DUNCKLEE
& DUNHAM

ENVIRONMENTAL GEOLOGISTS & ENGINEERS
511 KEISLER DRIVE – SUITE 102
CARY, NORTH CAROLINA 27518
OFFICE: (919) 858-9898
WWW.DUNCKLEEDUNHAM.COM

RECEIVED
NOV 07 2012
SUPERFUND SECTION

November 5, 2012

Ms. Deborah Mayo, Hydrogeologist
Superfund Section, NCDENR
127 Cardinal Drive Extension
Wilmington, North Carolina 28405

Subject: **Transmittal Letter**
Environmental Reports
Wilmington Materials Plant #1
3612 North 421 Highway
New Hanover County, North Carolina

Dear Ms. Mayo:

Duncklee & Dunham conducted soil and groundwater assessments at the subject site as a result of incidental releases of waste oil and diesel fuel from aboveground storage tanks at Wilmington Materials. Subsequent to confirmation of releases, Duncklee & Dunham conducted oversight during the excavation of soil and additional laboratory testing to confirm removal of soil that exhibits petroleum constituents at concentrations that exceed the action level and/or Maximum Soil Contaminant Concentration.

Duncklee & Dunham submits the following reports for your review:

- Letter Report of Environmental Services, dated July 9, 2012
- Letter Report of Soil Excavation and Well Abandonment, dated October 22, 2012

Please contact us if you have any questions.

Sincerely,

Duncklee & Dunham, P.C.

Richard A. Kolb

Richard A. Kolb, L.G.
Senior Geologist

Enclosures: Letter Report of Environmental Services
Letter Report of Soil Excavation and Well Abandonment

eCopy (transmittal letter only): Grady Shields; Wyrick, Robbins, Yates & Ponton

P:\Wyrick Robbins\Wilmington Materials - 201237\Transmittal Letter to WiRO Superfund -12338.docx

DUNCKLEE
& DUNHAM

ENVIRONMENTAL CONSULTING & ENGINEERING
511 KEISLER DRIVE – SUITE 102
CARY, NORTH CAROLINA 27518
OFFICE: (919) 858-9898
WWW.DUNCKLEEDUNHAM.COM

RECEIVED
NOV 07 2012
SUPERFUND SECTION

July 9, 2012

Mr. Grady Shields
Wyrick, Robbins, Yates & Ponton
4101 Lake Boone Trail, Suite 300
Raleigh, North Carolina 27607

Subject: **Letter Report of Environmental Services**
Wilmington Materials Plant #1
New Hanover County, North Carolina

Dear Mr. Shields:

As authorized by your acceptance of our proposals dated May 7 and June 18, 2012, Duncklee & Dunham, PC (Duncklee & Dunham) is pleased to submit this Letter Report of Environmental Services for the above-referenced site. The initial objectives of our services were 1) to test soil beneath the waste oil AST for the presence of waste oil, 2) to test soil in the vicinity of the maintenance building for the presence of petroleum constituents, 3) to test groundwater beneath or near the waste oil AST, the maintenance buildings and the aggregate piles for the presence of petroleum constituents, and 4) to test groundwater from the two water-supply wells for the presence of organic compounds. As a result of our initial assessment, Duncklee & Dunham conducted a second phase of soil and groundwater assessment. The objectives of this additional assessment were 1) to test soil in the vicinity of the maintenance/break buildings and canopy for the presence of chlorinated solvents, and 2) to test groundwater further east and south of the maintenance building to better delineate the extent and severity of tetrachloroethene impacts.

Background Information

The Wilmington Materials Plant #1 is located at 3612 North 421 Highway near Wilmington in New Hanover County, North Carolina (Figures 1 and 2). Wilmington Materials recycles concrete and asphalt, mines sand, grinds land clearing and inert debris (LCID) into mulch, recycles soil, and collects and recycles rebar. Sand mining at the site began in 1972. Potable water from the site is supplied by a water-supply well, and a second well provided water to wash vehicles at the site but is currently inactive.

Duncklee & Dunham completed a Phase I Environmental Site Assessment (Phase I) of the subject site on May 9, 2012, and identified the following recognized environmental conditions at the site:

- stains on the side of an aboveground storage tank (AST) used to store waste oil, and
- soil and groundwater at the site that may have been adversely affected by historical releases of oils, lubricants, diesel fuels and mineral spirits.

As a result of these findings, Duncklee & Dunham submitted a proposal dated May 7, 2012 to Wyrick, Robbins, Yates & Ponton to conduct a soil and groundwater assessment at the site.

Initial Assessment Field Activities

Duncklee & Dunham notified North Carolina One Call to locate underground utilities on the subject site and discussed potential underground utilities in the areas of concern with Phil Grice of Wilmington Materials prior to conducting the soil and groundwater assessment. Duncklee & Dunham personnel mobilized to the site on May 16 and 17, 2012, to advance soil borings and construct temporary monitoring wells with a hand auger in the areas of environmental concern observed during the Phase I.

Soil Assessment at the Waste Oil AST

Duncklee & Dunham personnel advanced soil borings SS-1 through SS-7 with a decontaminated hand auger in the vicinity of the waste oil AST. We advanced SS-1 through SS-4 adjacent to the sidewalls of the waste oil AST and SS-5 through SS-7 to delineate the horizontal and vertical extent of soil impacts in the vicinity of SS-3. The locations of these borings are shown on Figures 2 and 3.

We advanced SS-1 to a depth of five feet below land surface (BLS) and SS-2 to a depth of seven feet BLS. We advanced SS-3 adjacent to the fill-port end of the AST to a depth of 13 feet BLS. We advanced SS-4 and SS-5 to a depth of three feet BLS and SS-6 and SS-7 to a depth of two feet BLS.

Duncklee & Dunham collected soil samples at one-foot intervals from these borings and screened the samples for organic vapors with a handheld flame-ionization detector (FID). FID readings of the soil collected from each boring ranged from zero to one-and-a-half parts per million (PPM). Soil samples collected from SS-1, -2, -4, and -6 did not exhibit soil stains or emit petroleum odors. We observed stains in the soil from SS-3, -5, and -7 at a depth of 0-1 feet BLS. The extent of surface stains in the vicinity of the AST fill port covered an area of approximately 9 feet by 11 feet. The areas with visible soil stains are shown on Figure 3.

Duncklee & Dunham submitted soil samples to the laboratory for testing from SS-3 and SS-5 through SS-7. We submitted two samples from SS-3 at depth intervals of 0-1 feet BLS and 2-3 feet BLS. The 0-1 foot sample was collected as a characterization sample and the 2-3 foot sample was collected to delineate the vertical extent of soil impacts in the source area. We collected samples from SS-5, -6 and -7 beyond the horizontal extent of or beneath the observed stained soil at a depth of 1-2 feet BLS. We placed these samples into laboratory-provided jars and placed the jars in a cooler with ice. We did not observe stains on the soil samples from SS-1, -2, and -4, and thus did not collect samples from those borings for testing in the laboratory. After sampling, the borings were backfilled with bentonite chips and soil cuttings.

During the initial soil assessment, Duncklee & Dunham personnel observed soil stains and detected an odor of a diesel fuel in the vicinity of the diesel fuel AST to the northwest of the waste oil AST. We attempted to collect soil samples from this area with a hand auger but encountered auger refusal in the compacted gravel surface. We did not collect a soil sample at this location.

Soil Assessment at the Maintenance Building

Duncklee & Dunham personnel advanced SS-8 and SS-9 adjacent to the maintenance building with a decontaminated hand auger. We advanced SS-8 between the maintenance and storage buildings in an area where we observed surface stains. We advanced SS-9 beneath the canopy at the western corner of the maintenance building, adjacent to an air compressor where we observed surface stains. The locations of these borings are shown on Figures 2 and 3.

Duncklee & Dunham advanced SS-8 to a depth of two feet BLS and SS-9 to a depth of 13.8 feet BLS. We collected soil samples at one-foot intervals from the borings and screened the samples for organic vapors with a FID. FID readings of the soil from each boring ranged from zero to three PPM. We observed stains on the soil samples from SS-8 at a depth of 0-1 feet BLS, but not on the soil from the 1-2 foot BLS interval. We observed stains in SS-9 from land surface to a depth of two-and-a-half feet BLS.

Duncklee & Dunham submitted soil samples to the laboratory for testing from SS-8 at the depth interval of 1-2 feet BLS and from SS-9 at a depth interval of 2.5-3.5 feet BLS. These samples did not exhibit stains. We collected the samples with a decontaminated hand auger, placed the samples into laboratory-provided jars, and placed the jars in the cooler with the other soil samples. After sampling, the borings were backfilled with bentonite chips and soil cuttings.

Groundwater Assessment

On May 16 and 17, 2012, Duncklee & Dunham's North Carolina-licensed well driller (license #3457) constructed temporary monitoring wells in SS-3 and SS-9 (TW-1 and TW-3, respectively), and advanced another soil boring with a decontaminated hand auger in which to construct temporary monitoring well TW-2. We constructed this well northwest of the aggregate piles (Figure 2).

We constructed TW-1 to a depth of 13 feet BLS, TW-2 to a depth of 10 feet BLS, and TW-3 to a depth of 13.8 feet BLS. We used one-inch-diameter, Schedule 40, 0.01-inch-slotted PVC screen to construct these wells. Soil boring logs with well construction information are attached.

Duncklee & Dunham collected and recorded static water-table measurements from the monitoring wells with a water level probe. We collected groundwater samples from the wells using new, disposable, polyethylene bailers, decanted the groundwater samples from the bailers into laboratory-provided containers, and placed the containers in the cooler with the soil samples.

Sampling the Water-supply Well

Duncklee & Dunham personnel attempted to sample the water-supply well located in the vicinity of the maintenance building, but the pump was not operational so we could not collect a sample. We sampled the water-supply well in the building adjacent to the main office building (WSW-1) on May 17, 2012. We opened the well spigot to purge the well for approximately 10 minutes prior to sampling. We decanted the sample into labeled laboratory-provided containers and placed the containers in the cooler with the soil and groundwater samples.

Laboratory Analytical Results

Duncklee & Dunham delivered the cooler under chain of custody to Environmental Conservation Laboratories, Inc. (ENCO) in Cary, North Carolina. ENCO tested the soil samples from the waste oil AST for oil and grease according to EPA Method 9071B with silica gel cleanup, volatile organic hydrocarbons (VOCs) according to EPA Method 8260B, and chromium and lead according to EPA Method 6010C. ENCO tested the soil samples collected at the maintenance building for total petroleum hydrocarbons-diesel range organics (TPH-DRO) and TPH-gasoline range organics (GRO) according to EPA Method 8015C. ENCO tested the groundwater samples for VOCs according to Standard Method 6200B.

Table 1 and Figure 3 summarize the laboratory analytical results for the soil samples. The laboratory analytical report is attached. ENCO detected oil and grease from both samples from SS-3 at concentrations that exceed the North Carolina action level of 250 milligrams per kilogram (mg/kg). ENCO detected chromium in one of the samples from SS-3 at a concentration of 11.5 mg/kg, which exceeds the Soil-to-Groundwater Maximum Soil Contaminant Concentration (MSCC) of 5.4 mg/kg. ENCO did not detect TPH in the soil samples collected at the maintenance building at the concentrations that exceed the action levels established by the North Carolina Department of Environment and Natural Resources (NCDENR).

Table 2 and Figure 4 summarize the laboratory analytical results for the groundwater samples. ENCO detected tetrachloroethene in the groundwater samples from TW-2 and TW-3 at concentrations that exceed the North Carolina groundwater quality standard established in Title 15A, Subchapter 2L, Section .0202 of the North Carolina Administrative Code (15A NCAC 2L .0202; the "2L Standards). ENCO detected bis(2-ethylhexyl) phthalate at a concentration that exceeds the 2L Standard in the sample from TW-3 and WSW-1. We expect the presence of phthalates are the result of cross-contamination in the field or laboratory, and is not due to the presence of these compounds in groundwater at the site.

Additional Assessment Field Activities

Duncklee & Dunham discussed the test results with Wyrick, Robbins, Yates & Ponton, and at their request, prepared a proposal dated June 18, 2012 to conduct additional assessment. Duncklee & Dunham mobilized to the site on June 20 and 21, 2012. We notified North Carolina One Call to locate underground utilities on the site and contracted a private utility locator to locate buried utilities in the proposed work areas prior to conducting the assessment activities. SAEDACCO of Fort Mill, South Carolina, under contract to Duncklee & Dunham, advanced the soil borings and constructed two permanent monitoring wells.

Additional Soil Assessment at the Maintenance Building

Duncklee & Dunham supervised the advancement of seven additional soil borings, SS-10 through SS-16, in the vicinity of the maintenance building. The locations of these borings are shown on Figures 2 and 3. SAEDACCO advanced SS-10 with a truck-mounted B-57 drill rig with split-spoon capabilities to a depth of 12 feet BLS adjacent to the location of soil boring SS-9/temporary well TW-3. SAEDACCO advanced SS-11 through SS-16 along the perimeter of the maintenance and storage buildings to a depth of two feet BLS. We collected soil samples from each boring at one-foot intervals and screened for soil samples for the presence of organic vapors with a photo-ionization detector (PID).
Duncklee & Dunham collected soil samples for submittal to the laboratory at the depth interval of 6-8 feet BLS from SS-10 and at a depth interval of 1-2 feet BLS from the remaining six borings. We collected these samples from a decontaminated split spoon, placed the samples into laboratory-provided jars, and placed the jars in a cooler with ice. After we completed soil-sampling activities, SAEDACCO backfilled the borings with the soil cuttings and Portland grout up to ground level at locations with a concrete surface.

During our soil sampling, we observed the area of stained soil at the eastern end of the diesel fuel AST near the maintenance building was larger than we observed during our first mobilization. The stains suggested additional spills of diesel fuel had occurred in the month between our sampling events.

Additional Groundwater Assessment

Duncklee & Dunham had proposed to construct three permanent wells at the site: one at the location of TW-3, one east of TW-3 and one south of TW-3. We spoke to Mr. Grice at the site, and he told us any wells constructed between the maintenance building and aggregate piles would likely be destroyed by either truck traffic or a grader that regularly smooths the unpaved driving surfaces. Therefore, we decided to construct the well east of TW-3 as a temporary well.

SAEDACCO constructed temporary monitoring well TW-4 and permanent monitoring wells MW-1 and MW-2 in soil borings advanced with the drill rig. SAEDACCO advanced the boring for each of these wells with decontaminated, 4.25-inch inner-diameter, hollow-stem augers to a depth of 15 feet BLS. SAEDACCO constructed TW-4 adjacent to the aggregate pile east of the maintenance building, MW-1 at the location of SS-10, and MW-2 between the maintenance building and WSW-1 (Figure 2).

SAEDACCO constructed the wells with 10 feet of two–inch-diameter, Schedule 40, 0.01-inch slotted, PVC screen and five feet of two-inch-diameter, Schedule 40, PVC riser. Once the wells were constructed, Duncklee & Dunham used a water-level probe to measure the depths to the water table in the wells. Once the concrete surface pads for the two permanent wells had cured, we developed the wells to remove fine sediment from the well screen. Soil boring logs with well construction information and the Well Construction Records are attached. SAEDACCO sent the original copies of the Well Construction Records to NCDENR.

Duncklee & Dunham collected groundwater samples on June 25, 2012, from MW-1 and -2 using low-flow sampling techniques, decanted the groundwater samples from the bailers into laboratory-provided containers, placed the containers in the cooler with ice, and delivered the cooler to ENCO under chain of custody.

Additional Laboratory Test Results

Duncklee & Dunham delivered the cooler with the soil samples and groundwater sample from the temporary well to ENCO under chain of custody. ENCO tested the soil samples for VOCs according to EPA Method 8260B. The laboratory analytical report is attached.

As shown in Table 1 and Figure 3, ENCO detected tetrachloroethene in soil samples SS-11 and SS-13 through SS-16 but the concentrations did not exceed the Soil-to-Groundwater MSCC. ENCO detected acetone in each of the soil samples but we expect the presence of acetone is due to cross-contamination in the laboratory and is not representative of the soil conditions.

ENCO tested the groundwater samples from the two permanent wells for VOCs according to Standard Method 6200B. As shown on Table 2 and Figure 4, the groundwater samples from TW-4 and MW-2 did not exhibit tetrachloroethene or other VOCs. Thus, these wells delineated the maximum lateral extent of tetrachloroethene in groundwater to the east and south. ENCO detected tetrachloroethene in the groundwater sample from MW-1 at a concentration similar to that detected in the sample from nearby TW-3, both of which exceeded the 2L Standard.

Conclusions and Recommendations

Soil

The laboratory analytical results show that soil in the vicinity of the fill port end of the waste oil AST exhibits oil and grease at concentrations that exceed the action level, and one sample exhibited chromium at a concentration that exceeds the Soil-to-Groundwater MSCC. Duncklee & Dunham recommends moving the AST, excavating and disposing of the soil that exhibits oil and grease at concentrations that exceed the action level, and placing the waste oil AST within secondary containment to prevent future releases to underlying soil. We also recommend excavating stained soil at the diesel-fuel AST and fitting the dispensing area with containment so that future spills at this AST do not adversely affect soil.

Samples collected from the maintenance building area did not exhibit TPH-DRO and TPH-GRO above North Carolina Action Levels, or VOCs at concentrations that exceed the soil-to-groundwater MSCCs. Thus, while the soil assessment identified several areas with trace concentrations of tetrachloroethene, we did not identify a definitive source for the tetrachloroethene detected in the groundwater samples. Based on the available data, we do not recommend removal of the soil around the maintenance building that exhibits trace concentrations of tetrachloroethene.

Groundwater

ENCO detected tetrachloroethene in the groundwater samples collected from TW-2, TW-3, and MW-1 at concentrations that slightly exceed the 2L Standard. ENCO detected tetrachloroethene in the samples from these wells at concentrations that range from 4.5 to 6.0 µg/L, compared to the 2L Standard of 0.7 µg/L.

ENCO detected bis(2-ethylhexyl) phthalate at concentrations that exceed the 2L Standard in the samples collected from TW-3 and WSW-1. We expect the presence of phthalates is the result of cross-contamination in the field or laboratory, and is not due to the presence of these compounds in groundwater at the site.

The low concentrations of tetrachloroethene detected combined with the absence of tetrachloroethene at locations east, south and north shows the magnitude of dissolved tetrachloroethene in groundwater is not extensive. Furthermore, samples from MW-2 and the water-supply well did not exhibit tetrachloroethene at concentrations that exceed the method detection limits. Thus, we do not have evidence of imminent risk to the water-supply well at the main office building.

Duncklee & Dunham has been advised by NCDENR there is a very good likelihood the 2L Standard for tetrachloroethene will be increased from the current 0.7 µg/L level to 17 µg/L in late 2013 or 2014. This revision to the standard is expected because the EPA IRIS cancer-potency factor has been changed.

In addition to the soil-remediation tasks shown above, Duncklee & Dunham recommends the consideration of the following two approaches for site remediation:

1. Inject a small amount of Regenesis HRC® compound using NCDENR's new permit-by-rule pilot-testing approach. This could be conducted and groundwater sampled again prior to the expiration of reporting requirements to NCDENR. Based on our experience with the agency, time can be granted to allow for remediation prior to the site being placed on the IHSB release list. With the presence of such low concentrations of tetrachloroethene, Duncklee & Dunham believes a pilot-test injection can be designed to remediate the area between wells MW-1 and TW-2 before the site is placed on the IHSB incident list. At the site of soil excavation, we could also place place a layer of Regenesis ORC®, or similar product, in the base of the excavation prior to backfilling to enhance biodegradation of any chlorinated ethenes that are believed to be associated with the petroleum releases in these areas.

