element: 35579.1.1
AMEC Project No.: 566773405

2011 CONTRACT #7000012359

Submitted to:
Mr. Terry Fox, LG
GeoEnvironmental Project Manager

Prepared for UST Owner/Operator and Property Owner:
NCDOT
1589 Mail Service Center
Raleigh, North Carolina 27699-1589

Submitted by Consultant:
AMEC of North Carolina, Inc.
2801 Yorkmont Road
Charlotte, North Carolina 28208
Licensure: NC Engineering F-1253 NC Geology C-247

February 20, 2012

Troy L. Holzschuh
Engineering Technician

Helen Corley, LG
Program Manager

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AMEC of North Carolina, Inc.
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1.0 INTRODUCTION

North Carolina Department of Transportation (NCDOT) Parcel 98 is located at 1532 Sparta Rd in North Wilkesboro, North Carolina (**Figure 1**). The Site which is located at 1532 Sparta Rd recently operated as a monument and sandblasting business, David's Monuments. The property is located on the northeastern corner of the intersection between Sparta Rd and Shatley Orchard Street in North Wilkesboro of Wilkes County, North Carolina. The entire property was acquired by NCDOT as part of a right-of-way acquisition for the road improvement project along Sparta Rd in North Wilkesboro, North Carolina. The parcel will be affected by construction activities associated with road widening and new drainage features along Sparta Rd. and Shatley Orchard St.

Two Underground Storage Tanks (USTs) were known or suspected based on a Preliminary Site Assessment conducted by AMEC of North Carolina, Inc. (AMEC) in December 2010. Based on a geophysical survey reported in the PSA, the anticipated capacities of the USTs were 270 gallons. (**Figure 2**)

AMEC subcontracted EVO Corporation (EVO) of Winston-Salem, North Carolina to remove and dispose of the USTs, any associated piping, and potentially contaminated soils. Field activities were conducted on January 31st through February 1st of 2012.

This Initial Abatement Action Report (IAAR) combines a summary of the procedures and findings of the UST closure, the soil and fluid removal activities and the sampling activities and results.

2.0 SITE INFORMATION

Date of Report: February 20, 2012
Facility I.D.: N/A UST Incident Number (if known): _____
Site Name: Parcel 98 – NCDOT
Site Location: 1532 Sparta Rd
Nearest City/Town: North Wilkesboro County: Wilkes

UST Owner: Steven Joseph Whitley
Address: 1532 Sparta Rd, North Wilkesboro, NC 28659 Phone: N/A

UST Operator: N/A
Address: N/A Phone: N/A
Property Owner: NCDOT
Address: 1589 Mail Service Center, Raleigh, NC 27699 Phone: 919-707-6870

Property Occupant: Vacant building Contact: _____
Address: 1532 Sparta Rd, North Wilkesboro, NC 28659 Phone: _____

Consultant/Contractor: AMEC of North Carolina
Address: 2801 Yorkmont Road, Charlotte, NC 28208 Phone: 704-357-5630

Excavation Contractor: EVO Corporation
Address: 1703 Vargrave Street, Winston Salem, NC Phone: 336-725-5844

Laboratory/Subcontractor: Pace Analytical Services State Certification No. NC 402
Address: 9800 Kincey Ave, Ste 100, Huntersville, NC 28078 Phone: 704-875-9092

The Steven Joseph Whitley Property parcel is located on the northeastern corner of the intersection of Sparta Rd. and Shatley Orchard St. in North Wilkesboro, Wilkes County, North Carolina, as shown in Figure 1. Across Shatley Orchard Street, southeast of the site is a trailer home park. Directly across Sparta Road, to the southwest is the Little Dipper Restaurant. The properties to the west and north are residential with single family homes. Home Finder Inspection Service is located northeast of the site.

The site is located within the Alligator Back Formation of the Ocoee Supergroup located in the Blue Ridge Physiographic Province of western North Carolina. The Alligator Back Formation comprises metamorphic sedimentary rocks that are 750 million years in age. The rocks include mica schist and phyllite that are interlayered with minor biotite. The Alligator Back rocks were named for the large sections of gneiss that descend from the peak of Bluff Mountain that resemble an alligator.

3.0 RELEASE INFORMATION

Date Discovered: Unknown
Estimated Quantity of Release: Unknown
Cause of Release: Unknown
Source of Release: Underground Storage Tank
Size and Contents of Source: One 550 gallon UST

4.0 FIELD ACTIVITIES

Prior to excavation activities, AMEC requested and received a utility walk-through from North Carolina One Call. The proximal utilities had already been located by Priority Underground Locating for the PSA activities. The local Fire Marshal and NCDENR were also notified prior to field activities. Senior Environmental technician, Karen Hall of NCDENR was present for the first day of excavation activities.

AMEC retained EVO to perform evacuation of residual fluids from the USTs, to excavate and properly dispose the USTs, and to excavate and properly dispose of up to 20 cubic yards of potentially affected soils. AMEC provided oversight and direction during evacuation, excavation and removal activities, which were performed from January 31st to February 1, 2012. The photo log in **Appendix A** documents execution of the field effort.

4.1 UST Removal and Soil Excavation Activities

UST closure commenced January 31, 2012 with a vacuum truck extracting the contents of one UST. The tank that had been denoted as Possible UST-2 in the PSA report was determined to not exist; rather the remnants of a 50 gallon drum was buried in the location. It is expected that the geophysical survey methods had in fact picked up signals from the drum instead of a possible UST. Steven Joseph Whitley believed the drum was at one time used for septic storage. Once uncovered, AMEC personnel noticed that the remnants of the drum were surrounded by pea gravel. It was also noted that a corrugated plastic pipe led from the building to the drum. A 150 gallon mixture of water and gasoline was evacuated from UST-1. The UST was rendered inert by dropping dry ice into it. The lower explosive limit (LEL) within the tank was then checked with a photoionization detector (PID) to verify safe removal. The tank was then completely uncovered and removed from the ground. The UST removal confirmed the size and contents of the UST. The geophysical survey presented in the Preliminary Site Assessment did underestimate the size of UST-1. The actual capacity of UST-1 is 550 gallons. UST-1 had multiple holes and was rusted and pitted. The UST location and excavation layout is shown on **Figure 2**.

A total of 42.21 tons of impacted soils were removed from the tank bed through over excavation of suspected impacted soils. The excavation did not expand in a southerly direction because AMEC personnel believed this could compromise the integrity of the structure. The excavation ceased vertically at 10 feet below ground surface (bgs) because the amount of soil to be removed from the site was limited to 20 cubic yards or approximately 30 tons after the overburden was removed. AMEC personnel estimated the overburden to be approximately 10 tons. The overburden associated with the UST was removed from the site. Field measured PID readings are shown in **Table 1**.

Neither bedrock nor groundwater was encountered within the excavations. The final excavation was rectangular in shape. The maximum depth of the excavation was 10 feet below ground surface (bgs). Excavated soil consisted of clayey silt that was orange in color.

The UST and drum were transported to OmniSource Southeast in Winston-Salem, North Carolina for proper disposal and recycling. Certificates of disposal are included in **Appendix B** for the container and their evacuated fluids. Log of the excavation are presented in **Appendix C.**

4.2 Soil Sampling

The site UST removal activities resulted in one excavation. The excavation located on the northeastern corner of the site building contained UST-1. Field screening indicated that the soil on the floor and sidewalls of this excavation was impacted in a few areas. The impact was most noticeable directly under the UST, which was noted to be in poor condition when removed.

Soil sampling activities were conducted in accordance with the *UST Section Guidance Document entitled Guidelines for Site Checks, Tank Closure, and Initial Abatement for UST Releases (December 2008)*. The UST closure sample was collected from directly under the centerline of UST-1 at 7 feet bgs, which is within 2 feet of the bottom of the UST. Field screening did indicate that the soil in the tank bed was impacted. Sample locations are shown on **Figure 2**.

All of the soil samples were analyzed for volatile organic compounds (VOCs) by US EPA Method 8260B; semi-volatile organic compounds (SVOCs) by EPA Method 8270C; and volatile petroleum hydrocarbons (VPH) and extractable petroleum hydrocarbons (EPH) by the Massachusetts Department of Environmental Protection Methods (MADEP).

5.0 ANALYTICAL RESULTS

Soil sample analytical results are presented in **Tables 2, 3** and **4** and **Figure 3. Appendix D** includes a copy of the complete laboratory analytical results for soil samples, which were analyzed for VOCs, SVOCs, VPH and EPH.

Laboratory analyses were performed on the centerline UST Closure sample UST-1. The centerline sample reported laboratory results which exceeded MSCC standards for VOCs, SVOCs as well as VPH and EPH. Laboratory analyses were also performed on five confirmatory samples collected after over excavation. Detections were found in the floor sample Floor-1 and in the south sidewall sample SW-2. Floor-1 reported a few low level VOC detections; however, Naphthalene was the only VOC to exceed its soil-to-groundwater MSCC. Results for Floor-1 did not yield any detections for SVOCs and only one for VPH (C9-C10) and EPH (C11-C22). The VPH and EPH detections for Floor-1 were both aromatics. Results from sample SW-2 exceeded MSCC standards for VOCs, SVOCs, VPH and EPH. Sample SW-2 was obtained from the southern excavation wall which parallels the back side of the site building. No detections were found in the other side wall samples, SW-1, SW-3 and SW-4 for VOCs, SVOCs, VPH or EPH.

Based on the field investigation and laboratory data, AMEC drew an estimated remaining area of contamination as shown on Figure 4. This area equals 23 square ft and has a thickness of at least 10 ft bgs. Using a thickness of 10 ft, the resultant remaining volume of estimated contamination would be at least 230 cubic feet, which is roughly 8.5 cubic yards. Contamination is believed to exist under the site building.

6.0 CONCLUSIONS

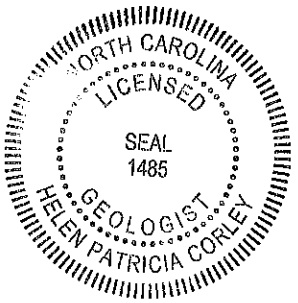
AMEC has completed contracted activities for the UST closure and soil excavation at Parcel 98 located at 1532 Sparta Road in North Wilkesboro, North Carolina. The following conclusions are based upon AMEC's field observations and data evaluation from field efforts performed from January 31st through February 1, 2012.

- One 550-gallon tank was emptied, removed and disposed. The UST had multiple holes, was rusted and pitted, and showed signs of leaking.
- Analyses of the closure sample from beneath the UST reported concentrations that exceeded Soil-to Groundwater MSCC standards for all four analyses.
- Analyses of Floor-1 sample, collected after over excavation vertically, did not report detections for SVOC's; however, some detections for VOCs, EPH and VPH remained measurable.
- Three of the side wall samples SW-1, SW-3 and SW-4 did not have any analytical detections.
- Results from Side wall sample SW-2, to the south, did report detections from VOCs, SVOCs, EPH and VPH and some MSCC exceedances. Sample SW-2 was obtained from the sidewall closest to the building which did not allow over excavation in that direction.
- The estimated remaining area of contamination is at least 23 square feet. Due to the proximity of the site building south of the excavation more contamination is believed to exist beneath the building. Consequently a more definitive estimate could not be obtained.

7.0 CERTIFICATION

I, Helen Corley, L.G. for AMEC of North Carolina, Inc., do certify that the information contained in this report is correct and accurate to the best of my knowledge.

Helen Corley



FIGURES

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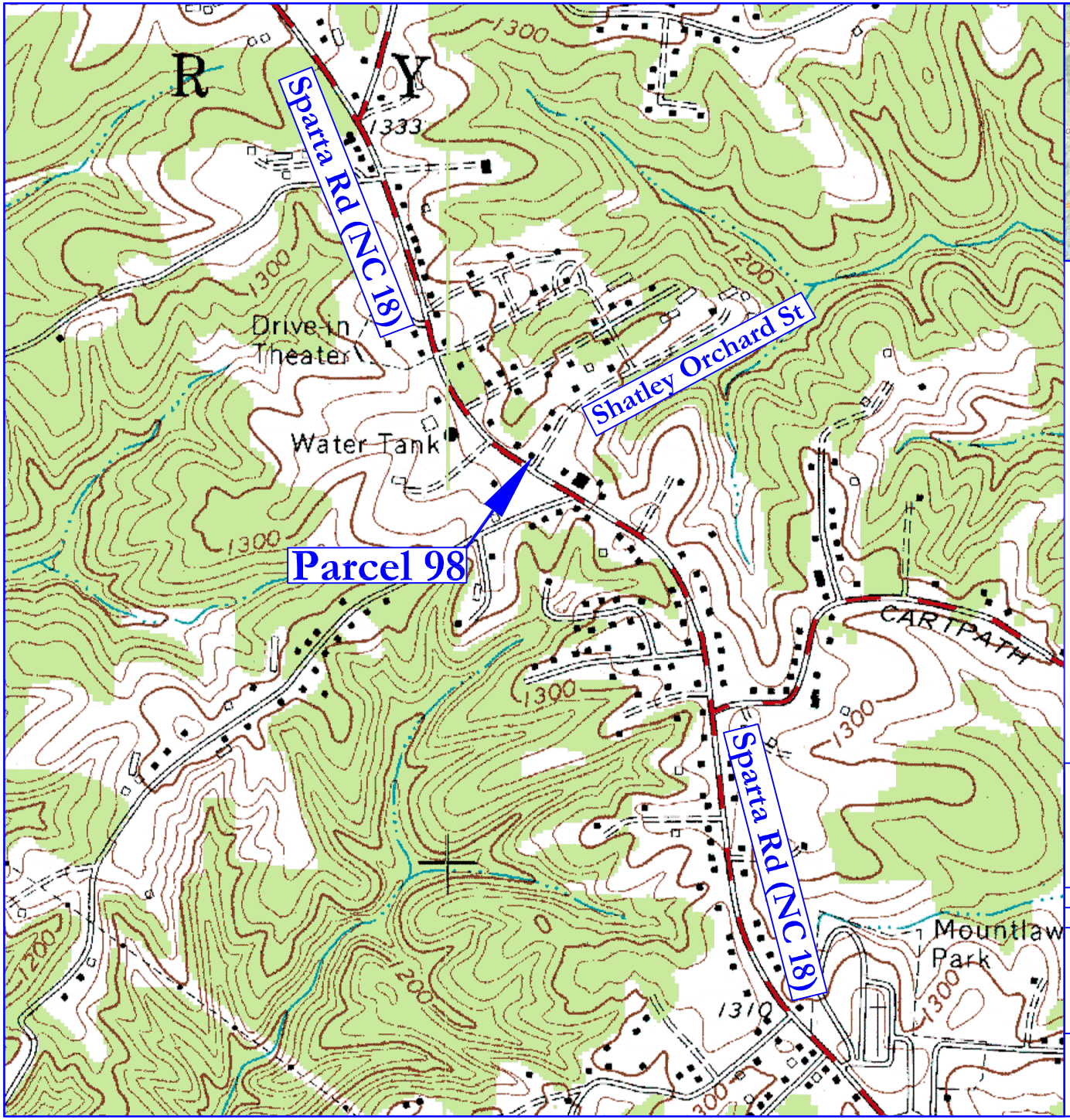

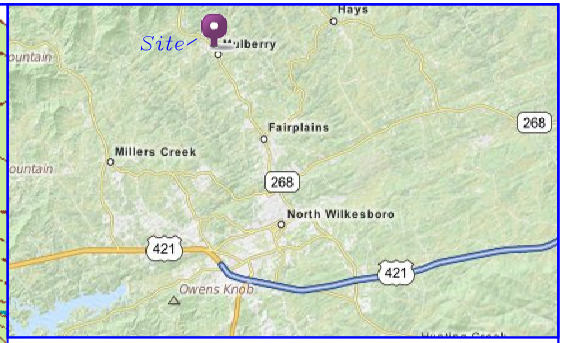

Not to Scale

0' 500' 1000' 1500'

1" = 1000'

7.5 Minute Quadrangle
North Carolina, 1983
Photorevised 1993

VICINITY MAP

Parcel #98, Steven Joseph Whitley Property
(David's Monuments)
North Wilkesboro, Wilkes County, NC

DRAWING NAME: J:\NCDOT\Wilkes\FIG1			DATE: 1/10/12
SCALE: 1 INCH = 1,000 FEET	DR TLH	CHK HPC	REV

PREPARED FOR:
NC Department Of Transportation
Geotechnical Unit
WBS Element:35579.1.1
TIP# R-3405

Prepared By:

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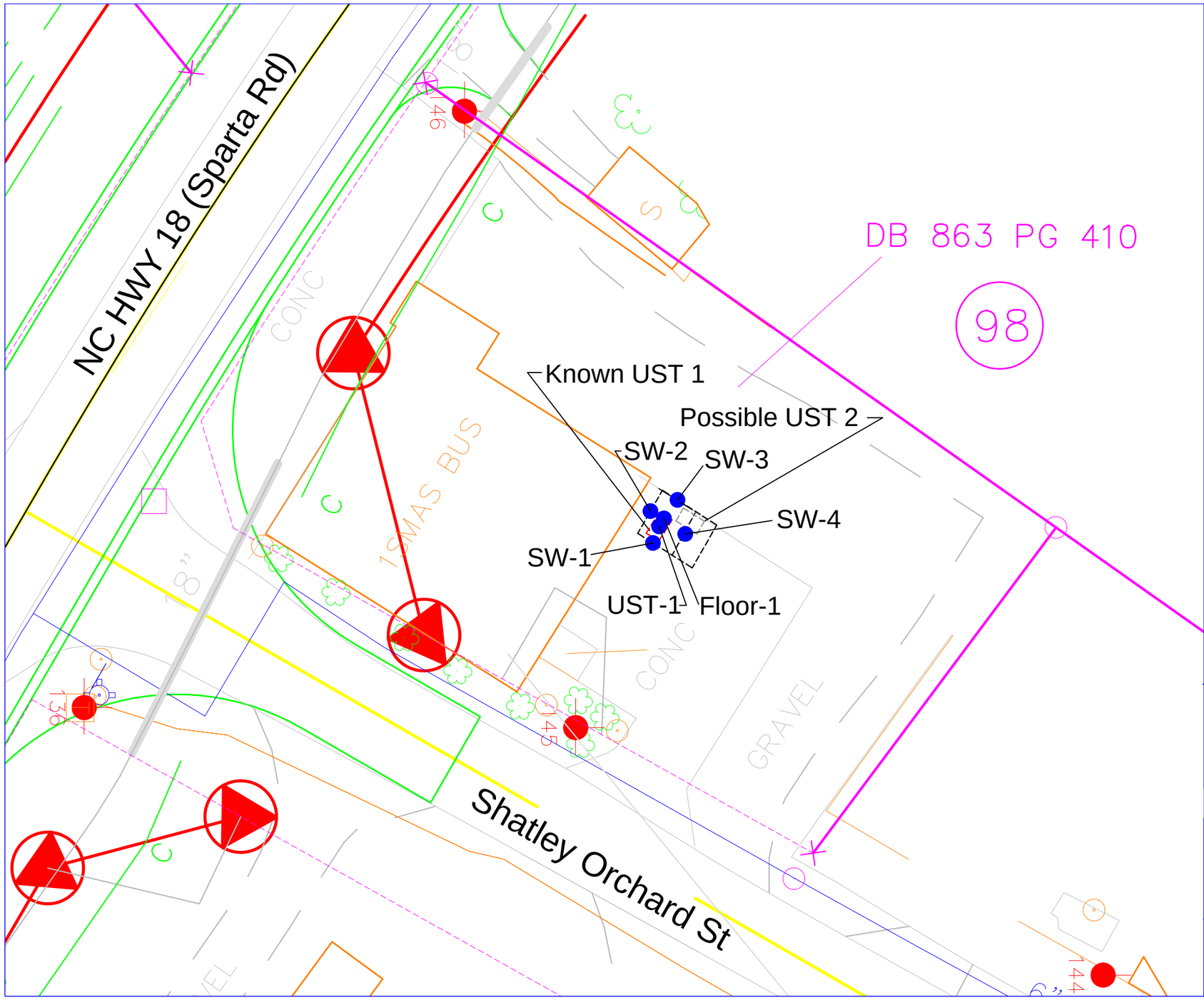
Figure:

Figure 1



LEGEND

- Proposed Right of Way
- Existing Property Line
- Existing Right of Way
- C — Cut Line
- F — Fill Line
- Soil Sample Location January 2012
- Known UST
- Possible UST
- Excavation *Note Northwestern Portion of Excavation is 10 feet deep. Southeastern Portion is 3 to 4 feet deep.
- Utility Easement
- Utility Pole

0' 10' 20' 30'

1" = 20'

Figure 2
Parcel #98 Steven Joseph Whitley Property
Site Map with Sample and UST Locations

NC Department of Transportation
Geotechnical Unit
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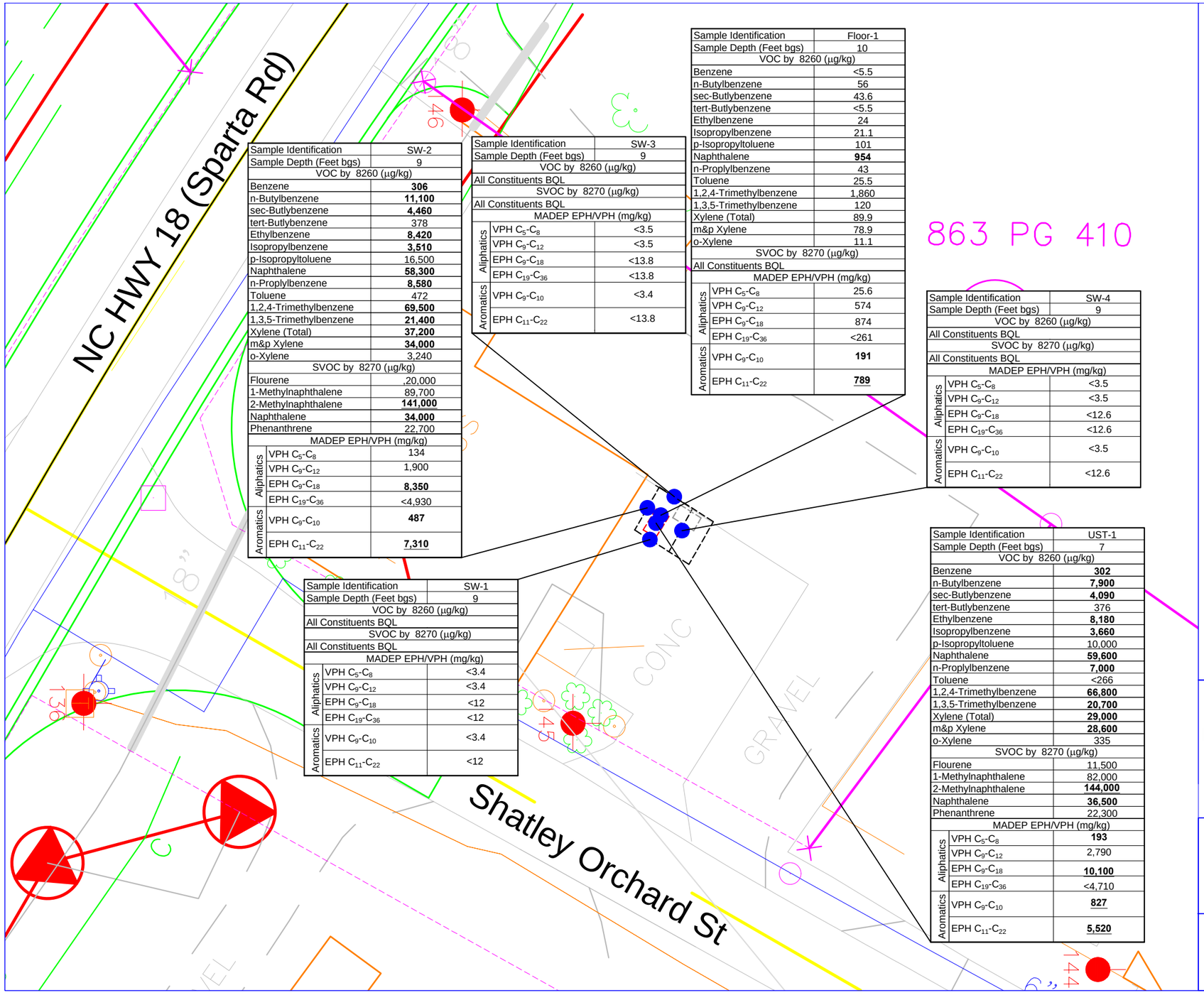