2. Report the release to NC DENR and wait for the tetrachloroethene standard to change in the next year or two. While the site would be added to the IHSB list under this approach, the site should be eligible for removal once the 2L Standard changes. Under this scenario, the owner should sample the permanent monitoring wells and water-supply well on a semiannual basis

We appreciate the opportunity to provide our services to Wyrick Robbins. Please contact us if you have any questions.

Sincerely,

Duncklee & Dunham, P.C.

Jayson A. Kilcoyne
Project Environmental Scientist II

Richard A. Kolb, L.G.
Senior Geologist

Senior Peer Review:

David L. Duncklee, P.G.
Senior Hydrogeologist

Attachments: Figures 1 through 4
Tables 1 and 2
Soil Boring Logs
Well Construction Records
Laboratory Test Reports and Chain-of-Custody Records

P:\Wyrick Robbins\Wilmington Materials - 201214\Phase II ESA -12189\Phase II Letter Report -12189.docx

Figures

DUNCKLEE & DUNHAM
ENVIRONMENTAL CONSULTING & ENGINEERING

511 Keisler Drive Suite 102
Cary, North Carolina 27518
NC Eng. License No. C-3559

(919) 858-9898
www.dunckleedunham.com
NC Geo. License No. C-261

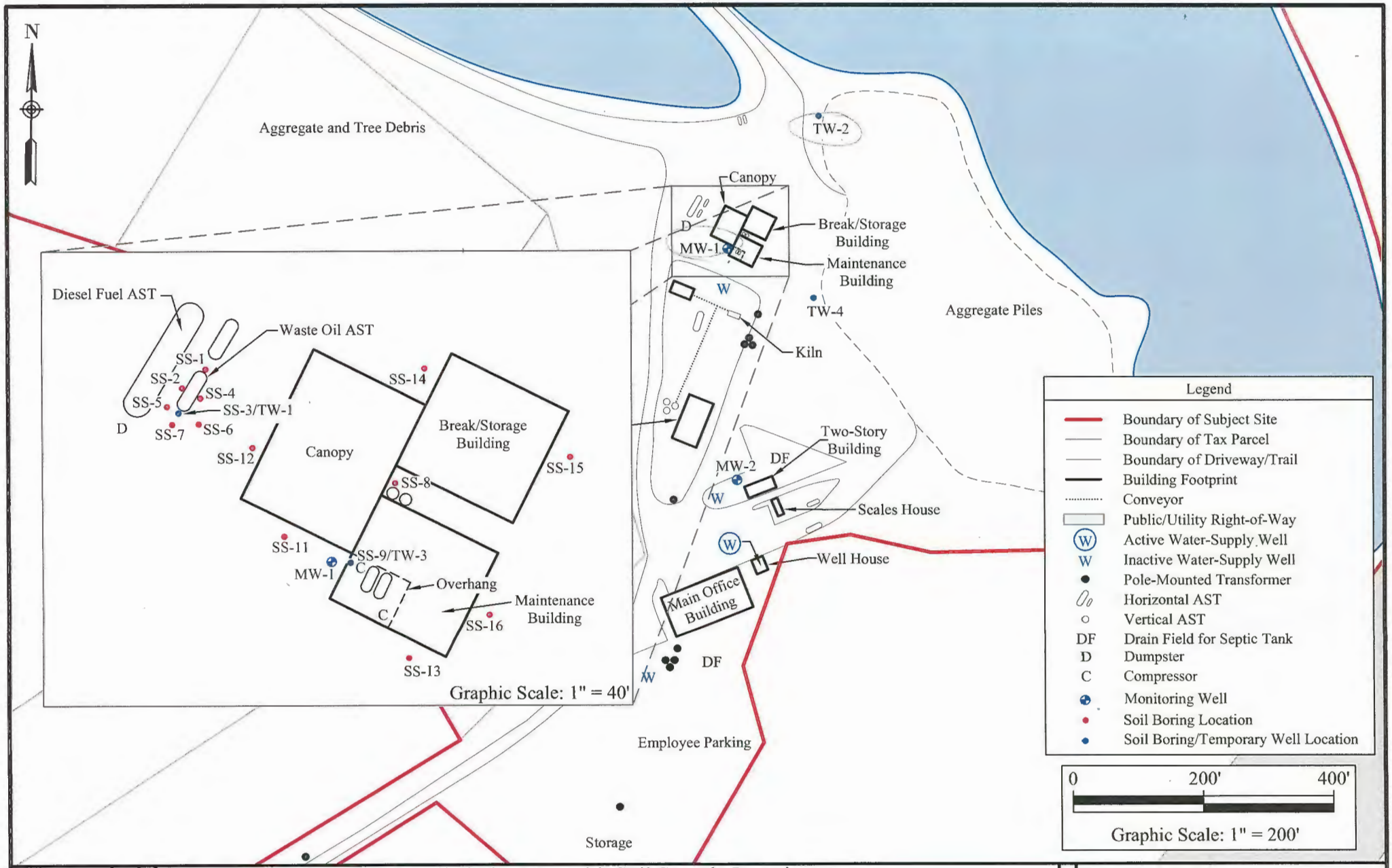
Site Topographic Map

Wilmington Materials
New Hanover County, North Carolina

Drawn By:	Checked By:	Project Number:	Date:	References:
wmf	RAC	201214	March 2012	MapCard: Castle Hayne, 1970
Scale:	Size:	Layers:	Filename:	
1" = 2,000'	8.5" x 11"	0,1,21	P:\Wyrick Robbins\Wilmington Materials - 201214\CAD\Figure 1	

Figure

1



2

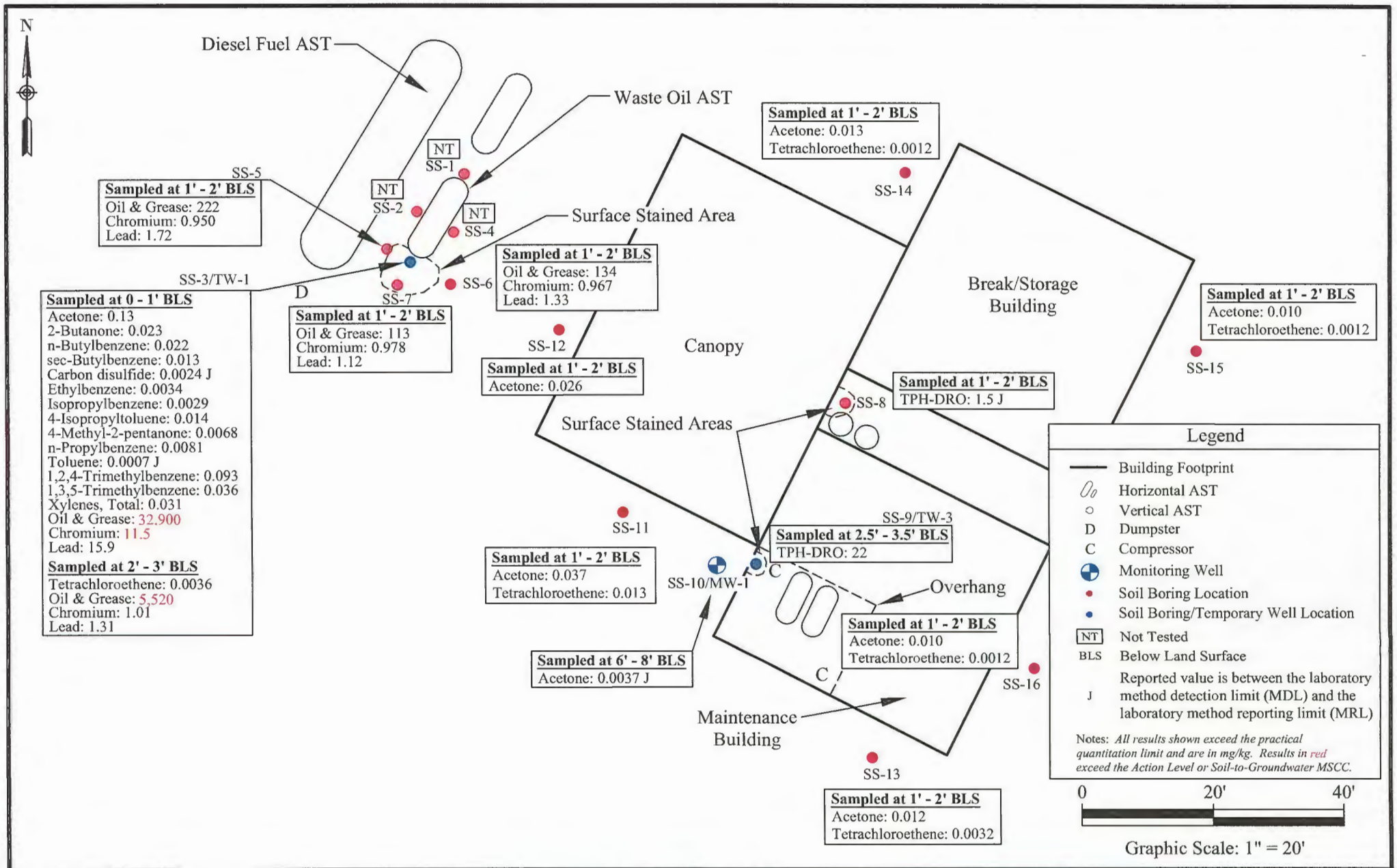
Figure

Detailed Site Map with Soil Sample Locations

Wilmington Materials
New Hanover County, North Carolina

Drawn By:	Checked By:	Project Number:	Date:	Reference:
wmf/jak	RAC	201214	June 2012	New Hanover County GIS, Google Earth Aerial Photograph Dated 10/22/10, and Field Notes
Scale: 1" = 200'	Size: 8.5" x 11"	Layers: 0,1,21,25,28,29,30,31	Filename: P:\Wyrick Robbins\Wilmington Materials - 201214\CAD\Site Maps\200 Scale Site Map	

DUNCKLEE & DUNHAM
ENVIRONMENTAL CONSULTING & ENGINEERING
511 Keisler Drive Suite 102
Cary, North Carolina 27518
NC Eng. License No. C-3559
(919) 858-9898
www.dunckleedunham.com
NC Geo. License No. C-261



3

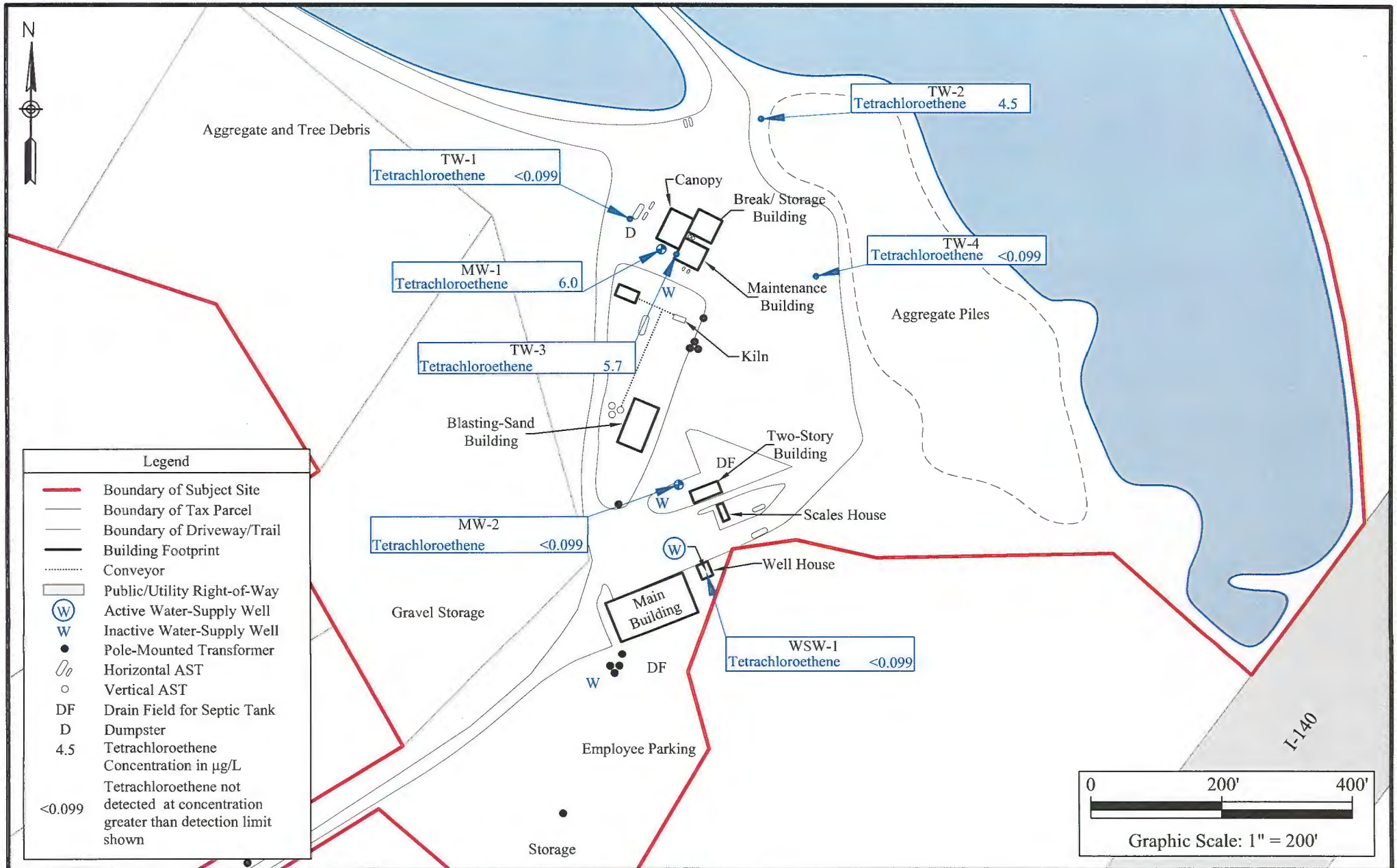
Figure

Soil Results Map - May and June 2012

Wilmington Materials
New Hanover County, North Carolina

Drawn By:	Checked By:	Project Number:	Date:	Reference:
wmf/jak	RAC	201214	June 2012	New Hanover County GIS, Google Earth Aerial Photograph Dated 10/22/10, and Field Notes
Scale: 1" = 20'	Size: 8.5" x 11"	Layers: 0,1,2,21,29,30,31,32	Filename: P:\Wyrick Robbins\Wilmington Materials - 201214\CAD\Fig 3 - Ph II\20 scale map	

DUNCKLEE & DUNHAM
ENVIRONMENTAL CONSULTING & ENGINEERING
511 Keisler Drive Suite 102
Cary, North Carolina 27518
NC Eng. License No. C-3559
(919) 858-9898
www.dunckleedunham.com
NC Geo. License No. C-261



4

Figure

Tetrachloroethene Results Map

Wilmington Materials
New Hanover County, North Carolina

Drawn By:	Checked By:	Project Number:	Date:	Reference:
wmf/baj	BAC	201214	July 2012	New Hanover County GIS, Google Earth Aerial Photograph Dated 10/22/10, Field Notes, and Lab Reports
Scale: 1" = 200'	Size: 8.5" x 11"	Layers: 0,1,21,25	Filename: P:\Wyrick Robbins\Wilmington Materials - 201214\CAD\Figure 2	

DUNCKLEE & DUNHAM
ENVIRONMENTAL CONSULTING & ENGINEERING
511 Keisler Drive Suite 102
Cary, North Carolina 27518
NC Eng. License No. C-3559
(919) 858-9898
www.dunckleedunham.com
NC Geo. License No. C-261

Tables

Table 1
Laboratory Test Results - Soil Samples
Wilmington Materials
New Hanover County, North Carolina

Analyte	Sample Identification														Action Level	Soil-to-Groundwater MSCC
	SS-3	SS-3	SS-5	SS-6	SS-7	SS-8	SS-9	SS-10	SS-11	SS-12	SS-13	SS-14	SS-15	SS-16		
	Sample Date															
	5/16/2012	5/16/2012	5/16/2012	5/16/2012	5/16/2012	5/17/2012	5/17/2012	6/20/2012	6/20/2012	6/20/2012	6/20/2012	6/20/2012	6/20/2012	6/20/2012		
	Sample Depth (Ft. BLS)															
	0-1	2-3	1-2	1-2	1-2	1-2	2.5-3.5	6-8	1-2	1-2	1-2	1-2	1-2	1-2		
	FID Reading (ppm)															
TPH-Diesel Range Organics	NT	NT	NT	NT	NT	**1.5 J**	**22**	NT	NT	NT	NT	NT	NT	NT	40	NE
TPH-Gasoline Range Organics	NT	NT	NT	NT	NT	<1.5	<1.5	NT	NT	NT	NT	NT	NT	NT	10	NE
Volatile Organic Compounds - EPA 8260B																
Acetone	**0.13**	<0.0018	<0.0022	<0.0018	<0.0018	NT	NT	**0.0037 J**	**0.037**	**0.026**	**0.012**	**0.013**	**0.010**	**0.022**	NE	24 24
2-Butanone	**0.023**	<0.0019	<0.0023	<0.0019	<0.0019	NT	NT	<0.00084	<0.00083	<0.00080	<0.00082	<0.00084	<0.00081	<0.00082	NE	16
n-Butylbenzene	**0.022**	<0.0009	<0.0012	<0.0009	<0.0009	NT	NT	<0.00014	<0.00014	<0.00013	<0.00014	<0.00014	<0.00014	<0.00014	NE	4.3
sec-Butylbenzene	**0.013**	<0.0007	<0.0008	<0.0007	<0.0007	NT	NT	<0.0010	<0.0010	<0.00097	<0.0010	<0.0010	<0.0010	<0.00099	NE	3.3
Carbon disulfide	**0.0024 J**	<0.0022	<0.0027	<0.0022	<0.0023	NT	NT	<0.00042	<0.00042	<0.00040	<0.00041	<0.00042	<0.00042	<0.00041	NE	4.3
Ethylbenzene	**0.0034**	<0.0006	<0.0007	<0.0006	<0.0006	NT	NT	<0.00021	<0.00021	<0.00020	<0.00021	<0.00022	<0.00022	<0.00021	NE	4.9
Isopropylbenzene	**0.0029**	<0.0006	<0.0007	<0.0006	<0.0006	NT	NT	<0.00016	<0.00016	<0.00015	<0.00016	<0.00016	<0.00016	<0.00016	NE	1.7
4-Isopropyltoluene	**0.014**	<0.0008	<0.0010	<0.0008	<0.0008	NT	NT	<0.00017	<0.00017	<0.00016	<0.00017	<0.00017	<0.00017	<0.00017	NE	NE
4-Methyl-2-pentanone	**0.0068**	<0.0015	<0.0018	<0.0015	<0.0015	NT	NT	<0.00061	<0.00061	<0.00058	<0.00060	<0.00061	<0.00061	<0.00060	NE	NE
n-Propylbenzene	**0.0081**	<0.0007	<0.0008	<0.0007	<0.0007	NT	NT	<0.00019	<0.00019	<0.00018	<0.00019	<0.00019	<0.00014	<0.00019	NE	1.7
Toluene	**0.0007 J**	<0.0005	<0.0006	<0.0005	<0.0005	NT	NT	<0.00026	<0.00026	<0.00025	<0.00025	<0.00026	<0.00026	<0.00025	NE	4.3
1,2,4-Trimethylbenzene	**0.093**	<0.0007	<0.0009	<0.0007	<0.0007	NT	NT	<0.00018	<0.00018	<0.00017	<0.00018	<0.00018	<0.00018	<0.00018	NE	8.5
1,3,5-Trimethylbenzene	**0.036**	<0.0006	<0.0008	<0.0006	<0.0006	NT	NT	<0.00021	<0.00021	<0.00020	<0.00021	<0.00022	<0.00022	<0.00021	NE	8.3
Tetrachloroethene	<0.0006	**0.0036**	<0.0006	<0.0005	<0.0005	NT	NT	<0.00030	**0.013**	<0.00030	**0.0032**	**0.0012**	**0.0012**	**0.0025**	NE	0.019 0.005 /82
Xylenes, total	**0.031**	<0.0010	<0.0013	<0.0010	<0.0011	NT	NT	<0.00060	<0.00060	<0.00057	<0.00059	<0.00060	<0.00060	<0.00059	NE	4.6
Oil and Grease - EPA 9071B																
Oil & Grease	**32,900**	**5,520**	**222**	**134**	**113**	NT	NT	NT	NT	NT	NT	NT	NT	NT	250	NE
Metals - EPA 6010C																
Chromium	**11.5**	**1.01**	**0.950**	**0.967**	**0.978**	NT	NT	NT	NT	NT	NT	NT	NT	NT	NE	5.4 3.8
Lead	**15.9**	**1.31**	**1.72**	**1.33**	**1.12**	NT	NT	NT	NT	NT	NT	NT	NT	NT	NE	270 270