Sample Identification	SW-2
Sample Depth (Feet bgs)	9
VOC by 8260 (µg/kg)	
Benzene	**306**
n-Butylbenzene	**11,100**
sec-Butylbenzene	**4,460**
tert-Butylbenzene	378
Ethylbenzene	**8,420**
Isopropylbenzene	**3,510**
p-Isopropyltoluene	16,500
Naphthalene	**58,300**
n-Proplylbenzene	**8,580**
Toluene	472
1,2,4-Trimethylbenzene	**69,500**
1,3,5-Trimethylbenzene	**21,400**
Xylene (Total)	**37,200**
m&p Xylene	**34,000**
o-Xylene	3,240
SVOC by 8270 (µg/kg)	
Flourene	,20,000
1-Methylnaphthalene	89,700
2-Methylnaphthalene	**141,000**
Naphthalene	**34,000**
Phenanthrene	22,700
MADEP EPH/VPH (mg/kg)	
Aliphatics: VPH C_5-C_8	134
Aliphatics: VPH C_9-C_{12}	1,900
Aliphatics: EPH C_9-C_{18}	**8,350**
Aliphatics: EPH C_{19}-C_{36}	<4,930
Aromatics: VPH C_9-C_{10}	**487**
Aromatics: EPH C_{11}-C_{22}	**7,310**

Sample Identification	SW-3
Sample Depth (Feet bgs)	9
VOC by 8260 (µg/kg)	
All Constituents BQL	
SVOC by 8270 (µg/kg)	
All Constituents BQL	
MADEP EPH/VPH (mg/kg)	
Aliphatics: VPH C_5-C_8	<3.5
Aliphatics: VPH C_9-C_{12}	<3.5
Aliphatics: EPH C_9-C_{18}	<13.8
Aliphatics: EPH C_{19}-C_{36}	<13.8
Aromatics: VPH C_9-C_{10}	<3.4
Aromatics: EPH C_{11}-C_{22}	<13.8

Sample Identification	Floor-1
Sample Depth (Feet bgs)	10
VOC by 8260 (µg/kg)	
Benzene	<5.5
n-Butylbenzene	56
sec-Butylbenzene	43.6
tert-Butylbenzene	<5.5
Ethylbenzene	24
Isopropylbenzene	21.1
p-Isopropyltoluene	101
Naphthalene	**954**
n-Proplylbenzene	43
Toluene	25.5
1,2,4-Trimethylbenzene	1,860
1,3,5-Trimethylbenzene	120
Xylene (Total)	89.9
m&p Xylene	78.9
o-Xylene	11.1
SVOC by 8270 (µg/kg)	
All Constituents BQL	
MADEP EPH/VPH (mg/kg)	
Aliphatics: VPH C_5-C_8	25.6
Aliphatics: VPH C_9-C_{12}	574
Aliphatics: EPH C_9-C_{18}	874
Aliphatics: EPH C_{19}-C_{36}	<261
Aromatics: VPH C_9-C_{10}	**191**
Aromatics: EPH C_{11}-C_{22}	**789**

Sample Identification	SW-4
Sample Depth (Feet bgs)	9
VOC by 8260 (µg/kg)	
All Constituents BQL	
SVOC by 8270 (µg/kg)	
All Constituents BQL	
MADEP EPH/VPH (mg/kg)	
Aliphatics: VPH C_5-C_8	<3.5
Aliphatics: VPH C_9-C_{12}	<3.5
Aliphatics: EPH C_9-C_{18}	<12.6
Aliphatics: EPH C_{19}-C_{36}	<12.6
Aromatics: VPH C_9-C_{10}	<3.5
Aromatics: EPH C_{11}-C_{22}	<12.6

Sample Identification	SW-1
Sample Depth (Feet bgs)	9
VOC by 8260 (µg/kg)	
All Constituents BQL	
SVOC by 8270 (µg/kg)	
All Constituents BQL	
MADEP EPH/VPH (mg/kg)	
Aliphatics: VPH C_5-C_8	<3.4
Aliphatics: VPH C_9-C_{12}	<3.4
Aliphatics: EPH C_9-C_{18}	<12
Aliphatics: EPH C_{19}-C_{36}	<12
Aromatics: VPH C_9-C_{10}	<3.4
Aromatics: EPH C_{11}-C_{22}	<12

Sample Identification	UST-1
Sample Depth (Feet bgs)	7
VOC by 8260 (µg/kg)	
Benzene	**302**
n-Butylbenzene	**7,900**
sec-Butylbenzene	**4,090**
tert-Butylbenzene	376
Ethylbenzene	**8,180**
Isopropylbenzene	**3,660**
p-Isopropyltoluene	10,000
Naphthalene	**59,600**
n-Proplylbenzene	**7,000**
Toluene	<266
1,2,4-Trimethylbenzene	**66,800**
1,3,5-Trimethylbenzene	**20,700**
Xylene (Total)	**29,000**
m&p Xylene	**28,600**
o-Xylene	335
SVOC by 8270 (µg/kg)	
Flourene	11,500
1-Methylnaphthalene	82,000
2-Methylnaphthalene	**144,000**
Naphthalene	**36,500**
Phenanthrene	22,300
MADEP EPH/VPH (mg/kg)	
Aliphatics: VPH C_5-C_8	**193**
Aliphatics: VPH C_9-C_{12}	2,790
Aliphatics: EPH C_9-C_{18}	**10,100**
Aliphatics: EPH C_{19}-C_{36}	<4,710
Aromatics: VPH C_9-C_{10}	**827**
Aromatics: EPH C_{11}-C_{22}	**5,520**

LEGEND

- Proposed Right of Way
- Existing Property Line
- Existing Right of Way
- C — Cut Line
- F — Fill Line
- Soil Sample Location January 2012
- Known UST
- Possible UST
- Excavation *Note Southern Portion of Excavation is 10 feet deep. Northern Portion is 3 to 4 feet deep.
- Utility Easement
- Utility Pole

0' 10' 20' 30'

1" = 20'

Figure 3
Parcel #98 Steven Joseph Whitley Property
Site Map With Analytical Detections

NC Department of Transportation
Geotechnical Unit
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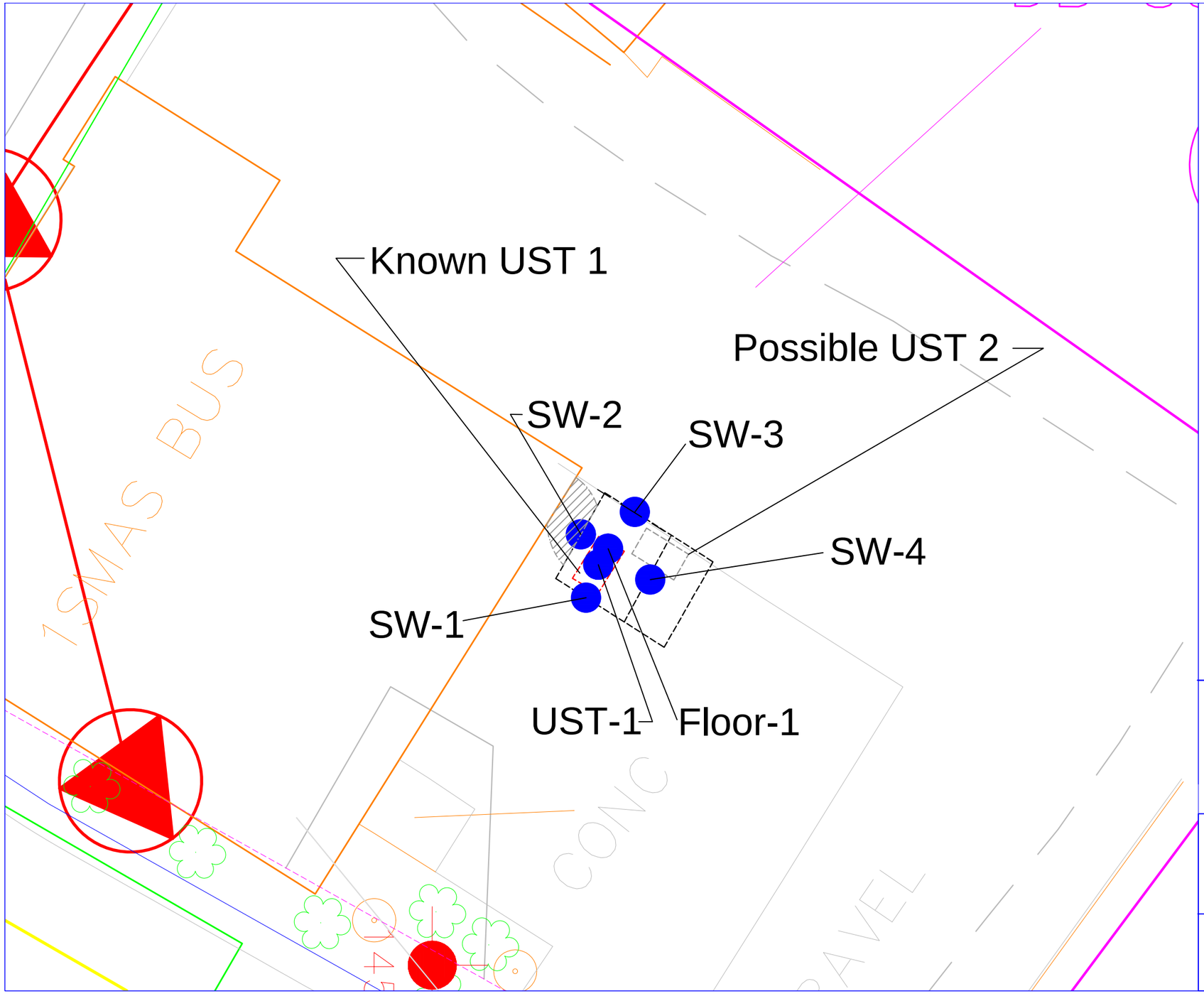

LEGEND

- Proposed Right of Way
- Existing Property Line
- Existing Right of Way
- C — Cut Line
- F — Fill Line
- Soil Sample Location January 2012
- Estimated Remaining Area of Contamination is at least 23 Sq feet
- Known UST
- Possible UST
- Excavation *Note Northwestern Portion of Excavation is 10 feet deep. Southeastern Portion is 3 to 4 feet deep.
- Utility Easement
- Utility Pole

0' 5' 10' 15'

1" = 10'

Figure 4
Parcel #98 Steven Joseph Whitley Property
Site Map with Estimated Area of Contamination

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TABLES

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Table 1
PID Field Screening
Parcel 98, Steven Joseph Whitley Property
North Wilkesboro, North Carolina

SAMPLE ID	Sample Date	Comments	Sample Depth (feet bgs)	Field Screening (ppm)
P-1	1/31/2012	Composite Grab Over UST 1	1	0
P-2	1/31/2012	Composite Grab South Side of Excavation	3	0.4
P-3	1/31/2012	Composite Grab West side of Excavation	3	0.4
P-4	1/31/2012	Composite Grab North Side of Excavation	2	0.1
P-5	1/31/2012	UST 1 (Closure Sample)	7	194
P-6	1/31/2012	Floor	10	85
P-7	1/31/2012	Side Wall - 1 (South)	9	0.8
P-8	1/31/2012	Side Wall - 2 (West)	9	84
P-9	1/31/2012	Side Wall - 3 (North)	9	2.8
P-10	1/31/2012	Side Wall - 4 (East)	9	15.9

Notes: PPM = Parts Per Million

Table 2
Soil Analytical Data
Volatile Organic Compounds
Parcel 98, Steven Joseph Whitley Property
North Wilkesboro, North Carolina

Sample ID Number	Sample Date	Sample Depth (ft bgs)	Benzene	n-Butylbenzene	sec-Butylbenzene	tert-Butlybenzene	Ethylbenzene	Isopropylbenzene	p-Isopropyltoluene	Naphthalene	n-Propylbenzene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylene (Total)	m&p Xylene	o-Xylene
Industrial/Commercial MSCC			*164,000*	*16,350,000*	*16,350,000*	*16,350,000*	*40,000,000*	*40,880,000*	*NE*	*8,176,000*	*16,350,000*	*32,000,000*	*20,440,000*	*20,440,000*	*81,760,000*	*81,760,000*	*81,760,000*
Residential MSCC			*18,000*	*626,000*	*626,000*	*626,000*	*1,560,000*	*1,564,000*	*NE*	*313,000*	*626,000*	*1,200,000*	*782,000*	*782,000*	*3,129,000*	*3,129,000*	*3,129,000*
Soil-to-Groundwater MSCC			*5.6*	*4,300*	*3,300*	*3,400*	*4,900*	*1,700*	*NE*	*160*	*1,700*	*4,300*	*8,500*	*8,300*	*4,600*	*4,600*	*4,600*
UST-1	1/31/2012	7	**302**	**7,900**	**4,090**	376	**8,180**	**3,660**	10,000	**59,600**	**7,000**	<266	**66,800**	**20,700**	**29,000**	**28,600**	335
Floor-1	1/31/2012	10	<5.5	56	43.6	<5.5	24	21.2	101	**954**	43	25.5	1,860	120	89.9	78.9	11.1
SW-1	1/31/2012	9	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<10.9	<10.9	<5.5
SW-2	1/31/2012	9	**306**	**11,100**	**4,460**	378	**8,420**	**3,510**	16,500	**58,300**	**8,580**	472	**69,500**	**21,400**	**37,200**	**34,000**	3,240
SW-3	1/31/2012	9	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<11.6	<11.6	<5.8
SW-4	1/31/2012	9	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	5.4	<5.2	<5.2	<10.4	<10.4	<5.2

NOTES:
(µg/kg) = Micrograms per kilogram
MSCC = Maximum soil contaminant concentration (MSCC from January 2010)
NE - Not established
VOC = Volatile organic compounds
SVOC = Semivolatile organic compounds
J = Analyte was detected, but at a concentration below the laboratory reporting limit
ft bgs = feet below ground surface
Concentrations which exceed the Soil-to-Groundwater MSCC are highlighted in **BOLD**
Concentrations which exceed the Residential MSCC are highlighted in **BOLD** and Underlined
Concentrations which exceed the Industrial/Commercial MSCC are highlighed in **BOLD**, Underlined and Shaded Gray

Table 3
Soil Analytical Data
Semi Volatile Organic Compounds
Parcel 98, Steven Joseph Whitley Property
North Wilkesboro, North Carolina

Sample ID Number	Sample Date	Sample Depth (ft bgs)	Fluorene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Phenanthrene
Industrial/Commercial MSCC			*16,400,000*	*NE*	*1,635,000*	*8,176,000*	*12,264,000*
Residential MSCC			*620,000*	*NE*	*63,000*	*313,000*	*469,000*
Soil-to-Groundwater MSCC			*47,000*	*NE*	*3,600*	*160*	*56,000*
UST-1	1/31/2012	7	11,500	82,000	**144,000**	**36,500**	22,300
Floor-1	1/31/2012	10	<420	<420	<420	<420	<420
SW-1	1/31/2012	9	<401	<401	<401	<401	<401
SW-2	1/31/2012	9	<20,000	89,700	**141,000**	**34,000**	22,700
SW-3	1/31/2012	9	<458	<458	<458	<458	<458
SW-4	1/31/2012	9	<419	<419	<419	<419	<419

NOTES:
(µg/kg) = Micrograms per kilogram
MSCC = Maximum soil contaminant concentration (MSCC from January 2010)
NE - Not established
VOC = Volatile organic compounds
SVOC = Semivolatile organic compounds
J = Analyte was detected, but at a concentration below the laboratory reporting limit
ft bgs = feet below ground surface
Concentrations which exceed the Soil-to-Groundwater MSCC are highlighted in **BOLD**
Concentrations which exceed the Residential MSCC are highlighted in **BOLD** and Underlined
Concentrations which exceed the Industrial/Commercial MSCC are highlighed in **BOLD**, Underlined and Shaded Gray

Table 4
Soil Analytical Data
Volatile Petroleum Hydrocarbons/Extractable Petroleum Hydrocarbons
Parcel 98, Steven Joseph Whitley Property
North Wilkesboro, North Carolina

Sample ID Number	Sample Date	Sample Depth (ft bgs)	Aliphatics (mg/kg)				Aromatics (mg/kg)	
			VPH C5-C8	VPH C9-C12	EPH C9-C18	EPH C19-C36	VPH C9-C10	EPH C11-C22
Industrial/Commercial MSCC			*24,528*	*245,280*		*>100%*	*12,264*	
Residential MSCC			*939*	*9,386*		*93,860*	*469*	
Soil-to-Groundwater MSCC			*72*	*3,300*		*Immobile*	*34*	
UST-1	1/31/2012	7	**193**	2,790	**10,100**	<4,710	**827**	**5,520**
Floor-1	1/31/2012	10	25.6	574	874	<261	**191**	**789**
SW-1	1/31/2012	9	<3.4	<3.4	<12	<12	<3.4	<12
SW-2	1/31/2012	9	**134**	1,900	**8,350**	<4,930	**487**	**7,310**
SW-3	1/31/2012	9	<3.5	<3.5	<13.8	<13.8	<3.5	<13.8
SW-4	1/31/2012	9	<3.5	<3.5	<12.6	<12.6	<3.5	<12.6

NOTES:
VPH = Volatile petroleum hydrocarbons
MSCC = Maximum soil contaminant concentration (MSCC from January 2010)
EPH = Extractable petroleum hydrocarbons
ft bgs = feet below land surface
(mg/kg) = milligrams per kilogram
Concentrations which exceed the Soil-to-Groundwater MSCC are highlighted in **BOLD**
Concentrations which exceed the Residential MSCC are highlighted in **BOLD** and Underlined
Concentrations which exceed the Industrial/Commercial MSCC are highlighted in **BOLD**, Underlined and Shaded Gray

APPENDIX A

PHOTO LOG

AMEC Earth & Environmental, Inc.
2200 Gateway Centre Blvd, Suite 205
Morrisville, NC 27560
www.amec.com
Tel – (919) 447-2750
Fax – (919) 447-2751

Photo 1

Viewing west toward Site from across Shatley Orchard Street

Photo 2

Viewing south – Cutting concrete prior to excavation

amec

2801 Yorkmont Rd, Suite 100
Charlotte, North Carolina 28988

W.O. 566773405
PROCESSED TLH
DATE February 2012
PAGE

PHOTOGRAPHIC LOG

Initial Abatement Action Activities
Parcel 98, 1532 Sparta Rd, North Wilkesboro, North Carolina

Photo 3

View of track hoe beginning excavation

Photo 4

Viewing the remnants of a 50 gallon drum, formerly believed to be a UST during geophysical effort.

Photo 5

View of UST being loaded on the flat bed truck. Multiple holes are visible in the side of the UST

Photo 6

View of the excavation after regrading and clean up.

APPENDIX B

MANIFESTS AND DISPOSAL CERTIFICATES

AMEC Earth & Environmental, Inc.
2200 Gateway Centre Blvd, Suite 205
Morrisville, NC 27560
Tel – (919) 447-2750
Fax – (919) 447-2751
www.amec.com

ENVIRONMENTAL AND INDUSTRIAL RESOURCES

1703 Vargrave Street
Winston-Salem, NC 27107
ph 336-725-5844
fax 336-725-6244

CERTIFICATE OF DISPOSAL

Evo Corporation does hereby certify that 42.21 tons of non-hazardous contaminated material received on 01/31/2012 from:

Generator: Steven Joseph Whitley

Originating at: 1532 Sparta Rd.
North Wilkesboro, NC

EC Waste ID #: 011215

has been disposed of by Evo Corporation in a manner approved by the North Carolina Department of Environment and Natural Resources.

Thomas W. Hammett

Signature

Thomas W. Hammett
CEO
Evo Corporation

ENVIRONMENTAL AND INDUSTRIAL RESOURCES

1703 Vargrave Street
Winston-Salem, NC 27107
ph 336-725-5844
fax 336-725-6244

CERTIFICATE OF DISPOSAL

Evo Corporation. does hereby certify that 150 gallons of non-hazardous contaminated sludge received on 01/31/2012 from:

Generator: Steven Joseph Whitley

Originating at: 1532 Sparta Rd.
North Wilkesboro, NC

EC Waste ID #: 011215

has been disposed of by Evo Corporation. in a manner approved by the North Carolina Department of Environment and Natural Resources.

Signature

Thomas W. Hammett
CEO
Evo Corporation

ENVIRONMENTAL AND INDUSTRIAL RESOURCES

1703 Vargrave Street
Winston-Salem, NC 27107
ph 336-725-5844
fax 336-725-6244

TANK DISPOSAL CERTIFICATE

Tank Owner: Steven Joseph Whitley

Site Address: 1532 Sparta Rd.
North Wilkesboro, NC

Tank Description:

Tank Number	Size of Tank	Contents
1	550 Gallons	Gasoline

Transporter: Evo Corporation

EC Project #: 011215

Disposal Certification:

Evo Corporation does hereby certify that the above named storage tank was transported to OmniSource Southeast in Winston-Salem, NC for proper disposal and recycling.

Signature

Thomas W. Hammett
CEO
Evo Corporation

EVO CORPORATION

1703 Vargrave Street, Winston-Salem, NC 27107
www.evocorp.net

NON-HAZARDOUS MATERIALS MANIFEST

Load #

Manifest No. 73433

GENERATOR INFORMATION

Generator: Steven Joseph Whitley

Phone: 704-357-5616

Site Address: 1532 Sparta Road

City/State: North Wilkesboro, NC

Contact: Troy Holzschuh

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): _____

Material: Water

Empty Weight (lbs): _____

Contaminant: Gasoline / #2 Fuel Oil

Net Weight (lbs): _____

Quantity: 150

Tons Drums Pails Sacs Yards Other: 9/5

TRANSPORTER INFORMATION

Transporter: Evo Corporation

Phone: 336-725-5844

Truck #: 5074 Svs

Contact: Tony Disher

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: _____

Date: 1-31-12

FACILITY INFORMATION

011215

Evo Project #: _____

EVO CORPORATION
1703 Vargrave Street
Winston-Salem, NC 27107

Phone: (336) 725-5844

Contact: Tony Disher

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: Norberto Gonzales

Date: 1-31-12

White/Facility | Canary/Invoice | Goldenrod/Generator | Pink/Carrier

EVO CORPORATION

1703 Vargrave Street, Winston-Salem, NC 27107
www.evocorp.net

NON-HAZARDOUS MATERIALS MANIFEST

Load # Manifest No. 73432

GENERATOR INFORMATION

Generator: Steven Joseph Whitley Phone: 704-357-5616
Site Address: 1532 Sparta Road
City/State: North Wilkesboro, NC Contact: Troy Holzschuh

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): 76660 Material: Soil
Empty Weight (lbs): 33480 Contaminant: Gasoline
Net Weight (lbs): 43180

Quantity 21.59 (Tons) Drums Pails Sacs Yards Other: _____

TRANSPORTER INFORMATION

Transporter: Evo Corporation Phone: 336-725-5844
Truck #: 207/311 Contact: Tony Disher

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: [signature] Date: 1/31/12

FACILITY INFORMATION

011215

Evo Project #: _____

EVO CORPORATION
1703 Vargrave Street
Winston-Salem, NC 27107

Phone: (336) 725-5844

Contact: Tony Disher

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: [signature] Date: 1-31-12

White/Facility Canary/Invoice Goldenrod/Generator Pink/Carrier

EVO CORPORATION

1703 Vargrave Street, Winston-Salem, NC 27107
www.evocorp.net
NON-HAZARDOUS MATERIALS MANIFEST

Load # Manifest No. 73432

GENERATOR INFORMATION

Generator: Steven Joseph Whitley Phone: 704-357-5616
Site Address: 1532 Sparta Road
City/State: North Wilkesboro, NC Contact: Troy Holzschuh

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): 76660 Material: Soil
Empty Weight (lbs): 33480 Contaminant: Gasoline
Net Weight (lbs): 43180

Quantity 21.59 (Tons) Drums Pails Sacs Yards Other: ____

TRANSPORTER INFORMATION

Transporter: Evo Corporation Phone: 336-725-5844
Truck #: 207/311 Contact: Tony Disher

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: [signature] Date: 1/31/12

FACILITY INFORMATION

011215

Evo Project #: ____

EVO CORPORATION
1703 Vargrave Street
Winston-Salem, NC 27107

Phone: (336) 725-5844

Contact: Tony Disher

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this aterial for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: [signature] Date: 1-31-12

White/Facility Canary/Invoice Goldenrod/Generator Pink/Carrier

EVO CORPORATION

1703 Vargrave Street, Winston-Salem, NC 27107
www.evocorp.net
NON-HAZARDOUS MATERIALS MANIFEST

Load #

Manifest No. 73430

GENERATOR INFORMATION

Generator: Gary Bruce Miller · Steven Joseph Uh Hey Phone: 704-357-5616

Site Address: 532 Sparta Road

City/State: North Wilkesboro, NC Contact: Troy Holzschuh

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): 74300

Empty Weight (lbs): 33060

Net Weight (lbs): 41240

Material: Soil

Contaminant: Gasoline

Quantity: 20.62 (Tons) Drums Pails Sacs Yards Other: _____

TRANSPORTER INFORMATION

Transporter: Evo Corporation Phone: 336-725-5844

Truck #: 202 | 316 Contact: Tony Disher

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: [signature] Date: 1-31-12

FACILITY INFORMATION

Evo Project #: 011215

EVO CORPORATION
1703 Vargrave Street
Winston-Salem, NC 27107

Phone: (336) 725-5844

Contact: Tony Disher

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: [signature] Date: 01-31-2012

White/Facility Canary/Invoice Goldenrod/Generator Pink/Carrier

EVO CORPORATION

1703 Vargrave Street, Winston-Salem, NC 27107
www.evocorp.net

NON-HAZARDOUS MATERIALS MANIFEST

Load # Manifest No. 73430

GENERATOR INFORMATION

Generator: Gary Bruce Miller Steven Joseph Whitley Phone: 704-357-5616
Site Address: 132 Sparta Road
City/State: North Wilkesboro, NC Contact: Troy Holcachuh

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): 74300 Material: Soil
Empty Weight (lbs): 33060 Contaminant: Gasoline
Net Weight (lbs): 41240

Quantity 20.62 (Tons) Drums Pails Sacs Yards Other: _____

TRANSPORTER INFORMATION

Transporter: Evo Corporation Phone: 336-725-5844
Truck #: 202 | 316 Contact: Tony Disher

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: Date: 1-31-12

FACILITY INFORMATION

Evo Project #: 0112195

EVO CORPORATION
1703 Vargrave Street
Winston-Salem, NC 27107

Phone: (336) 725-5844
Contact: Tony Disher

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: Date: 01-31-2012

White/Facility Canary/Invoice Goldenrod/Generator Pink/Carrier

Scale Ticket No. 46065

(1)

OmniSource

SOUTHEAST
3415 Glenn Avenue
Winston-Salem, NC 27105
(336) 725-8333

Customer Evo

Truck ID 202/311

Commodity
Paid $5.00

NORTH CAROLINA
PUBLIC WEIGHMASTER
LICENSE EXPIRES JUNE 30, 2012
JARED HARDISON 34138
INVALID UNLESS SIGNED

Customer Signature

4:26 PM 1/31/2012
76660 lb G

Job #011215

HORN'S AMBEST TRAVEL CENTER
CERTIFIED SCALES

I-40 & Hwy. 601 • Exit 170
Mocksville, NC 27028

DATE: TIME:

Steering: 11360
Drive : 27100
Tandem : 35840

01-31-12
Ticket : #40295
Customer: EVO

Job #011215
North Wilkesboro

Truck : 202
Trailer : 316

Total : 74300

SINGLE $8.00

NORTH CAROLINA
PUBLIC WEIGHMASTER
LICENSE EXPIRES JUNE 30, 2012
JON PEARCY 24654
INVALID UNLESS SIGNED

TOTAL WT. IS THE GROSS WEIGHT

COMMODITY: Contaminated Soil
Non Haz

WEIGHER SIGNATURE X

Horn Oil Co., Inc. **guarantee's** that the **gross weight** on this ticket is accurate, as witnessed by a trained "scalemaster".
If you get a **gross overweight** citation from the state **after** weighing legal at this location, we will check our scales for accuracy. And,
If our scale is inaccurate we will reimburse you for the fine, OR
If our scale is correct we will appear in court with you as an expert witness.
If you do receive a citation after weighing at our location, please call: Horn's Auto/Truck Plaza (336) 751-3815.
AND, Send a copy of the citation and this weigh ticket along with your company, name, address, and phone number to the address on this ticket.
The **GROSS WEIGHT** is the **GUARANTEED** and **CERTIFIED WEIGHT**, and it was weighed on a full length platform scale.

APPENDIX C

EXCAVATION LOGS

AMEC Earth & Environmental, Inc.
2200 Gateway Centre Blvd, Suite 205
Morrisville, NC 27560
Tel – (919) 447-2750
Fax – (919) 447-2751
www.amec.com

amec	**EXCAVATION NO: UST-1**
EXCAVATION LOG: Parcel 98 - TIP: R-3405	**PAGE** 1 **OF** 1
LOCATION: 1532 Sparta Rd, North Wilkesboro, North Carolina	**DATE:** 1-31-12
CONTRACTOR: Evo Corporation.	**START:** 1155
HELPER: N/A	**FINISH:** 945 (2-1-12)
EXCAVATION METHOD: Track Hoe	**LOGGED BY: TLH**

NOTES:
No groundwater encountered

DEPTH TO ROCK: No bedrock was encountered

TOTAL DEPTH OF EXCAVATION: 10 ft bgs

DEPTH IN FEET		MOISTURE	SOIL / BEDROCK DESCRIPTION	PID - Maximum (ppm)
FROM	TO			
0	2	Moist	Tan, Clayey Silt	0
2	6	Moist	Orange, Clayey Silt	0.4
6	7	Moist	Brown, Clayey Silt	194
7	10	Moist	Orange, Clayey Silt	85

APPENDIX D

LABORATORY ANALYTICAL REPORT AND CHAIN OF CUSTODY RECORDS

AMEC Earth & Environmental, Inc.
2200 Gateway Centre Blvd, Suite 205
Morrisville, NC 27560
Tel – (919) 447-2750
Fax – (919) 447-2751
www.amec.com

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

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

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

February 13, 2012

Chemical Testing Engineer
NCDOT
Materials & Tests Unit
1801 Blue Ridge Road
Raleigh, NC 27607

RE: Project: WILKES COUNTY WBS#35579.1.1
Pace Project No.: 92111243

Dear Chemical Engineer:
Enclosed are the analytical results for sample(s) received by the laboratory on February 01, 2012. 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,

Kevin Godwin

kevin.godwin@pacelabs.com
Project Manager

Enclosures

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

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

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

CERTIFICATIONS

Project: WILKES COUNTY WBS#35579.1.1
Pace Project No.: 92111243

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
South Carolina Drinking Water Cert. #: 99006003
Virginia Drinking Water Certification #: 00213
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DHH Drinking Water # LA 100031
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460144

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

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

SAMPLE ANALYTE COUNT

Project: WILKES COUNTY WBS#35579.1.1
Pace Project No.: 92111243

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92111243001	**P98-UST-1(7)**	MADEP EPH	MEJ	7	PASI-C
		MADEP VPH	AW	5	PASI-C
		EPA 8270	PPM	74	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92111243002	**P98-FLOOR-1(10')**	MADEP EPH	MEJ	7	PASI-C
		MADEP VPH	AW	5	PASI-C
		EPA 8270	PPM	74	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92111243003	**P98-SW-1-1(9')**	MADEP EPH	MEJ	7	PASI-C
		MADEP VPH	AW	5	PASI-C
		EPA 8270	PPM	74	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92111243004	**P98-SW-2(9')**	MADEP EPH	MEJ	7	PASI-C
		MADEP VPH	AW	5	PASI-C
		EPA 8270	PPM	74	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92111243005	**P98-SW-3(9')**	MADEP EPH	MEJ	7	PASI-C
		MADEP VPH	AW	5	PASI-C
		EPA 8270	PPM	74	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92111243006	**P98-SW-4(9')**	MADEP EPH	MEJ	7	PASI-C
		MADEP VPH	AW	5	PASI-C
		EPA 8270	PPM	74	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C

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(828)254-7176

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

PROJECT NARRATIVE

Project: WILKES COUNTY WBS#35579.1.1
Pace Project No.: 92111243

Method: **MADEP EPH**
Description: MADEP EPH NC Soil
Client: NCDOT West Central
Date: February 13, 2012

General Information:
6 samples were analyzed for MADEP EPH. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with MADEP EPH with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/16342

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- P98-FLOOR-1(10') (Lab ID: 92111243002)
  - 2-Bromonaphthalene (S)
  - 2-Fluorobiphenyl (S)
  - Nonatriacontane (S)
  - o-Terphenyl (S)
- P98-SW-2(9') (Lab ID: 92111243004)
  - 2-Bromonaphthalene (S)
  - 2-Fluorobiphenyl (S)
  - Nonatriacontane (S)
  - o-Terphenyl (S)
- P98-UST-1(7) (Lab ID: 92111243001)
  - 2-Bromonaphthalene (S)
  - 2-Fluorobiphenyl (S)
  - Nonatriacontane (S)
  - o-Terphenyl (S)

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

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

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

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

PROJECT NARRATIVE

Project: WILKES COUNTY WBS#35579.1.1
Pace Project No.: 92111243

Method: **MADEP EPH**
Description: MADEP EPH NC Soil
Client: NCDOT West Central
Date: February 13, 2012

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: OEXT/16342

N2: The lab does not hold TNI accreditation for this parameter.

- BLANK (Lab ID: 718513)
  - Aliphatic (C09-C18)
  - Aliphatic (C19-C36)
  - Aromatic (C11-C22)
- LCS (Lab ID: 718514)
  - Aliphatic (C09-C18)
  - Aliphatic (C19-C36)
  - Aromatic (C11-C22)
- LCSD (Lab ID: 718515)
  - Aliphatic (C09-C18)
  - Aliphatic (C19-C36)
  - Aromatic (C11-C22)
- P98-FLOOR-1(10') (Lab ID: 92111243002)
  - Aliphatic (C09-C18)
  - Aliphatic (C19-C36)
  - Aromatic (C11-C22)
- P98-SW-1-1(9') (Lab ID: 92111243003)
  - Aliphatic (C09-C18)
  - Aliphatic (C19-C36)
  - Aromatic (C11-C22)
- P98-SW-2(9') (Lab ID: 92111243004)
  - Aliphatic (C09-C18)
  - Aliphatic (C19-C36)
  - Aromatic (C11-C22)
- P98-SW-3(9') (Lab ID: 92111243005)
  - Aliphatic (C09-C18)
  - Aliphatic (C19-C36)
  - Aromatic (C11-C22)
- P98-SW-4(9') (Lab ID: 92111243006)
  - Aliphatic (C09-C18)
  - Aliphatic (C19-C36)
  - Aromatic (C11-C22)
- P98-UST-1(7) (Lab ID: 92111243001)
  - Aliphatic (C09-C18)
  - Aliphatic (C19-C36)
  - Aromatic (C11-C22)

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PROJECT NARRATIVE

Project: WILKES COUNTY WBS#35579.1.1
Pace Project No.: 92111243

Method: **MADEP VPH**
Description: VPH NC Soil
Client: NCDOT West Central
Date: February 13, 2012

General Information:
6 samples were analyzed for MADEP VPH. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with MADEP VPH with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: GCV/5721

S4: Surrogate recovery not evaluated against control limits due to sample dilution.
- P98-SW-2(9') (Lab ID: 92111243004)
  - 2,5-Dibromotoluene (FID)(S)
  - 2,5-Dibromotoluene (PID)(S)
  - Aliphatic (C05-C08)
- P98-UST-1(7) (Lab ID: 92111243001)
  - 2,5-Dibromotoluene (FID)(S)
  - 2,5-Dibromotoluene (PID)(S)

S5: Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).
- P98-FLOOR-1(10') (Lab ID: 92111243002)
  - 2,5-Dibromotoluene (FID)(S)
  - 2,5-Dibromotoluene (PID)(S)

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

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PROJECT NARRATIVE

Project: WILKES COUNTY WBS#35579.1.1
Pace Project No.: 92111243

Method: **MADEP VPH**
Description: VPH NC Soil
Client: NCDOT West Central
Date: February 13, 2012

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: GCV/5721

1g: Surrogate fails after Moisture Correction for Methanol.

- P98-SW-3(9') (Lab ID: 92111243005)
  - 2,5-Dibromotoluene (FID)(S)
- P98-SW-4(9') (Lab ID: 92111243006)
  - 2,5-Dibromotoluene (FID)(S)

N2: The lab does not hold TNI accreditation for this parameter.

- BLANK (Lab ID: 716906)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)
- LCS (Lab ID: 716907)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)
- LCSD (Lab ID: 716908)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)
- P98-FLOOR-1(10') (Lab ID: 92111243002)
  - Aliphatic (C05-C08)
  - Aromatic (C09-C10)
  - Aliphatic (C09-C12)
- P98-SW-1-1(9') (Lab ID: 92111243003)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)
- P98-SW-2(9') (Lab ID: 92111243004)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)

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PROJECT NARRATIVE

Project: WILKES COUNTY WBS#35579.1.1
Pace Project No.: 92111243

Method: **MADEP VPH**
Description: VPH NC Soil
Client: NCDOT West Central
Date: February 13, 2012

Analyte Comments:

QC Batch: GCV/5721

N2: The lab does not hold TNI accreditation for this parameter.

- P98-SW-2(9') (Lab ID: 92111243004)
  - Aromatic (C09-C10)
- P98-SW-3(9') (Lab ID: 92111243005)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)
- P98-SW-4(9') (Lab ID: 92111243006)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)
- P98-UST-1(7) (Lab ID: 92111243001)
  - Aliphatic (C05-C08)
  - Aromatic (C09-C10)
  - Aliphatic (C09-C12)

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PROJECT NARRATIVE

Project: WILKES COUNTY WBS#35579.1.1
Pace Project No.: 92111243

Method: **EPA 8270**
Description: 8270 MSSV Microwave
Client: NCDOT West Central
Date: February 13, 2012

General Information:
6 samples were analyzed for EPA 8270. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

QC Batch: OEXT/16315

P3: Sample extract could not be concentrated to the routine final volume, resulting in elevated reporting limits.
- P98-SW-2(9') (Lab ID: 92111243004)
- P98-UST-1(7) (Lab ID: 92111243001)

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/16315

S4: Surrogate recovery not evaluated against control limits due to sample dilution.
- P98-SW-2(9') (Lab ID: 92111243004)
  - Nitrobenzene-d5 (S)
- P98-UST-1(7) (Lab ID: 92111243001)
  - Nitrobenzene-d5 (S)

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

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PROJECT NARRATIVE

Project: WILKES COUNTY WBS#35579.1.1
Pace Project No.: 92111243

Method: **EPA 8270**
Description: 8270 MSSV Microwave
Client: NCDOT West Central
Date: February 13, 2012

Additional Comments:

Analyte Comments:

QC Batch: OEXT/16315

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- P98-SW-2(9') (Lab ID: 92111243004)
  - Nitrobenzene-d5 (S)
- P98-UST-1(7) (Lab ID: 92111243001)
  - Nitrobenzene-d5 (S)

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PROJECT NARRATIVE

Project: WILKES COUNTY WBS#35579.1.1
Pace Project No.: 92111243

Method: **EPA 8260**
Description: 8260/5035A Volatile Organics
Client: NCDOT West Central
Date: February 13, 2012

General Information:
6 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: WILKES COUNTY WBS#35579.1.1
Pace Project No.: 92111243

Sample: P98-UST-1(7) **Lab ID: 92111243001** Collected: 01/31/12 13:55 Received: 02/01/12 12:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEP EPH NC Soil	Analytical Method: MADEP EPH Preparation Method: MADEP EPH							
Aliphatic (C09-C18)	**10100**	mg/kg	4710	400	02/07/12 14:00	02/10/12 14:17		N2
Aliphatic (C19-C36)	ND	mg/kg	4710	400	02/07/12 14:00	02/10/12 14:17		N2
Aromatic (C11-C22)	**5520**	mg/kg	589	50	02/07/12 14:00	02/10/12 14:17		N2
Surrogates								
Nonatriacontane (S)	0	%	40-140	400	02/07/12 14:00	02/10/12 14:17	7194-86-7	S4
o-Terphenyl (S)	0	%	40-140	50	02/07/12 14:00	02/10/12 14:17	84-15-1	S4
2-Fluorobiphenyl (S)	0	%	40-140	50	02/07/12 14:00	02/10/12 14:17	321-60-8	S4
2-Bromonaphthalene (S)	0	%	40-140	50	02/07/12 14:00	02/10/12 14:17	580-13-2	S4
VPH NC Soil	Analytical Method: MADEP VPH Preparation Method: MADEP VPH							
Aliphatic (C05-C08)	**193**	mg/kg	33.0	10	02/01/12 16:38	02/03/12 00:17		N2
Aliphatic (C09-C12)	**2790**	mg/kg	33.0	10	02/01/12 16:38	02/03/12 00:17		N2,NC
Aromatic (C09-C10)	**827**	mg/kg	33.0	10	02/01/12 16:38	02/03/12 00:17		N2,NC
Surrogates								
2,5-Dibromotoluene (PID)(S)	148	%	70-130	10	02/01/12 16:38	02/03/12 00:17		S4
2,5-Dibromotoluene (FID)(S)	204	%	70-130	10	02/01/12 16:38	02/03/12 00:17		S4
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	9820	5	02/02/12 14:55	02/04/12 18:24	83-32-9	
Acenaphthylene	ND	ug/kg	9820	5	02/02/12 14:55	02/04/12 18:24	208-96-8	
Aniline	ND	ug/kg	9820	5	02/02/12 14:55	02/04/12 18:24	62-53-3	
Anthracene	ND	ug/kg	9820	5	02/02/12 14:55	02/04/12 18:24	120-12-7	
Benzo(a)anthracene	ND	ug/kg	9820	5	02/02/12 14:55	02/04/12 18:24	56-55-3	
Benzo(a)pyrene	ND	ug/kg	9820	5	02/02/12 14:55	02/04/12 18:24	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	9820	5	02/02/12 14:55	02/04/12 18:24	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	9820	5	02/02/12 14:55	02/04/12 18:24	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	9820	5	02/02/12 14:55	02/04/12 18:24	207-08-9	
Benzoic Acid	ND	ug/kg	49100	5	02/02/12 14:55	02/04/12 18:24	65-85-0	
Benzyl alcohol	ND	ug/kg	19600	5	02/02/12 14:55	02/04/12 18:24	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	9820	5	02/02/12 14:55	02/04/12 18:24	101-55-3	
Butylbenzylphthalate	ND	ug/kg	9820	5	02/02/12 14:55	02/04/12 18:24	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	19600	5	02/02/12 14:55	02/04/12 18:24	59-50-7	
4-Chloroaniline	ND	ug/kg	49100	5	02/02/12 14:55	02/04/12 18:24	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	9820	5	02/02/12 14:55	02/04/12 18:24	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	9820	5	02/02/12 14:55	02/04/12 18:24	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	9820	5	02/02/12 14:55	02/04/12 18:24	108-60-1	
2-Chloronaphthalene	ND	ug/kg	9820	5	02/02/12 14:55	02/04/12 18:24	91-58-7	
2-Chlorophenol	ND	ug/kg	9820	5	02/02/12 14:55	02/04/12 18:24	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	9820	5	02/02/12 14:55	02/04/12 18:24	7005-72-3	
Chrysene	ND	ug/kg	9820	5	02/02/12 14:55	02/04/12 18:24	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	9820	5	02/02/12 14:55	02/04/12 18:24	53-70-3	
Dibenzofuran	ND	ug/kg	9820	5	02/02/12 14:55	02/04/12 18:24	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	9820	5	02/02/12 14:55	02/04/12 18:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	9820	5	02/02/12 14:55	02/04/12 18:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	9820	5	02/02/12 14:55	02/04/12 18:24	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	49100	5	02/02/12 14:55	02/04/12 18:24	91-94-1	

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ANALYTICAL RESULTS

Project: WILKES COUNTY WBS#35579.1.1
Pace Project No.: 92111243

Sample: P98-UST-1(7) **Lab ID: 92111243001** Collected: 01/31/12 13:55 Received: 02/01/12 12:00 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							
2,4-Dichlorophenol	ND	ug/kg	9820	5	02/02/12 14:55	02/04/12 18:24	120-83-2	
Diethylphthalate	ND	ug/kg	9820	5	02/02/12 14:55	02/04/12 18:24	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	9820	5	02/02/12 14:55	02/04/12 18:24	105-67-9	
Dimethylphthalate	ND	ug/kg	9820	5	02/02/12 14:55	02/04/12 18:24	131-11-3	
Di-n-butylphthalate	ND	ug/kg	9820	5	02/02/12 14:55	02/04/12 18:24	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	19600	5	02/02/12 14:55	02/04/12 18:24	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	49100	5	02/02/12 14:55	02/04/12 18:24	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	9820	5	02/02/12 14:55	02/04/12 18:24	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	9820	5	02/02/12 14:55	02/04/12 18:24	606-20-2	
Di-n-octylphthalate	ND	ug/kg	9820	5	02/02/12 14:55	02/04/12 18:24	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	9820	5	02/02/12 14:55	02/04/12 18:24	117-81-7	
Fluoranthene	ND	ug/kg	9820	5	02/02/12 14:55	02/04/12 18:24	206-44-0	
Fluorene	**11500**	ug/kg	9820	5	02/02/12 14:55	02/04/12 18:24	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	9820	5	02/02/12 14:55	02/04/12 18:24	87-68-3	
Hexachlorobenzene	ND	ug/kg	9820	5	02/02/12 14:55	02/04/12 18:24	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	9820	5	02/02/12 14:55	02/04/12 18:24	77-47-4	
Hexachloroethane	ND	ug/kg	9820	5	02/02/12 14:55	02/04/12 18:24	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	9820	5	02/02/12 14:55	02/04/12 18:24	193-39-5	
Isophorone	ND	ug/kg	9820	5	02/02/12 14:55	02/04/12 18:24	78-59-1	
1-Methylnaphthalene	**82000**	ug/kg	9820	5	02/02/12 14:55	02/04/12 18:24	90-12-0	
2-Methylnaphthalene	**144000**	ug/kg	19600	10	02/02/12 14:55	02/04/12 18:52	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	9820	5	02/02/12 14:55	02/04/12 18:24	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	9820	5	02/02/12 14:55	02/04/12 18:24		
Naphthalene	**36500**	ug/kg	9820	5	02/02/12 14:55	02/04/12 18:24	91-20-3	
2-Nitroaniline	ND	ug/kg	49100	5	02/02/12 14:55	02/04/12 18:24	88-74-4	
3-Nitroaniline	ND	ug/kg	49100	5	02/02/12 14:55	02/04/12 18:24	99-09-2	
4-Nitroaniline	ND	ug/kg	19600	5	02/02/12 14:55	02/04/12 18:24	100-01-6	
Nitrobenzene	ND	ug/kg	9820	5	02/02/12 14:55	02/04/12 18:24	98-95-3	
2-Nitrophenol	ND	ug/kg	9820	5	02/02/12 14:55	02/04/12 18:24	88-75-5	
4-Nitrophenol	ND	ug/kg	49100	5	02/02/12 14:55	02/04/12 18:24	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	9820	5	02/02/12 14:55	02/04/12 18:24	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	9820	5	02/02/12 14:55	02/04/12 18:24	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	9820	5	02/02/12 14:55	02/04/12 18:24	86-30-6	
Pentachlorophenol	ND	ug/kg	49100	5	02/02/12 14:55	02/04/12 18:24	87-86-5	
Phenanthrene	**22300**	ug/kg	9820	5	02/02/12 14:55	02/04/12 18:24	85-01-8	
Phenol	ND	ug/kg	9820	5	02/02/12 14:55	02/04/12 18:24	108-95-2	
Pyrene	ND	ug/kg	9820	5	02/02/12 14:55	02/04/12 18:24	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	9820	5	02/02/12 14:55	02/04/12 18:24	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	9820	5	02/02/12 14:55	02/04/12 18:24	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	9820	5	02/02/12 14:55	02/04/12 18:24	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	0	%	23-110	5	02/02/12 14:55	02/04/12 18:24	4165-60-0	D3,P3, S4
2-Fluorobiphenyl (S)	0	%	30-110	5	02/02/12 14:55	02/04/12 18:24	321-60-8	
Terphenyl-d14 (S)	0	%	28-110	5	02/02/12 14:55	02/04/12 18:24	1718-51-0	
Phenol-d6 (S)	0	%	22-110	5	02/02/12 14:55	02/04/12 18:24	13127-88-3	