Notes:
All results in mg/kg
Samples from SS-1, -2 and -4 were not tested in the laboratory.
MSCC - Maximum Soil Contaminant Concentration
VOCs - Volatile Organic Compounds
ppm - parts per million
Ft. BLS - Feet Below Land Surface
Result in bold exceeds the practical quantitation limit
Result in bold and shaded exceeds the action level or Soil-to-Groundwater MSCC
NT - Sample not tested for this analyte
NE - Not Established
J - The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL).
< # - analyte not detected at a concentration that exceeds the detection level shown

Table 2
Laboratory Test Results - Groundwater Samples
Wilmington Materials
New Hanover County, North Carolina

Analyte	Sample Identification							2L Standard
	TW-1	TW-2	TW-3	TW-4	WSW-1	MW-1	MW-2	
	Sample Date							
	5/17/2012	5/17/2012	5/17/2012	6/20/2012	5/17/2012	6/26/2012	6/26/2012	
Volatile Organic Compounds - SM 6200B								
Tetrachloroethene	<0.13	**4.5**	**5.7**	<0.13	<0.099	**6.0**	<0.099	0.7
Toluene	<0.053	<0.053	<0.053	**0.40** J	<0.053	<0.053	<0.053	600
Semivolatile Organic Compounds - EPA Method 625								
Diethylphthalate	**3.7** J	<2.1	<2.1	NT	<2.1	NT	NT	6,000
Di-n-butylphthalate	**1.6** J	<1.5	<1.5	NT	<1.5	NT	NT	700
Bis(2-ethylhexyl)phthalate	<1.7	<1.7	**21**	NT	**3.9** J	NT	NT	3

Notes:
2L Standard - North Carolina Groundwater Quality Standard (15A NCAC 2L .0202)
All results in µg/L
*Result in **bold** exceeds the method detection limit (MDL)*
*Result in **bold** and shaded exceeds the 2L Standard*
< # - analyte not detected at a concentration that exceeds the MDL shown
J - The reported value is between the MDL and the laboratory method reporting limit.
NT - Sample not tested for this analyte

Boring/Well Construction Log

Duncklee & Dunham, P.C.

I. D. Number	*TW-1*	**Purpose**	*Groundwater Monitoring*
Project Name	*Wilmington Materials Plant #1*	**Contractor**	*NA*
Project No.	*201214*	**Registration No.**	*3457-A*
Geologist	*Jayson Kilcoyne*	**Driller**	*Jayson Kilcoyne*
Start Date	*5/16/2012* **Complete Date** *5/17/2012*	**Equipment**	*Hand Auger*

Drilling Method *The boring was advanced with a hand auger.*

Comments

Well Construction Information		Depth (ft.) From - To	Lithology	FID / PID (ppm) @ Depth (ft.)
Borehole Diameter	*3-inch*	*0 - 1*	*Sandy Gravel*	*1.5*
Riser Type	*NA*		*Soil staining present*	
Diameter	*NA*			
Screen Type	*Schedule 40*	*1 - 3*	*Dark brown to brown, fg-mg Sand with few Gravel (SW)*	*0*
Diameter	*1-inch*			
Riser Interval	*NA*	*3 - 11*	*Tan in color, fg-mg Silty Sand (SM)*	*0*
Screen Interval	*NA*			
Slot Size	*0.01-inch*	*11 - 12*	*Gray/tan colored Sandy Clay with little fg-mg Sand (CL)*	*NA*
Grout Type	*NA*			
Interval	*NA*	*12 - 13*	*Tan/yellowish orange, fg-cg Silty Clayey Sand (SC), saturated*	*NA*
Bentonite Type	*NA*			
Interval	*NA*		*Boring terminated at 13 feet below land surface*	
Filter Pack	*NA*			
Interval	*NA*			
Total Depth	*13 feet*			
R.P. Elevation	*NA*			
Datum	*Top of casing*			

Water Level Information

Date	W.L. Below R.P.
5/17/2012	12.20 feet

R.P. = Reference Point *W.L. = Water Level* *TBM = Temporary Benchmark* *MSL = Mean Sea Level*

NA = Not Applicable *fg = fine grained, mg = medium grained*

Boring/Well Construction Log

Duncklee & Dunham, P.C.

I. D. Number	*TW-2*	**Purpose**	*Groundwater Monitoring*
Project Name	*Wilmington Materials Plant #1*	**Contractor**	*NA*
Project No.	*201214*	**Registration No.**	*3457-A*
Geologist	*Jayson Kilcoyne*	**Driller**	*Jayson Kilcoyne*
Start Date	*5/16/2012* **Complete Date** *5/16/2012*	**Equipment**	*Hand Auger*

Drilling Method *The boring was advanced with a hand auger.*

Comments

Well Construction Information		Depth (ft.) From - To	Lithology	FID / PID (ppm) @ Depth (ft.)
Borehole Diameter	*3-inch*	*0 - 2*	*Brown, fg-mg Silty Sand (SM)*	*NA*
Riser Type	*NA*			
Diameter	*NA*	*2 - 9*	*Tan in color, fg-mg Silty Sand (SM)*	*NA*
Screen Type	*Schedule 40*			
Diameter	*1-inch*	*9 - 10*	*Tan/yellowish orange, fg-cg Silty Clayey Sand (SC), saturated*	*NA*
Riser Interval	*NA*			
Screen Interval	*NA*		*Boring terminated at 10 feet below land surface*	*NA*
Slot Size	*0.01-inch*			
Grout Type	*NA*			
Interval	*NA*			
Bentonite Type	*NA*			
Interval	*NA*			
Filter Pack	*NA*			
Interval	*NA*			
Total Depth	*10 feet*			
R.P. Elevation	*NA*			
Datum	*Top of casing*			

Water Level Information

Date	W.L. Below R.P.
5/17/2012	9.45 feet

R.P. = Reference Point *W.L. = Water Level* *TBM = Temporary Benchmark* *MSL = Mean Sea Level*

NA = Not Applicable *fg = fine grained, mg = medium grained*

Boring/Well Construction Log

Duncklee & Dunham, P.C.

I. D. Number	*TW-3*	**Purpose**	*Groundwater Monitoring*
Project Name	*Wilmington Materials Plant #1*	**Contractor**	*NA*
Project No.	*201214*	**Registration No.**	*3457-A*
Geologist	*Jayson Kilcoyne*	**Driller**	*Jayson Kilcoyne*
Start Date	*5/17/2012* **Complete Date** *5/17/2012*	**Equipment**	*Hand Auger*

Drilling Method *The boring was advanced with a hand auger.*

Comments

Well Construction Information		Depth (ft.) From - To	Lithology	FID / PID (ppm) @ Depth (ft.)
Borehole Diameter	*3-inch*	*0 - 2*	*Sandy Gravel*	*0.3*
Riser Type	*NA*		*Soil staining present*	*0.4 (1-2 feet)*
Diameter	*NA*			
Screen Type	*Schedule 40*	*2 - 2.5*	*Dark gray/brown, fg-mg Sand with few Gravel (SW)*	*0.3*
Diameter	*1-inch*		*Soil staining present*	
Riser Interval	*NA*			
Screen Interval	*NA*	*2.5 - 3.5*	*Brown/light brown in color, fg-mg Silty Sand (SM)*	*0*
Slot Size	*0.01-inch*			
Grout Type	*NA*	*3.5 - 11*	*Tan in color, fg-mg Silty Sand (SM)*	*NA*
Interval	*NA*			
Bentonite Type	*NA*	*11 - 12*	*Gray/tan colored Sandy Clay with little fg-mg Sand (CL)*	*NA*
Interval	*NA*			
Filter Pack	*NA*	*12 - 13.8*	*Tan/yellowish orange, fg-cg Silty Clayey Sand (SC), saturated*	*NA*
Interval	*NA*			
Total Depth	*13.8 feet*		*Boring terminated at 13.8 feet below land surface*	
R.P. Elevation	*NA*			
Datum	*Top of casing*			

Water Level Information

Date	W.L. Below R.P.
5/17/2012	13.00 feet

R.P. = Reference Point *W.L. = Water Level* *TBM = Temporary Benchmark* *MSL = Mean Sea Level*

NA = Not Applicable *fg = fine grained, mg = medium grained*

Boring/Well Construction Log

Duncklee & Dunham, P.C.

I. D. Number	*TW-4*	**Purpose**	*Groundwater Monitoring*
Project Name	*Wilmington Materials Plant #1*	**Contractor**	*SAEDACCO*
Project No.	*201214*	**Registration No.**	*3351*
Geologist	*Jayson Kilcoyne*	**Driller**	*Michael Wilson*
Start Date	*6/20/2012* **Complete Date** *6/20/2012*	**Equipment**	*Mobile B-57*

Drilling Method	*The well boring was drilled with 4.25-inch ID hollow-stem augers.*
Comments	*Soil type observations made from auger cuttings.*

Well Construction Information		**Depth (ft.) From - To**	**Lithology**	**FID / PID (ppm) @ Depth (ft.)**
Borehole Diameter	*8-inch*	*0 - 2*	*Gravel/asphalt, compacted*	*NA*
Riser Type	*Schedule 40*			
Diameter	*2-inch*	*2 - 3*	*Gray/brown, mg-cg Silty Sand with few Gravel (SM)*	
Screen Type	*Schedule 40*			
Diameter	*1-inch*	*3 - 11*	*Tan in color, fg-mg Silty Sand (SM)*	
Riser Interval	*0 - 5 feet*			
Screen Interval	*5 - 15 feet*	*11 - 12*	*Gray/tan colored Sandy Clay with little fg-mg Sand (CL)*	
Slot Size	*0.01-inch*			
Grout Type	*NA*	*12 - 15*	*Tan/yellowish orange, fg-cg Silty Clayey Sand (SC), saturated*	
Interval	*NA*			
Bentonite Type	*NA*		*Boring terminated at 15 feet below land surface*	
Interval	*NA*			
Filter Pack	*No.2 filter sand*			
Interval	*4 - 15 feet*			
Total Depth	*15 feet*			
R.P. Elevation	*NA*			
Datum	*Ground surface*			

Water Level Information

Date	**W.L. Below R.P.**
6/20/2012	11.94 feet

R.P. = Reference Point *W.L. = Water Level* *TBM = Temporary Benchmark* *MSL = Mean Sea Level*

NA = Not Applicable *fg = fine grained, mg = medium grained*

Boring/Well Construction Log

Duncklee & Dunham, P.C.

I. D. Number	*MW-1*	**Purpose**	*Groundwater Monitoring*
Project Name	*Wilmington Materials Plant #1*	**Contractor**	*SAEDACCO*
Project No.	*201214*	**Registration No.**	*3351*
Geologist	*Jayson Kilcoyne*	**Driller**	*Michael Wilson*
Start Date	*6/20/2012* **Complete Date** *6/20/2012*	**Equipment**	*Mobile B-57*

Drilling Method	*The well boring was drilled with 4.25-inch ID hollow-stem augers.*
Comments	*A split spoon was advanced from 4 to 12 feet below ground surface prior to augering the well.*

Well Construction Information		Depth (ft.) From - To	Lithology	FID / PID (ppm) @ Depth (ft.)
Borehole Diameter	*8-inch*	*0 - 2*	*Sandy Gravel*	*NA*
Riser Type	*Schedule 40*			
Diameter	*2-inch*	*2 - 2.5*	*Gray/brown, fg-mg Sand with few Gravel (SW)*	*NA*
Screen Type	*Schedule 40*			
Diameter	*1-inch*	*2.5 - 3.5*	*Brown/light brown in color, fg-mg Silty Sand (SM)*	*NA*
Riser Interval	*0 - 5 feet*			
Screen Interval	*5 - 15 feet*	*3.5 - 11*	*Tan in color, fg-mg Silty Sand (SM)*	*50.8 (4')*
Slot Size	*0.01-inch*			*32.6 (6')*
Grout Type	*Portland*			*57.2 (8')*
Interval	*0 - 3*	*11 - 12*	*Gray/tan colored Sandy Clay with little fg-mg Sand (CL)*	*134*
Bentonite Type	*Chips*			
Interval	*3 - 4*	*12 - 15*	*Tan/yellowish orange, fg-cg Silty Clayey Sand (SC), saturated*	*NA*
Filter Pack	*No.2 filter sand*			
Interval	*4 - 15 feet*		*Boring terminated at 15 feet below land surface*	
Total Depth	*15 feet*			
R.P. Elevation	*NA*			
Datum	*Top of casing*			

Water Level Information

Date	W.L. Below R.P.
6/20/2012	12.10 feet

R.P. = Reference Point *W.L. = Water Level* *TBM = Temporary Benchmark* *MSL = Mean Sea Level*

NA = Not Applicable *fg = fine grained, mg = medium grained*

Boring/Well Construction Log

Duncklee & Dunham, P.C.

I. D. Number	*MW-2*	**Purpose**	*Groundwater Monitoring*
Project Name	*Wilmington Materials Plant #1*	**Contractor**	*SAEDACCO*
Project No.	*201214*	**Registration No.**	*3351*
Geologist	*Jayson Kilcoyne*	**Driller**	*Michael Wilson*
Start Date	*6/20/2012* **Complete Date** *6/20/2012*	**Equipment**	*Mobile B-57*

Drilling Method *The well boring was drilled with 4.25-inch ID hollow-stem augers.*

Comments

Well Construction Information		Depth (ft.) From - To	Lithology	FID / PID (ppm) @ Depth (ft.)
Borehole Diameter	*8-inch*	*0 - 0.5*	*Grass/topsoil*	*NA*
Riser Type	*Schedule 40*			
Diameter	*2-inch*	*0.5 - 4*	*Brown/light brown in color, fg-mg Silty Sand (SM)*	
Screen Type	*Schedule 40*			
Diameter	*1-inch*	*4 - 10.5*	*Tan in color, fg-mg Silty Sand (SM)*	
Riser Interval	*0 - 5 feet*			
Screen Interval	*5 - 15 feet*	*10.5 - 11.5*	*Gray/tan colored Sandy Clay with little fg-mg Sand (CL)*	
Slot Size	*0.01-inch*			
Grout Type	*Portland*	*11.5 - 15*	*Tan/yellowish orange, fg-cg Silty Clayey Sand (SC), saturated*	
Interval	*0 - 3*			
Bentonite Type	*Chips*		*Boring terminated at 15 feet below land surface*	
Interval	*3 - 4*			
Filter Pack	*No.2 filter sand*			
Interval	*4 - 15 feet*			
Total Depth	*15 feet*			
R.P. Elevation	*NA*			
Datum	*Top of casing*			

Water Level Information

Date	W.L. Below R.P.
6/20/2012	11.50 feet

R.P. = Reference Point *W.L. = Water Level* *TBM = Temporary Benchmark* *MSL = Mean Sea Level*

NA = Not Applicable *fg = fine grained, mg = medium grained*

NON RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 3351

1. WELL CONTRACTOR:

Michael Wilson
Well Contractor (Individual) Name

SAEDACCO Inc
Well Contractor Company Name

STREET ADDRESS 9088 northfield dr.

ft.mill | sc | 29707
City or Town | State | Zip Code

(____)- (704) 507-4873
Area code- Phone number

2. WELL INFORMATION:

SITE WELL ID #(if applicable) mw 01

STATE WELL PERMIT#(if applicable)

DWQ or OTHER PERMIT #(if applicable)

WELL USE (Check Applicable Box) Monitoring ☒ Municipal/Public ☐ Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐ Irrigation ☐ Other ☐ (list use)

DATE DRILLED 6-20-12

TIME COMPLETED 10 ;30 AM ☒ PM ☐

3. WELL LOCATION:

CITY: wilmington COUNTY new hanover

3612 us-421
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING:
☐ Slope ☐ Valley ☒ Flat ☐ Ridge ☐ Other
(check appropriate box)

LATITUDE 33,29467

LONGITUDE 77,97245

May be in degrees, minutes, seconds or in a decimal format

Latitude/longitude source: ☒ GPS ☐ Topographic map
(location of well must be shown on a USGS topo map and attached to this form if not using GPS)

4. FACILITY- is the name of the business where the well is located.

FACILITY ID #(if applicable)

NAME OF FACILITY wilington materials

STREET ADDRESS 3612 us-421

wilmington | nc | 28401
City or Town | State | Zip Code

CONTACT PERSON jason kilcoyne

MAILING ADDRESS 911 keisler dr,

cary | nc | 27518
City or Town | State | Zip Code

(919)- 858-9898
Area code - Phone number

5. WELL DETAILS:

a. **TOTAL DEPTH:** 15

b. **DOES WELL REPLACE EXISTING WELL?** YES ☐ NO ☒

c. **WATER LEVEL** Below Top of Casing: ____ FT.
(Use "+" if Above Top of Casing)

d. **TOP OF CASING IS** 0 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.

e. **YIELD (gpm):** ____ **METHOD OF TEST** ____

f. **DISINFECTION: Type** ____ **Amount** ____

g. **WATER ZONES** (depth):

From __ To __ From __ To __
From __ To __ From __ To __
From __ To __ From __ To __

6. CASING:

	Depth		Diameter	Thickness/ Weight	Material
From 5	To 0	Ft.	2"	SHC 40	PVC
From	To	Ft.			
From	To	Ft.			

7. GROUT:

	Depth		Material	Method
From 3'	To 0	Ft.	portland	trimmie
From	To	Ft.		
From	To	Ft.		

8. SCREEN:

	Depth		Diameter		Slot Size		Material
From 15	To 5'	Ft.	2"	in.	10	in.	PVC
From	To	Ft.		in.		in.	
From	To	Ft.		in.		in.	

9. SAND/GRAVEL PACK:

	Depth		Size	Material
From 15'	To 4'	Ft.	#2	sand
From	To	Ft.		
From	To	Ft.		

10. DRILLING LOG

From	To	Formation Description
0	15	TAN, AND BROWN SIlt

11. REMARKS:

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Micheal Wilson — 6-20-12
SIGNATURE OF CERTIFIED WELL CONTRACTOR — DATE

micheal wilson
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit the original to the Division of Water Quality within 30 days. Attn: Information Mgt., 1617 Mail Service Center – Raleigh, NC 27699-1617 Phone No. (919) 733-7015 ext 568.