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ANALYTICAL RESULTS

Project: WILKES COUNTY WBS#35579.1.1
Pace Project No.: 92111243

Sample: P98-UST-1(7) **Lab ID: 92111243001** Collected: 01/31/12 13:55 Received: 02/01/12 12:00 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							
Surrogates								
2-Fluorophenol (S)	0	%	13-110	5	02/02/12 14:55	02/04/12 18:24	367-12-4	
2,4,6-Tribromophenol (S)	0	%	27-110	5	02/02/12 14:55	02/04/12 18:24	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	5320	50		02/02/12 15:35	67-64-1	
Benzene	**302**	ug/kg	266	50		02/02/12 15:35	71-43-2	
Bromobenzene	ND	ug/kg	266	50		02/02/12 15:35	108-86-1	
Bromochloromethane	ND	ug/kg	266	50		02/02/12 15:35	74-97-5	
Bromodichloromethane	ND	ug/kg	266	50		02/02/12 15:35	75-27-4	
Bromoform	ND	ug/kg	266	50		02/02/12 15:35	75-25-2	
Bromomethane	ND	ug/kg	532	50		02/02/12 15:35	74-83-9	
2-Butanone (MEK)	ND	ug/kg	5320	50		02/02/12 15:35	78-93-3	
n-Butylbenzene	**7900**	ug/kg	266	50		02/02/12 15:35	104-51-8	
sec-Butylbenzene	**4090**	ug/kg	266	50		02/02/12 15:35	135-98-8	
tert-Butylbenzene	**376**	ug/kg	266	50		02/02/12 15:35	98-06-6	
Carbon tetrachloride	ND	ug/kg	266	50		02/02/12 15:35	56-23-5	
Chlorobenzene	ND	ug/kg	266	50		02/02/12 15:35	108-90-7	
Chloroethane	ND	ug/kg	532	50		02/02/12 15:35	75-00-3	
Chloroform	ND	ug/kg	266	50		02/02/12 15:35	67-66-3	
Chloromethane	ND	ug/kg	532	50		02/02/12 15:35	74-87-3	
2-Chlorotoluene	ND	ug/kg	266	50		02/02/12 15:35	95-49-8	
4-Chlorotoluene	ND	ug/kg	266	50		02/02/12 15:35	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	266	50		02/02/12 15:35	96-12-8	
Dibromochloromethane	ND	ug/kg	266	50		02/02/12 15:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	266	50		02/02/12 15:35	106-93-4	
Dibromomethane	ND	ug/kg	266	50		02/02/12 15:35	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	266	50		02/02/12 15:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	266	50		02/02/12 15:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	266	50		02/02/12 15:35	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	532	50		02/02/12 15:35	75-71-8	
1,1-Dichloroethane	ND	ug/kg	266	50		02/02/12 15:35	75-34-3	
1,2-Dichloroethane	ND	ug/kg	266	50		02/02/12 15:35	107-06-2	
1,1-Dichloroethene	ND	ug/kg	266	50		02/02/12 15:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	266	50		02/02/12 15:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	266	50		02/02/12 15:35	156-60-5	
1,2-Dichloropropane	ND	ug/kg	266	50		02/02/12 15:35	78-87-5	
1,3-Dichloropropane	ND	ug/kg	266	50		02/02/12 15:35	142-28-9	
2,2-Dichloropropane	ND	ug/kg	266	50		02/02/12 15:35	594-20-7	
1,1-Dichloropropene	ND	ug/kg	266	50		02/02/12 15:35	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	266	50		02/02/12 15:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	266	50		02/02/12 15:35	10061-02-6	
Diisopropyl ether	ND	ug/kg	266	50		02/02/12 15:35	108-20-3	
Ethylbenzene	**8180**	ug/kg	266	50		02/02/12 15:35	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	266	50		02/02/12 15:35	87-68-3	
2-Hexanone	ND	ug/kg	2660	50		02/02/12 15:35	591-78-6	

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ANALYTICAL RESULTS

Project: WILKES COUNTY WBS#35579.1.1
Pace Project No.: 92111243

Sample: P98-UST-1(7) **Lab ID: 92111243001** Collected: 01/31/12 13:55 Received: 02/01/12 12:00 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							
Isopropylbenzene (Cumene)	**3660**	ug/kg	266	50		02/02/12 15:35	98-82-8	
p-Isopropyltoluene	**10000**	ug/kg	266	50		02/02/12 15:35	99-87-6	
Methylene Chloride	ND	ug/kg	1060	50		02/02/12 15:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	2660	50		02/02/12 15:35	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	266	50		02/02/12 15:35	1634-04-4	
Naphthalene	**59600**	ug/kg	5320	1000		02/03/12 11:35	91-20-3	
n-Propylbenzene	**7000**	ug/kg	266	50		02/02/12 15:35	103-65-1	
Styrene	ND	ug/kg	266	50		02/02/12 15:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	266	50		02/02/12 15:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	266	50		02/02/12 15:35	79-34-5	
Tetrachloroethene	ND	ug/kg	266	50		02/02/12 15:35	127-18-4	
Toluene	ND	ug/kg	266	50		02/02/12 15:35	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	266	50		02/02/12 15:35	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	266	50		02/02/12 15:35	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	266	50		02/02/12 15:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	266	50		02/02/12 15:35	79-00-5	
Trichloroethene	ND	ug/kg	266	50		02/02/12 15:35	79-01-6	
Trichlorofluoromethane	ND	ug/kg	266	50		02/02/12 15:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	266	50		02/02/12 15:35	96-18-4	
1,2,4-Trimethylbenzene	**66800**	ug/kg	5320	1000		02/03/12 11:35	95-63-6	
1,3,5-Trimethylbenzene	**20700**	ug/kg	5320	1000		02/03/12 11:35	108-67-8	
Vinyl acetate	ND	ug/kg	2660	50		02/02/12 15:35	108-05-4	
Vinyl chloride	ND	ug/kg	532	50		02/02/12 15:35	75-01-4	
Xylene (Total)	**29000**	ug/kg	10600	1000		02/03/12 11:35	1330-20-7	
m&p-Xylene	**28600**	ug/kg	10600	1000		02/03/12 11:35	179601-23-1	
o-Xylene	**335**	ug/kg	266	50		02/02/12 15:35	95-47-6	
Surrogates								
Dibromofluoromethane (S)	100	%	70-130	50		02/02/12 15:35	1868-53-7	
Toluene-d8 (S)	105	%	70-130	50		02/02/12 15:35	2037-26-5	
4-Bromofluorobenzene (S)	92	%	70-130	50		02/02/12 15:35	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-132	50		02/02/12 15:35	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**16.5**	%	0.10	1		02/02/12 08:39		

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ANALYTICAL RESULTS

Project: WILKES COUNTY WBS#35579.1.1
Pace Project No.: 92111243

Sample: P98-FLOOR-1(10') **Lab ID: 92111243002** Collected: 01/31/12 14:22 Received: 02/01/12 12:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEP EPH NC Soil	Analytical Method: MADEP EPH Preparation Method: MADEP EPH							
Aliphatic (C09-C18)	**874**	mg/kg	261	20	02/07/12 14:00	02/10/12 14:53		N2
Aliphatic (C19-C36)	ND	mg/kg	261	20	02/07/12 14:00	02/10/12 14:53		N2
Aromatic (C11-C22)	**789**	mg/kg	130	10	02/07/12 14:00	02/10/12 14:53		N2
Surrogates								
Nonatriacontane (S)	0	%	40-140	20	02/07/12 14:00	02/10/12 14:53	7194-86-7	S4
o-Terphenyl (S)	0	%	40-140	10	02/07/12 14:00	02/10/12 14:53	84-15-1	S4
2-Fluorobiphenyl (S)	0	%	40-140	10	02/07/12 14:00	02/10/12 14:53	321-60-8	S4
2-Bromonaphthalene (S)	0	%	40-140	10	02/07/12 14:00	02/10/12 14:53	580-13-2	S4
VPH NC Soil	Analytical Method: MADEP VPH Preparation Method: MADEP VPH							
Aliphatic (C05-C08)	**25.6**	mg/kg	3.3	1	02/01/12 16:38	02/01/12 22:45		N2
Aliphatic (C09-C12)	**574**	mg/kg	3.3	1	02/01/12 16:38	02/01/12 22:45		N2,NC
Aromatic (C09-C10)	**191**	mg/kg	3.3	1	02/01/12 16:38	02/01/12 22:45		N2,NC
Surrogates								
2,5-Dibromotoluene (PID)(S)	518	%	70-130	1	02/01/12 16:38	02/01/12 22:45		S5
2,5-Dibromotoluene (FID)(S)	633	%	70-130	1	02/01/12 16:38	02/01/12 22:45		S5
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	420	1	02/02/12 14:55	02/04/12 13:18	83-32-9	
Acenaphthylene	ND	ug/kg	420	1	02/02/12 14:55	02/04/12 13:18	208-96-8	
Aniline	ND	ug/kg	420	1	02/02/12 14:55	02/04/12 13:18	62-53-3	
Anthracene	ND	ug/kg	420	1	02/02/12 14:55	02/04/12 13:18	120-12-7	
Benzo(a)anthracene	ND	ug/kg	420	1	02/02/12 14:55	02/04/12 13:18	56-55-3	
Benzo(a)pyrene	ND	ug/kg	420	1	02/02/12 14:55	02/04/12 13:18	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	420	1	02/02/12 14:55	02/04/12 13:18	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	420	1	02/02/12 14:55	02/04/12 13:18	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	420	1	02/02/12 14:55	02/04/12 13:18	207-08-9	
Benzoic Acid	ND	ug/kg	2100	1	02/02/12 14:55	02/04/12 13:18	65-85-0	
Benzyl alcohol	ND	ug/kg	841	1	02/02/12 14:55	02/04/12 13:18	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	420	1	02/02/12 14:55	02/04/12 13:18	101-55-3	
Butylbenzylphthalate	ND	ug/kg	420	1	02/02/12 14:55	02/04/12 13:18	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	841	1	02/02/12 14:55	02/04/12 13:18	59-50-7	
4-Chloroaniline	ND	ug/kg	2100	1	02/02/12 14:55	02/04/12 13:18	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	420	1	02/02/12 14:55	02/04/12 13:18	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	420	1	02/02/12 14:55	02/04/12 13:18	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	420	1	02/02/12 14:55	02/04/12 13:18	108-60-1	
2-Chloronaphthalene	ND	ug/kg	420	1	02/02/12 14:55	02/04/12 13:18	91-58-7	
2-Chlorophenol	ND	ug/kg	420	1	02/02/12 14:55	02/04/12 13:18	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	420	1	02/02/12 14:55	02/04/12 13:18	7005-72-3	
Chrysene	ND	ug/kg	420	1	02/02/12 14:55	02/04/12 13:18	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	420	1	02/02/12 14:55	02/04/12 13:18	53-70-3	
Dibenzofuran	ND	ug/kg	420	1	02/02/12 14:55	02/04/12 13:18	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	420	1	02/02/12 14:55	02/04/12 13:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	420	1	02/02/12 14:55	02/04/12 13:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	420	1	02/02/12 14:55	02/04/12 13:18	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	2100	1	02/02/12 14:55	02/04/12 13:18	91-94-1	

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ANALYTICAL RESULTS

Project: WILKES COUNTY WBS#35579.1.1
Pace Project No.: 92111243

Sample: P98-FLOOR-1(10') **Lab ID: 92111243002** Collected: 01/31/12 14:22 Received: 02/01/12 12:00 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							
2,4-Dichlorophenol	ND	ug/kg	420	1	02/02/12 14:55	02/04/12 13:18	120-83-2	
Diethylphthalate	ND	ug/kg	420	1	02/02/12 14:55	02/04/12 13:18	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	420	1	02/02/12 14:55	02/04/12 13:18	105-67-9	
Dimethylphthalate	ND	ug/kg	420	1	02/02/12 14:55	02/04/12 13:18	131-11-3	
Di-n-butylphthalate	ND	ug/kg	420	1	02/02/12 14:55	02/04/12 13:18	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	841	1	02/02/12 14:55	02/04/12 13:18	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	2100	1	02/02/12 14:55	02/04/12 13:18	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	420	1	02/02/12 14:55	02/04/12 13:18	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	420	1	02/02/12 14:55	02/04/12 13:18	606-20-2	
Di-n-octylphthalate	ND	ug/kg	420	1	02/02/12 14:55	02/04/12 13:18	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	420	1	02/02/12 14:55	02/04/12 13:18	117-81-7	
Fluoranthene	ND	ug/kg	420	1	02/02/12 14:55	02/04/12 13:18	206-44-0	
Fluorene	ND	ug/kg	420	1	02/02/12 14:55	02/04/12 13:18	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	420	1	02/02/12 14:55	02/04/12 13:18	87-68-3	
Hexachlorobenzene	ND	ug/kg	420	1	02/02/12 14:55	02/04/12 13:18	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	420	1	02/02/12 14:55	02/04/12 13:18	77-47-4	
Hexachloroethane	ND	ug/kg	420	1	02/02/12 14:55	02/04/12 13:18	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	420	1	02/02/12 14:55	02/04/12 13:18	193-39-5	
Isophorone	ND	ug/kg	420	1	02/02/12 14:55	02/04/12 13:18	78-59-1	
1-Methylnaphthalene	ND	ug/kg	420	1	02/02/12 14:55	02/04/12 13:18	90-12-0	
2-Methylnaphthalene	ND	ug/kg	420	1	02/02/12 14:55	02/04/12 13:18	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	420	1	02/02/12 14:55	02/04/12 13:18	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	420	1	02/02/12 14:55	02/04/12 13:18		
Naphthalene	ND	ug/kg	420	1	02/02/12 14:55	02/04/12 13:18	91-20-3	
2-Nitroaniline	ND	ug/kg	2100	1	02/02/12 14:55	02/04/12 13:18	88-74-4	
3-Nitroaniline	ND	ug/kg	2100	1	02/02/12 14:55	02/04/12 13:18	99-09-2	
4-Nitroaniline	ND	ug/kg	841	1	02/02/12 14:55	02/04/12 13:18	100-01-6	
Nitrobenzene	ND	ug/kg	420	1	02/02/12 14:55	02/04/12 13:18	98-95-3	
2-Nitrophenol	ND	ug/kg	420	1	02/02/12 14:55	02/04/12 13:18	88-75-5	
4-Nitrophenol	ND	ug/kg	2100	1	02/02/12 14:55	02/04/12 13:18	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	420	1	02/02/12 14:55	02/04/12 13:18	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	420	1	02/02/12 14:55	02/04/12 13:18	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	420	1	02/02/12 14:55	02/04/12 13:18	86-30-6	
Pentachlorophenol	ND	ug/kg	2100	1	02/02/12 14:55	02/04/12 13:18	87-86-5	
Phenanthrene	ND	ug/kg	420	1	02/02/12 14:55	02/04/12 13:18	85-01-8	
Phenol	ND	ug/kg	420	1	02/02/12 14:55	02/04/12 13:18	108-95-2	
Pyrene	ND	ug/kg	420	1	02/02/12 14:55	02/04/12 13:18	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	420	1	02/02/12 14:55	02/04/12 13:18	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	420	1	02/02/12 14:55	02/04/12 13:18	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	420	1	02/02/12 14:55	02/04/12 13:18	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	63	%	23-110	1	02/02/12 14:55	02/04/12 13:18	4165-60-0	
2-Fluorobiphenyl (S)	63	%	30-110	1	02/02/12 14:55	02/04/12 13:18	321-60-8	
Terphenyl-d14 (S)	76	%	28-110	1	02/02/12 14:55	02/04/12 13:18	1718-51-0	
Phenol-d6 (S)	58	%	22-110	1	02/02/12 14:55	02/04/12 13:18	13127-88-3	
2-Fluorophenol (S)	64	%	13-110	1	02/02/12 14:55	02/04/12 13:18	367-12-4	

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ANALYTICAL RESULTS

Project: WILKES COUNTY WBS#35579.1.1
Pace Project No.: 92111243

Sample: P98-FLOOR-1(10') **Lab ID: 92111243002** Collected: 01/31/12 14:22 Received: 02/01/12 12:00 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							
Surrogates								
2,4,6-Tribromophenol (S)	78	%	27-110	1	02/02/12 14:55	02/04/12 13:18	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	111	1		02/02/12 13:56	67-64-1	
Benzene	ND	ug/kg	5.5	1		02/02/12 13:56	71-43-2	
Bromobenzene	ND	ug/kg	5.5	1		02/02/12 13:56	108-86-1	
Bromochloromethane	ND	ug/kg	5.5	1		02/02/12 13:56	74-97-5	
Bromodichloromethane	ND	ug/kg	5.5	1		02/02/12 13:56	75-27-4	
Bromoform	ND	ug/kg	5.5	1		02/02/12 13:56	75-25-2	
Bromomethane	ND	ug/kg	11.1	1		02/02/12 13:56	74-83-9	
2-Butanone (MEK)	ND	ug/kg	111	1		02/02/12 13:56	78-93-3	
n-Butylbenzene	**56.0**	ug/kg	5.5	1		02/02/12 13:56	104-51-8	
sec-Butylbenzene	**43.6**	ug/kg	5.5	1		02/02/12 13:56	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.5	1		02/02/12 13:56	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.5	1		02/02/12 13:56	56-23-5	
Chlorobenzene	ND	ug/kg	5.5	1		02/02/12 13:56	108-90-7	
Chloroethane	ND	ug/kg	11.1	1		02/02/12 13:56	75-00-3	
Chloroform	ND	ug/kg	5.5	1		02/02/12 13:56	67-66-3	
Chloromethane	ND	ug/kg	11.1	1		02/02/12 13:56	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.5	1		02/02/12 13:56	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.5	1		02/02/12 13:56	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.5	1		02/02/12 13:56	96-12-8	
Dibromochloromethane	ND	ug/kg	5.5	1		02/02/12 13:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.5	1		02/02/12 13:56	106-93-4	
Dibromomethane	ND	ug/kg	5.5	1		02/02/12 13:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.5	1		02/02/12 13:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.5	1		02/02/12 13:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.5	1		02/02/12 13:56	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	11.1	1		02/02/12 13:56	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.5	1		02/02/12 13:56	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.5	1		02/02/12 13:56	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.5	1		02/02/12 13:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.5	1		02/02/12 13:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.5	1		02/02/12 13:56	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.5	1		02/02/12 13:56	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.5	1		02/02/12 13:56	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.5	1		02/02/12 13:56	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.5	1		02/02/12 13:56	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.5	1		02/02/12 13:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.5	1		02/02/12 13:56	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.5	1		02/02/12 13:56	108-20-3	
Ethylbenzene	**24.0**	ug/kg	5.5	1		02/02/12 13:56	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.5	1		02/02/12 13:56	87-68-3	
2-Hexanone	ND	ug/kg	55.3	1		02/02/12 13:56	591-78-6	
Isopropylbenzene (Cumene)	**21.2**	ug/kg	5.5	1		02/02/12 13:56	98-82-8	

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ANALYTICAL RESULTS

Project: WILKES COUNTY WBS#35579.1.1
Pace Project No.: 92111243

Sample: P98-FLOOR-1(10') **Lab ID: 92111243002** Collected: 01/31/12 14:22 Received: 02/01/12 12:00 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							
p-Isopropyltoluene	**101**	ug/kg	5.5	1		02/02/12 13:56	99-87-6	
Methylene Chloride	ND	ug/kg	22.1	1		02/02/12 13:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	55.3	1		02/02/12 13:56	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.5	1		02/02/12 13:56	1634-04-4	
Naphthalene	**954**	ug/kg	111	20		02/02/12 16:16	91-20-3	
n-Propylbenzene	**43.0**	ug/kg	5.5	1		02/02/12 13:56	103-65-1	
Styrene	ND	ug/kg	5.5	1		02/02/12 13:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.5	1		02/02/12 13:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.5	1		02/02/12 13:56	79-34-5	
Tetrachloroethene	ND	ug/kg	5.5	1		02/02/12 13:56	127-18-4	
Toluene	**25.5**	ug/kg	5.5	1		02/02/12 13:56	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.5	1		02/02/12 13:56	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.5	1		02/02/12 13:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.5	1		02/02/12 13:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.5	1		02/02/12 13:56	79-00-5	
Trichloroethene	ND	ug/kg	5.5	1		02/02/12 13:56	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.5	1		02/02/12 13:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.5	1		02/02/12 13:56	96-18-4	
1,2,4-Trimethylbenzene	**1860**	ug/kg	111	20		02/02/12 16:16	95-63-6	
1,3,5-Trimethylbenzene	**120**	ug/kg	5.5	1		02/02/12 13:56	108-67-8	
Vinyl acetate	ND	ug/kg	55.3	1		02/02/12 13:56	108-05-4	
Vinyl chloride	ND	ug/kg	11.1	1		02/02/12 13:56	75-01-4	
Xylene (Total)	**89.9**	ug/kg	11.1	1		02/02/12 13:56	1330-20-7	
m&p-Xylene	**78.9**	ug/kg	11.1	1		02/02/12 13:56	179601-23-1	
o-Xylene	**11.1**	ug/kg	5.5	1		02/02/12 13:56	95-47-6	
Surrogates								
Dibromofluoromethane (S)	106	%	70-130	1		02/02/12 13:56	1868-53-7	
Toluene-d8 (S)	97	%	70-130	1		02/02/12 13:56	2037-26-5	
4-Bromofluorobenzene (S)	93	%	70-130	1		02/02/12 13:56	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-132	1		02/02/12 13:56	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**22.3**	%	0.10	1		02/02/12 08:40		

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ANALYTICAL RESULTS

Project: WILKES COUNTY WBS#35579.1.1
Pace Project No.: 92111243

Sample: P98-SW-1-1(9') **Lab ID: 92111243003** Collected: 01/31/12 14:45 Received: 02/01/12 12:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEP EPH NC Soil	Analytical Method: MADEP EPH Preparation Method: MADEP EPH							
Aliphatic (C09-C18)	ND	mg/kg	12.0	1	02/07/12 14:00	02/10/12 11:40		N2
Aliphatic (C19-C36)	ND	mg/kg	12.0	1	02/07/12 14:00	02/10/12 11:40		N2
Aromatic (C11-C22)	ND	mg/kg	12.0	1	02/07/12 14:00	02/10/12 11:40		N2
Surrogates								
Nonatriacontane (S)	55	%	40-140	1	02/07/12 14:00	02/10/12 11:40	7194-86-7	
o-Terphenyl (S)	52	%	40-140	1	02/07/12 14:00	02/10/12 11:40	84-15-1	
2-Fluorobiphenyl (S)	76	%	40-140	1	02/07/12 14:00	02/10/12 11:40	321-60-8	
2-Bromonaphthalene (S)	84	%	40-140	1	02/07/12 14:00	02/10/12 11:40	580-13-2	
VPH NC Soil	Analytical Method: MADEP VPH Preparation Method: MADEP VPH							
Aliphatic (C05-C08)	ND	mg/kg	3.4	1	02/01/12 16:38	02/02/12 21:28		N2
Aliphatic (C09-C12)	ND	mg/kg	3.4	1	02/01/12 16:38	02/02/12 21:28		N2
Aromatic (C09-C10)	ND	mg/kg	3.4	1	02/01/12 16:38	02/02/12 21:28		N2
Surrogates								
2,5-Dibromotoluene (PID)(S)	96	%	70-130	1	02/01/12 16:38	02/02/12 21:28		
2,5-Dibromotoluene (FID)(S)	126	%	70-130	1	02/01/12 16:38	02/02/12 21:28		
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	401	1	02/02/12 14:55	02/04/12 13:46	83-32-9	
Acenaphthylene	ND	ug/kg	401	1	02/02/12 14:55	02/04/12 13:46	208-96-8	
Aniline	ND	ug/kg	401	1	02/02/12 14:55	02/04/12 13:46	62-53-3	
Anthracene	ND	ug/kg	401	1	02/02/12 14:55	02/04/12 13:46	120-12-7	
Benzo(a)anthracene	ND	ug/kg	401	1	02/02/12 14:55	02/04/12 13:46	56-55-3	
Benzo(a)pyrene	ND	ug/kg	401	1	02/02/12 14:55	02/04/12 13:46	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	401	1	02/02/12 14:55	02/04/12 13:46	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	401	1	02/02/12 14:55	02/04/12 13:46	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	401	1	02/02/12 14:55	02/04/12 13:46	207-08-9	
Benzoic Acid	ND	ug/kg	2000	1	02/02/12 14:55	02/04/12 13:46	65-85-0	
Benzyl alcohol	ND	ug/kg	801	1	02/02/12 14:55	02/04/12 13:46	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	401	1	02/02/12 14:55	02/04/12 13:46	101-55-3	
Butylbenzylphthalate	ND	ug/kg	401	1	02/02/12 14:55	02/04/12 13:46	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	801	1	02/02/12 14:55	02/04/12 13:46	59-50-7	
4-Chloroaniline	ND	ug/kg	2000	1	02/02/12 14:55	02/04/12 13:46	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	401	1	02/02/12 14:55	02/04/12 13:46	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	401	1	02/02/12 14:55	02/04/12 13:46	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	401	1	02/02/12 14:55	02/04/12 13:46	108-60-1	
2-Chloronaphthalene	ND	ug/kg	401	1	02/02/12 14:55	02/04/12 13:46	91-58-7	
2-Chlorophenol	ND	ug/kg	401	1	02/02/12 14:55	02/04/12 13:46	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	401	1	02/02/12 14:55	02/04/12 13:46	7005-72-3	
Chrysene	ND	ug/kg	401	1	02/02/12 14:55	02/04/12 13:46	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	401	1	02/02/12 14:55	02/04/12 13:46	53-70-3	
Dibenzofuran	ND	ug/kg	401	1	02/02/12 14:55	02/04/12 13:46	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	401	1	02/02/12 14:55	02/04/12 13:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	401	1	02/02/12 14:55	02/04/12 13:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	401	1	02/02/12 14:55	02/04/12 13:46	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	2000	1	02/02/12 14:55	02/04/12 13:46	91-94-1	

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ANALYTICAL RESULTS

Project: WILKES COUNTY WBS#35579.1.1
Pace Project No.: 92111243

Sample: P98-SW-1-1(9') **Lab ID: 92111243003** Collected: 01/31/12 14:45 Received: 02/01/12 12:00 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							
2,4-Dichlorophenol	ND	ug/kg	401	1	02/02/12 14:55	02/04/12 13:46	120-83-2	
Diethylphthalate	ND	ug/kg	401	1	02/02/12 14:55	02/04/12 13:46	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	401	1	02/02/12 14:55	02/04/12 13:46	105-67-9	
Dimethylphthalate	ND	ug/kg	401	1	02/02/12 14:55	02/04/12 13:46	131-11-3	
Di-n-butylphthalate	ND	ug/kg	401	1	02/02/12 14:55	02/04/12 13:46	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	801	1	02/02/12 14:55	02/04/12 13:46	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	2000	1	02/02/12 14:55	02/04/12 13:46	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	401	1	02/02/12 14:55	02/04/12 13:46	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	401	1	02/02/12 14:55	02/04/12 13:46	606-20-2	
Di-n-octylphthalate	ND	ug/kg	401	1	02/02/12 14:55	02/04/12 13:46	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	401	1	02/02/12 14:55	02/04/12 13:46	117-81-7	
Fluoranthene	ND	ug/kg	401	1	02/02/12 14:55	02/04/12 13:46	206-44-0	
Fluorene	ND	ug/kg	401	1	02/02/12 14:55	02/04/12 13:46	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	401	1	02/02/12 14:55	02/04/12 13:46	87-68-3	
Hexachlorobenzene	ND	ug/kg	401	1	02/02/12 14:55	02/04/12 13:46	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	401	1	02/02/12 14:55	02/04/12 13:46	77-47-4	
Hexachloroethane	ND	ug/kg	401	1	02/02/12 14:55	02/04/12 13:46	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	401	1	02/02/12 14:55	02/04/12 13:46	193-39-5	
Isophorone	ND	ug/kg	401	1	02/02/12 14:55	02/04/12 13:46	78-59-1	
1-Methylnaphthalene	ND	ug/kg	401	1	02/02/12 14:55	02/04/12 13:46	90-12-0	
2-Methylnaphthalene	ND	ug/kg	401	1	02/02/12 14:55	02/04/12 13:46	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	401	1	02/02/12 14:55	02/04/12 13:46	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	401	1	02/02/12 14:55	02/04/12 13:46		
Naphthalene	ND	ug/kg	401	1	02/02/12 14:55	02/04/12 13:46	91-20-3	
2-Nitroaniline	ND	ug/kg	2000	1	02/02/12 14:55	02/04/12 13:46	88-74-4	
3-Nitroaniline	ND	ug/kg	2000	1	02/02/12 14:55	02/04/12 13:46	99-09-2	
4-Nitroaniline	ND	ug/kg	801	1	02/02/12 14:55	02/04/12 13:46	100-01-6	
Nitrobenzene	ND	ug/kg	401	1	02/02/12 14:55	02/04/12 13:46	98-95-3	
2-Nitrophenol	ND	ug/kg	401	1	02/02/12 14:55	02/04/12 13:46	88-75-5	
4-Nitrophenol	ND	ug/kg	2000	1	02/02/12 14:55	02/04/12 13:46	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	401	1	02/02/12 14:55	02/04/12 13:46	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	401	1	02/02/12 14:55	02/04/12 13:46	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	401	1	02/02/12 14:55	02/04/12 13:46	86-30-6	
Pentachlorophenol	ND	ug/kg	2000	1	02/02/12 14:55	02/04/12 13:46	87-86-5	
Phenanthrene	ND	ug/kg	401	1	02/02/12 14:55	02/04/12 13:46	85-01-8	
Phenol	ND	ug/kg	401	1	02/02/12 14:55	02/04/12 13:46	108-95-2	
Pyrene	ND	ug/kg	401	1	02/02/12 14:55	02/04/12 13:46	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	401	1	02/02/12 14:55	02/04/12 13:46	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	401	1	02/02/12 14:55	02/04/12 13:46	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	401	1	02/02/12 14:55	02/04/12 13:46	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	69	%	23-110	1	02/02/12 14:55	02/04/12 13:46	4165-60-0	
2-Fluorobiphenyl (S)	69	%	30-110	1	02/02/12 14:55	02/04/12 13:46	321-60-8	
Terphenyl-d14 (S)	80	%	28-110	1	02/02/12 14:55	02/04/12 13:46	1718-51-0	
Phenol-d6 (S)	67	%	22-110	1	02/02/12 14:55	02/04/12 13:46	13127-88-3	
2-Fluorophenol (S)	66	%	13-110	1	02/02/12 14:55	02/04/12 13:46	367-12-4	

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ANALYTICAL RESULTS

Project: WILKES COUNTY WBS#35579.1.1
Pace Project No.: 92111243

Sample: P98-SW-1-1(9') **Lab ID: 92111243003** Collected: 01/31/12 14:45 Received: 02/01/12 12:00 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							
Surrogates								
2,4,6-Tribromophenol (S)	87	%	27-110	1	02/02/12 14:55	02/04/12 13:46	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	109	1		02/02/12 14:16	67-64-1	
Benzene	ND	ug/kg	5.5	1		02/02/12 14:16	71-43-2	
Bromobenzene	ND	ug/kg	5.5	1		02/02/12 14:16	108-86-1	
Bromochloromethane	ND	ug/kg	5.5	1		02/02/12 14:16	74-97-5	
Bromodichloromethane	ND	ug/kg	5.5	1		02/02/12 14:16	75-27-4	
Bromoform	ND	ug/kg	5.5	1		02/02/12 14:16	75-25-2	
Bromomethane	ND	ug/kg	10.9	1		02/02/12 14:16	74-83-9	
2-Butanone (MEK)	ND	ug/kg	109	1		02/02/12 14:16	78-93-3	
n-Butylbenzene	ND	ug/kg	5.5	1		02/02/12 14:16	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.5	1		02/02/12 14:16	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.5	1		02/02/12 14:16	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.5	1		02/02/12 14:16	56-23-5	
Chlorobenzene	ND	ug/kg	5.5	1		02/02/12 14:16	108-90-7	
Chloroethane	ND	ug/kg	10.9	1		02/02/12 14:16	75-00-3	
Chloroform	ND	ug/kg	5.5	1		02/02/12 14:16	67-66-3	
Chloromethane	ND	ug/kg	10.9	1		02/02/12 14:16	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.5	1		02/02/12 14:16	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.5	1		02/02/12 14:16	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.5	1		02/02/12 14:16	96-12-8	
Dibromochloromethane	ND	ug/kg	5.5	1		02/02/12 14:16	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.5	1		02/02/12 14:16	106-93-4	
Dibromomethane	ND	ug/kg	5.5	1		02/02/12 14:16	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.5	1		02/02/12 14:16	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.5	1		02/02/12 14:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.5	1		02/02/12 14:16	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	10.9	1		02/02/12 14:16	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.5	1		02/02/12 14:16	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.5	1		02/02/12 14:16	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.5	1		02/02/12 14:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.5	1		02/02/12 14:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.5	1		02/02/12 14:16	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.5	1		02/02/12 14:16	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.5	1		02/02/12 14:16	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.5	1		02/02/12 14:16	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.5	1		02/02/12 14:16	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.5	1		02/02/12 14:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.5	1		02/02/12 14:16	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.5	1		02/02/12 14:16	108-20-3	
Ethylbenzene	ND	ug/kg	5.5	1		02/02/12 14:16	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.5	1		02/02/12 14:16	87-68-3	
2-Hexanone	ND	ug/kg	54.6	1		02/02/12 14:16	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.5	1		02/02/12 14:16	98-82-8	

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ANALYTICAL RESULTS

Project: WILKES COUNTY WBS#35579.1.1
Pace Project No.: 92111243

Sample: P98-SW-1-1(9') **Lab ID: 92111243003** Collected: 01/31/12 14:45 Received: 02/01/12 12:00 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							
p-Isopropyltoluene	ND	ug/kg	5.5	1		02/02/12 14:16	99-87-6	
Methylene Chloride	ND	ug/kg	21.8	1		02/02/12 14:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	54.6	1		02/02/12 14:16	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.5	1		02/02/12 14:16	1634-04-4	
Naphthalene	ND	ug/kg	5.5	1		02/02/12 14:16	91-20-3	
n-Propylbenzene	ND	ug/kg	5.5	1		02/02/12 14:16	103-65-1	
Styrene	ND	ug/kg	5.5	1		02/02/12 14:16	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.5	1		02/02/12 14:16	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.5	1		02/02/12 14:16	79-34-5	
Tetrachloroethene	ND	ug/kg	5.5	1		02/02/12 14:16	127-18-4	
Toluene	ND	ug/kg	5.5	1		02/02/12 14:16	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.5	1		02/02/12 14:16	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.5	1		02/02/12 14:16	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.5	1		02/02/12 14:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.5	1		02/02/12 14:16	79-00-5	
Trichloroethene	ND	ug/kg	5.5	1		02/02/12 14:16	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.5	1		02/02/12 14:16	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.5	1		02/02/12 14:16	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.5	1		02/02/12 14:16	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.5	1		02/02/12 14:16	108-67-8	
Vinyl acetate	ND	ug/kg	54.6	1		02/02/12 14:16	108-05-4	
Vinyl chloride	ND	ug/kg	10.9	1		02/02/12 14:16	75-01-4	
Xylene (Total)	ND	ug/kg	10.9	1		02/02/12 14:16	1330-20-7	
m&p-Xylene	ND	ug/kg	10.9	1		02/02/12 14:16	179601-23-1	
o-Xylene	ND	ug/kg	5.5	1		02/02/12 14:16	95-47-6	
Surrogates								
Dibromofluoromethane (S)	102	%	70-130	1		02/02/12 14:16	1868-53-7	
Toluene-d8 (S)	102	%	70-130	1		02/02/12 14:16	2037-26-5	
4-Bromofluorobenzene (S)	100	%	70-130	1		02/02/12 14:16	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-132	1		02/02/12 14:16	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**17.9**	%	0.10	1		02/02/12 08:40		

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ANALYTICAL RESULTS

Project: WILKES COUNTY WBS#35579.1.1
Pace Project No.: 92111243

Sample: P98-SW-2(9') **Lab ID: 92111243004** Collected: 01/31/12 14:50 Received: 02/01/12 12:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEP EPH NC Soil	Analytical Method: MADEP EPH Preparation Method: MADEP EPH							
Aliphatic (C09-C18)	**8350**	mg/kg	4930	400	02/07/12 14:00	02/10/12 15:29		N2
Aliphatic (C19-C36)	ND	mg/kg	4930	400	02/07/12 14:00	02/10/12 15:29		N2
Aromatic (C11-C22)	**7310**	mg/kg	1230	100	02/07/12 14:00	02/10/12 15:29		N2
Surrogates								
Nonatriacontane (S)	0	%	40-140	400	02/07/12 14:00	02/10/12 15:29	7194-86-7	S4
o-Terphenyl (S)	0	%	40-140	100	02/07/12 14:00	02/10/12 15:29	84-15-1	S4
2-Fluorobiphenyl (S)	0	%	40-140	100	02/07/12 14:00	02/10/12 15:29	321-60-8	S4
2-Bromonaphthalene (S)	0	%	40-140	100	02/07/12 14:00	02/10/12 15:29	580-13-2	S4
VPH NC Soil	Analytical Method: MADEP VPH Preparation Method: MADEP VPH							
Aliphatic (C05-C08)	**134**	mg/kg	32.6	10	02/01/12 16:38	02/02/12 01:58		N2,S4
Aliphatic (C09-C12)	**1900**	mg/kg	32.6	10	02/01/12 16:38	02/02/12 01:58		N2,NC
Aromatic (C09-C10)	**487**	mg/kg	32.6	10	02/01/12 16:38	02/02/12 01:58		N2,NC
Surrogates								
2,5-Dibromotoluene (PID)(S)	100	%	70-130	10	02/01/12 16:38	02/02/12 01:58		S4
2,5-Dibromotoluene (FID)(S)	151	%	70-130	10	02/01/12 16:38	02/02/12 01:58		S4
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	20000	10	02/02/12 14:55	02/04/12 19:48	83-32-9	
Acenaphthylene	ND	ug/kg	20000	10	02/02/12 14:55	02/04/12 19:48	208-96-8	
Aniline	ND	ug/kg	20000	10	02/02/12 14:55	02/04/12 19:48	62-53-3	
Anthracene	ND	ug/kg	20000	10	02/02/12 14:55	02/04/12 19:48	120-12-7	
Benzo(a)anthracene	ND	ug/kg	20000	10	02/02/12 14:55	02/04/12 19:48	56-55-3	
Benzo(a)pyrene	ND	ug/kg	20000	10	02/02/12 14:55	02/04/12 19:48	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	20000	10	02/02/12 14:55	02/04/12 19:48	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	20000	10	02/02/12 14:55	02/04/12 19:48	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	20000	10	02/02/12 14:55	02/04/12 19:48	207-08-9	
Benzoic Acid	ND	ug/kg	99900	10	02/02/12 14:55	02/04/12 19:48	65-85-0	
Benzyl alcohol	ND	ug/kg	40000	10	02/02/12 14:55	02/04/12 19:48	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	20000	10	02/02/12 14:55	02/04/12 19:48	101-55-3	
Butylbenzylphthalate	ND	ug/kg	20000	10	02/02/12 14:55	02/04/12 19:48	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	40000	10	02/02/12 14:55	02/04/12 19:48	59-50-7	
4-Chloroaniline	ND	ug/kg	99900	10	02/02/12 14:55	02/04/12 19:48	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	20000	10	02/02/12 14:55	02/04/12 19:48	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	20000	10	02/02/12 14:55	02/04/12 19:48	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	20000	10	02/02/12 14:55	02/04/12 19:48	108-60-1	
2-Chloronaphthalene	ND	ug/kg	20000	10	02/02/12 14:55	02/04/12 19:48	91-58-7	
2-Chlorophenol	ND	ug/kg	20000	10	02/02/12 14:55	02/04/12 19:48	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	20000	10	02/02/12 14:55	02/04/12 19:48	7005-72-3	
Chrysene	ND	ug/kg	20000	10	02/02/12 14:55	02/04/12 19:48	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	20000	10	02/02/12 14:55	02/04/12 19:48	53-70-3	
Dibenzofuran	ND	ug/kg	20000	10	02/02/12 14:55	02/04/12 19:48	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	20000	10	02/02/12 14:55	02/04/12 19:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	20000	10	02/02/12 14:55	02/04/12 19:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	20000	10	02/02/12 14:55	02/04/12 19:48	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	99900	10	02/02/12 14:55	02/04/12 19:48	91-94-1	

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ANALYTICAL RESULTS

Project: WILKES COUNTY WBS#35579.1.1
Pace Project No.: 92111243

Sample: P98-SW-2(9') **Lab ID: 92111243004** Collected: 01/31/12 14:50 Received: 02/01/12 12:00 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							
2,4-Dichlorophenol	ND	ug/kg	20000	10	02/02/12 14:55	02/04/12 19:48	120-83-2	
Diethylphthalate	ND	ug/kg	20000	10	02/02/12 14:55	02/04/12 19:48	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	20000	10	02/02/12 14:55	02/04/12 19:48	105-67-9	
Dimethylphthalate	ND	ug/kg	20000	10	02/02/12 14:55	02/04/12 19:48	131-11-3	
Di-n-butylphthalate	ND	ug/kg	20000	10	02/02/12 14:55	02/04/12 19:48	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	40000	10	02/02/12 14:55	02/04/12 19:48	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	99900	10	02/02/12 14:55	02/04/12 19:48	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	20000	10	02/02/12 14:55	02/04/12 19:48	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	20000	10	02/02/12 14:55	02/04/12 19:48	606-20-2	
Di-n-octylphthalate	ND	ug/kg	20000	10	02/02/12 14:55	02/04/12 19:48	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	20000	10	02/02/12 14:55	02/04/12 19:48	117-81-7	
Fluoranthene	ND	ug/kg	20000	10	02/02/12 14:55	02/04/12 19:48	206-44-0	
Fluorene	ND	ug/kg	20000	10	02/02/12 14:55	02/04/12 19:48	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	20000	10	02/02/12 14:55	02/04/12 19:48	87-68-3	
Hexachlorobenzene	ND	ug/kg	20000	10	02/02/12 14:55	02/04/12 19:48	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	20000	10	02/02/12 14:55	02/04/12 19:48	77-47-4	
Hexachloroethane	ND	ug/kg	20000	10	02/02/12 14:55	02/04/12 19:48	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	20000	10	02/02/12 14:55	02/04/12 19:48	193-39-5	
Isophorone	ND	ug/kg	20000	10	02/02/12 14:55	02/04/12 19:48	78-59-1	
1-Methylnaphthalene	**89700**	ug/kg	20000	10	02/02/12 14:55	02/04/12 19:48	90-12-0	
2-Methylnaphthalene	**141000**	ug/kg	20000	10	02/02/12 14:55	02/04/12 19:48	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	20000	10	02/02/12 14:55	02/04/12 19:48	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	20000	10	02/02/12 14:55	02/04/12 19:48		
Naphthalene	**34000**	ug/kg	20000	10	02/02/12 14:55	02/04/12 19:48	91-20-3	
2-Nitroaniline	ND	ug/kg	99900	10	02/02/12 14:55	02/04/12 19:48	88-74-4	
3-Nitroaniline	ND	ug/kg	99900	10	02/02/12 14:55	02/04/12 19:48	99-09-2	
4-Nitroaniline	ND	ug/kg	40000	10	02/02/12 14:55	02/04/12 19:48	100-01-6	
Nitrobenzene	ND	ug/kg	20000	10	02/02/12 14:55	02/04/12 19:48	98-95-3	
2-Nitrophenol	ND	ug/kg	20000	10	02/02/12 14:55	02/04/12 19:48	88-75-5	
4-Nitrophenol	ND	ug/kg	99900	10	02/02/12 14:55	02/04/12 19:48	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	20000	10	02/02/12 14:55	02/04/12 19:48	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	20000	10	02/02/12 14:55	02/04/12 19:48	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	20000	10	02/02/12 14:55	02/04/12 19:48	86-30-6	
Pentachlorophenol	ND	ug/kg	99900	10	02/02/12 14:55	02/04/12 19:48	87-86-5	
Phenanthrene	**22700**	ug/kg	20000	10	02/02/12 14:55	02/04/12 19:48	85-01-8	
Phenol	ND	ug/kg	20000	10	02/02/12 14:55	02/04/12 19:48	108-95-2	
Pyrene	ND	ug/kg	20000	10	02/02/12 14:55	02/04/12 19:48	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	20000	10	02/02/12 14:55	02/04/12 19:48	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	20000	10	02/02/12 14:55	02/04/12 19:48	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	20000	10	02/02/12 14:55	02/04/12 19:48	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	0	%	23-110	10	02/02/12 14:55	02/04/12 19:48	4165-60-0	D3,P3, S4
2-Fluorobiphenyl (S)	0	%	30-110	10	02/02/12 14:55	02/04/12 19:48	321-60-8	
Terphenyl-d14 (S)	0	%	28-110	10	02/02/12 14:55	02/04/12 19:48	1718-51-0	
Phenol-d6 (S)	0	%	22-110	10	02/02/12 14:55	02/04/12 19:48	13127-88-3	

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ANALYTICAL RESULTS

Project: WILKES COUNTY WBS#35579.1.1
Pace Project No.: 92111243

Sample: P98-SW-2(9') **Lab ID: 92111243004** Collected: 01/31/12 14:50 Received: 02/01/12 12:00 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							
Surrogates								
2-Fluorophenol (S)	0	%	13-110	10	02/02/12 14:55	02/04/12 19:48	367-12-4	
2,4,6-Tribromophenol (S)	0	%	27-110	10	02/02/12 14:55	02/04/12 19:48	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	2980	25		02/02/12 15:55	67-64-1	
Benzene	**306**	ug/kg	149	25		02/02/12 15:55	71-43-2	
Bromobenzene	ND	ug/kg	149	25		02/02/12 15:55	108-86-1	
Bromochloromethane	ND	ug/kg	149	25		02/02/12 15:55	74-97-5	
Bromodichloromethane	ND	ug/kg	149	25		02/02/12 15:55	75-27-4	
Bromoform	ND	ug/kg	149	25		02/02/12 15:55	75-25-2	
Bromomethane	ND	ug/kg	298	25		02/02/12 15:55	74-83-9	
2-Butanone (MEK)	ND	ug/kg	2980	25		02/02/12 15:55	78-93-3	
n-Butylbenzene	**11100**	ug/kg	2980	500		02/03/12 11:15	104-51-8	
sec-Butylbenzene	**4460**	ug/kg	149	25		02/02/12 15:55	135-98-8	
tert-Butylbenzene	**378**	ug/kg	149	25		02/02/12 15:55	98-06-6	
Carbon tetrachloride	ND	ug/kg	149	25		02/02/12 15:55	56-23-5	
Chlorobenzene	ND	ug/kg	149	25		02/02/12 15:55	108-90-7	
Chloroethane	ND	ug/kg	298	25		02/02/12 15:55	75-00-3	
Chloroform	ND	ug/kg	149	25		02/02/12 15:55	67-66-3	
Chloromethane	ND	ug/kg	298	25		02/02/12 15:55	74-87-3	
2-Chlorotoluene	ND	ug/kg	149	25		02/02/12 15:55	95-49-8	
4-Chlorotoluene	ND	ug/kg	149	25		02/02/12 15:55	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	149	25		02/02/12 15:55	96-12-8	
Dibromochloromethane	ND	ug/kg	149	25		02/02/12 15:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	149	25		02/02/12 15:55	106-93-4	
Dibromomethane	ND	ug/kg	149	25		02/02/12 15:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	149	25		02/02/12 15:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	149	25		02/02/12 15:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	149	25		02/02/12 15:55	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	298	25		02/02/12 15:55	75-71-8	
1,1-Dichloroethane	ND	ug/kg	149	25		02/02/12 15:55	75-34-3	
1,2-Dichloroethane	ND	ug/kg	149	25		02/02/12 15:55	107-06-2	
1,1-Dichloroethene	ND	ug/kg	149	25		02/02/12 15:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	149	25		02/02/12 15:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	149	25		02/02/12 15:55	156-60-5	
1,2-Dichloropropane	ND	ug/kg	149	25		02/02/12 15:55	78-87-5	
1,3-Dichloropropane	ND	ug/kg	149	25		02/02/12 15:55	142-28-9	
2,2-Dichloropropane	ND	ug/kg	149	25		02/02/12 15:55	594-20-7	
1,1-Dichloropropene	ND	ug/kg	149	25		02/02/12 15:55	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	149	25		02/02/12 15:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	149	25		02/02/12 15:55	10061-02-6	
Diisopropyl ether	ND	ug/kg	149	25		02/02/12 15:55	108-20-3	
Ethylbenzene	**8420**	ug/kg	2980	500		02/03/12 11:15	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	149	25		02/02/12 15:55	87-68-3	
2-Hexanone	ND	ug/kg	1490	25		02/02/12 15:55	591-78-6	

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ANALYTICAL RESULTS

Project: WILKES COUNTY WBS#35579.1.1
Pace Project No.: 92111243

Sample: P98-SW-2(9') **Lab ID: 92111243004** Collected: 01/31/12 14:50 Received: 02/01/12 12:00 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							
Isopropylbenzene (Cumene)	**3510**	ug/kg	149	25		02/02/12 15:55	98-82-8	
p-Isopropyltoluene	**16500**	ug/kg	2980	500		02/03/12 11:15	99-87-6	
Methylene Chloride	ND	ug/kg	597	25		02/02/12 15:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	1490	25		02/02/12 15:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	149	25		02/02/12 15:55	1634-04-4	
Naphthalene	**58300**	ug/kg	2980	500		02/03/12 11:15	91-20-3	
n-Propylbenzene	**8580**	ug/kg	2980	500		02/03/12 11:15	103-65-1	
Styrene	ND	ug/kg	149	25		02/02/12 15:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	149	25		02/02/12 15:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	149	25		02/02/12 15:55	79-34-5	
Tetrachloroethene	ND	ug/kg	149	25		02/02/12 15:55	127-18-4	
Toluene	**472**	ug/kg	149	25		02/02/12 15:55	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	149	25		02/02/12 15:55	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	149	25		02/02/12 15:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	149	25		02/02/12 15:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	149	25		02/02/12 15:55	79-00-5	
Trichloroethene	ND	ug/kg	149	25		02/02/12 15:55	79-01-6	
Trichlorofluoromethane	ND	ug/kg	149	25		02/02/12 15:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	149	25		02/02/12 15:55	96-18-4	
1,2,4-Trimethylbenzene	**69500**	ug/kg	2980	500		02/03/12 11:15	95-63-6	
1,3,5-Trimethylbenzene	**21400**	ug/kg	2980	500		02/03/12 11:15	108-67-8	
Vinyl acetate	ND	ug/kg	1490	25		02/02/12 15:55	108-05-4	
Vinyl chloride	ND	ug/kg	298	25		02/02/12 15:55	75-01-4	
Xylene (Total)	**37200**	ug/kg	5970	500		02/03/12 11:15	1330-20-7	
m&p-Xylene	**34000**	ug/kg	5970	500		02/03/12 11:15	179601-23-1	
o-Xylene	**3240**	ug/kg	149	25		02/02/12 15:55	95-47-6	
Surrogates								
Dibromofluoromethane (S)	100	%	70-130	25		02/02/12 15:55	1868-53-7	
Toluene-d8 (S)	112	%	70-130	25		02/02/12 15:55	2037-26-5	
4-Bromofluorobenzene (S)	88	%	70-130	25		02/02/12 15:55	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-132	25		02/02/12 15:55	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**18.8**	%	0.10	1		02/02/12 08:40		