Form GW-1b
Rev. 7/05

NON RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 3351

1. WELL CONTRACTOR:

Michael Wilson
Well Contractor (Individual) Name

SAEDACCO Inc
Well Contractor Company Name

STREET ADDRESS 9088 northfield dr.

ft.mill | sc | 29707
City or Town | State | Zip Code

( ) - (704) 507-4873
Area code- Phone number

2. WELL INFORMATION:

SITE WELL ID #(if applicable) mw 2

STATE WELL PERMIT#(if applicable)

DWQ or OTHER PERMIT #(if applicable)

WELL USE (Check Applicable Box) Monitoring ☒ Municipal/Public ☐ Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐ Irrigation ☐ Other ☐ (list use)

DATE DRILLED 6-20-12

TIME COMPLETED 12 ;30 AM ☐ PM ☒

3. WELL LOCATION:

CITY: wilmington COUNTY new hanover

3612 us-421
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING:
☐ Slope ☐ Valley ☒ Flat ☐ Ridge ☐ Other
(check appropriate box)

LATITUDE 33,29467

LONGITUDE 77,97245

May be in degrees, minutes, seconds or in a decimal format

Latitude/longitude source: ☒ GPS ☐ Topographic map
(location of well must be shown on a USGS topo map and attached to this form if not using GPS)

4. FACILITY- Is the name of the business where the well is located.

FACILITY ID #(if applicable)

NAME OF FACILITY wilington materials

STREET ADDRESS 3612 us-421

wilmington | nc | 28401
City or Town | State | Zip Code

CONTACT PERSON jason kilcoyne

MAILING ADDRESS 911 keisler dr,

cary | nc | 27518
City or Town | State | Zip Code

(919)- 858-9898
Area code - Phone number

5. WELL DETAILS:

a. **TOTAL DEPTH:** 15

b. **DOES WELL REPLACE EXISTING WELL?** YES ☐ NO ☒

c. **WATER LEVEL** Below Top of Casing: _____ FT.
(Use "+" if Above Top of Casing)

d. **TOP OF CASING IS** 0 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.

e. **YIELD (gpm):** _____ **METHOD OF TEST** _____

f. **DISINFECTION: Type** _____ **Amount** _____

g. **WATER ZONES** (depth):

From ____ To ____ From ____ To ____
From ____ To ____ From ____ To ____
From ____ To ____ From ____ To ____

6. CASING:

	Depth		Diameter	Thickness/ Weight	Material
From 5	To 0	Ft.	2"	SHC 40	PVC
From	To	Ft.			
From	To	Ft.			

7. GROUT:

	Depth		Material	Method
From 3'	To 0	Ft.	portland	trimmie
From	To	Ft.		
From	To	Ft.		

8. SCREEN:

	Depth		Diameter	Slot Size	Material
From 15	To 5'	Ft.	2" in.	10 in.	PVC
From	To	Ft.	in.	in.	
From	To	Ft.	in.	in.	

9. SAND/GRAVEL PACK:

	Depth		Size	Material
From 15'	To 4'	Ft.	#2	sand
From	To	Ft.		
From	To	Ft.		

10. DRILLING LOG

From	To	Formation Description
0	15	TAN, AND BROWN SIlt

11. REMARKS:

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Micheal Wilson — 6-20-12
SIGNATURE OF CERTIFIED WELL CONTRACTOR — DATE

micheal wilson
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit the original to the Division of Water Quality within 30 days. Attn: Information Mgt., 1617 Mail Service Center – Raleigh, NC 27699-1617 Phone No. (919) 733-7015 ext 568.

Form GW-1b
Rev. 7/05

Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515
www.encolabs.com

Thursday, May 31, 2012

Duncklee & Dunham, PC (DU009)

Attn: Rick Kolb

511 Keisler Drive, Suite 102

Cary, NC 27518

RE: Laboratory Results for
Project Number: 201214, Project Name/Desc: Wilmington Materials
ENCO Workorder(s): C205559

Dear Rick Kolb,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Friday, May 18, 2012.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chuck Smith

Chuck Smith
Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 71.

www.encolabs.com

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: SS-8 1-2 | **Lab ID: C205559-01** | **Sampled: 05/17/12 08:15** | **Received: 05/18/12 11:45**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8015C	05/31/12		05/24/12	08:42	5/24/2012 15:46
EPA 8015C	05/31/12	07/03/12	05/24/12	12:44	5/29/2012 12:08

Client ID: SS-9 2.5-3.5 | **Lab ID: C205559-02** | **Sampled: 05/17/12 08:40** | **Received: 05/18/12 11:45**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8015C	05/31/12		05/24/12	08:42	5/24/2012 16:18
EPA 8015C	05/31/12	07/03/12	05/24/12	12:44	5/29/2012 12:38

Client ID: SS-3 0-1' | **Lab ID: C205559-03** | **Sampled: 05/16/12 12:30** | **Received: 05/18/12 11:45**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	11/12/12		05/22/12	08:38	5/23/2012 13:02
EPA 8260B	05/30/12		05/25/12	13:56	5/26/2012 04:25

Client ID: SS-3 0-1' | **Lab ID: C205559-03RE1** | **Sampled: 05/16/12 12:30** | **Received: 05/18/12 11:45**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 9071B	06/13/12		05/29/12	10:31	5/31/2012 13:07

Client ID: SS-3 2-3' | **Lab ID: C205559-04** | **Sampled: 05/16/12 12:45** | **Received: 05/18/12 11:45**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	11/12/12		05/22/12	08:38	5/23/2012 13:22
EPA 8260B	05/30/12		05/25/12	13:56	5/26/2012 04:55

Client ID: SS-3 2-3' | **Lab ID: C205559-04RE1** | **Sampled: 05/16/12 12:45** | **Received: 05/18/12 11:45**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 9071B	06/13/12		05/29/12	10:31	5/31/2012 13:07

Client ID: SS-5 1-2 | **Lab ID: C205559-05** | **Sampled: 05/16/12 14:00** | **Received: 05/18/12 11:45**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	11/12/12		05/22/12	08:38	5/23/2012 13:24
EPA 8260B	05/30/12		05/25/12	13:56	5/26/2012 05:25
EPA 9071B	06/13/12		05/29/12	10:31	5/31/2012 13:07

www.encolabs.com

Client ID: SS-6 1-2'	Lab ID: C205559-06	Sampled: 05/16/12 15:00	Received: 05/18/12 11:45

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	11/12/12		05/22/12	08:38	5/23/2012 13:26
EPA 8260B	05/30/12		05/25/12	13:56	5/26/2012 05:56
EPA 9071B	06/13/12		05/29/12	10:31	5/31/2012 13:07

Client ID: SS-7 1-2'	Lab ID: C205559-07	Sampled: 05/16/12 15:50	Received: 05/18/12 11:45

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	11/12/12		05/22/12	08:38	5/23/2012 13:28
EPA 8260B	05/30/12		05/25/12	13:56	5/26/2012 06:26
EPA 9071B	06/13/12		05/29/12	10:31	5/31/2012 13:07

Client ID: TW-1	Lab ID: C205559-08	Sampled: 05/17/12 12:15	Received: 05/18/12 11:45

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 625	05/24/12	07/03/12	05/24/12	14:12	5/25/2012 03:36
SM21 6200B	05/31/12		05/29/12	09:12	5/29/2012 17:08

Client ID: TW-2	Lab ID: C205559-09	Sampled: 05/17/12 11:25	Received: 05/18/12 11:45

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 625	05/24/12	07/03/12	05/24/12	14:12	5/25/2012 04:03
SM21 6200B	05/31/12		05/29/12	09:12	5/29/2012 17:38

Client ID: TW-3	Lab ID: C205559-10	Sampled: 05/17/12 14:05	Received: 05/18/12 11:45

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 625	05/24/12	07/03/12	05/24/12	14:12	5/25/2012 04:30
SM21 6200B	05/31/12		05/29/12	09:12	5/29/2012 18:07

Client ID: WSW-1	Lab ID: C205559-11	Sampled: 05/17/12 15:25	Received: 05/18/12 11:45

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 625	05/24/12	07/03/12	05/24/12	14:12	5/25/2012 04:58
SM21 6200B	05/31/12		05/29/12	09:12	5/29/2012 18:37

Client ID: Trip Blank	Lab ID: C205559-12	Sampled: 05/17/12 15:30	Received: 05/18/12 11:45

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
SM21 6200B	05/31/12		05/29/12	09:12	5/29/2012 19:07

SAMPLE DETECTION SUMMARY

Client ID: SS-8 1-2 Lab ID: C205559-01

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
DRO (C10-C28)	1.5	J	0.84	3.5	mg/kg dry	EPA 8015C	

Client ID: SS-9 2.5-3.5 Lab ID: C205559-02

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
DRO (C10-C28)	22		0.81	3.4	mg/kg dry	EPA 8015C	

Client ID: SS-3 0-1' Lab ID: C205559-03

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,2,4-Trimethylbenzene	0.093		0.0008	0.0011	mg/kg dry	EPA 8260B	
1,3,5-Trimethylbenzene	0.036		0.0007	0.0011	mg/kg dry	EPA 8260B	
2-Butanone	0.023		0.0020	0.0057	mg/kg dry	EPA 8260B	
4-Isopropyltoluene	0.014		0.0009	0.0011	mg/kg dry	EPA 8260B	
4-Methyl-2-pentanone	0.0068		0.0016	0.0057	mg/kg dry	EPA 8260B	
Acetone	0.13		0.0019	0.0057	mg/kg dry	EPA 8260B	
Carbon disulfide	0.0024	J	0.0024	0.0057	mg/kg dry	EPA 8260B	
Chromium - Total	11.5		0.113	0.567	mg/kg dry	EPA 6010C	
Ethylbenzene	0.0034		0.0006	0.0011	mg/kg dry	EPA 8260B	
Isopropylbenzene	0.0029		0.0006	0.0011	mg/kg dry	EPA 8260B	
Lead - Total	15.9		0.136	0.567	mg/kg dry	EPA 6010C	
m,p-Xylenes	0.017		0.0011	0.0023	mg/kg dry	EPA 8260B	
n-Butyl Benzene	0.022		0.0010	0.0011	mg/kg dry	EPA 8260B	
n-Propyl Benzene	0.0081		0.0007	0.0011	mg/kg dry	EPA 8260B	
o-Xylene	0.014		0.0006	0.0011	mg/kg dry	EPA 8260B	
sec-Butylbenzene	0.013		0.0007	0.0011	mg/kg dry	EPA 8260B	
Toluene	0.0007	J	0.0005	0.0011	mg/kg dry	EPA 8260B	
Xylenes (Total)	0.031		0.0011	0.0023	mg/kg dry	EPA 8260B	

Client ID: SS-3 0-1' Lab ID: C205559-03RE1

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Oil & Grease (HEM-SGT) Non-Polar Material	32900		56.7	56.7	mg/kg dry	EPA 9071B	

Client ID: SS-3 2-3' Lab ID: C205559-04

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Chromium - Total	1.01		0.105	0.523	mg/kg dry	EPA 6010C	
Lead - Total	1.31		0.126	0.523	mg/kg dry	EPA 6010C	
Tetrachloroethene	0.0036		0.0005	0.0010	mg/kg dry	EPA 8260B	

Client ID: SS-3 2-3' Lab ID: C205559-04RE1

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Oil & Grease (HEM-SGT) Non-Polar Material	5520		52.3	52.3	mg/kg dry	EPA 9071B	

Client ID: SS-5 1-2' Lab ID: C205559-05

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Chromium - Total	0.950		0.129	0.644	mg/kg dry	EPA 6010C	
Lead - Total	1.72		0.154	0.644	mg/kg dry	EPA 6010C	
Oil & Grease (HEM-SGT) Non-Polar Material	222		64.4	64.4	mg/kg dry	EPA 9071B	

Client ID: SS-6 1-2 Lab ID: C205559-06

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Chromium - Total	0.967		0.105	0.525	mg/kg dry	EPA 6010C	
Lead - Total	1.33		0.126	0.525	mg/kg dry	EPA 6010C	
Oil & Grease (HEM-SGT) Non-Polar Material	134		52.5	52.5	mg/kg dry	EPA 9071B	

Client ID: SS-7 1-2 Lab ID: C205559-07

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Chromium - Total	0.978		0.107	0.536	mg/kg dry	EPA 6010C	
Lead - Total	1.12		0.129	0.536	mg/kg dry	EPA 6010C	
Oil & Grease (HEM-SGT) Non-Polar Material	113		53.6	53.6	mg/kg dry	EPA 9071B	

Client ID: TW-1 Lab ID: C205559-08

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Caprolactam	220	J			ug/L	EPA 625	
Diethylphthalate	3.7	J	2.1	10	ug/L	EPA 625	
Di-n-butylphthalate	1.6	J	1.5	10	ug/L	EPA 625	
Octadecanoic acid	9.6	J			ug/L	EPA 625	
Unknown (01)	16	JB			ug/L	EPA 625	B
Unknown (02)	9.7	J			ug/L	EPA 625	
Unknown (03)	12	J			ug/L	EPA 625	

Client ID: TW-2 Lab ID: C205559-09

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Caprolactam	41	J			ug/L	EPA 625	
Octadecanoic acid	5.8	J			ug/L	EPA 625	
Tetrachloroethene	4.5		0.099	1.0	ug/L	SM21 6200B	
Unknown (01)	13	JB			ug/L	EPA 625	B
Unknown (02)	4.1	J			ug/L	EPA 625	

Client ID: TW-3 Lab ID: C205559-10

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Bis(2-ethylhexyl)phthalate	21		1.7	5.0	ug/L	EPA 625	
Caprolactam	55	J			ug/L	EPA 625	
Tetrachloroethene	5.7		0.099	1.0	ug/L	SM21 6200B	
Unknown	16	JB			ug/L	EPA 625	B

Client ID: WSW-1 Lab ID: C205559-11

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Bis(2-ethylhexyl)phthalate	3.9	J	1.7	5.0	ug/L	EPA 625	
Unknown	16	JB			ug/L	EPA 625	B

www.encolabs.com

ANALYTICAL RESULTS

Description: SS-8 1-2
Matrix: Soil
Project: Wilmington Materials

Lab Sample ID: C205559-01
Sampled: 05/17/12 08:15
Sampled By: Jayson A. Kilcoyne

Received: 05/18/12 11:45
Work Order: C205559
% Solids: 93.1

Gasoline Range Organics by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
GRO (C6-C10) [ECL-0069] ^	1.5	U	mg/kg dry	1	1.5	5.9	2E24011	EPA 8015C	05/24/12 15:46	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,5-Dibromotoluene	*9.8*	*1*	*11.0*	*90 %*	*59-168*	*2E24011*	*EPA 8015C*	*05/24/12 15:46*	*jkg*	

www.encolabs.com

Description: SS-8 1-2
Matrix: Soil
Project: Wilmington Materials

Lab Sample ID: C205559-01
Sampled: 05/17/12 08:15
Sampled By: Jayson A. Kilcoyne

Received: 05/18/12 11:45
Work Order: C205559
% Solids: 93.1

Diesel Range Organics by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
DRO (C10-C28) [ECL-0057] ^	**1.5**	J	mg/kg dry	1	0.84	3.5	2E24027	EPA 8015C	05/29/12 12:08	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
o-Terphenyl	*1.3*	*1*	*1.79*	*73 %*	*51-138*	*2E24027*	*EPA 8015C*	*05/29/12 12:08*	*MSZ*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: SS-9 2.5-3.5
Matrix: Soil
Project: Wilmington Materials

Lab Sample ID: C205559-02
Sampled: 05/17/12 08:40
Sampled By: Jayson A. Kilcoyne

Received: 05/18/12 11:45
Work Order: C205559
% Solids: 95.9

Gasoline Range Organics by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
GRO (C6-C10) [ECL-0069] ^	1.5	U	mg/kg dry	1	1.5	5.7	2E24011	EPA 8015C	05/24/12 16:18	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,5-Dibromotoluene	*8.9*	*1*	*11.0*	*80 %*	*59-168*	*2E24011*	*EPA 8015C*	*05/24/12 16:18*	*jkg*	

www.encolabs.com

Description: SS-9 2.5-3.5
Matrix: Soil
Project: Wilmington Materials

Lab Sample ID: C205559-02
Sampled: 05/17/12 08:40
Sampled By: Jayson A. Kilcoyne

Received: 05/18/12 11:45
Work Order: C205559
% Solids: 95.9

Diesel Range Organics by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
DRO (C10-C28) [ECL-0057] ^	**22**		mg/kg dry	1	0.81	3.4	2E24027	EPA 8015C	05/29/12 12:38	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
o-Terphenyl	*1.5*	*1*	*1.74*	*88 %*	*51-138*	*2E24027*	*EPA 8015C*	*05/29/12 12:38*	*MSZ*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: SS-3 0-1'
Matrix: Soil
Project: Wilmington Materials

Lab Sample ID: C205559-03
Sampled: 05/16/12 12:30
Sampled By: Jayson A. Kilcoyne

Received: 05/18/12 11:45
Work Order: C205559
% Solids: 88.2

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Chromium [7440-47-3] ^	**11.5**		mg/kg dry	1	0.113	0.567	2E22008	EPA 6010C	05/23/12 13:02	JDH	
Lead [7439-92-1] ^	**15.9**		mg/kg dry	1	0.136	0.567	2E22008	EPA 6010C	05/23/12 13:02	JDH	