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ANALYTICAL RESULTS

Project: WILKES COUNTY WBS#35579.1.1
Pace Project No.: 92111243

Sample: P98-SW-3(9') **Lab ID: 92111243005** Collected: 01/31/12 15:00 Received: 02/01/12 12:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEP EPH NC Soil	Analytical Method: MADEP EPH Preparation Method: MADEP EPH							
Aliphatic (C09-C18)	ND	mg/kg	13.8	1	02/07/12 14:00	02/10/12 12:52		N2
Aliphatic (C19-C36)	ND	mg/kg	13.8	1	02/07/12 14:00	02/10/12 12:52		N2
Aromatic (C11-C22)	ND	mg/kg	13.8	1	02/07/12 14:00	02/10/12 12:52		N2
Surrogates								
Nonatriacontane (S)	43	%	40-140	1	02/07/12 14:00	02/10/12 12:52	7194-86-7	
o-Terphenyl (S)	64	%	40-140	1	02/07/12 14:00	02/10/12 12:52	84-15-1	
2-Fluorobiphenyl (S)	92	%	40-140	1	02/07/12 14:00	02/10/12 12:52	321-60-8	
2-Bromonaphthalene (S)	104	%	40-140	1	02/07/12 14:00	02/10/12 12:52	580-13-2	
VPH NC Soil	Analytical Method: MADEP VPH Preparation Method: MADEP VPH							
Aliphatic (C05-C08)	ND	mg/kg	3.5	1	02/01/12 16:38	02/02/12 21:52		N2
Aliphatic (C09-C12)	ND	mg/kg	3.5	1	02/01/12 16:38	02/02/12 21:52		N2
Aromatic (C09-C10)	ND	mg/kg	3.5	1	02/01/12 16:38	02/02/12 21:52		N2
Surrogates								
2,5-Dibromotoluene (PID)(S)	112	%	70-130	1	02/01/12 16:38	02/02/12 21:52		
2,5-Dibromotoluene (FID)(S)	148	%	70-130	1	02/01/12 16:38	02/02/12 21:52		1g
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	458	1	02/02/12 14:55	02/04/12 14:14	83-32-9	
Acenaphthylene	ND	ug/kg	458	1	02/02/12 14:55	02/04/12 14:14	208-96-8	
Aniline	ND	ug/kg	458	1	02/02/12 14:55	02/04/12 14:14	62-53-3	
Anthracene	ND	ug/kg	458	1	02/02/12 14:55	02/04/12 14:14	120-12-7	
Benzo(a)anthracene	ND	ug/kg	458	1	02/02/12 14:55	02/04/12 14:14	56-55-3	
Benzo(a)pyrene	ND	ug/kg	458	1	02/02/12 14:55	02/04/12 14:14	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	458	1	02/02/12 14:55	02/04/12 14:14	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	458	1	02/02/12 14:55	02/04/12 14:14	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	458	1	02/02/12 14:55	02/04/12 14:14	207-08-9	
Benzoic Acid	ND	ug/kg	2290	1	02/02/12 14:55	02/04/12 14:14	65-85-0	
Benzyl alcohol	ND	ug/kg	916	1	02/02/12 14:55	02/04/12 14:14	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	458	1	02/02/12 14:55	02/04/12 14:14	101-55-3	
Butylbenzylphthalate	ND	ug/kg	458	1	02/02/12 14:55	02/04/12 14:14	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	916	1	02/02/12 14:55	02/04/12 14:14	59-50-7	
4-Chloroaniline	ND	ug/kg	2290	1	02/02/12 14:55	02/04/12 14:14	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	458	1	02/02/12 14:55	02/04/12 14:14	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	458	1	02/02/12 14:55	02/04/12 14:14	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	458	1	02/02/12 14:55	02/04/12 14:14	108-60-1	
2-Chloronaphthalene	ND	ug/kg	458	1	02/02/12 14:55	02/04/12 14:14	91-58-7	
2-Chlorophenol	ND	ug/kg	458	1	02/02/12 14:55	02/04/12 14:14	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	458	1	02/02/12 14:55	02/04/12 14:14	7005-72-3	
Chrysene	ND	ug/kg	458	1	02/02/12 14:55	02/04/12 14:14	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	458	1	02/02/12 14:55	02/04/12 14:14	53-70-3	
Dibenzofuran	ND	ug/kg	458	1	02/02/12 14:55	02/04/12 14:14	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	458	1	02/02/12 14:55	02/04/12 14:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	458	1	02/02/12 14:55	02/04/12 14:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	458	1	02/02/12 14:55	02/04/12 14:14	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	2290	1	02/02/12 14:55	02/04/12 14:14	91-94-1	

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ANALYTICAL RESULTS

Project: WILKES COUNTY WBS#35579.1.1
Pace Project No.: 92111243

Sample: P98-SW-3(9') **Lab ID: 92111243005** Collected: 01/31/12 15:00 Received: 02/01/12 12:00 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							
2,4-Dichlorophenol	ND	ug/kg	458	1	02/02/12 14:55	02/04/12 14:14	120-83-2	
Diethylphthalate	ND	ug/kg	458	1	02/02/12 14:55	02/04/12 14:14	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	458	1	02/02/12 14:55	02/04/12 14:14	105-67-9	
Dimethylphthalate	ND	ug/kg	458	1	02/02/12 14:55	02/04/12 14:14	131-11-3	
Di-n-butylphthalate	ND	ug/kg	458	1	02/02/12 14:55	02/04/12 14:14	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	916	1	02/02/12 14:55	02/04/12 14:14	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	2290	1	02/02/12 14:55	02/04/12 14:14	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	458	1	02/02/12 14:55	02/04/12 14:14	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	458	1	02/02/12 14:55	02/04/12 14:14	606-20-2	
Di-n-octylphthalate	ND	ug/kg	458	1	02/02/12 14:55	02/04/12 14:14	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	458	1	02/02/12 14:55	02/04/12 14:14	117-81-7	
Fluoranthene	ND	ug/kg	458	1	02/02/12 14:55	02/04/12 14:14	206-44-0	
Fluorene	ND	ug/kg	458	1	02/02/12 14:55	02/04/12 14:14	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	458	1	02/02/12 14:55	02/04/12 14:14	87-68-3	
Hexachlorobenzene	ND	ug/kg	458	1	02/02/12 14:55	02/04/12 14:14	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	458	1	02/02/12 14:55	02/04/12 14:14	77-47-4	
Hexachloroethane	ND	ug/kg	458	1	02/02/12 14:55	02/04/12 14:14	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	458	1	02/02/12 14:55	02/04/12 14:14	193-39-5	
Isophorone	ND	ug/kg	458	1	02/02/12 14:55	02/04/12 14:14	78-59-1	
1-Methylnaphthalene	ND	ug/kg	458	1	02/02/12 14:55	02/04/12 14:14	90-12-0	
2-Methylnaphthalene	ND	ug/kg	458	1	02/02/12 14:55	02/04/12 14:14	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	458	1	02/02/12 14:55	02/04/12 14:14	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	458	1	02/02/12 14:55	02/04/12 14:14		
Naphthalene	ND	ug/kg	458	1	02/02/12 14:55	02/04/12 14:14	91-20-3	
2-Nitroaniline	ND	ug/kg	2290	1	02/02/12 14:55	02/04/12 14:14	88-74-4	
3-Nitroaniline	ND	ug/kg	2290	1	02/02/12 14:55	02/04/12 14:14	99-09-2	
4-Nitroaniline	ND	ug/kg	916	1	02/02/12 14:55	02/04/12 14:14	100-01-6	
Nitrobenzene	ND	ug/kg	458	1	02/02/12 14:55	02/04/12 14:14	98-95-3	
2-Nitrophenol	ND	ug/kg	458	1	02/02/12 14:55	02/04/12 14:14	88-75-5	
4-Nitrophenol	ND	ug/kg	2290	1	02/02/12 14:55	02/04/12 14:14	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	458	1	02/02/12 14:55	02/04/12 14:14	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	458	1	02/02/12 14:55	02/04/12 14:14	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	458	1	02/02/12 14:55	02/04/12 14:14	86-30-6	
Pentachlorophenol	ND	ug/kg	2290	1	02/02/12 14:55	02/04/12 14:14	87-86-5	
Phenanthrene	ND	ug/kg	458	1	02/02/12 14:55	02/04/12 14:14	85-01-8	
Phenol	ND	ug/kg	458	1	02/02/12 14:55	02/04/12 14:14	108-95-2	
Pyrene	ND	ug/kg	458	1	02/02/12 14:55	02/04/12 14:14	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	458	1	02/02/12 14:55	02/04/12 14:14	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	458	1	02/02/12 14:55	02/04/12 14:14	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	458	1	02/02/12 14:55	02/04/12 14:14	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	44	%	23-110	1	02/02/12 14:55	02/04/12 14:14	4165-60-0	
2-Fluorobiphenyl (S)	39	%	30-110	1	02/02/12 14:55	02/04/12 14:14	321-60-8	
Terphenyl-d14 (S)	63	%	28-110	1	02/02/12 14:55	02/04/12 14:14	1718-51-0	
Phenol-d6 (S)	42	%	22-110	1	02/02/12 14:55	02/04/12 14:14	13127-88-3	
2-Fluorophenol (S)	42	%	13-110	1	02/02/12 14:55	02/04/12 14:14	367-12-4	

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ANALYTICAL RESULTS

Project: WILKES COUNTY WBS#35579.1.1
Pace Project No.: 92111243

Sample: P98-SW-3(9') **Lab ID: 92111243005** Collected: 01/31/12 15:00 Received: 02/01/12 12:00 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							
Surrogates								
2,4,6-Tribromophenol (S)	66	%	27-110	1	02/02/12 14:55	02/04/12 14:14	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	116	1		02/02/12 14:36	67-64-1	
Benzene	ND	ug/kg	5.8	1		02/02/12 14:36	71-43-2	
Bromobenzene	ND	ug/kg	5.8	1		02/02/12 14:36	108-86-1	
Bromochloromethane	ND	ug/kg	5.8	1		02/02/12 14:36	74-97-5	
Bromodichloromethane	ND	ug/kg	5.8	1		02/02/12 14:36	75-27-4	
Bromoform	ND	ug/kg	5.8	1		02/02/12 14:36	75-25-2	
Bromomethane	ND	ug/kg	11.6	1		02/02/12 14:36	74-83-9	
2-Butanone (MEK)	ND	ug/kg	116	1		02/02/12 14:36	78-93-3	
n-Butylbenzene	ND	ug/kg	5.8	1		02/02/12 14:36	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.8	1		02/02/12 14:36	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.8	1		02/02/12 14:36	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.8	1		02/02/12 14:36	56-23-5	
Chlorobenzene	ND	ug/kg	5.8	1		02/02/12 14:36	108-90-7	
Chloroethane	ND	ug/kg	11.6	1		02/02/12 14:36	75-00-3	
Chloroform	ND	ug/kg	5.8	1		02/02/12 14:36	67-66-3	
Chloromethane	ND	ug/kg	11.6	1		02/02/12 14:36	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.8	1		02/02/12 14:36	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.8	1		02/02/12 14:36	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.8	1		02/02/12 14:36	96-12-8	
Dibromochloromethane	ND	ug/kg	5.8	1		02/02/12 14:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.8	1		02/02/12 14:36	106-93-4	
Dibromomethane	ND	ug/kg	5.8	1		02/02/12 14:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.8	1		02/02/12 14:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.8	1		02/02/12 14:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.8	1		02/02/12 14:36	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	11.6	1		02/02/12 14:36	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.8	1		02/02/12 14:36	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.8	1		02/02/12 14:36	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.8	1		02/02/12 14:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.8	1		02/02/12 14:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.8	1		02/02/12 14:36	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.8	1		02/02/12 14:36	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.8	1		02/02/12 14:36	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.8	1		02/02/12 14:36	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.8	1		02/02/12 14:36	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.8	1		02/02/12 14:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.8	1		02/02/12 14:36	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.8	1		02/02/12 14:36	108-20-3	
Ethylbenzene	ND	ug/kg	5.8	1		02/02/12 14:36	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.8	1		02/02/12 14:36	87-68-3	
2-Hexanone	ND	ug/kg	58.1	1		02/02/12 14:36	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.8	1		02/02/12 14:36	98-82-8	

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ANALYTICAL RESULTS

Project: WILKES COUNTY WBS#35579.1.1
Pace Project No.: 92111243

Sample: P98-SW-3(9') **Lab ID: 92111243005** Collected: 01/31/12 15:00 Received: 02/01/12 12:00 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							
p-Isopropyltoluene	ND	ug/kg	5.8	1		02/02/12 14:36	99-87-6	
Methylene Chloride	ND	ug/kg	23.3	1		02/02/12 14:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	58.1	1		02/02/12 14:36	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.8	1		02/02/12 14:36	1634-04-4	
Naphthalene	ND	ug/kg	5.8	1		02/02/12 14:36	91-20-3	
n-Propylbenzene	ND	ug/kg	5.8	1		02/02/12 14:36	103-65-1	
Styrene	ND	ug/kg	5.8	1		02/02/12 14:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.8	1		02/02/12 14:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.8	1		02/02/12 14:36	79-34-5	
Tetrachloroethene	ND	ug/kg	5.8	1		02/02/12 14:36	127-18-4	
Toluene	ND	ug/kg	5.8	1		02/02/12 14:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.8	1		02/02/12 14:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.8	1		02/02/12 14:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.8	1		02/02/12 14:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.8	1		02/02/12 14:36	79-00-5	
Trichloroethene	ND	ug/kg	5.8	1		02/02/12 14:36	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.8	1		02/02/12 14:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.8	1		02/02/12 14:36	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.8	1		02/02/12 14:36	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.8	1		02/02/12 14:36	108-67-8	
Vinyl acetate	ND	ug/kg	58.1	1		02/02/12 14:36	108-05-4	
Vinyl chloride	ND	ug/kg	11.6	1		02/02/12 14:36	75-01-4	
Xylene (Total)	ND	ug/kg	11.6	1		02/02/12 14:36	1330-20-7	
m&p-Xylene	ND	ug/kg	11.6	1		02/02/12 14:36	179601-23-1	
o-Xylene	ND	ug/kg	5.8	1		02/02/12 14:36	95-47-6	
Surrogates								
Dibromofluoromethane (S)	93	%	70-130	1		02/02/12 14:36	1868-53-7	
Toluene-d8 (S)	101	%	70-130	1		02/02/12 14:36	2037-26-5	
4-Bromofluorobenzene (S)	93	%	70-130	1		02/02/12 14:36	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-132	1		02/02/12 14:36	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**27.3**	%	0.10	1		02/02/12 08:40		

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ANALYTICAL RESULTS

Project: WILKES COUNTY WBS#35579.1.1
Pace Project No.: 92111243

Sample: P98-SW-4(9') **Lab ID: 92111243006** Collected: 01/31/12 15:05 Received: 02/01/12 12:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEP EPH NC Soil	Analytical Method: MADEP EPH Preparation Method: MADEP EPH							
Aliphatic (C09-C18)	ND	mg/kg	12.6	1	02/07/12 14:00	02/10/12 13:28		N2
Aliphatic (C19-C36)	ND	mg/kg	12.6	1	02/07/12 14:00	02/10/12 13:28		N2
Aromatic (C11-C22)	ND	mg/kg	12.6	1	02/07/12 14:00	02/10/12 13:28		N2
Surrogates								
Nonatriacontane (S)	65	%	40-140	1	02/07/12 14:00	02/10/12 13:28	7194-86-7	
o-Terphenyl (S)	56	%	40-140	1	02/07/12 14:00	02/10/12 13:28	84-15-1	
2-Fluorobiphenyl (S)	85	%	40-140	1	02/07/12 14:00	02/10/12 13:28	321-60-8	
2-Bromonaphthalene (S)	90	%	40-140	1	02/07/12 14:00	02/10/12 13:28	580-13-2	
VPH NC Soil	Analytical Method: MADEP VPH Preparation Method: MADEP VPH							
Aliphatic (C05-C08)	ND	mg/kg	3.5	1	02/01/12 16:38	02/02/12 22:17		N2
Aliphatic (C09-C12)	ND	mg/kg	3.5	1	02/01/12 16:38	02/02/12 22:17		N2
Aromatic (C09-C10)	ND	mg/kg	3.5	1	02/01/12 16:38	02/02/12 22:17		N2
Surrogates								
2,5-Dibromotoluene (PID)(S)	106	%	70-130	1	02/01/12 16:38	02/02/12 22:17		
2,5-Dibromotoluene (FID)(S)	140	%	70-130	1	02/01/12 16:38	02/02/12 22:17		1g
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	419	1	02/02/12 14:55	02/04/12 14:41	83-32-9	
Acenaphthylene	ND	ug/kg	419	1	02/02/12 14:55	02/04/12 14:41	208-96-8	
Aniline	ND	ug/kg	419	1	02/02/12 14:55	02/04/12 14:41	62-53-3	
Anthracene	ND	ug/kg	419	1	02/02/12 14:55	02/04/12 14:41	120-12-7	
Benzo(a)anthracene	ND	ug/kg	419	1	02/02/12 14:55	02/04/12 14:41	56-55-3	
Benzo(a)pyrene	ND	ug/kg	419	1	02/02/12 14:55	02/04/12 14:41	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	419	1	02/02/12 14:55	02/04/12 14:41	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	419	1	02/02/12 14:55	02/04/12 14:41	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	419	1	02/02/12 14:55	02/04/12 14:41	207-08-9	
Benzoic Acid	ND	ug/kg	2090	1	02/02/12 14:55	02/04/12 14:41	65-85-0	
Benzyl alcohol	ND	ug/kg	838	1	02/02/12 14:55	02/04/12 14:41	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	419	1	02/02/12 14:55	02/04/12 14:41	101-55-3	
Butylbenzylphthalate	ND	ug/kg	419	1	02/02/12 14:55	02/04/12 14:41	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	838	1	02/02/12 14:55	02/04/12 14:41	59-50-7	
4-Chloroaniline	ND	ug/kg	2090	1	02/02/12 14:55	02/04/12 14:41	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	419	1	02/02/12 14:55	02/04/12 14:41	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	419	1	02/02/12 14:55	02/04/12 14:41	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	419	1	02/02/12 14:55	02/04/12 14:41	108-60-1	
2-Chloronaphthalene	ND	ug/kg	419	1	02/02/12 14:55	02/04/12 14:41	91-58-7	
2-Chlorophenol	ND	ug/kg	419	1	02/02/12 14:55	02/04/12 14:41	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	419	1	02/02/12 14:55	02/04/12 14:41	7005-72-3	
Chrysene	ND	ug/kg	419	1	02/02/12 14:55	02/04/12 14:41	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	419	1	02/02/12 14:55	02/04/12 14:41	53-70-3	
Dibenzofuran	ND	ug/kg	419	1	02/02/12 14:55	02/04/12 14:41	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	419	1	02/02/12 14:55	02/04/12 14:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	419	1	02/02/12 14:55	02/04/12 14:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	419	1	02/02/12 14:55	02/04/12 14:41	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	2090	1	02/02/12 14:55	02/04/12 14:41	91-94-1	

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ANALYTICAL RESULTS

Project: WILKES COUNTY WBS#35579.1.1
Pace Project No.: 92111243

Sample: P98-SW-4(9') **Lab ID: 92111243006** Collected: 01/31/12 15:05 Received: 02/01/12 12:00 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							
2,4-Dichlorophenol	ND	ug/kg	419	1	02/02/12 14:55	02/04/12 14:41	120-83-2	
Diethylphthalate	ND	ug/kg	419	1	02/02/12 14:55	02/04/12 14:41	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	419	1	02/02/12 14:55	02/04/12 14:41	105-67-9	
Dimethylphthalate	ND	ug/kg	419	1	02/02/12 14:55	02/04/12 14:41	131-11-3	
Di-n-butylphthalate	ND	ug/kg	419	1	02/02/12 14:55	02/04/12 14:41	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	838	1	02/02/12 14:55	02/04/12 14:41	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	2090	1	02/02/12 14:55	02/04/12 14:41	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	419	1	02/02/12 14:55	02/04/12 14:41	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	419	1	02/02/12 14:55	02/04/12 14:41	606-20-2	
Di-n-octylphthalate	ND	ug/kg	419	1	02/02/12 14:55	02/04/12 14:41	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	419	1	02/02/12 14:55	02/04/12 14:41	117-81-7	
Fluoranthene	ND	ug/kg	419	1	02/02/12 14:55	02/04/12 14:41	206-44-0	
Fluorene	ND	ug/kg	419	1	02/02/12 14:55	02/04/12 14:41	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	419	1	02/02/12 14:55	02/04/12 14:41	87-68-3	
Hexachlorobenzene	ND	ug/kg	419	1	02/02/12 14:55	02/04/12 14:41	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	419	1	02/02/12 14:55	02/04/12 14:41	77-47-4	
Hexachloroethane	ND	ug/kg	419	1	02/02/12 14:55	02/04/12 14:41	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	419	1	02/02/12 14:55	02/04/12 14:41	193-39-5	
Isophorone	ND	ug/kg	419	1	02/02/12 14:55	02/04/12 14:41	78-59-1	
1-Methylnaphthalene	ND	ug/kg	419	1	02/02/12 14:55	02/04/12 14:41	90-12-0	
2-Methylnaphthalene	ND	ug/kg	419	1	02/02/12 14:55	02/04/12 14:41	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	419	1	02/02/12 14:55	02/04/12 14:41	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	419	1	02/02/12 14:55	02/04/12 14:41		
Naphthalene	ND	ug/kg	419	1	02/02/12 14:55	02/04/12 14:41	91-20-3	
2-Nitroaniline	ND	ug/kg	2090	1	02/02/12 14:55	02/04/12 14:41	88-74-4	
3-Nitroaniline	ND	ug/kg	2090	1	02/02/12 14:55	02/04/12 14:41	99-09-2	
4-Nitroaniline	ND	ug/kg	838	1	02/02/12 14:55	02/04/12 14:41	100-01-6	
Nitrobenzene	ND	ug/kg	419	1	02/02/12 14:55	02/04/12 14:41	98-95-3	
2-Nitrophenol	ND	ug/kg	419	1	02/02/12 14:55	02/04/12 14:41	88-75-5	
4-Nitrophenol	ND	ug/kg	2090	1	02/02/12 14:55	02/04/12 14:41	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	419	1	02/02/12 14:55	02/04/12 14:41	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	419	1	02/02/12 14:55	02/04/12 14:41	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	419	1	02/02/12 14:55	02/04/12 14:41	86-30-6	
Pentachlorophenol	ND	ug/kg	2090	1	02/02/12 14:55	02/04/12 14:41	87-86-5	
Phenanthrene	ND	ug/kg	419	1	02/02/12 14:55	02/04/12 14:41	85-01-8	
Phenol	ND	ug/kg	419	1	02/02/12 14:55	02/04/12 14:41	108-95-2	
Pyrene	ND	ug/kg	419	1	02/02/12 14:55	02/04/12 14:41	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	419	1	02/02/12 14:55	02/04/12 14:41	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	419	1	02/02/12 14:55	02/04/12 14:41	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	419	1	02/02/12 14:55	02/04/12 14:41	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	73	%	23-110	1	02/02/12 14:55	02/04/12 14:41	4165-60-0	
2-Fluorobiphenyl (S)	70	%	30-110	1	02/02/12 14:55	02/04/12 14:41	321-60-8	
Terphenyl-d14 (S)	79	%	28-110	1	02/02/12 14:55	02/04/12 14:41	1718-51-0	
Phenol-d6 (S)	66	%	22-110	1	02/02/12 14:55	02/04/12 14:41	13127-88-3	
2-Fluorophenol (S)	69	%	13-110	1	02/02/12 14:55	02/04/12 14:41	367-12-4	