www.encolabs.com

Description: SS-3 0-1'
Matrix: Soil
Project: Wilmington Materials

Lab Sample ID: C205559-03
Sampled: 05/16/12 12:30
Sampled By: Jayson A. Kilcoyne

Received: 05/18/12 11:45
Work Order: C205559
% Solids: 88.2

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.0005	U	mg/kg dry	1	0.0005	0.0011	2E25033	EPA 8260B	05/26/12 04:25	kat	
1,1,1-Trichloroethane [71-55-6] ^	0.0004	U	mg/kg dry	1	0.0004	0.0011	2E25033	EPA 8260B	05/26/12 04:25	kat	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.0003	U	mg/kg dry	1	0.0003	0.0011	2E25033	EPA 8260B	05/26/12 04:25	kat	
1,1,2-Trichloroethane [79-00-5] ^	0.0007	U	mg/kg dry	1	0.0007	0.0011	2E25033	EPA 8260B	05/26/12 04:25	kat	
1,1-Dichloroethane [75-34-3] ^	0.0006	U	mg/kg dry	1	0.0006	0.0011	2E25033	EPA 8260B	05/26/12 04:25	kat	
1,1-Dichloroethene [75-35-4] ^	0.0007	U	mg/kg dry	1	0.0007	0.0011	2E25033	EPA 8260B	05/26/12 04:25	kat	
1,1-Dichloropropene [563-58-6] ^	0.0006	U	mg/kg dry	1	0.0006	0.0011	2E25033	EPA 8260B	05/26/12 04:25	kat	
1,2,3-Trichlorobenzene [87-61-6] ^	0.0010	U	mg/kg dry	1	0.0010	0.0011	2E25033	EPA 8260B	05/26/12 04:25	kat	
1,2,3-Trichloropropane [96-18-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.0011	2E25033	EPA 8260B	05/26/12 04:25	kat	
1,2,4-Trichlorobenzene [120-82-1] ^	0.0010	U	mg/kg dry	1	0.0010	0.0011	2E25033	EPA 8260B	05/26/12 04:25	kat	
1,2,4-Trimethylbenzene [95-63-6] ^	**0.093**		mg/kg dry	1	0.0008	0.0011	2E25033	EPA 8260B	05/26/12 04:25	kat	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.0006	U	mg/kg dry	1	0.0006	0.0011	2E25033	EPA 8260B	05/26/12 04:25	kat	
1,2-Dibromoethane [106-93-4] ^	0.0004	U	mg/kg dry	1	0.0004	0.0011	2E25033	EPA 8260B	05/26/12 04:25	kat	
1,2-Dichlorobenzene [95-50-1] ^	0.0005	U	mg/kg dry	1	0.0005	0.0011	2E25033	EPA 8260B	05/26/12 04:25	kat	
1,2-Dichloroethane [107-06-2] ^	0.0004	U	mg/kg dry	1	0.0004	0.0011	2E25033	EPA 8260B	05/26/12 04:25	kat	
1,2-Dichloropropane [78-87-5] ^	0.0006	U	mg/kg dry	1	0.0006	0.0011	2E25033	EPA 8260B	05/26/12 04:25	kat	
1,3,5-Trimethylbenzene [108-67-8] ^	**0.036**		mg/kg dry	1	0.0007	0.0011	2E25033	EPA 8260B	05/26/12 04:25	kat	
1,3-Dichlorobenzene [541-73-1] ^	0.0005	U	mg/kg dry	1	0.0005	0.0011	2E25033	EPA 8260B	05/26/12 04:25	kat	
1,3-Dichloropropane [142-28-9] ^	0.0004	U	mg/kg dry	1	0.0004	0.0011	2E25033	EPA 8260B	05/26/12 04:25	kat	
1,4-Dichlorobenzene [106-46-7] ^	0.0005	U	mg/kg dry	1	0.0005	0.0011	2E25033	EPA 8260B	05/26/12 04:25	kat	
2,2-Dichloropropane [594-20-7] ^	0.0005	U	mg/kg dry	1	0.0005	0.0011	2E25033	EPA 8260B	05/26/12 04:25	kat	
2-Butanone [78-93-3] ^	**0.023**		mg/kg dry	1	0.0020	0.0057	2E25033	EPA 8260B	05/26/12 04:25	kat	
2-Chloroethyl Vinyl Ether [110-75-8] ^	0.0019	U	mg/kg dry	1	0.0019	0.0057	2E25033	EPA 8260B	05/26/12 04:25	kat	
2-Chlorotoluene [95-49-8] ^	0.0005	U	mg/kg dry	1	0.0005	0.0011	2E25033	EPA 8260B	05/26/12 04:25	kat	
2-Hexanone [591-78-6] ^	0.0010	U	mg/kg dry	1	0.0010	0.0057	2E25033	EPA 8260B	05/26/12 04:25	kat	
4-Chlorotoluene [106-43-4] ^	0.0007	U	mg/kg dry	1	0.0007	0.0011	2E25033	EPA 8260B	05/26/12 04:25	kat	
4-Isopropyltoluene [99-87-6] ^	**0.014**		mg/kg dry	1	0.0009	0.0011	2E25033	EPA 8260B	05/26/12 04:25	kat	
4-Methyl-2-pentanone [108-10-1] ^	**0.0068**		mg/kg dry	1	0.0016	0.0057	2E25033	EPA 8260B	05/26/12 04:25	kat	
Acetone [67-64-1] ^	**0.13**		mg/kg dry	1	0.0019	0.0057	2E25033	EPA 8260B	05/26/12 04:25	kat	
Benzene [71-43-2] ^	0.0005	U	mg/kg dry	1	0.0005	0.0011	2E25033	EPA 8260B	05/26/12 04:25	kat	
Bromobenzene [108-86-1] ^	0.0005	U	mg/kg dry	1	0.0005	0.0011	2E25033	EPA 8260B	05/26/12 04:25	kat	
Bromochloromethane [74-97-5] ^	0.0004	U	mg/kg dry	1	0.0004	0.0011	2E25033	EPA 8260B	05/26/12 04:25	kat	
Bromodichloromethane [75-27-4] ^	0.0004	U	mg/kg dry	1	0.0004	0.0011	2E25033	EPA 8260B	05/26/12 04:25	kat	
Bromoform [75-25-2] ^	0.0003	U	mg/kg dry	1	0.0003	0.0011	2E25033	EPA 8260B	05/26/12 04:25	kat	
Bromomethane [74-83-9] ^	0.0010	U	mg/kg dry	1	0.0010	0.0011	2E25033	EPA 8260B	05/26/12 04:25	kat	
Carbon disulfide [75-15-0] ^	**0.0024**	J	mg/kg dry	1	0.0024	0.0057	2E25033	EPA 8260B	05/26/12 04:25	kat	
Carbon Tetrachloride [56-23-5] ^	0.0007	U	mg/kg dry	1	0.0007	0.0011	2E25033	EPA 8260B	05/26/12 04:25	kat	
Chlorobenzene [108-90-7] ^	0.0005	U	mg/kg dry	1	0.0005	0.0011	2E25033	EPA 8260B	05/26/12 04:25	kat	
Chloroethane [75-00-3] ^	0.0006	U	mg/kg dry	1	0.0006	0.0011	2E25033	EPA 8260B	05/26/12 04:25	kat	
Chloroform [67-66-3] ^	0.0005	U	mg/kg dry	1	0.0005	0.0011	2E25033	EPA 8260B	05/26/12 04:25	kat	
Chloromethane [74-87-3] ^	0.0007	U	mg/kg dry	1	0.0007	0.0011	2E25033	EPA 8260B	05/26/12 04:25	kat	
cis-1,2-Dichloroethene [156-59-2] ^	0.0006	U	mg/kg dry	1	0.0006	0.0011	2E25033	EPA 8260B	05/26/12 04:25	kat	
cis-1,3-Dichloropropene [10061-01-5] ^	0.0003	U	mg/kg dry	1	0.0003	0.0011	2E25033	EPA 8260B	05/26/12 04:25	kat	
Dibromochloromethane [124-48-1] ^	0.0003	U	mg/kg dry	1	0.0003	0.0011	2E25033	EPA 8260B	05/26/12 04:25	kat	
Dibromomethane [74-95-3] ^	0.0004	U	mg/kg dry	1	0.0004	0.0011	2E25033	EPA 8260B	05/26/12 04:25	kat	
Dichlorodifluoromethane [75-71-8] ^	0.0007	U	mg/kg dry	1	0.0007	0.0011	2E25033	EPA 8260B	05/26/12 04:25	kat	
Ethylbenzene [100-41-4] ^	**0.0034**		mg/kg dry	1	0.0006	0.0011	2E25033	EPA 8260B	05/26/12 04:25	kat	
Hexachlorobutadiene [87-68-3] ^	0.0010	U	mg/kg dry	1	0.0010	0.0011	2E25033	EPA 8260B	05/26/12 04:25	kat	
Isopropylbenzene [98-82-8] ^	**0.0029**		mg/kg dry	1	0.0006	0.0011	2E25033	EPA 8260B	05/26/12 04:25	kat	
m,p-Xylenes [108-38-3/106-42-3] ^	**0.017**		mg/kg dry	1	0.0011	0.0023	2E25033	EPA 8260B	05/26/12 04:25	kat	
Methylene Chloride [75-09-2] ^	0.0008	U	mg/kg dry	1	0.0008	0.0023	2E25033	EPA 8260B	05/26/12 04:25	kat	

www.encolabs.com

Description: SS-3 0-1'
Matrix: Soil
Project: Wilmington Materials

Lab Sample ID: C205559-03
Sampled: 05/16/12 12:30
Sampled By: Jayson A. Kilcoyne

Received: 05/18/12 11:45
Work Order: C205559
% Solids: 88.2

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Methyl-tert-Butyl Ether [1634-04-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.0011	2E25033	EPA 8260B	05/26/12 04:25	kat	
Naphthalene [91-20-3] ^	0.0006	U	mg/kg dry	1	0.0006	0.0011	2E25033	EPA 8260B	05/26/12 04:25	kat	
n-Butyl Benzene [104-51-8] ^	**0.022**		mg/kg dry	1	0.0010	0.0011	2E25033	EPA 8260B	05/26/12 04:25	kat	
n-Propyl Benzene [103-65-1] ^	**0.0081**		mg/kg dry	1	0.0007	0.0011	2E25033	EPA 8260B	05/26/12 04:25	kat	
o-Xylene [95-47-6] ^	**0.014**		mg/kg dry	1	0.0006	0.0011	2E25033	EPA 8260B	05/26/12 04:25	kat	
sec-Butylbenzene [135-98-8] ^	**0.013**		mg/kg dry	1	0.0007	0.0011	2E25033	EPA 8260B	05/26/12 04:25	kat	
Styrene [100-42-5] ^	0.0005	U	mg/kg dry	1	0.0005	0.0011	2E25033	EPA 8260B	05/26/12 04:25	kat	
tert-Butylbenzene [98-06-6] ^	0.0007	U	mg/kg dry	1	0.0007	0.0011	2E25033	EPA 8260B	05/26/12 04:25	kat	
Tetrachloroethene [127-18-4] ^	0.0006	U	mg/kg dry	1	0.0006	0.0011	2E25033	EPA 8260B	05/26/12 04:25	kat	
Toluene [108-88-3] ^	**0.0007**	J	mg/kg dry	1	0.0005	0.0011	2E25033	EPA 8260B	05/26/12 04:25	kat	
trans-1,2-Dichloroethene [156-60-5] ^	0.0008	U	mg/kg dry	1	0.0008	0.0011	2E25033	EPA 8260B	05/26/12 04:25	kat	
trans-1,3-Dichloropropene [10061-02-6] ^	0.0004	U	mg/kg dry	1	0.0004	0.0011	2E25033	EPA 8260B	05/26/12 04:25	kat	
Trichloroethene [79-01-6] ^	0.0006	U	mg/kg dry	1	0.0006	0.0011	2E25033	EPA 8260B	05/26/12 04:25	kat	
Trichlorofluoromethane [75-69-4] ^	0.0006	U	mg/kg dry	1	0.0006	0.0011	2E25033	EPA 8260B	05/26/12 04:25	kat	
Vinyl chloride [75-01-4] ^	0.0005	U	mg/kg dry	1	0.0005	0.0011	2E25033	EPA 8260B	05/26/12 04:25	kat	
Xylenes (Total) [1330-20-7] ^	**0.031**		mg/kg dry	1	0.0011	0.0023	2E25033	EPA 8260B	05/26/12 04:25	kat	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*48*	*1*	*50.0*	*95 %*	*71-126*	*2E25033*	*EPA 8260B*	*05/26/12 04:25*	*kat*	
Dibromofluoromethane	*50*	*1*	*50.0*	*99 %*	*72-133*	*2E25033*	*EPA 8260B*	*05/26/12 04:25*	*kat*	
Toluene-d8	*44*	*1*	*50.0*	*87 %*	*80-123*	*2E25033*	*EPA 8260B*	*05/26/12 04:25*	*kat*	

www.encolabs.com

Description: SS-3 0-1'	**Lab Sample ID:** C205559-03	**Received:** 05/18/12 11:45
Matrix: Soil	**Sampled:** 05/16/12 12:30	**Work Order:** C205559
Project: Wilmington Materials	**Sampled By:** Jayson A. Kilcoyne	**% Solids:** 88.2

Classical Chemistry Parameters

^ - ENCO Jacksonville certified analyte [NC 442]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Oil & Grease (HEM-SGT) Non-Polar Material [ECL-0104] ^	**32900**		mg/kg dry	1	56.7	56.7	2E29001	EPA 9071B	05/31/12 13:07	MJF	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: SS-3 2-3'
Matrix: Soil
Project: Wilmington Materials

Lab Sample ID: C205559-04
Sampled: 05/16/12 12:45
Sampled By: Jayson A. Kilcoyne

Received: 05/18/12 11:45
Work Order: C205559
% Solids: 95.6

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Chromium [7440-47-3] ^	**1.01**		mg/kg dry	1	0.105	0.523	2E22008	EPA 6010C	05/23/12 13:22	JDH	
Lead [7439-92-1] ^	**1.31**		mg/kg dry	1	0.126	0.523	2E22008	EPA 6010C	05/23/12 13:22	JDH	

www.encolabs.com

Description: SS-3 2-3'
Matrix: Soil
Project: Wilmington Materials

Lab Sample ID: C205559-04
Sampled: 05/16/12 12:45
Sampled By: Jayson A. Kilcoyne

Received: 05/18/12 11:45
Work Order: C205559
% Solids: 95.6

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.0005	U	mg/kg dry	1	0.0005	0.0010	2E25033	EPA 8260B	05/26/12 04:55	kat	
1,1,1-Trichloroethane [71-55-6] ^	0.0004	U	mg/kg dry	1	0.0004	0.0010	2E25033	EPA 8260B	05/26/12 04:55	kat	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.0003	U	mg/kg dry	1	0.0003	0.0010	2E25033	EPA 8260B	05/26/12 04:55	kat	
1,1,2-Trichloroethane [79-00-5] ^	0.0006	U	mg/kg dry	1	0.0006	0.0010	2E25033	EPA 8260B	05/26/12 04:55	kat	
1,1-Dichloroethane [75-34-3] ^	0.0006	U	mg/kg dry	1	0.0006	0.0010	2E25033	EPA 8260B	05/26/12 04:55	kat	
1,1-Dichloroethene [75-35-4] ^	0.0006	U	mg/kg dry	1	0.0006	0.0010	2E25033	EPA 8260B	05/26/12 04:55	kat	
1,1-Dichloropropene [563-58-6] ^	0.0006	U	mg/kg dry	1	0.0006	0.0010	2E25033	EPA 8260B	05/26/12 04:55	kat	
1,2,3-Trichlorobenzene [87-61-6] ^	0.0010	U	mg/kg dry	1	0.0010	0.0010	2E25033	EPA 8260B	05/26/12 04:55	kat	
1,2,3-Trichloropropane [96-18-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.0010	2E25033	EPA 8260B	05/26/12 04:55	kat	
1,2,4-Trichlorobenzene [120-82-1] ^	0.0009	U	mg/kg dry	1	0.0009	0.0010	2E25033	EPA 8260B	05/26/12 04:55	kat	
1,2,4-Trimethylbenzene [95-63-6] ^	0.0007	U	mg/kg dry	1	0.0007	0.0010	2E25033	EPA 8260B	05/26/12 04:55	kat	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.0006	U	mg/kg dry	1	0.0006	0.0010	2E25033	EPA 8260B	05/26/12 04:55	kat	
1,2-Dibromoethane [106-93-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.0010	2E25033	EPA 8260B	05/26/12 04:55	kat	
1,2-Dichlorobenzene [95-50-1] ^	0.0005	U	mg/kg dry	1	0.0005	0.0010	2E25033	EPA 8260B	05/26/12 04:55	kat	
1,2-Dichloroethane [107-06-2] ^	0.0003	U	mg/kg dry	1	0.0003	0.0010	2E25033	EPA 8260B	05/26/12 04:55	kat	
1,2-Dichloropropane [78-87-5] ^	0.0006	U	mg/kg dry	1	0.0006	0.0010	2E25033	EPA 8260B	05/26/12 04:55	kat	
1,3,5-Trimethylbenzene [108-67-8] ^	0.0006	U	mg/kg dry	1	0.0006	0.0010	2E25033	EPA 8260B	05/26/12 04:55	kat	
1,3-Dichlorobenzene [541-73-1] ^	0.0005	U	mg/kg dry	1	0.0005	0.0010	2E25033	EPA 8260B	05/26/12 04:55	kat	
1,3-Dichloropropane [142-28-9] ^	0.0004	U	mg/kg dry	1	0.0004	0.0010	2E25033	EPA 8260B	05/26/12 04:55	kat	
1,4-Dichlorobenzene [106-46-7] ^	0.0005	U	mg/kg dry	1	0.0005	0.0010	2E25033	EPA 8260B	05/26/12 04:55	kat	
2,2-Dichloropropane [594-20-7] ^	0.0004	U	mg/kg dry	1	0.0004	0.0010	2E25033	EPA 8260B	05/26/12 04:55	kat	
2-Butanone [78-93-3] ^	0.0019	U	mg/kg dry	1	0.0019	0.0052	2E25033	EPA 8260B	05/26/12 04:55	kat	
2-Chloroethyl Vinyl Ether [110-75-8] ^	0.0018	U	mg/kg dry	1	0.0018	0.0052	2E25033	EPA 8260B	05/26/12 04:55	kat	
2-Chlorotoluene [95-49-8] ^	0.0005	U	mg/kg dry	1	0.0005	0.0010	2E25033	EPA 8260B	05/26/12 04:55	kat	
2-Hexanone [591-78-6] ^	0.0010	U	mg/kg dry	1	0.0010	0.0052	2E25033	EPA 8260B	05/26/12 04:55	kat	
4-Chlorotoluene [106-43-4] ^	0.0006	U	mg/kg dry	1	0.0006	0.0010	2E25033	EPA 8260B	05/26/12 04:55	kat	
4-Isopropyltoluene [99-87-6] ^	0.0008	U	mg/kg dry	1	0.0008	0.0010	2E25033	EPA 8260B	05/26/12 04:55	kat	
4-Methyl-2-pentanone [108-10-1] ^	0.0015	U	mg/kg dry	1	0.0015	0.0052	2E25033	EPA 8260B	05/26/12 04:55	kat	
Acetone [67-64-1] ^	0.0018	U	mg/kg dry	1	0.0018	0.0052	2E25033	EPA 8260B	05/26/12 04:55	kat	
Benzene [71-43-2] ^	0.0004	U	mg/kg dry	1	0.0004	0.0010	2E25033	EPA 8260B	05/26/12 04:55	kat	
Bromobenzene [108-86-1] ^	0.0004	U	mg/kg dry	1	0.0004	0.0010	2E25033	EPA 8260B	05/26/12 04:55	kat	
Bromochloromethane [74-97-5] ^	0.0004	U	mg/kg dry	1	0.0004	0.0010	2E25033	EPA 8260B	05/26/12 04:55	kat	
Bromodichloromethane [75-27-4] ^	0.0004	U	mg/kg dry	1	0.0004	0.0010	2E25033	EPA 8260B	05/26/12 04:55	kat	
Bromoform [75-25-2] ^	0.0003	U	mg/kg dry	1	0.0003	0.0010	2E25033	EPA 8260B	05/26/12 04:55	kat	
Bromomethane [74-83-9] ^	0.0009	U	mg/kg dry	1	0.0009	0.0010	2E25033	EPA 8260B	05/26/12 04:55	kat	
Carbon disulfide [75-15-0] ^	0.0022	U	mg/kg dry	1	0.0022	0.0052	2E25033	EPA 8260B	05/26/12 04:55	kat	
Carbon Tetrachloride [56-23-5] ^	0.0006	U	mg/kg dry	1	0.0006	0.0010	2E25033	EPA 8260B	05/26/12 04:55	kat	
Chlorobenzene [108-90-7] ^	0.0005	U	mg/kg dry	1	0.0005	0.0010	2E25033	EPA 8260B	05/26/12 04:55	kat	
Chloroethane [75-00-3] ^	0.0006	U	mg/kg dry	1	0.0006	0.0010	2E25033	EPA 8260B	05/26/12 04:55	kat	
Chloroform [67-66-3] ^	0.0004	U	mg/kg dry	1	0.0004	0.0010	2E25033	EPA 8260B	05/26/12 04:55	kat	
Chloromethane [74-87-3] ^	0.0007	U	mg/kg dry	1	0.0007	0.0010	2E25033	EPA 8260B	05/26/12 04:55	kat	
cis-1,2-Dichloroethene [156-59-2] ^	0.0006	U	mg/kg dry	1	0.0006	0.0010	2E25033	EPA 8260B	05/26/12 04:55	kat	
cis-1,3-Dichloropropene [10061-01-5] ^	0.0003	U	mg/kg dry	1	0.0003	0.0010	2E25033	EPA 8260B	05/26/12 04:55	kat	
Dibromochloromethane [124-48-1] ^	0.0003	U	mg/kg dry	1	0.0003	0.0010	2E25033	EPA 8260B	05/26/12 04:55	kat	
Dibromomethane [74-95-3] ^	0.0004	U	mg/kg dry	1	0.0004	0.0010	2E25033	EPA 8260B	05/26/12 04:55	kat	
Dichlorodifluoromethane [75-71-8] ^	0.0006	U	mg/kg dry	1	0.0006	0.0010	2E25033	EPA 8260B	05/26/12 04:55	kat	
Ethylbenzene [100-41-4] ^	0.0006	U	mg/kg dry	1	0.0006	0.0010	2E25033	EPA 8260B	05/26/12 04:55	kat	
Hexachlorobutadiene [87-68-3] ^	0.0010	U	mg/kg dry	1	0.0010	0.0010	2E25033	EPA 8260B	05/26/12 04:55	kat	
Isopropylbenzene [98-82-8] ^	0.0006	U	mg/kg dry	1	0.0006	0.0010	2E25033	EPA 8260B	05/26/12 04:55	kat	
m,p-Xylenes [108-38-3/106-42-3] ^	0.0010	U	mg/kg dry	1	0.0010	0.0021	2E25033	EPA 8260B	05/26/12 04:55	kat	
Methylene Chloride [75-09-2] ^	0.0007	U	mg/kg dry	1	0.0007	0.0021	2E25033	EPA 8260B	05/26/12 04:55	kat	

www.encolabs.com

Description: SS-3 2-3'
Matrix: Soil
Project: Wilmington Materials

Lab Sample ID: C205559-04
Sampled: 05/16/12 12:45
Sampled By: Jayson A. Kilcoyne

Received: 05/18/12 11:45
Work Order: C205559
% Solids: 95.6

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Methyl-tert-Butyl Ether [1634-04-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.0010	2E25033	EPA 8260B	05/26/12 04:55	kat	
Naphthalene [91-20-3] ^	0.0006	U	mg/kg dry	1	0.0006	0.0010	2E25033	EPA 8260B	05/26/12 04:55	kat	
n-Butyl Benzene [104-51-8] ^	0.0009	U	mg/kg dry	1	0.0009	0.0010	2E25033	EPA 8260B	05/26/12 04:55	kat	
n-Propyl Benzene [103-65-1] ^	0.0007	U	mg/kg dry	1	0.0007	0.0010	2E25033	EPA 8260B	05/26/12 04:55	kat	
o-Xylene [95-47-6] ^	0.0005	U	mg/kg dry	1	0.0005	0.0010	2E25033	EPA 8260B	05/26/12 04:55	kat	
sec-Butylbenzene [135-98-8] ^	0.0007	U	mg/kg dry	1	0.0007	0.0010	2E25033	EPA 8260B	05/26/12 04:55	kat	
Styrene [100-42-5] ^	0.0005	U	mg/kg dry	1	0.0005	0.0010	2E25033	EPA 8260B	05/26/12 04:55	kat	
tert-Butylbenzene [98-06-6] ^	0.0006	U	mg/kg dry	1	0.0006	0.0010	2E25033	EPA 8260B	05/26/12 04:55	kat	
Tetrachloroethene [127-18-4] ^	**0.0036**		mg/kg dry	1	0.0005	0.0010	2E25033	EPA 8260B	05/26/12 04:55	kat	
Toluene [108-88-3] ^	0.0005	U	mg/kg dry	1	0.0005	0.0010	2E25033	EPA 8260B	05/26/12 04:55	kat	
trans-1,2-Dichloroethene [156-60-5] ^	0.0007	U	mg/kg dry	1	0.0007	0.0010	2E25033	EPA 8260B	05/26/12 04:55	kat	
trans-1,3-Dichloropropene [10061-02-6] ^	0.0003	U	mg/kg dry	1	0.0003	0.0010	2E25033	EPA 8260B	05/26/12 04:55	kat	
Trichloroethene [79-01-6] ^	0.0005	U	mg/kg dry	1	0.0005	0.0010	2E25033	EPA 8260B	05/26/12 04:55	kat	
Trichlorofluoromethane [75-69-4] ^	0.0006	U	mg/kg dry	1	0.0006	0.0010	2E25033	EPA 8260B	05/26/12 04:55	kat	
Vinyl chloride [75-01-4] ^	0.0005	U	mg/kg dry	1	0.0005	0.0010	2E25033	EPA 8260B	05/26/12 04:55	kat	
Xylenes (Total) [1330-20-7] ^	0.0010	U	mg/kg dry	1	0.0010	0.0021	2E25033	EPA 8260B	05/26/12 04:55	kat	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*90 %*	*71-126*	*2E25033*	*EPA 8260B*	*05/26/12 04:55*	*kat*	
Dibromofluoromethane	*49*	*1*	*50.0*	*98 %*	*72-133*	*2E25033*	*EPA 8260B*	*05/26/12 04:55*	*kat*	
Toluene-d8	*46*	*1*	*50.0*	*93 %*	*80-123*	*2E25033*	*EPA 8260B*	*05/26/12 04:55*	*kat*	

www.encolabs.com

Description:	SS-3 2-3'	**Lab Sample ID:**	C205559-04	**Received:**	05/18/12 11:45
Matrix:	Soil	**Sampled:**	05/16/12 12:45	**Work Order:**	C205559
Project:	Wilmington Materials	**Sampled By:**	Jayson A. Kilcoyne	**% Solids:**	95.6

Classical Chemistry Parameters

^ - ENCO Jacksonville certified analyte [NC 442]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Oil & Grease (HEM-SGT) Non-Polar Material [ECL-0104] ^	**5520**		mg/kg dry	1	52.3	52.3	2E29001	EPA 9071B	05/31/12 13:07	MJF	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: SS-5 1-2'
Matrix: Soil
Project: Wilmington Materials

Lab Sample ID: C205559-05
Sampled: 05/16/12 14:00
Sampled By: Jayson A. Kilcoyne

Received: 05/18/12 11:45
Work Order: C205559
% Solids: 77.7

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Chromium [7440-47-3] ^	**0.950**		mg/kg dry	1	0.129	0.644	2E22008	EPA 6010C	05/23/12 13:24	JDH	
Lead [7439-92-1] ^	**1.72**		mg/kg dry	1	0.154	0.644	2E22008	EPA 6010C	05/23/12 13:24	JDH	

www.encolabs.com

Description: SS-5 1-2'
Matrix: Soil
Project: Wilmington Materials

Lab Sample ID: C205559-05
Sampled: 05/16/12 14:00
Sampled By: Jayson A. Kilcoyne

Received: 05/18/12 11:45
Work Order: C205559
% Solids: 77.7

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.0006	U	mg/kg dry	1	0.0006	0.0013	2E25033	EPA 8260B	05/26/12 05:25	kat	
1,1,1-Trichloroethane [71-55-6] ^	0.0005	U	mg/kg dry	1	0.0005	0.0013	2E25033	EPA 8260B	05/26/12 05:25	kat	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.0004	U	mg/kg dry	1	0.0004	0.0013	2E25033	EPA 8260B	05/26/12 05:25	kat	
1,1,2-Trichloroethane [79-00-5] ^	0.0008	U	mg/kg dry	1	0.0008	0.0013	2E25033	EPA 8260B	05/26/12 05:25	kat	
1,1-Dichloroethane [75-34-3] ^	0.0007	U	mg/kg dry	1	0.0007	0.0013	2E25033	EPA 8260B	05/26/12 05:25	kat	
1,1-Dichloroethene [75-35-4] ^	0.0008	U	mg/kg dry	1	0.0008	0.0013	2E25033	EPA 8260B	05/26/12 05:25	kat	
1,1-Dichloropropene [563-58-6] ^	0.0007	U	mg/kg dry	1	0.0007	0.0013	2E25033	EPA 8260B	05/26/12 05:25	kat	
1,2,3-Trichlorobenzene [87-61-6] ^	0.0012	U	mg/kg dry	1	0.0012	0.0013	2E25033	EPA 8260B	05/26/12 05:25	kat	
1,2,3-Trichloropropane [96-18-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.0013	2E25033	EPA 8260B	05/26/12 05:25	kat	
1,2,4-Trichlorobenzene [120-82-1] ^	0.0011	U	mg/kg dry	1	0.0011	0.0013	2E25033	EPA 8260B	05/26/12 05:25	kat	
1,2,4-Trimethylbenzene [95-63-6] ^	0.0009	U	mg/kg dry	1	0.0009	0.0013	2E25033	EPA 8260B	05/26/12 05:25	kat	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.0007	U	mg/kg dry	1	0.0007	0.0013	2E25033	EPA 8260B	05/26/12 05:25	kat	
1,2-Dibromoethane [106-93-4] ^	0.0004	U	mg/kg dry	1	0.0004	0.0013	2E25033	EPA 8260B	05/26/12 05:25	kat	
1,2-Dichlorobenzene [95-50-1] ^	0.0006	U	mg/kg dry	1	0.0006	0.0013	2E25033	EPA 8260B	05/26/12 05:25	kat	
1,2-Dichloroethane [107-06-2] ^	0.0004	U	mg/kg dry	1	0.0004	0.0013	2E25033	EPA 8260B	05/26/12 05:25	kat	
1,2-Dichloropropane [78-87-5] ^	0.0007	U	mg/kg dry	1	0.0007	0.0013	2E25033	EPA 8260B	05/26/12 05:25	kat	
1,3,5-Trimethylbenzene [108-67-8] ^	0.0008	U	mg/kg dry	1	0.0008	0.0013	2E25033	EPA 8260B	05/26/12 05:25	kat	
1,3-Dichlorobenzene [541-73-1] ^	0.0006	U	mg/kg dry	1	0.0006	0.0013	2E25033	EPA 8260B	05/26/12 05:25	kat	
1,3-Dichloropropane [142-28-9] ^	0.0005	U	mg/kg dry	1	0.0005	0.0013	2E25033	EPA 8260B	05/26/12 05:25	kat	
1,4-Dichlorobenzene [106-46-7] ^	0.0006	U	mg/kg dry	1	0.0006	0.0013	2E25033	EPA 8260B	05/26/12 05:25	kat	
2,2-Dichloropropane [594-20-7] ^	0.0005	U	mg/kg dry	1	0.0005	0.0013	2E25033	EPA 8260B	05/26/12 05:25	kat	
2-Butanone [78-93-3] ^	0.0023	U	mg/kg dry	1	0.0023	0.0064	2E25033	EPA 8260B	05/26/12 05:25	kat	
2-Chloroethyl Vinyl Ether [110-75-8] ^	0.0022	U	mg/kg dry	1	0.0022	0.0064	2E25033	EPA 8260B	05/26/12 05:25	kat	
2-Chlorotoluene [95-49-8] ^	0.0006	U	mg/kg dry	1	0.0006	0.0013	2E25033	EPA 8260B	05/26/12 05:25	kat	
2-Hexanone [591-78-6] ^	0.0012	U	mg/kg dry	1	0.0012	0.0064	2E25033	EPA 8260B	05/26/12 05:25	kat	
4-Chlorotoluene [106-43-4] ^	0.0008	U	mg/kg dry	1	0.0008	0.0013	2E25033	EPA 8260B	05/26/12 05:25	kat	
4-Isopropyltoluene [99-87-6] ^	0.0010	U	mg/kg dry	1	0.0010	0.0013	2E25033	EPA 8260B	05/26/12 05:25	kat	
4-Methyl-2-pentanone [108-10-1] ^	0.0018	U	mg/kg dry	1	0.0018	0.0064	2E25033	EPA 8260B	05/26/12 05:25	kat	
Acetone [67-64-1] ^	0.0022	U	mg/kg dry	1	0.0022	0.0064	2E25033	EPA 8260B	05/26/12 05:25	kat	
Benzene [71-43-2] ^	0.0005	U	mg/kg dry	1	0.0005	0.0013	2E25033	EPA 8260B	05/26/12 05:25	kat	
Bromobenzene [108-86-1] ^	0.0005	U	mg/kg dry	1	0.0005	0.0013	2E25033	EPA 8260B	05/26/12 05:25	kat	
Bromochloromethane [74-97-5] ^	0.0005	U	mg/kg dry	1	0.0005	0.0013	2E25033	EPA 8260B	05/26/12 05:25	kat	
Bromodichloromethane [75-27-4] ^	0.0005	U	mg/kg dry	1	0.0005	0.0013	2E25033	EPA 8260B	05/26/12 05:25	kat	
Bromoform [75-25-2] ^	0.0004	U	mg/kg dry	1	0.0004	0.0013	2E25033	EPA 8260B	05/26/12 05:25	kat	
Bromomethane [74-83-9] ^	0.0012	U	mg/kg dry	1	0.0012	0.0013	2E25033	EPA 8260B	05/26/12 05:25	kat	
Carbon disulfide [75-15-0] ^	0.0027	U	mg/kg dry	1	0.0027	0.0064	2E25033	EPA 8260B	05/26/12 05:25	kat	
Carbon Tetrachloride [56-23-5] ^	0.0008	U	mg/kg dry	1	0.0008	0.0013	2E25033	EPA 8260B	05/26/12 05:25	kat	
Chlorobenzene [108-90-7] ^	0.0006	U	mg/kg dry	1	0.0006	0.0013	2E25033	EPA 8260B	05/26/12 05:25	kat	
Chloroethane [75-00-3] ^	0.0007	U	mg/kg dry	1	0.0007	0.0013	2E25033	EPA 8260B	05/26/12 05:25	kat	
Chloroform [67-66-3] ^	0.0006	U	mg/kg dry	1	0.0006	0.0013	2E25033	EPA 8260B	05/26/12 05:25	kat	
Chloromethane [74-87-3] ^	0.0008	U	mg/kg dry	1	0.0008	0.0013	2E25033	EPA 8260B	05/26/12 05:25	kat	
cis-1,2-Dichloroethene [156-59-2] ^	0.0007	U	mg/kg dry	1	0.0007	0.0013	2E25033	EPA 8260B	05/26/12 05:25	kat	
cis-1,3-Dichloropropene [10061-01-5] ^	0.0004	U	mg/kg dry	1	0.0004	0.0013	2E25033	EPA 8260B	05/26/12 05:25	kat	
Dibromochloromethane [124-48-1] ^	0.0003	U	mg/kg dry	1	0.0003	0.0013	2E25033	EPA 8260B	05/26/12 05:25	kat	
Dibromomethane [74-95-3] ^	0.0005	U	mg/kg dry	1	0.0005	0.0013	2E25033	EPA 8260B	05/26/12 05:25	kat	
Dichlorodifluoromethane [75-71-8] ^	0.0008	U	mg/kg dry	1	0.0008	0.0013	2E25033	EPA 8260B	05/26/12 05:25	kat	
Ethylbenzene [100-41-4] ^	0.0007	U	mg/kg dry	1	0.0007	0.0013	2E25033	EPA 8260B	05/26/12 05:25	kat	
Hexachlorobutadiene [87-68-3] ^	0.0012	U	mg/kg dry	1	0.0012	0.0013	2E25033	EPA 8260B	05/26/12 05:25	kat	
Isopropylbenzene [98-82-8] ^	0.0007	U	mg/kg dry	1	0.0007	0.0013	2E25033	EPA 8260B	05/26/12 05:25	kat	
m,p-Xylenes [108-38-3/106-42-3] ^	0.0013	U	mg/kg dry	1	0.0013	0.0026	2E25033	EPA 8260B	05/26/12 05:25	kat	
Methylene Chloride [75-09-2] ^	0.0009	U	mg/kg dry	1	0.0009	0.0026	2E25033	EPA 8260B	05/26/12 05:25	kat	

www.encolabs.com

Description: SS-5 1-2'
Matrix: Soil
Project: Wilmington Materials

Lab Sample ID: C205559-05
Sampled: 05/16/12 14:00
Sampled By: Jayson A. Kilcoyne

Received: 05/18/12 11:45
Work Order: C205559
% Solids: 77.7

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Methyl-tert-Butyl Ether [1634-04-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.0013	2E25033	EPA 8260B	05/26/12 05:25	kat	
Naphthalene [91-20-3] ^	0.0007	U	mg/kg dry	1	0.0007	0.0013	2E25033	EPA 8260B	05/26/12 05:25	kat	
n-Butyl Benzene [104-51-8] ^	0.0012	U	mg/kg dry	1	0.0012	0.0013	2E25033	EPA 8260B	05/26/12 05:25	kat	
n-Propyl Benzene [103-65-1] ^	0.0008	U	mg/kg dry	1	0.0008	0.0013	2E25033	EPA 8260B	05/26/12 05:25	kat	
o-Xylene [95-47-6] ^	0.0007	U	mg/kg dry	1	0.0007	0.0013	2E25033	EPA 8260B	05/26/12 05:25	kat	
sec-Butylbenzene [135-98-8] ^	0.0008	U	mg/kg dry	1	0.0008	0.0013	2E25033	EPA 8260B	05/26/12 05:25	kat	
Styrene [100-42-5] ^	0.0006	U	mg/kg dry	1	0.0006	0.0013	2E25033	EPA 8260B	05/26/12 05:25	kat	
tert-Butylbenzene [98-06-6] ^	0.0008	U	mg/kg dry	1	0.0008	0.0013	2E25033	EPA 8260B	05/26/12 05:25	kat	
Tetrachloroethene [127-18-4] ^	0.0006	U	mg/kg dry	1	0.0006	0.0013	2E25033	EPA 8260B	05/26/12 05:25	kat	
Toluene [108-88-3] ^	0.0006	U	mg/kg dry	1	0.0006	0.0013	2E25033	EPA 8260B	05/26/12 05:25	kat	
trans-1,2-Dichloroethene [156-60-5] ^	0.0009	U	mg/kg dry	1	0.0009	0.0013	2E25033	EPA 8260B	05/26/12 05:25	kat	
trans-1,3-Dichloropropene [10061-02-6] ^	0.0004	U	mg/kg dry	1	0.0004	0.0013	2E25033	EPA 8260B	05/26/12 05:25	kat	
Trichloroethene [79-01-6] ^	0.0006	U	mg/kg dry	1	0.0006	0.0013	2E25033	EPA 8260B	05/26/12 05:25	kat	
Trichlorofluoromethane [75-69-4] ^	0.0007	U	mg/kg dry	1	0.0007	0.0013	2E25033	EPA 8260B	05/26/12 05:25	kat	
Vinyl chloride [75-01-4] ^	0.0006	U	mg/kg dry	1	0.0006	0.0013	2E25033	EPA 8260B	05/26/12 05:25	kat	
Xylenes (Total) [1330-20-7] ^	0.0013	U	mg/kg dry	1	0.0013	0.0026	2E25033	EPA 8260B	05/26/12 05:25	kat	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*91 %*	*71-126*	*2E25033*	*EPA 8260B*	*05/26/12 05:25*	*kat*	
Dibromofluoromethane	*49*	*1*	*50.0*	*98 %*	*72-133*	*2E25033*	*EPA 8260B*	*05/26/12 05:25*	*kat*	
Toluene-d8	*46*	*1*	*50.0*	*92 %*	*80-123*	*2E25033*	*EPA 8260B*	*05/26/12 05:25*	*kat*	

www.encolabs.com

Description:	SS-5 1-2'	**Lab Sample ID:**	C205559-05	**Received:**	05/18/12 11:45
Matrix:	Soil	**Sampled:**	05/16/12 14:00	**Work Order:**	C205559
Project:	Wilmington Materials	**Sampled By:**	Jayson A. Kilcoyne	**% Solids:**	77.7

Classical Chemistry Parameters

^ - ENCO Jacksonville certified analyte [NC 442]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Oil & Grease (HEM-SGT) Non-Polar Material [ECL-0104] ^	**222**		mg/kg dry	1	64.4	64.4	2E29001	EPA 9071B	05/31/12 13:07	MJF	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: SS-6 1-2'
Matrix: Soil
Project: Wilmington Materials