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ANALYTICAL RESULTS

Project: WILKES COUNTY WBS#35579.1.1
Pace Project No.: 92111243

Sample: P98-SW-4(9') **Lab ID: 92111243006** Collected: 01/31/12 15:05 Received: 02/01/12 12:00 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							
Surrogates								
2,4,6-Tribromophenol (S)	90	%	27-110	1	02/02/12 14:55	02/04/12 14:41	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	104	1		02/02/12 14:56	67-64-1	
Benzene	ND	ug/kg	5.2	1		02/02/12 14:56	71-43-2	
Bromobenzene	ND	ug/kg	5.2	1		02/02/12 14:56	108-86-1	
Bromochloromethane	ND	ug/kg	5.2	1		02/02/12 14:56	74-97-5	
Bromodichloromethane	ND	ug/kg	5.2	1		02/02/12 14:56	75-27-4	
Bromoform	ND	ug/kg	5.2	1		02/02/12 14:56	75-25-2	
Bromomethane	ND	ug/kg	10.4	1		02/02/12 14:56	74-83-9	
2-Butanone (MEK)	ND	ug/kg	104	1		02/02/12 14:56	78-93-3	
n-Butylbenzene	ND	ug/kg	5.2	1		02/02/12 14:56	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.2	1		02/02/12 14:56	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.2	1		02/02/12 14:56	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.2	1		02/02/12 14:56	56-23-5	
Chlorobenzene	ND	ug/kg	5.2	1		02/02/12 14:56	108-90-7	
Chloroethane	ND	ug/kg	10.4	1		02/02/12 14:56	75-00-3	
Chloroform	ND	ug/kg	5.2	1		02/02/12 14:56	67-66-3	
Chloromethane	ND	ug/kg	10.4	1		02/02/12 14:56	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.2	1		02/02/12 14:56	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.2	1		02/02/12 14:56	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.2	1		02/02/12 14:56	96-12-8	
Dibromochloromethane	ND	ug/kg	5.2	1		02/02/12 14:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.2	1		02/02/12 14:56	106-93-4	
Dibromomethane	ND	ug/kg	5.2	1		02/02/12 14:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.2	1		02/02/12 14:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.2	1		02/02/12 14:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.2	1		02/02/12 14:56	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	10.4	1		02/02/12 14:56	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.2	1		02/02/12 14:56	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.2	1		02/02/12 14:56	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.2	1		02/02/12 14:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.2	1		02/02/12 14:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.2	1		02/02/12 14:56	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.2	1		02/02/12 14:56	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.2	1		02/02/12 14:56	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.2	1		02/02/12 14:56	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.2	1		02/02/12 14:56	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.2	1		02/02/12 14:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.2	1		02/02/12 14:56	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.2	1		02/02/12 14:56	108-20-3	
Ethylbenzene	ND	ug/kg	5.2	1		02/02/12 14:56	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.2	1		02/02/12 14:56	87-68-3	
2-Hexanone	ND	ug/kg	51.8	1		02/02/12 14:56	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.2	1		02/02/12 14:56	98-82-8	

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ANALYTICAL RESULTS

Project: WILKES COUNTY WBS#35579.1.1
Pace Project No.: 92111243

Sample: P98-SW-4(9') **Lab ID: 92111243006** Collected: 01/31/12 15:05 Received: 02/01/12 12:00 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							
p-Isopropyltoluene	ND	ug/kg	5.2	1		02/02/12 14:56	99-87-6	
Methylene Chloride	ND	ug/kg	20.7	1		02/02/12 14:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	51.8	1		02/02/12 14:56	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.2	1		02/02/12 14:56	1634-04-4	
Naphthalene	ND	ug/kg	5.2	1		02/02/12 14:56	91-20-3	
n-Propylbenzene	ND	ug/kg	5.2	1		02/02/12 14:56	103-65-1	
Styrene	ND	ug/kg	5.2	1		02/02/12 14:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.2	1		02/02/12 14:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.2	1		02/02/12 14:56	79-34-5	
Tetrachloroethene	ND	ug/kg	5.2	1		02/02/12 14:56	127-18-4	
Toluene	**5.4**	ug/kg	5.2	1		02/02/12 14:56	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.2	1		02/02/12 14:56	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.2	1		02/02/12 14:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.2	1		02/02/12 14:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.2	1		02/02/12 14:56	79-00-5	
Trichloroethene	ND	ug/kg	5.2	1		02/02/12 14:56	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.2	1		02/02/12 14:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.2	1		02/02/12 14:56	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.2	1		02/02/12 14:56	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.2	1		02/02/12 14:56	108-67-8	
Vinyl acetate	ND	ug/kg	51.8	1		02/02/12 14:56	108-05-4	
Vinyl chloride	ND	ug/kg	10.4	1		02/02/12 14:56	75-01-4	
Xylene (Total)	ND	ug/kg	10.4	1		02/02/12 14:56	1330-20-7	
m&p-Xylene	ND	ug/kg	10.4	1		02/02/12 14:56	179601-23-1	
o-Xylene	ND	ug/kg	5.2	1		02/02/12 14:56	95-47-6	
Surrogates								
Dibromofluoromethane (S)	101	%	70-130	1		02/02/12 14:56	1868-53-7	
Toluene-d8 (S)	101	%	70-130	1		02/02/12 14:56	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130	1		02/02/12 14:56	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-132	1		02/02/12 14:56	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**20.7**	%	0.10	1		02/02/12 08:41		

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QUALITY CONTROL DATA

Project: WILKES COUNTY WBS#35579.1.1
Pace Project No.: 92111243

QC Batch: GCV/5721 Analysis Method: MADEP VPH
QC Batch Method: MADEP VPH Analysis Description: VPH NC Soil
Associated Lab Samples: 92111243001, 92111243002, 92111243003, 92111243004, 92111243005, 92111243006

METHOD BLANK: 716906 Matrix: Solid
Associated Lab Samples: 92111243001, 92111243002, 92111243003, 92111243004, 92111243005, 92111243006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	mg/kg	ND	2.5	02/01/12 20:44	N2
Aliphatic (C09-C12)	mg/kg	ND	2.5	02/01/12 20:44	N2
Aromatic (C09-C10)	mg/kg	ND	2.5	02/01/12 20:44	N2
2,5-Dibromotoluene (FID)(S)	%	107	70-130	02/01/12 20:44	
2,5-Dibromotoluene (PID)(S)	%	82	70-130	02/01/12 20:44	

METHOD BLANK: 717379 Matrix: Solid
Associated Lab Samples: 92111243001, 92111243002, 92111243003, 92111243004, 92111243005, 92111243006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	mg/kg	ND	2.4	02/02/12 20:16	N2
Aliphatic (C09-C12)	mg/kg	ND	2.4	02/02/12 20:16	N2
Aromatic (C09-C10)	mg/kg	ND	2.4	02/02/12 20:16	N2
2,5-Dibromotoluene (FID)(S)	%	107	70-130	02/02/12 20:16	
2,5-Dibromotoluene (PID)(S)	%	81	70-130	02/02/12 20:16	

LABORATORY CONTROL SAMPLE & LCSD: 716907 716908

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	mg/kg	14.9	18.0	17.6	120	118	70-130	2	25	N2
Aliphatic (C09-C12)	mg/kg	14.9	16.7	16.9	112	113	30-130	1	25	N2
Aromatic (C09-C10)	mg/kg	5	4.1	4.0	82	80	70-130	2	25	N2
2,5-Dibromotoluene (FID)(S)	%				101	102	70-130			
2,5-Dibromotoluene (PID)(S)	%				97	96	70-130			

LABORATORY CONTROL SAMPLE & LCSD: 717380 717381

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	mg/kg	14.6	14.6	16.9	100	115	70-130	15	25	N2
Aliphatic (C09-C12)	mg/kg	14.6	16.8	16.7	115	114	30-130	0	25	N2
Aromatic (C09-C10)	mg/kg	4.9	4.0	4.0	82	81	70-130	0	25	N2
2,5-Dibromotoluene (FID)(S)	%				103	111	70-130			
2,5-Dibromotoluene (PID)(S)	%				99	98	70-130			

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QUALITY CONTROL DATA

Project: WILKES COUNTY WBS#35579.1.1
Pace Project No.: 92111243

QC Batch: MSV/18071 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 92111243001, 92111243002, 92111243003, 92111243004, 92111243005, 92111243006

METHOD BLANK: 717103 Matrix: Solid
Associated Lab Samples: 92111243001, 92111243002, 92111243003, 92111243004, 92111243005, 92111243006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	7.4	02/02/12 13:15	
1,1,1-Trichloroethane	ug/kg	ND	7.4	02/02/12 13:15	
1,1,2,2-Tetrachloroethane	ug/kg	ND	7.4	02/02/12 13:15	
1,1,2-Trichloroethane	ug/kg	ND	7.4	02/02/12 13:15	
1,1-Dichloroethane	ug/kg	ND	7.4	02/02/12 13:15	
1,1-Dichloroethene	ug/kg	ND	7.4	02/02/12 13:15	
1,1-Dichloropropene	ug/kg	ND	7.4	02/02/12 13:15	
1,2,3-Trichlorobenzene	ug/kg	ND	7.4	02/02/12 13:15	
1,2,3-Trichloropropane	ug/kg	ND	7.4	02/02/12 13:15	
1,2,4-Trichlorobenzene	ug/kg	ND	7.4	02/02/12 13:15	
1,2,4-Trimethylbenzene	ug/kg	ND	7.4	02/02/12 13:15	
1,2-Dibromo-3-chloropropane	ug/kg	ND	7.4	02/02/12 13:15	
1,2-Dibromoethane (EDB)	ug/kg	ND	7.4	02/02/12 13:15	
1,2-Dichlorobenzene	ug/kg	ND	7.4	02/02/12 13:15	
1,2-Dichloroethane	ug/kg	ND	7.4	02/02/12 13:15	
1,2-Dichloropropane	ug/kg	ND	7.4	02/02/12 13:15	
1,3,5-Trimethylbenzene	ug/kg	ND	7.4	02/02/12 13:15	
1,3-Dichlorobenzene	ug/kg	ND	7.4	02/02/12 13:15	
1,3-Dichloropropane	ug/kg	ND	7.4	02/02/12 13:15	
1,4-Dichlorobenzene	ug/kg	ND	7.4	02/02/12 13:15	
2,2-Dichloropropane	ug/kg	ND	7.4	02/02/12 13:15	
2-Butanone (MEK)	ug/kg	ND	148	02/02/12 13:15	
2-Chlorotoluene	ug/kg	ND	7.4	02/02/12 13:15	
2-Hexanone	ug/kg	ND	74.0	02/02/12 13:15	
4-Chlorotoluene	ug/kg	ND	7.4	02/02/12 13:15	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	74.0	02/02/12 13:15	
Acetone	ug/kg	ND	148	02/02/12 13:15	
Benzene	ug/kg	ND	7.4	02/02/12 13:15	
Bromobenzene	ug/kg	ND	7.4	02/02/12 13:15	
Bromochloromethane	ug/kg	ND	7.4	02/02/12 13:15	
Bromodichloromethane	ug/kg	ND	7.4	02/02/12 13:15	
Bromoform	ug/kg	ND	7.4	02/02/12 13:15	
Bromomethane	ug/kg	ND	14.8	02/02/12 13:15	
Carbon tetrachloride	ug/kg	ND	7.4	02/02/12 13:15	
Chlorobenzene	ug/kg	ND	7.4	02/02/12 13:15	
Chloroethane	ug/kg	ND	14.8	02/02/12 13:15	
Chloroform	ug/kg	ND	7.4	02/02/12 13:15	
Chloromethane	ug/kg	ND	14.8	02/02/12 13:15	
cis-1,2-Dichloroethene	ug/kg	ND	7.4	02/02/12 13:15	
cis-1,3-Dichloropropene	ug/kg	ND	7.4	02/02/12 13:15	
Dibromochloromethane	ug/kg	ND	7.4	02/02/12 13:15	
Dibromomethane	ug/kg	ND	7.4	02/02/12 13:15	
Dichlorodifluoromethane	ug/kg	ND	14.8	02/02/12 13:15	

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QUALITY CONTROL DATA

Project: WILKES COUNTY WBS#35579.1.1
Pace Project No.: 92111243

METHOD BLANK: 717103 Matrix: Solid

Associated Lab Samples: 92111243001, 92111243002, 92111243003, 92111243004, 92111243005, 92111243006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/kg	ND	7.4	02/02/12 13:15	
Ethylbenzene	ug/kg	ND	7.4	02/02/12 13:15	
Hexachloro-1,3-butadiene	ug/kg	ND	7.4	02/02/12 13:15	
Isopropylbenzene (Cumene)	ug/kg	ND	7.4	02/02/12 13:15	
m&p-Xylene	ug/kg	ND	14.8	02/02/12 13:15	
Methyl-tert-butyl ether	ug/kg	ND	7.4	02/02/12 13:15	
Methylene Chloride	ug/kg	ND	29.6	02/02/12 13:15	
n-Butylbenzene	ug/kg	ND	7.4	02/02/12 13:15	
n-Propylbenzene	ug/kg	ND	7.4	02/02/12 13:15	
Naphthalene	ug/kg	ND	7.4	02/02/12 13:15	
o-Xylene	ug/kg	ND	7.4	02/02/12 13:15	
p-Isopropyltoluene	ug/kg	ND	7.4	02/02/12 13:15	
sec-Butylbenzene	ug/kg	ND	7.4	02/02/12 13:15	
Styrene	ug/kg	ND	7.4	02/02/12 13:15	
tert-Butylbenzene	ug/kg	ND	7.4	02/02/12 13:15	
Tetrachloroethene	ug/kg	ND	7.4	02/02/12 13:15	
Toluene	ug/kg	ND	7.4	02/02/12 13:15	
trans-1,2-Dichloroethene	ug/kg	ND	7.4	02/02/12 13:15	
trans-1,3-Dichloropropene	ug/kg	ND	7.4	02/02/12 13:15	
Trichloroethene	ug/kg	ND	7.4	02/02/12 13:15	
Trichlorofluoromethane	ug/kg	ND	7.4	02/02/12 13:15	
Vinyl acetate	ug/kg	ND	74.0	02/02/12 13:15	
Vinyl chloride	ug/kg	ND	14.8	02/02/12 13:15	
Xylene (Total)	ug/kg	ND	14.8	02/02/12 13:15	
1,2-Dichloroethane-d4 (S)	%	104	70-132	02/02/12 13:15	
4-Bromofluorobenzene (S)	%	99	70-130	02/02/12 13:15	
Dibromofluoromethane (S)	%	103	70-130	02/02/12 13:15	
Toluene-d8 (S)	%	100	70-130	02/02/12 13:15	

LABORATORY CONTROL SAMPLE: 717104

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	65.6	65.2	99	70-131	
1,1,1-Trichloroethane	ug/kg	65.6	59.0	90	70-141	
1,1,2,2-Tetrachloroethane	ug/kg	65.6	65.4	100	70-130	
1,1,2-Trichloroethane	ug/kg	65.6	62.2	95	70-132	
1,1-Dichloroethane	ug/kg	65.6	58.4	89	70-143	
1,1-Dichloroethene	ug/kg	65.6	55.5	85	70-137	
1,1-Dichloropropene	ug/kg	65.6	60.0	91	70-135	
1,2,3-Trichlorobenzene	ug/kg	65.6	63.1	96	69-153	
1,2,3-Trichloropropane	ug/kg	65.6	63.8	97	70-130	
1,2,4-Trichlorobenzene	ug/kg	65.6	60.7	92	55-171	
1,2,4-Trimethylbenzene	ug/kg	65.6	63.6	97	70-149	
1,2-Dibromo-3-chloropropane	ug/kg	65.6	64.7	99	68-141	
1,2-Dibromoethane (EDB)	ug/kg	65.6	67.6	103	70-130	

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QUALITY CONTROL DATA

Project: WILKES COUNTY WBS#35579.1.1
Pace Project No.: 92111243

LABORATORY CONTROL SAMPLE: 717104

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/kg	65.6	63.6	97	70-140	
1,2-Dichloroethane	ug/kg	65.6	62.8	96	70-137	
1,2-Dichloropropane	ug/kg	65.6	62.8	96	70-133	
1,3,5-Trimethylbenzene	ug/kg	65.6	62.3	95	70-143	
1,3-Dichlorobenzene	ug/kg	65.6	61.9	94	70-144	
1,3-Dichloropropane	ug/kg	65.6	63.6	97	70-132	
1,4-Dichlorobenzene	ug/kg	65.6	62.9	96	70-142	
2,2-Dichloropropane	ug/kg	65.6	58.3	89	68-152	
2-Butanone (MEK)	ug/kg	131	120J	92	70-149	
2-Chlorotoluene	ug/kg	65.6	64.8	99	70-141	
2-Hexanone	ug/kg	131	135	103	70-149	
4-Chlorotoluene	ug/kg	65.6	65.7	100	70-149	
4-Methyl-2-pentanone (MIBK)	ug/kg	131	127	97	70-153	
Acetone	ug/kg	131	118J	90	70-157	
Benzene	ug/kg	65.6	63.2	96	70-130	
Bromobenzene	ug/kg	65.6	63.1	96	70-141	
Bromochloromethane	ug/kg	65.6	60.0	91	70-149	
Bromodichloromethane	ug/kg	65.6	65.7	100	70-130	
Bromoform	ug/kg	65.6	69.6	106	70-131	
Bromomethane	ug/kg	65.6	67.5	103	64-136	
Carbon tetrachloride	ug/kg	65.6	62.4	95	70-154	
Chlorobenzene	ug/kg	65.6	63.5	97	70-135	
Chloroethane	ug/kg	65.6	57.4	87	68-151	
Chloroform	ug/kg	65.6	66.0	101	70-130	
Chloromethane	ug/kg	65.6	65.3	100	70-132	
cis-1,2-Dichloroethene	ug/kg	65.6	58.6	89	70-140	
cis-1,3-Dichloropropene	ug/kg	65.6	63.9	97	70-137	
Dibromochloromethane	ug/kg	65.6	67.9	104	70-130	
Dibromomethane	ug/kg	65.6	64.0	98	70-136	
Dichlorodifluoromethane	ug/kg	65.6	64.5	98	36-148	
Diisopropyl ether	ug/kg	65.6	62.8	96	70-139	
Ethylbenzene	ug/kg	65.6	63.1	96	70-137	
Hexachloro-1,3-butadiene	ug/kg	65.6	59.4	91	70-145	
Isopropylbenzene (Cumene)	ug/kg	65.6	62.7	96	70-141	
m&p-Xylene	ug/kg	131	126	96	70-140	
Methyl-tert-butyl ether	ug/kg	65.6	63.6	97	45-150	
Methylene Chloride	ug/kg	65.6	63.9	97	70-133	
n-Butylbenzene	ug/kg	65.6	61.3	93	65-155	
n-Propylbenzene	ug/kg	65.6	60.8	93	70-148	
Naphthalene	ug/kg	65.6	69.1	105	70-148	
o-Xylene	ug/kg	65.6	63.5	97	70-141	
p-Isopropyltoluene	ug/kg	65.6	63.9	97	70-148	
sec-Butylbenzene	ug/kg	65.6	62.6	95	70-145	
Styrene	ug/kg	65.6	66.4	101	70-138	
tert-Butylbenzene	ug/kg	65.6	62.8	96	70-143	
Tetrachloroethene	ug/kg	65.6	60.1	92	70-140	
Toluene	ug/kg	65.6	57.4	87	70-130	
trans-1,2-Dichloroethene	ug/kg	65.6	56.0	85	70-136	

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QUALITY CONTROL DATA

Project: WILKES COUNTY WBS#35579.1.1
Pace Project No.: 92111243

LABORATORY CONTROL SAMPLE: 717104

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,3-Dichloropropene	ug/kg	65.6	63.9	97	70-138	
Trichloroethene	ug/kg	65.6	63.4	97	70-132	
Trichlorofluoromethane	ug/kg	65.6	57.3	87	69-134	
Vinyl acetate	ug/kg	131	94.3	72	24-161	
Vinyl chloride	ug/kg	65.6	64.2	98	55-140	
Xylene (Total)	ug/kg	197	189	96	70-141	
1,2-Dichloroethane-d4 (S)	%			100	70-132	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			97	70-130	
Toluene-d8 (S)	%			99	70-130	

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QUALITY CONTROL DATA

Project: WILKES COUNTY WBS#35579.1.1
Pace Project No.: 92111243

QC Batch: OEXT/16315 Analysis Method: EPA 8270
QC Batch Method: EPA 3546 Analysis Description: 8270 Solid MSSV Microwave
Associated Lab Samples: 92111243001, 92111243002, 92111243003, 92111243004, 92111243005, 92111243006

METHOD BLANK: 717301 Matrix: Solid
Associated Lab Samples: 92111243001, 92111243002, 92111243003, 92111243004, 92111243005, 92111243006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	ND	330	02/04/12 12:22	
1,2-Dichlorobenzene	ug/kg	ND	330	02/04/12 12:22	
1,3-Dichlorobenzene	ug/kg	ND	330	02/04/12 12:22	
1,4-Dichlorobenzene	ug/kg	ND	330	02/04/12 12:22	
1-Methylnaphthalene	ug/kg	ND	330	02/04/12 12:22	
2,4,5-Trichlorophenol	ug/kg	ND	330	02/04/12 12:22	
2,4,6-Trichlorophenol	ug/kg	ND	330	02/04/12 12:22	
2,4-Dichlorophenol	ug/kg	ND	330	02/04/12 12:22	
2,4-Dimethylphenol	ug/kg	ND	330	02/04/12 12:22	
2,4-Dinitrophenol	ug/kg	ND	1650	02/04/12 12:22	
2,4-Dinitrotoluene	ug/kg	ND	330	02/04/12 12:22	
2,6-Dinitrotoluene	ug/kg	ND	330	02/04/12 12:22	
2-Chloronaphthalene	ug/kg	ND	330	02/04/12 12:22	
2-Chlorophenol	ug/kg	ND	330	02/04/12 12:22	
2-Methylnaphthalene	ug/kg	ND	330	02/04/12 12:22	
2-Methylphenol(o-Cresol)	ug/kg	ND	330	02/04/12 12:22	
2-Nitroaniline	ug/kg	ND	1650	02/04/12 12:22	
2-Nitrophenol	ug/kg	ND	330	02/04/12 12:22	
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	330	02/04/12 12:22	
3,3'-Dichlorobenzidine	ug/kg	ND	1650	02/04/12 12:22	
3-Nitroaniline	ug/kg	ND	1650	02/04/12 12:22	
4,6-Dinitro-2-methylphenol	ug/kg	ND	660	02/04/12 12:22	
4-Bromophenylphenyl ether	ug/kg	ND	330	02/04/12 12:22	
4-Chloro-3-methylphenol	ug/kg	ND	660	02/04/12 12:22	
4-Chloroaniline	ug/kg	ND	1650	02/04/12 12:22	
4-Chlorophenylphenyl ether	ug/kg	ND	330	02/04/12 12:22	
4-Nitroaniline	ug/kg	ND	660	02/04/12 12:22	
4-Nitrophenol	ug/kg	ND	1650	02/04/12 12:22	
Acenaphthene	ug/kg	ND	330	02/04/12 12:22	
Acenaphthylene	ug/kg	ND	330	02/04/12 12:22	
Aniline	ug/kg	ND	330	02/04/12 12:22	
Anthracene	ug/kg	ND	330	02/04/12 12:22	
Benzo(a)anthracene	ug/kg	ND	330	02/04/12 12:22	
Benzo(a)pyrene	ug/kg	ND	330	02/04/12 12:22	
Benzo(b)fluoranthene	ug/kg	ND	330	02/04/12 12:22	
Benzo(g,h,i)perylene	ug/kg	ND	330	02/04/12 12:22	
Benzo(k)fluoranthene	ug/kg	ND	330	02/04/12 12:22	
Benzoic Acid	ug/kg	ND	1650	02/04/12 12:22	
Benzyl alcohol	ug/kg	ND	660	02/04/12 12:22	
bis(2-Chloroethoxy)methane	ug/kg	ND	330	02/04/12 12:22	
bis(2-Chloroethyl) ether	ug/kg	ND	330	02/04/12 12:22	
bis(2-Chloroisopropyl) ether	ug/kg	ND	330	02/04/12 12:22	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	330	02/04/12 12:22	

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QUALITY CONTROL DATA

Project: WILKES COUNTY WBS#35579.1.1
Pace Project No.: 92111243

METHOD BLANK: 717301 Matrix: Solid

Associated Lab Samples: 92111243001, 92111243002, 92111243003, 92111243004, 92111243005, 92111243006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Butylbenzylphthalate	ug/kg	ND	330	02/04/12 12:22	
Chrysene	ug/kg	ND	330	02/04/12 12:22	
Di-n-butylphthalate	ug/kg	ND	330	02/04/12 12:22	
Di-n-octylphthalate	ug/kg	ND	330	02/04/12 12:22	
Dibenz(a,h)anthracene	ug/kg	ND	330	02/04/12 12:22	
Dibenzofuran	ug/kg	ND	330	02/04/12 12:22	
Diethylphthalate	ug/kg	ND	330	02/04/12 12:22	
Dimethylphthalate	ug/kg	ND	330	02/04/12 12:22	
Fluoranthene	ug/kg	ND	330	02/04/12 12:22	
Fluorene	ug/kg	ND	330	02/04/12 12:22	
Hexachloro-1,3-butadiene	ug/kg	ND	330	02/04/12 12:22	
Hexachlorobenzene	ug/kg	ND	330	02/04/12 12:22	
Hexachlorocyclopentadiene	ug/kg	ND	330	02/04/12 12:22	
Hexachloroethane	ug/kg	ND	330	02/04/12 12:22	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	330	02/04/12 12:22	
Isophorone	ug/kg	ND	330	02/04/12 12:22	
N-Nitroso-di-n-propylamine	ug/kg	ND	330	02/04/12 12:22	
N-Nitrosodimethylamine	ug/kg	ND	330	02/04/12 12:22	
N-Nitrosodiphenylamine	ug/kg	ND	330	02/04/12 12:22	
Naphthalene	ug/kg	ND	330	02/04/12 12:22	
Nitrobenzene	ug/kg	ND	330	02/04/12 12:22	
Pentachlorophenol	ug/kg	ND	1650	02/04/12 12:22	
Phenanthrene	ug/kg	ND	330	02/04/12 12:22	
Phenol	ug/kg	ND	330	02/04/12 12:22	
Pyrene	ug/kg	ND	330	02/04/12 12:22	
2,4,6-Tribromophenol (S)	%	87	27-110	02/04/12 12:22	
2-Fluorobiphenyl (S)	%	75	30-110	02/04/12 12:22	
2-Fluorophenol (S)	%	71	13-110	02/04/12 12:22	
Nitrobenzene-d5 (S)	%	78	23-110	02/04/12 12:22	
Phenol-d6 (S)	%	75	22-110	02/04/12 12:22	
Terphenyl-d14 (S)	%	88	28-110	02/04/12 12:22	