Lab Sample ID: C205559-06
Sampled: 05/16/12 15:00
Sampled By: Jayson A. Kilcoyne

Received: 05/18/12 11:45
Work Order: C205559
% Solids: 95.2

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Chromium [7440-47-3] ^	**0.967**		mg/kg dry	1	0.105	0.525	2E22008	EPA 6010C	05/23/12 13:26	JDH	
Lead [7439-92-1] ^	**1.33**		mg/kg dry	1	0.126	0.525	2E22008	EPA 6010C	05/23/12 13:26	JDH	

www.encolabs.com

Description: SS-6 1-2'
Matrix: Soil
Project: Wilmington Materials

Lab Sample ID: C205559-06
Sampled: 05/16/12 15:00
Sampled By: Jayson A. Kilcoyne

Received: 05/18/12 11:45
Work Order: C205559
% Solids: 95.2

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.0005	U	mg/kg dry	1	0.0005	0.0011	2E25033	EPA 8260B	05/26/12 05:56	kat	
1,1,1-Trichloroethane [71-55-6] ^	0.0004	U	mg/kg dry	1	0.0004	0.0011	2E25033	EPA 8260B	05/26/12 05:56	kat	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.0003	U	mg/kg dry	1	0.0003	0.0011	2E25033	EPA 8260B	05/26/12 05:56	kat	
1,1,2-Trichloroethane [79-00-5] ^	0.0006	U	mg/kg dry	1	0.0006	0.0011	2E25033	EPA 8260B	05/26/12 05:56	kat	
1,1-Dichloroethane [75-34-3] ^	0.0006	U	mg/kg dry	1	0.0006	0.0011	2E25033	EPA 8260B	05/26/12 05:56	kat	
1,1-Dichloroethene [75-35-4] ^	0.0007	U	mg/kg dry	1	0.0007	0.0011	2E25033	EPA 8260B	05/26/12 05:56	kat	
1,1-Dichloropropene [563-58-6] ^	0.0006	U	mg/kg dry	1	0.0006	0.0011	2E25033	EPA 8260B	05/26/12 05:56	kat	
1,2,3-Trichlorobenzene [87-61-6] ^	0.0010	U	mg/kg dry	1	0.0010	0.0011	2E25033	EPA 8260B	05/26/12 05:56	kat	
1,2,3-Trichloropropane [96-18-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.0011	2E25033	EPA 8260B	05/26/12 05:56	kat	
1,2,4-Trichlorobenzene [120-82-1] ^	0.0009	U	mg/kg dry	1	0.0009	0.0011	2E25033	EPA 8260B	05/26/12 05:56	kat	
1,2,4-Trimethylbenzene [95-63-6] ^	0.0007	U	mg/kg dry	1	0.0007	0.0011	2E25033	EPA 8260B	05/26/12 05:56	kat	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.0006	U	mg/kg dry	1	0.0006	0.0011	2E25033	EPA 8260B	05/26/12 05:56	kat	
1,2-Dibromoethane [106-93-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.0011	2E25033	EPA 8260B	05/26/12 05:56	kat	
1,2-Dichlorobenzene [95-50-1] ^	0.0005	U	mg/kg dry	1	0.0005	0.0011	2E25033	EPA 8260B	05/26/12 05:56	kat	
1,2-Dichloroethane [107-06-2] ^	0.0003	U	mg/kg dry	1	0.0003	0.0011	2E25033	EPA 8260B	05/26/12 05:56	kat	
1,2-Dichloropropane [78-87-5] ^	0.0006	U	mg/kg dry	1	0.0006	0.0011	2E25033	EPA 8260B	05/26/12 05:56	kat	
1,3,5-Trimethylbenzene [108-67-8] ^	0.0006	U	mg/kg dry	1	0.0006	0.0011	2E25033	EPA 8260B	05/26/12 05:56	kat	
1,3-Dichlorobenzene [541-73-1] ^	0.0005	U	mg/kg dry	1	0.0005	0.0011	2E25033	EPA 8260B	05/26/12 05:56	kat	
1,3-Dichloropropane [142-28-9] ^	0.0004	U	mg/kg dry	1	0.0004	0.0011	2E25033	EPA 8260B	05/26/12 05:56	kat	
1,4-Dichlorobenzene [106-46-7] ^	0.0005	U	mg/kg dry	1	0.0005	0.0011	2E25033	EPA 8260B	05/26/12 05:56	kat	
2,2-Dichloropropane [594-20-7] ^	0.0004	U	mg/kg dry	1	0.0004	0.0011	2E25033	EPA 8260B	05/26/12 05:56	kat	
2-Butanone [78-93-3] ^	0.0019	U	mg/kg dry	1	0.0019	0.0053	2E25033	EPA 8260B	05/26/12 05:56	kat	
2-Chloroethyl Vinyl Ether [110-75-8] ^	0.0018	U	mg/kg dry	1	0.0018	0.0053	2E25033	EPA 8260B	05/26/12 05:56	kat	
2-Chlorotoluene [95-49-8] ^	0.0005	U	mg/kg dry	1	0.0005	0.0011	2E25033	EPA 8260B	05/26/12 05:56	kat	
2-Hexanone [591-78-6] ^	0.0010	U	mg/kg dry	1	0.0010	0.0053	2E25033	EPA 8260B	05/26/12 05:56	kat	
4-Chlorotoluene [106-43-4] ^	0.0006	U	mg/kg dry	1	0.0006	0.0011	2E25033	EPA 8260B	05/26/12 05:56	kat	
4-Isopropyltoluene [99-87-6] ^	0.0008	U	mg/kg dry	1	0.0008	0.0011	2E25033	EPA 8260B	05/26/12 05:56	kat	
4-Methyl-2-pentanone [108-10-1] ^	0.0015	U	mg/kg dry	1	0.0015	0.0053	2E25033	EPA 8260B	05/26/12 05:56	kat	
Acetone [67-64-1] ^	0.0018	U	mg/kg dry	1	0.0018	0.0053	2E25033	EPA 8260B	05/26/12 05:56	kat	
Benzene [71-43-2] ^	0.0004	U	mg/kg dry	1	0.0004	0.0011	2E25033	EPA 8260B	05/26/12 05:56	kat	
Bromobenzene [108-86-1] ^	0.0004	U	mg/kg dry	1	0.0004	0.0011	2E25033	EPA 8260B	05/26/12 05:56	kat	
Bromochloromethane [74-97-5] ^	0.0004	U	mg/kg dry	1	0.0004	0.0011	2E25033	EPA 8260B	05/26/12 05:56	kat	
Bromodichloromethane [75-27-4] ^	0.0004	U	mg/kg dry	1	0.0004	0.0011	2E25033	EPA 8260B	05/26/12 05:56	kat	
Bromoform [75-25-2] ^	0.0003	U	mg/kg dry	1	0.0003	0.0011	2E25033	EPA 8260B	05/26/12 05:56	kat	
Bromomethane [74-83-9] ^	0.0009	U	mg/kg dry	1	0.0009	0.0011	2E25033	EPA 8260B	05/26/12 05:56	kat	
Carbon disulfide [75-15-0] ^	0.0022	U	mg/kg dry	1	0.0022	0.0053	2E25033	EPA 8260B	05/26/12 05:56	kat	
Carbon Tetrachloride [56-23-5] ^	0.0006	U	mg/kg dry	1	0.0006	0.0011	2E25033	EPA 8260B	05/26/12 05:56	kat	
Chlorobenzene [108-90-7] ^	0.0005	U	mg/kg dry	1	0.0005	0.0011	2E25033	EPA 8260B	05/26/12 05:56	kat	
Chloroethane [75-00-3] ^	0.0006	U	mg/kg dry	1	0.0006	0.0011	2E25033	EPA 8260B	05/26/12 05:56	kat	
Chloroform [67-66-3] ^	0.0005	U	mg/kg dry	1	0.0005	0.0011	2E25033	EPA 8260B	05/26/12 05:56	kat	
Chloromethane [74-87-3] ^	0.0007	U	mg/kg dry	1	0.0007	0.0011	2E25033	EPA 8260B	05/26/12 05:56	kat	
cis-1,2-Dichloroethene [156-59-2] ^	0.0006	U	mg/kg dry	1	0.0006	0.0011	2E25033	EPA 8260B	05/26/12 05:56	kat	
cis-1,3-Dichloropropene [10061-01-5] ^	0.0003	U	mg/kg dry	1	0.0003	0.0011	2E25033	EPA 8260B	05/26/12 05:56	kat	
Dibromochloromethane [124-48-1] ^	0.0003	U	mg/kg dry	1	0.0003	0.0011	2E25033	EPA 8260B	05/26/12 05:56	kat	
Dibromomethane [74-95-3] ^	0.0004	U	mg/kg dry	1	0.0004	0.0011	2E25033	EPA 8260B	05/26/12 05:56	kat	
Dichlorodifluoromethane [75-71-8] ^	0.0007	U	mg/kg dry	1	0.0007	0.0011	2E25033	EPA 8260B	05/26/12 05:56	kat	
Ethylbenzene [100-41-4] ^	0.0006	U	mg/kg dry	1	0.0006	0.0011	2E25033	EPA 8260B	05/26/12 05:56	kat	
Hexachlorobutadiene [87-68-3] ^	0.0010	U	mg/kg dry	1	0.0010	0.0011	2E25033	EPA 8260B	05/26/12 05:56	kat	
Isopropylbenzene [98-82-8] ^	0.0006	U	mg/kg dry	1	0.0006	0.0011	2E25033	EPA 8260B	05/26/12 05:56	kat	
m,p-Xylenes [108-38-3/106-42-3] ^	0.0010	U	mg/kg dry	1	0.0010	0.0021	2E25033	EPA 8260B	05/26/12 05:56	kat	
Methylene Chloride [75-09-2] ^	0.0007	U	mg/kg dry	1	0.0007	0.0021	2E25033	EPA 8260B	05/26/12 05:56	kat	

www.encolabs.com

Description: SS-6 1-2'
Matrix: Soil
Project: Wilmington Materials

Lab Sample ID: C205559-06
Sampled: 05/16/12 15:00
Sampled By: Jayson A. Kilcoyne

Received: 05/18/12 11:45
Work Order: C205559
% Solids: 95.2

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Methyl-tert-Butyl Ether [1634-04-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.0011	2E25033	EPA 8260B	05/26/12 05:56	kat	
Naphthalene [91-20-3] ^	0.0006	U	mg/kg dry	1	0.0006	0.0011	2E25033	EPA 8260B	05/26/12 05:56	kat	
n-Butyl Benzene [104-51-8] ^	0.0009	U	mg/kg dry	1	0.0009	0.0011	2E25033	EPA 8260B	05/26/12 05:56	kat	
n-Propyl Benzene [103-65-1] ^	0.0007	U	mg/kg dry	1	0.0007	0.0011	2E25033	EPA 8260B	05/26/12 05:56	kat	
o-Xylene [95-47-6] ^	0.0005	U	mg/kg dry	1	0.0005	0.0011	2E25033	EPA 8260B	05/26/12 05:56	kat	
sec-Butylbenzene [135-98-8] ^	0.0007	U	mg/kg dry	1	0.0007	0.0011	2E25033	EPA 8260B	05/26/12 05:56	kat	
Styrene [100-42-5] ^	0.0005	U	mg/kg dry	1	0.0005	0.0011	2E25033	EPA 8260B	05/26/12 05:56	kat	
tert-Butylbenzene [98-06-6] ^	0.0006	U	mg/kg dry	1	0.0006	0.0011	2E25033	EPA 8260B	05/26/12 05:56	kat	
Tetrachloroethene [127-18-4] ^	0.0005	U	mg/kg dry	1	0.0005	0.0011	2E25033	EPA 8260B	05/26/12 05:56	kat	
Toluene [108-88-3] ^	0.0005	U	mg/kg dry	1	0.0005	0.0011	2E25033	EPA 8260B	05/26/12 05:56	kat	
trans-1,2-Dichloroethene [156-60-5] ^	0.0007	U	mg/kg dry	1	0.0007	0.0011	2E25033	EPA 8260B	05/26/12 05:56	kat	
trans-1,3-Dichloropropene [10061-02-6] ^	0.0003	U	mg/kg dry	1	0.0003	0.0011	2E25033	EPA 8260B	05/26/12 05:56	kat	
Trichloroethene [79-01-6] ^	0.0005	U	mg/kg dry	1	0.0005	0.0011	2E25033	EPA 8260B	05/26/12 05:56	kat	
Trichlorofluoromethane [75-69-4] ^	0.0006	U	mg/kg dry	1	0.0006	0.0011	2E25033	EPA 8260B	05/26/12 05:56	kat	
Vinyl chloride [75-01-4] ^	0.0005	U	mg/kg dry	1	0.0005	0.0011	2E25033	EPA 8260B	05/26/12 05:56	kat	
Xylenes (Total) [1330-20-7] ^	0.0010	U	mg/kg dry	1	0.0010	0.0021	2E25033	EPA 8260B	05/26/12 05:56	kat	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*92 %*	*71-126*	*2E25033*	*EPA 8260B*	*05/26/12 05:56*	*kat*	
Dibromofluoromethane	*50*	*1*	*50.0*	*100 %*	*72-133*	*2E25033*	*EPA 8260B*	*05/26/12 05:56*	*kat*	
Toluene-d8	*48*	*1*	*50.0*	*96 %*	*80-123*	*2E25033*	*EPA 8260B*	*05/26/12 05:56*	*kat*	

www.encolabs.com

Description:	SS-6 1-2'	**Lab Sample ID:**	C205559-06	**Received:**	05/18/12 11:45
Matrix:	Soil	**Sampled:**	05/16/12 15:00	**Work Order:**	C205559
Project:	Wilmington Materials	**Sampled By:**	Jayson A. Kilcoyne	**% Solids:**	95.2

Classical Chemistry Parameters

^ - ENCO Jacksonville certified analyte [NC 442]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Oil & Grease (HEM-SGT) Non-Polar Material [ECL-0104] ^	**134**		mg/kg dry	1	52.5	52.5	2E29001	EPA 9071B	05/31/12 13:07	MJF	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: SS-7 1-2'
Matrix: Soil
Project: Wilmington Materials

Lab Sample ID: C205559-07
Sampled: 05/16/12 15:50
Sampled By: Jayson A. Kilcoyne

Received: 05/18/12 11:45
Work Order: C205559
% Solids: 93.3

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Chromium [7440-47-3] ^	**0.978**		mg/kg dry	1	0.107	0.536	2E22008	EPA 6010C	05/23/12 13:28	JDH	
Lead [7439-92-1] ^	**1.12**		mg/kg dry	1	0.129	0.536	2E22008	EPA 6010C	05/23/12 13:28	JDH	

www.encolabs.com

Description: SS-7 1-2'
Matrix: Soil
Project: Wilmington Materials

Lab Sample ID: C205559-07
Sampled: 05/16/12 15:50
Sampled By: Jayson A. Kilcoyne

Received: 05/18/12 11:45
Work Order: C205559
% Solids: 93.3

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.0005	U	mg/kg dry	1	0.0005	0.0011	2E25033	EPA 8260B	05/26/12 06:26	kat	
1,1,1-Trichloroethane [71-55-6] ^	0.0004	U	mg/kg dry	1	0.0004	0.0011	2E25033	EPA 8260B	05/26/12 06:26	kat	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.0003	U	mg/kg dry	1	0.0003	0.0011	2E25033	EPA 8260B	05/26/12 06:26	kat	
1,1,2-Trichloroethane [79-00-5] ^	0.0006	U	mg/kg dry	1	0.0006	0.0011	2E25033	EPA 8260B	05/26/12 06:26	kat	
1,1-Dichloroethane [75-34-3] ^	0.0006	U	mg/kg dry	1	0.0006	0.0011	2E25033	EPA 8260B	05/26/12 06:26	kat	
1,1-Dichloroethene [75-35-4] ^	0.0007	U	mg/kg dry	1	0.0007	0.0011	2E25033	EPA 8260B	05/26/12 06:26	kat	
1,1-Dichloropropene [563-58-6] ^	0.0006	U	mg/kg dry	1	0.0006	0.0011	2E25033	EPA 8260B	05/26/12 06:26	kat	
1,2,3-Trichlorobenzene [87-61-6] ^	0.0010	U	mg/kg dry	1	0.0010	0.0011	2E25033	EPA 8260B	05/26/12 06:26	kat	
1,2,3-Trichloropropane [96-18-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.0011	2E25033	EPA 8260B	05/26/12 06:26	kat	
1,2,4-Trichlorobenzene [120-82-1] ^	0.0009	U	mg/kg dry	1	0.0009	0.0011	2E25033	EPA 8260B	05/26/12 06:26	kat	
1,2,4-Trimethylbenzene [95-63-6] ^	0.0007	U	mg/kg dry	1	0.0007	0.0011	2E25033	EPA 8260B	05/26/12 06:26	kat	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.0006	U	mg/kg dry	1	0.0006	0.0011	2E25033	EPA 8260B	05/26/12 06:26	kat	
1,2-Dibromoethane [106-93-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.0011	2E25033	EPA 8260B	05/26/12 06:26	kat	
1,2-Dichlorobenzene [95-50-1] ^	0.0005	U	mg/kg dry	1	0.0005	0.0011	2E25033	EPA 8260B	05/26/12 06:26	kat	
1,2-Dichloroethane [107-06-2] ^	0.0003	U	mg/kg dry	1	0.0003	0.0011	2E25033	EPA 8260B	05/26/12 06:26	kat	
1,2-Dichloropropane [78-87-5] ^	0.0006	U	mg/kg dry	1	0.0006	0.0011	2E25033	EPA 8260B	05/26/12 06:26	kat	
1,3,5-Trimethylbenzene [108-67-8] ^	0.0006	U	mg/kg dry	1	0.0006	0.0011	2E25033	EPA 8260B	05/26/12 06:26	kat	
1,3-Dichlorobenzene [541-73-1] ^	0.0005	U	mg/kg dry	1	0.0005	0.0011	2E25033	EPA 8260B	05/26/12 06:26	kat	
1,3-Dichloropropane [142-28-9] ^	0.0004	U	mg/kg dry	1	0.0004	0.0011	2E25033	EPA 8260B	05/26/12 06:26	kat	
1,4-Dichlorobenzene [106-46-7] ^	0.0005	U	mg/kg dry	1	0.0005	0.0011	2E25033	EPA 8260B	05/26/12 06:26	kat	
2,2-Dichloropropane [594-20-7] ^	0.0004	U	mg/kg dry	1	0.0004	0.0011	2E25033	EPA 8260B	05/26/12 06:26	kat	
2-Butanone [78-93-3] ^	0.0019	U	mg/kg dry	1	0.0019	0.0054	2E25033	EPA 8260B	05/26/12 06:26	kat	
2-Chloroethyl Vinyl Ether [110-75-8] ^	0.0018	U	mg/kg dry	1	0.001B	0.0054	2E25033	EPA 8260B	05/26/12 06:26	kat	
2-Chlorotoluene [95-49-8] ^	0.0005	U	mg/kg dry	1	0.0005	0.0011	2E25033	EPA 8260B	05/26/12 06:26	kat	
2-Hexanone [591-78-6] ^	0.0010	U	mg/kg dry	1	0.0010	0.0054	2E25033	EPA 8260B	05/26/12 06:26	kat	
4-Chlorotoluene [106-43-4] ^	0.0007	U	mg/kg dry	1	0.0007	0.0011	2E25033	EPA 8260B	05/26/12 06:26	kat	
4-Isopropyltoluene [99-87-6] ^	0.0008	U	mg/kg dry	1	0.0008	0.0011	2E25033	EPA 8260B	05/26/12 06:26	kat	
4-Methyl-2-pentanone [108-10-1] ^	0.0015	U	mg/kg dry	1	0.0015	0.0054	2E25033	EPA 8260B	05/26/12 06:26	kat	
Acetone [67-64-1] ^	0.0018	U	mg/kg dry	1	0.0018	0.0054	2E25033	EPA 8260B	05/26/12 06:26	kat	
Benzene [71-43-2] ^	0.0004	U	mg/kg dry	1	0.0004	0.0011	2E25033	EPA 8260B	05/26/12 06:26	kat	
Bromobenzene [108-86-1] ^	0.0004	U	mg/kg dry	1	0.0004	0.0011	2E25033	EPA 8260B	05/26/12 06:26	kat	
Bromochloromethane [74-97-5] ^	0.0004	U	mg/kg dry	1	0.0004	0.0011	2E25033	EPA 8260B	05/26/12 06:26	kat	
Bromodichloromethane [75-27-4] ^	0.0004	U	mg/kg dry	1	0.0004	0.0011	2E25033	EPA 8260B	05/26/12 06:26	kat	
Bromoform [75-25-2] ^	0.0003	U	mg/kg dry	1	0.0003	0.0011	2E25033	EPA 8260B	05/26/12 06:26	kat	
Bromomethane [74-83-9] ^	0.0010	U	mg/kg dry	1	0.0010	0.0011	2E25033	EPA 8260B	05/26/12 06:26	kat	
Carbon disulfide [75-15-0] ^	0.0023	U	mg/kg dry	1	0.0023	0.0054	2E25033	EPA 8260B	05/26/12 06:26	kat	
Carbon Tetrachloride [56-23-5] ^	0.0006	U	mg/kg dry	1	0.0006	0.0011	2E25033	EPA 8260B	05/26/12 06:26	kat	
Chlorobenzene [108-90-7] ^	0.0005	U	mg/kg dry	1	0.0005	0.0011	2E25033	EPA 8260B	05/26/12 06:26	kat	
Chloroethane [75-00-3] ^	0.0006	U	mg/kg dry	1	0.0006	0.0011	2E25033	EPA 8260B	05/26/12 06:26	kat	
Chloroform [67-66-3] ^	0.0005	U	mg/kg dry	1	0.0005	0.0011	2E25033	EPA 8260B	05/26/12 06:26	kat	
Chloromethane [74-87-3] ^	0.0007	U	mg/kg dry	1	0.0007	0.0011	2E25033	EPA 8260B	05/26/12 06:26	kat	
cis-1,2-Dichloroethene [156-59-2] ^	0.0006	U	mg/kg dry	1	0.0006	0.0011	2E25033	EPA 8260B	05/26/12 06:26	kat	
cis-1,3-Dichloropropene [10061-01-5] ^	0.0003	U	mg/kg dry	1	0.0003	0.0011	2E25033	EPA 8260B	05/26/12 06:26	kat	
Dibromochloromethane [124-48-1] ^	0.0003	U	mg/kg dry	1	0.0003	0.0011	2E25033	EPA 8260B	05/26/12 06:26	kat	
Dibromomethane [74-95-3] ^	0.0004	U	mg/kg dry	1	0.0004	0.0011	2E25033	EPA 8260B	05/26/12 06:26	kat	
Dichlorodifluoromethane [75-71-8] ^	0.0007	U	mg/kg dry	1	0.0007	0.0011	2E25033	EPA 8260B	05/26/12 06:26	kat	
Ethylbenzene [100-41-4] ^	0.0006	U	mg/kg dry	1	0.0006	0.0011	2E25033	EPA 8260B	05/26/12 06:26	kat	
Hexachlorobutadiene [87-68-3] ^	0.0010	U	mg/kg dry	1	0.0010	0.0011	2E25033	EPA 8260B	05/26/12 06:26	kat	
Isopropylbenzene [98-82-8] ^	0.0006	U	mg/kg dry	1	0.0006	0.0011	2E25033	EPA 8260B	05/26/12 06:26	kat	
m,p-Xylenes [108-38-3/106-42-3] ^	0.0011	U	mg/kg dry	1	0.0011	0.0021	2E25033	EPA 8260B	05/26/12 06:26	kat	
Methylene Chloride [75-09-2] ^	0.0007	U	mg/kg dry	1	0.0007	0.0021	2E25033	EPA 8260B	05/26/12 06:26	kat	