LABORATORY CONTROL SAMPLE: 717302

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	1670	1360	81	39-101	
1,2-Dichlorobenzene	ug/kg	1670	1300	78	36-110	
1,3-Dichlorobenzene	ug/kg	1670	1290	77	35-110	
1,4-Dichlorobenzene	ug/kg	1670	1300	78	35-110	
1-Methylnaphthalene	ug/kg	1670	1290	77	45-105	
2,4,5-Trichlorophenol	ug/kg	1670	1330	80	48-109	
2,4,6-Trichlorophenol	ug/kg	1670	1500	90	45-111	
2,4-Dichlorophenol	ug/kg	1670	1370	82	51-116	
2,4-Dimethylphenol	ug/kg	1670	1250	75	42-103	
2,4-Dinitrophenol	ug/kg	8330	8070	97	28-103	

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QUALITY CONTROL DATA

Project: WILKES COUNTY WBS#35579.1.1
Pace Project No.: 92111243

LABORATORY CONTROL SAMPLE: 717302

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-Dinitrotoluene	ug/kg	1670	1740	105	46-114	
2,6-Dinitrotoluene	ug/kg	1670	1670	100	48-112	
2-Chloronaphthalene	ug/kg	1670	1390	83	44-105	
2-Chlorophenol	ug/kg	1670	1300	78	36-110	
2-Methylnaphthalene	ug/kg	1670	1300	78	39-112	
2-Methylphenol(o-Cresol)	ug/kg	1670	1110	66	39-101	
2-Nitroaniline	ug/kg	3330	3220	96	44-111	
2-Nitrophenol	ug/kg	1670	1550	93	41-100	
3&4-Methylphenol(m&p Cresol)	ug/kg	1670	1130	68	43-103	
3,3'-Dichlorobenzidine	ug/kg	3330	3070	92	10-150	
3-Nitroaniline	ug/kg	3330	3090	93	35-110	
4,6-Dinitro-2-methylphenol	ug/kg	3330	3240	97	38-118	
4-Bromophenylphenyl ether	ug/kg	1670	1360	82	47-115	
4-Chloro-3-methylphenol	ug/kg	3330	2960	89	43-127	
4-Chloroaniline	ug/kg	3330	2550	76	34-109	
4-Chlorophenylphenyl ether	ug/kg	1670	1410	85	44-115	
4-Nitroaniline	ug/kg	3330	3180	95	37-111	
4-Nitrophenol	ug/kg	8330	8330	100	21-152	
Acenaphthene	ug/kg	1670	1320	79	38-117	
Acenaphthylene	ug/kg	1670	1310	79	46-107	
Aniline	ug/kg	1670	1060	64	29-110	
Anthracene	ug/kg	1670	1410	85	50-110	
Benzo(a)anthracene	ug/kg	1670	1400	84	47-116	
Benzo(a)pyrene	ug/kg	1670	1380	83	47-106	
Benzo(b)fluoranthene	ug/kg	1670	1270	76	47-109	
Benzo(g,h,i)perylene	ug/kg	1670	1420	85	39-115	
Benzo(k)fluoranthene	ug/kg	1670	1430	86	45-117	
Benzoic Acid	ug/kg	8330	5970	72	16-110	
Benzyl alcohol	ug/kg	3330	2420	73	38-105	
bis(2-Chloroethoxy)methane	ug/kg	1670	1200	72	39-110	
bis(2-Chloroethyl) ether	ug/kg	1670	1230	74	19-119	
bis(2-Chloroisopropyl) ether	ug/kg	1670	983	59	21-110	
bis(2-Ethylhexyl)phthalate	ug/kg	1670	1620	97	35-116	
Butylbenzylphthalate	ug/kg	1670	1610	97	38-110	
Chrysene	ug/kg	1670	1500	90	49-110	
Di-n-butylphthalate	ug/kg	1670	1570	94	43-109	
Di-n-octylphthalate	ug/kg	1670	1660	99	37-109	
Dibenz(a,h)anthracene	ug/kg	1670	1380	83	43-116	
Dibenzofuran	ug/kg	1670	1390	83	45-106	
Diethylphthalate	ug/kg	1670	1550	93	41-114	
Dimethylphthalate	ug/kg	1670	1430	86	43-110	
Fluoranthene	ug/kg	1670	1450	87	50-114	
Fluorene	ug/kg	1670	1370	82	46-114	
Hexachloro-1,3-butadiene	ug/kg	1670	1420	85	28-111	
Hexachlorobenzene	ug/kg	1670	1400	84	46-120	
Hexachlorocyclopentadiene	ug/kg	1670	991	59	18-119	
Hexachloroethane	ug/kg	1670	1340	80	33-110	
Indeno(1,2,3-cd)pyrene	ug/kg	1670	1390	83	42-115	

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QUALITY CONTROL DATA

Project: WILKES COUNTY WBS#35579.1.1
Pace Project No.: 92111243

LABORATORY CONTROL SAMPLE: 717302

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Isophorone	ug/kg	1670	1330	80	44-109	
N-Nitroso-di-n-propylamine	ug/kg	1670	1160	69	43-104	
N-Nitrosodimethylamine	ug/kg	1670	1160	70	29-110	
N-Nitrosodiphenylamine	ug/kg	1670	1400	84	48-113	
Naphthalene	ug/kg	1670	1230	74	41-110	
Nitrobenzene	ug/kg	1670	1310	79	38-110	
Pentachlorophenol	ug/kg	3330	3280	98	32-128	
Phenanthrene	ug/kg	1670	1310	79	50-110	
Phenol	ug/kg	1670	1260	75	28-106	
Pyrene	ug/kg	1670	1340	81	45-114	
2,4,6-Tribromophenol (S)	%			100	27-110	
2-Fluorobiphenyl (S)	%			74	30-110	
2-Fluorophenol (S)	%			76	13-110	
Nitrobenzene-d5 (S)	%			75	23-110	
Phenol-d6 (S)	%			69	22-110	
Terphenyl-d14 (S)	%			86	28-110	

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QUALITY CONTROL DATA

Project: WILKES COUNTY WBS#35579.1.1
Pace Project No.: 92111243

QC Batch: OEXT/16342 Analysis Method: MADEP EPH
QC Batch Method: MADEP EPH Analysis Description: MADEP EPH NC Soil
Associated Lab Samples: 92111243001, 92111243002, 92111243003, 92111243004, 92111243005, 92111243006

METHOD BLANK: 718513 Matrix: Solid
Associated Lab Samples: 92111243001, 92111243002, 92111243003, 92111243004, 92111243005, 92111243006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C09-C18)	mg/kg	ND	10.0	02/07/12 15:20	N2
Aliphatic (C19-C36)	mg/kg	ND	10.0	02/07/12 15:20	N2
Aromatic (C11-C22)	mg/kg	ND	10.0	02/07/12 15:20	N2
2-Bromonaphthalene (S)	%	79	40-140	02/07/12 15:20	
2-Fluorobiphenyl (S)	%	76	40-140	02/07/12 15:20	
Nonatriacontane (S)	%	67	40-140	02/07/12 15:20	
o-Terphenyl (S)	%	49	40-140	02/07/12 15:20	

LABORATORY CONTROL SAMPLE & LCSD: 718514 718515

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C09-C18)	mg/kg	9.9	ND	ND	51	49	40-140		50	N2
Aliphatic (C19-C36)	mg/kg	13.2	ND	ND	58	57	40-140		50	N2
Aromatic (C11-C22)	mg/kg	28.1	21.6	20.5	77	73	40-140	5	50	N2
2-Bromonaphthalene (S)	%				105	99	40-140			
2-Fluorobiphenyl (S)	%				103	91	40-140			
Nonatriacontane (S)	%				52	51	40-140			
o-Terphenyl (S)	%				65	68	40-140			

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QUALITY CONTROL DATA

Project: WILKES COUNTY WBS#35579.1.1
Pace Project No.: 92111243

QC Batch: PMST/4464 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 92111243001, 92111243002, 92111243003, 92111243004, 92111243005, 92111243006

SAMPLE DUPLICATE: 716931

Parameter	Units	92111311001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	18.9	18.2	4	

SAMPLE DUPLICATE: 716932

Parameter	Units	92111301002 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	22.9	22.9	0	

QUALIFIERS

Project: WILKES COUNTY WBS#35579.1.1
Pace Project No.: 92111243

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.

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.

LABORATORIES

PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

1g	Surrogate fails after Moisture Correction for Methanol.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
N2	The lab does not hold TNI accreditation for this parameter.
NC	Results acceptable because non-target analyte peak heights do not exceed the maximum calibrated upper range of the system per Section 9.5.8 of the MADEP VPH method.
P3	Sample extract could not be concentrated to the routine final volume, resulting in elevated reporting limits.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.
S5	Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WILKES COUNTY WBS#35579.1.1
Pace Project No.: 92111243

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92111243001	**P98-UST-1(7)**	MADEP EPH	OEXT/16342	MADEP EPH	GCSV/11332
92111243002	**P98-FLOOR-1(10')**	MADEP EPH	OEXT/16342	MADEP EPH	GCSV/11332
92111243003	**P98-SW-1-1(9')**	MADEP EPH	OEXT/16342	MADEP EPH	GCSV/11332
92111243004	**P98-SW-2(9')**	MADEP EPH	OEXT/16342	MADEP EPH	GCSV/11332
92111243005	**P98-SW-3(9')**	MADEP EPH	OEXT/16342	MADEP EPH	GCSV/11332
92111243006	**P98-SW-4(9')**	MADEP EPH	OEXT/16342	MADEP EPH	GCSV/11332
92111243001	**P98-UST-1(7)**	MADEP VPH	GCV/5721	MADEP VPH	GCV/5725
92111243002	**P98-FLOOR-1(10')**	MADEP VPH	GCV/5721	MADEP VPH	GCV/5722
92111243003	**P98-SW-1-1(9')**	MADEP VPH	GCV/5721	MADEP VPH	GCV/5725
92111243004	**P98-SW-2(9')**	MADEP VPH	GCV/5721	MADEP VPH	GCV/5722
92111243005	**P98-SW-3(9')**	MADEP VPH	GCV/5721	MADEP VPH	GCV/5725
92111243006	**P98-SW-4(9')**	MADEP VPH	GCV/5721	MADEP VPH	GCV/5725
92111243001	**P98-UST-1(7)**	EPA 3546	OEXT/16315	EPA 8270	MSSV/5942
92111243002	**P98-FLOOR-1(10')**	EPA 3546	OEXT/16315	EPA 8270	MSSV/5942
92111243003	**P98-SW-1-1(9')**	EPA 3546	OEXT/16315	EPA 8270	MSSV/5942
92111243004	**P98-SW-2(9')**	EPA 3546	OEXT/16315	EPA 8270	MSSV/5942
92111243005	**P98-SW-3(9')**	EPA 3546	OEXT/16315	EPA 8270	MSSV/5942
92111243006	**P98-SW-4(9')**	EPA 3546	OEXT/16315	EPA 8270	MSSV/5942
92111243001	**P98-UST-1(7)**	EPA 8260	MSV/18071		
92111243002	**P98-FLOOR-1(10')**	EPA 8260	MSV/18071		
92111243003	**P98-SW-1-1(9')**	EPA 8260	MSV/18071		
92111243004	**P98-SW-2(9')**	EPA 8260	MSV/18071		
92111243005	**P98-SW-3(9')**	EPA 8260	MSV/18071		
92111243006	**P98-SW-4(9')**	EPA 8260	MSV/18071		
92111243001	**P98-UST-1(7)**	ASTM D2974-87	PMST/4464		
92111243002	**P98-FLOOR-1(10')**	ASTM D2974-87	PMST/4464		
92111243003	**P98-SW-1-1(9')**	ASTM D2974-87	PMST/4464		
92111243004	**P98-SW-2(9')**	ASTM D2974-87	PMST/4464		
92111243005	**P98-SW-3(9')**	ASTM D2974-87	PMST/4464		
92111243006	**P98-SW-4(9')**	ASTM D2974-87	PMST/4464		

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Parcel 98

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

1508458

Section A Required Client Information:

Company:	AMEC
Address:	2801 Yorkmont Rd Ste 100 Charlotte, NC 28208
Email To:	helen.corley@amec.com
Phone:	704-357-8400
Fax:	
Requested Due Date/TAT:	Standard

Section B Required Project Information:

Report To:	Helen Corley
Copy To:	Troy L Holzschuh
Purchase Order No.:	WBS: 35579.1.1
Project Name:	Wilkes County
Project Number:	566773405

Section C Invoice Information:

Attention:	Terry Fox
Company Name:	NCDOT
Address:	1589 Mail Service Center Raleigh
Pace Quote Reference:	WBS: 35579.1.1
Pace Project Manager:	
Pace Profile #:	4098-1

REGULATORY AGENCY

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

Site Location STATE: NC

Section D Required Client Information

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

Matrix Codes MATRIX / CODE

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	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 (7 VOAs, 2 Jars)	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	8260	8270	VPH	EPH	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	P98-UST-1 (7')	~~SL~~	G	~~1-31-12~~	~~TLH~~	1-31-12	1355	TLH	9	9									X	X	X	X		001
2	P98-Floor 1 (10')	SL	G				1422												X	X	X	X		002
3	P98-SW-1 (9')	SL	G				1445												X	X	X	X		003
4	P98-SW-2 (9')	SL	G				1450												X	X	X	X		004
5	P98-SW-3 (9')	SL	G				1500												X	X	X	X		005
6	P98-SW-4 (9')	SL	G			↓	1505	↓	↓	↓									X	X	X	X		006
7								TLH																
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Troy L Holzschuh/AMEC	2-1-12	1200	[signature] FedEx	2/01/12	1200	0.9	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Troy L Holzschuh

SIGNATURE of SAMPLER: Troy L Holzschuh DATE Signed (MM/DD/YY): 2-1-12

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

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

Pace Analytical	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: January 30, 2012 Page 1 of 2
	Document Number: **F-CHR-CS-03-rev.06**	Issuing Authority: Pace Huntersville Quality Office

Client Name: AMEC Project # 92111243

Where Received: ☑ Huntersville ☑ Asheville ☐ Eden

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace Other_____

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

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other_____

Thermometer Used: IR Gun T1101 T1102 **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor **T1101**: No Correction **T1102**: Subtract 1.2°C

Corrected Cooler Temp.: 0.9 C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Comments:

Optional
Proj. Due Date:
Proj. Name:

Date and Initials of person examining contents: 2/1/12

Chain of Custody Present:	☑Yes	☑No	☐N/A
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A
Sufficient Volume:	☑Yes	☐No	☐N/A
Correct Containers Used:	☑Yes	☐No	☐N/A
-Pace Containers Used:	☑Yes	☐No	☐N/A
Containers Intact:	☑Yes	☐No	☐N/A
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A
Sample Labels match COC:	☑Yes	☐No	☐N/A
-Includes date/time/ID/Analysis Matrix: SL			
All containers needing preservation have been checked.	☐Yes	☐No	☑N/A
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
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A
Trip Blank Present:	☐Yes	☐No	☑N/A
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A
Pace Trip Blank Lot # (if purchased):_____			

1.	
2.	
3.	
4.	
5.	
6.	
7.	
8.	
9.	
10.	
11.	
12.	
13.	
Initial when completed	
14.	
15.	
16.	

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted:_____ Date/Time:_____

Comments/ Resolution:_____

SCURF Review: JZ **Date:** 2/1/12 **SRF Review:** JZ **Date:** 2/1/12

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)

APPENDIX E

UST-2 - Site Investigation Report for Permanent Closure or Change in Service of UST

UST-3 – Notice of Intent: UST Permanent Closure or Change in Service

AMEC Earth & Environmental, Inc.
2200 Gateway Centre Blvd, Suite 205
Morrisville, NC 27560
Tel – (919) 447-2750
Fax – (919) 447-2751
www.amec.com

UST-2 Site Investigation Report for Permanent Closure or Change-in-Service of UST

Return completed form to:
The DWM Regional Office located in the area where the facility is located. Send a copy to the Central Office in Raleigh so that the status of the tank may be changed to "PERMANENTLY CLOSED" and your tank fee account can be closed out.
SEE MAP ON THE BACK OF THIS FORM FOR THE CENTRAL AND REGIONAL OFFICE ADDRESSES.

STATE USE ONLY:
I.D. #_____
Date Received_____

INSTRUCTIONS (READ THIS FIRST)

For more than five UST systems you may attach additional forms as needed.

Permanent closure -- For permanent closure, complete all sections of this form.

Change-in-service -- For change-in-service where UST systems will be converted from containing a regulated substance to storing a non-regulated substance, complete sections I, II, III, IV, and VIII

Effective February 1, 1995, all UST closure/change-in-service reports must be submitted in the format provided in the UST-12 form. UST closure and change-in-services must be completed in accordance with the latest version of the *Guidelines for Tank Closure*. A copy of the UST-12 form and the *Guidelines for Tank Closure* can be obtained at www.wastenotnc.org.

You must make sure that USTs removed from your property are disposed of properly. When choosing a closure contractor, ask where the tank(s) will be taken for disposal. Usually, USTs are cleaned and cut up for scrap metal. This is dangerous work and must be performed by a qualified company. Tanks disposed of illegally in fields or other dumpsites can leak petroleum products and sludge into the environment. If your tanks are disposed of improperly, you could be held responsible for the cleanup of any environmental damage that occurs.

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

I. OWNERSHIP OF TANKS

Owner Name (Corporation, Individual, Public Agency, or Other Entity)	
Steven Joseph Whitney	
Street Address	
1532 Sparta Road	
City	County
North Wilkesboro	Wilkes
State	Zip Code
NC	28659
Phone Number	

II. LOCATION OF TANKS

Facility Name or Company		
Formerly David's Monuments		
Facility ID # (If known)		
Street Address		
1532 Sparta Road		
City	County	Zip Code
North Wilkesboro	Wilkes	28659
Phone Number		

III. CONTACT PERSONNEL

Contact for Facility: Terry W. Fox, LG		Job Title: Geo Environmental Project Manager	Phone. No: 919-707-6870
Closure Contractor Name: Tony Disher	Closure Contractor Company: EVO Corp	Address: 1703 Vargrave St, Winston Salem, NC	Phone. No: 336-725-5844
Primary Consultant Name: Troy L Holzschuh	Primary Consultant Company: AMEC E & I	Address: 2801 Yorkmont Rd, Charlotte, NC	Phone. No: 704-357-5616

IV. UST INFORMATION FOR REGISTERED UST SYSTEMS

V. EXCAVATION CONDITION

Tank ID No.	Size In Gallons	Tank Dimensions	Last Contents	Last Use Date	Permanent Close Date	Change-in-Service Date	Water in excavation		Free product		Notable odor or visible soil contamination	
							Yes	No	Yes	No	Yes	No
							☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐

VI. UST INFORMATION FOR UNREGISTERED UST SYSTEMS

VII. EXCAVATION CONDITION

Tank ID No.	Size in Gallons	Tank Dimensions	Last Contents	Last Use Date	Permanent Close Date	Tank Owner Name *	Water in excavation		Free product		Notable odor or visible soil contamination	
							Yes	No	Yes	No	Yes	No
	270		Unknown	unknown	1-31-12	Steven Whitney	☐	☒	☐	☒	☒	☐
							☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐

* If the tank owner address is different from the one listed in Section I., then enter the street address, city, state, zip code and telephone no. below:

VIII. CERTIFICATION

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

Print name and official title of owner or owner's authorized representative	Signature	Date Signed
Troy L Holzschuh	Troy L Holzschuh	2/1/2012

UST-3 Notice of Intent: UST Permanent Closure or Change-in-Service

Return completed form to:
The DWM Regional Office located in the area where the facility is located. Send a copy to the Central Office in Raleigh so that the status of the tank may be changed to "PERMANENTLY CLOSED" and your tank fee account can be closed out.
SEE MAP ON THE BACK OF THIS FORM FOR THE CENTRAL AND REGIONAL OFFICE ADDRESSES.

STATE USE ONLY
I.D. #_____
Date Received_____

INSTRUCTIONS (READ THIS FIRST)

Complete and return at least **thirty (30) days** prior to closure or change-in-service activities. If a Professional Engineer (P.E.) or a Licensed Geologist (L.G.) provides supervision for closure or change-in-service site assessment activities and signs and seals all closure reports then at least a **five (5) working days** notice is acceptable.

Completed UST closure or change-in-service site assessment reports, along with a copy of the UST-2 form, should be submitted to the appropriate Division of Waste Management (DWM) Regional Office within thirty (30) days following closure activities. The UST-2 form should also be submitted to the Central Office in Raleigh so that the status of the tanks may be changed to permanently closed and your tank fee account can be closed out.

UST closure and change-in-service site assessments must be completed in accordance with the latest version of the *Guidelines for Tank Closure*. The *Guidelines for Tank Closure* can be obtained at www.wastenotnc.org.

You must make sure that USTs removed from your property are disposed of properly. When choosing a closure contractor, ask where the tank(s) will be taken for disposal. Usually, USTs are cleaned and cut up for scrap metal. This is dangerous work and must be performed by a qualified company. Tanks disposed of illegally in fields or other dumpsites can leak petroleum products and sludge into the environment. If your tanks are disposed of improperly, you could be held responsible for the cleanup of any environmental damage that occurs.

I. OWNERSHIP OF TANKS

Owner Name (Corporation, Individual, Public Agency, or Other Entity) Steven Josep Whitney	
Street Address 1532 Sparta Road	
City North Wilkesboro	County Wilkes
State NC	Zip Code 28659
Phone Number	

II. LOCATION

Facility Name or Company Formerly David's Monuments		
Facility ID # (If known)		
Street Address 1532 Sparta Road		
City North Wilkesbor	County Wilkes	Zip Code 28659
Phone Number		

III. CONTACT PERSONNEL

Name:	Company Name:	Job Title:	Phone Number:
Terry W. Fox, LG	NCDOT	GeoEnvironmental Project Manager	919-707-6870

IV. TANK REMOVAL, CLOSURE IN PLACE, CHANGE-IN-SERVICE

1. Contact local fire marshal.
2. Plan entire closure event.
3. Conduct Site Soil Assessment.
4. If removing tanks or closing in place, refer to API Publication 2015 *Cleaning Petroleum Storage Tanks* and 1604 *Removal and Disposal of Used Underground Petroleum Storage Tanks.*
5. Provide a sketch locating piping, tanks and soil sampling locations.
6. Submit a closure report in the format of UST-12 (including the form UST-2) within thirty (30) days following the site investigation.
7. If a release from the tanks has occurred, the site assessment portion of the tank closure must be conducted under the supervision of a P.E. or L.G., with all closure site assessment reports bearing the signature and seal of the P.E. or L.G. If a release has not occurred, the supervision, signature or seal of a P.E. or L.G. is not required.
8. Keep closure records for three (3) years.

V. WORK TO BE PERFORMED BY

Contractor Name: Tony Disher	Contractor Company Name: Evo Corp		
Address: 1703 Vargrave St, Winston Salem	State: NC	Zip Code: 27107	Phone No: 336-725-5844
Primary Consultant Name: Troy L. Holzschuh	Primary Consultant Company Name: AMEC E&I		Consultant Phone No: 704-357-6800

VI. TANKS SCHEDULED FOR CLOSURE OR CHANGE-IN-SERVICE

Tank ID No.	Size in Gallons	Last Contents	Proposed Activity: Closure – Removal	Proposed Activity: Closure – Abandonment in Place *	Proposed Activity: Change-In-Service – New Contents Stored
	270	Unknown	☒	☐	
	270	Unknown	☒	☐	
			☐	☐	
			☐	☐	
			☐	☐	

* Prior written approval to abandon a tank in place must be received from a DWM Regional Office.

VII. OWNER OR OWNER'S AUTHORIZED REPRESENTATIVE

I understand that I can be held responsible for environmental damage resulting from the improper disposal of my USTs.

Print name and official title: Troy L. Holzschuh/Engineering Technician

Signature	Date Signed	SCHEDULED REMOVAL DATE	Notify your DWM Regional Office 48 hours before this date if scheduled removal date changes
Troy L Holzschuh	1-16-12	1-30-11	