www.encolabs.com

Description: SS-7 1-2'
Matrix: Soil
Project: Wilmington Materials

Lab Sample ID: C205559-07
Sampled: 05/16/12 15:50
Sampled By: Jayson A. Kilcoyne

Received: 05/18/12 11:45
Work Order: C205559
% Solids: 93.3

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Methyl-tert-Butyl Ether [1634-04-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.0011	2E25033	EPA 8260B	05/26/12 06:26	kat	
Naphthalene [91-20-3] ^	0.0006	U	mg/kg dry	1	0.0006	0.0011	2E25033	EPA 8260B	05/26/12 06:26	kat	
n-Butyl Benzene [104-51-8] ^	0.0010	U	mg/kg dry	1	0.0010	0.0011	2E25033	EPA 8260B	05/26/12 06:26	kat	
n-Propyl Benzene [103-65-1] ^	0.0007	U	mg/kg dry	1	0.0007	0.0011	2E25033	EPA 8260B	05/26/12 06:26	kat	
o-Xylene [95-47-6] ^	0.0006	U	mg/kg dry	1	0.0006	0.0011	2E25033	EPA 8260B	05/26/12 06:26	kat	
sec-Butylbenzene [135-98-8] ^	0.0007	U	mg/kg dry	1	0.0007	0.0011	2E25033	EPA 8260B	05/26/12 06:26	kat	
Styrene [100-42-5] ^	0.0005	U	mg/kg dry	1	0.0005	0.0011	2E25033	EPA 8260B	05/26/12 06:26	kat	
tert-Butylbenzene [98-06-6] ^	0.0006	U	mg/kg dry	1	0.0006	0.0011	2E25033	EPA 8260B	05/26/12 06:26	kat	
Tetrachloroethene [127-18-4] ^	0.0005	U	mg/kg dry	1	0.0005	0.0011	2E25033	EPA 8260B	05/26/12 06:26	kat	
Toluene [108-88-3] ^	0.0005	U	mg/kg dry	1	0.0005	0.0011	2E25033	EPA 8260B	05/26/12 06:26	kat	
trans-1,2-Dichloroethene [156-60-5] ^	0.0007	U	mg/kg dry	1	0.0007	0.0011	2E25033	EPA 8260B	05/26/12 06:26	kat	
trans-1,3-Dichloropropene [10061-02-6] ^	0.0003	U	mg/kg dry	1	0.0003	0.0011	2E25033	EPA 8260B	05/26/12 06:26	kat	
Trichloroethene [79-01-6] ^	0.0005	U	mg/kg dry	1	0.0005	0.0011	2E25033	EPA 8260B	05/26/12 06:26	kat	
Trichlorofluoromethane [75-69-4] ^	0.0006	U	mg/kg dry	1	0.0006	0.0011	2E25033	EPA 8260B	05/26/12 06:26	kat	
Vinyl chloride [75-01-4] ^	0.0005	U	mg/kg dry	1	0.0005	0.0011	2E25033	EPA 8260B	05/26/12 06:26	kat	
Xylenes (Total) [1330-20-7] ^	0.0011	U	mg/kg dry	1	0.0011	0.0021	2E25033	EPA 8260B	05/26/12 06:26	kat	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*91 %*	*71-126*	*2E25033*	*EPA 8260B*	*05/26/12 06:26*	*kat*	
Dibromofluoromethane	*51*	*1*	*50.0*	*101 %*	*72-133*	*2E25033*	*EPA 8260B*	*05/26/12 06:26*	*kat*	
Toluene-d8	*45*	*1*	*50.0*	*90 %*	*80-123*	*2E25033*	*EPA 8260B*	*05/26/12 06:26*	*kat*	

www.encolabs.com

Description: SS-7 1-2'
Matrix: Soil
Project: Wilmington Materials

Lab Sample ID: C205559-07
Sampled: 05/16/12 15:50
Sampled By: Jayson A. Kilcoyne

Received: 05/18/12 11:45
Work Order: C205559
% Solids: 93.3

Classical Chemistry Parameters

^ - ENCO Jacksonville certified analyte [NC 442]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Oil & Grease (HEM-SGT) Non-Polar Material [ECL-0104] ^	**113**		mg/kg dry	1	53.6	53.6	2E29001	EPA 9071B	05/31/12 13:07	MJF	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: TW-1
Matrix: Ground Water
Project: Wilmington Materials

Lab Sample ID: C205559-08
Sampled: 05/17/12 12:15
Sampled By: Jayson A. Kilcoyne

Received: 05/18/12 11:45
Work Order: C205559

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.091	U	ug/L	1	0.091	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
1,1-Dichloropropene [563-58-6] ^	0.063	U	ug/L	1	0.063	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.25	U	ug/L	1	0.25	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.097	U	ug/L	1	0.097	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.067	U	ug/L	1	0.067	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.10	U	ug/L	1	0.10	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.092	U	ug/L	1	0.092	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
1,3-Dichloropropane [142-28-9] ^	0.15	U	ug/L	1	0.15	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
2,2-Dichloropropane [594-20-7] ^	0.12	U	ug/L	1	0.12	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
2-Chlorotoluene [95-49-8] ^	0.10	U	ug/L	1	0.10	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
4-Chlorotoluene [106-43-4] ^	0.10	U	ug/L	1	0.10	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
4-Isopropyltoluene [99-87-6] ^	0.066	U	ug/L	1	0.066	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
Bromobenzene [108-86-1] ^	0.13	U	ug/L	1	0.13	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
Carbon Tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.091	U	ug/L	1	0.091	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
Freon 113 [76-13-1] ^	0.35	U	ug/L	1	0.35	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
Hexachlorobutadiene [87-68-3] ^	0.15	U	ug/L	1	0.15	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
Isopropyl Ether [108-20-3] ^	0.21	U	ug/L	1	0.21	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
Isopropylbenzene [98-82-8] ^	0.13	U	ug/L	1	0.13	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.18	U	ug/L	1	0.18	2.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
Methylene Chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	2.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.12	U	ug/L	1	0.12	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
Naphthalene [91-20-3] ^	0.086	U	ug/L	1	0.086	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
n-Butyl Benzene [104-51-8] ^	0.074	U	ug/L	1	0.074	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
n-Propyl Benzene [103-65-1] ^	0.073	U	ug/L	1	0.073	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	

www.encolabs.com

Description: TW-1
Matrix: Ground Water
Project: Wilmington Materials

Lab Sample ID: C205559-08
Sampled: 05/17/12 12:15
Sampled By: Jayson A. Kilcoyne

Received: 05/18/12 11:45
Work Order: C205559

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
o-Xylene [95-47-6] ^	0.088	U	ug/L	1	0.088	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
sec-Butylbenzene [135-98-8] ^	0.053	U	ug/L	1	0.053	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
tert-Butylbenzene [98-06-6] ^	0.094	U	ug/L	1	0.094	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	2E29011	SM21 6200B	05/29/12 17:08	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*43*	*1*	*50.0*	*86 %*	*51-122*	*2E29011*	*SM21 6200B*	*05/29/12 17:08*	*JKG*	
Dibromofluoromethane	*44*	*1*	*50.0*	*89 %*	*68-117*	*2E29011*	*SM21 6200B*	*05/29/12 17:08*	*JKG*	
Toluene-d8	*40*	*1*	*50.0*	*80 %*	*67-127*	*2E29011*	*SM21 6200B*	*05/29/12 17:08*	*JKG*	

www.encolabs.com

Description: TW-1
Matrix: Ground Water
Project: Wilmington Materials

Lab Sample ID: C205559-08
Sampled: 05/17/12 12:15
Sampled By: Jayson A. Kilcoyne

Received: 05/18/12 11:45
Work Order: C205559

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,2,4-Trichlorobenzene [120-82-1] ^	1.2	U	ug/L	1	1.2	10	2E24031	EPA 625	05/25/12 03:36	DFM	
1,2-Dichlorobenzene [95-50-1] ^	1.1	U	ug/L	1	1.1	10	2E24031	EPA 625	05/25/12 03:36	DFM	
1,3-Dichlorobenzene [541-73-1] ^	1.1	U	ug/L	1	1.1	10	2E24031	EPA 625	05/25/12 03:36	DFM	
1,4-Dichlorobenzene [106-46-7] ^	1.0	U	ug/L	1	1.0	10	2E24031	EPA 625	05/25/12 03:36	DFM	
1-Methylnaphthalene [90-12-0] ^	1.7	U	ug/L	1	1.7	10	2E24031	EPA 625	05/25/12 03:36	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	2E24031	EPA 625	05/25/12 03:36	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	2E24031	EPA 625	05/25/12 03:36	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	2E24031	EPA 625	05/25/12 03:36	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	2E24031	EPA 625	05/25/12 03:36	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	2E24031	EPA 625	05/25/12 03:36	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	2E24031	EPA 625	05/25/12 03:36	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	2E24031	EPA 625	05/25/12 03:36	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	2E24031	EPA 625	05/25/12 03:36	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	2E24031	EPA 625	05/25/12 03:36	DFM	QV-01
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	2E24031	EPA 625	05/25/12 03:36	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	2E24031	EPA 625	05/25/12 03:36	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	2E24031	EPA 625	05/25/12 03:36	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	2E24031	EPA 625	05/25/12 03:36	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	2E24031	EPA 625	05/25/12 03:36	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	2E24031	EPA 625	05/25/12 03:36	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	2E24031	EPA 625	05/25/12 03:36	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	2E24031	EPA 625	05/25/12 03:36	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	2E24031	EPA 625	05/25/12 03:36	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	2E24031	EPA 625	05/25/12 03:36	DFM	
Benzidine [92-87-5] ^	1.6	U	ug/L	1	1.6	10	2E24031	EPA 625	05/25/12 03:36	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	2E24031	EPA 625	05/25/12 03:36	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	2E24031	EPA 625	05/25/12 03:36	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	2E24031	EPA 625	05/25/12 03:36	DFM	
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	2E24031	EPA 625	05/25/12 03:36	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	2E24031	EPA 625	05/25/12 03:36	DFM	QV-01
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	2E24031	EPA 625	05/25/12 03:36	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	2E24031	EPA 625	05/25/12 03:36	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	2E24031	EPA 625	05/25/12 03:36	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	2E24031	EPA 625	05/25/12 03:36	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	2E24031	EPA 625	05/25/12 03:36	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	2E24031	EPA 625	05/25/12 03:36	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	2E24031	EPA 625	05/25/12 03:36	DFM	
Diethylphthalate [84-66-2] ^	**3.7**	J	ug/L	1	2.1	10	2E24031	EPA 625	05/25/12 03:36	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	2E24031	EPA 625	05/25/12 03:36	DFM	
Di-n-butylphthalate [84-74-2] ^	**1.6**	J	ug/L	1	1.5	10	2E24031	EPA 625	05/25/12 03:36	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	2E24031	EPA 625	05/25/12 03:36	DFM	QV-01
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	2E24031	EPA 625	05/25/12 03:36	DFM	QV-02
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	2E24031	EPA 625	05/25/12 03:36	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	2E24031	EPA 625	05/25/12 03:36	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	2E24031	EPA 625	05/25/12 03:36	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	2E24031	EPA 625	05/25/12 03:36	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	2E24031	EPA 625	05/25/12 03:36	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	2E24031	EPA 625	05/25/12 03:36	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	2E24031	EPA 625	05/25/12 03:36	DFM	
Naphthalene [91-20-3] ^	1.3	U	ug/L	1	1.3	10	2E24031	EPA 625	05/25/12 03:36	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	2E24031	EPA 625	05/25/12 03:36	DFM	

www.encolabs.com

Description: TW-1
Matrix: Ground Water
Project: Wilmington Materials

Lab Sample ID: C205559-08
Sampled: 05/17/12 12:15
Sampled By: Jayson A. Kilcoyne

Received: 05/18/12 11:45
Work Order: C205559

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	2E24031	EPA 625	05/25/12 03:36	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	2E24031	EPA 625	05/25/12 03:36	DFM	
N-Nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	2E24031	EPA 625	05/25/12 03:36	DFM	
Pentachlorophenol [87-86-5] ^	1.8	U	ug/L	1	1.8	10	2E24031	EPA 625	05/25/12 03:36	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	2E24031	EPA 625	05/25/12 03:36	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	2E24031	EPA 625	05/25/12 03:36	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	2E24031	EPA 625	05/25/12 03:36	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*78*	*1*	*100*	*78 %*	*18-157*	*2E24031*	*EPA 625*	*05/25/12 03:36*	*DFM*	
2-Fluorobiphenyl	*45*	*1*	*50.0*	*90 %*	*15-139*	*2E24031*	*EPA 625*	*05/25/12 03:36*	*DFM*	
2-Fluorophenol	*59*	*1*	*100*	*59 %*	*10-104*	*2E24031*	*EPA 625*	*05/25/12 03:36*	*DFM*	
Nitrobenzene-d5	*38*	*1*	*50.0*	*75 %*	*16-140*	*2E24031*	*EPA 625*	*05/25/12 03:36*	*DFM*	
Phenol-d5	*48*	*1*	*100*	*48 %*	*10-83*	*2E24031*	*EPA 625*	*05/25/12 03:36*	*DFM*	
Terphenyl-d14	*47*	*1*	*50.0*	*95 %*	*23-164*	*2E24031*	*EPA 625*	*05/25/12 03:36*	*DFM*	

www.encolabs.com

Description: TW-1
Matrix: Ground Water
Project: Wilmington Materials

Lab Sample ID: C205559-08
Sampled: 05/17/12 12:15
Sampled By: Jayson A. Kilcoyne

Received: 05/18/12 11:45
Work Order: C205559

Tentatively Identified Compounds by Semivolatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Caprolactam [105-60-2]	**220**	J	ug/L	1			2E24031	EPA 625	05/25/12 03:36	DFM	
Octadecanoic acid [000057-11-4]	**9.6**	J	ug/L	1			2E24031	EPA 625	05/25/12 03:36	DFM	
Unknown (01) [NA]	**16**	JB	ug/L	1			2E24031	EPA 625	05/25/12 03:36	DFM	B
Unknown (02) [NA]	**9.7**	J	ug/L	1			2E24031	EPA 625	05/25/12 03:36	DFM	
Unknown (03) [NA]	**12**	J	ug/L	1			2E24031	EPA 625	05/25/12 03:36	DFM	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: TW-2
Matrix: Ground Water
Project: Wilmington Materials

Lab Sample ID: C205559-09
Sampled: 05/17/12 11:25
Sampled By: Jayson A. Kilcoyne

Received: 05/18/12 11:45
Work Order: C205559

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.091	U	ug/L	1	0.091	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
1,1-Dichloropropene [563-58-6] ^	0.063	U	ug/L	1	0.063	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.25	U	ug/L	1	0.25	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.097	U	ug/L	1	0.097	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.067	U	ug/L	1	0.067	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.10	U	ug/L	1	0.10	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.092	U	ug/L	1	0.092	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
1,3-Dichloropropane [142-28-9] ^	0.15	U	ug/L	1	0.15	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
2,2-Dichloropropane [594-20-7] ^	0.12	U	ug/L	1	0.12	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
2-Chlorotoluene [95-49-8] ^	0.10	U	ug/L	1	0.10	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
4-Chlorotoluene [106-43-4] ^	0.10	U	ug/L	1	0.10	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
4-Isopropyltoluene [99-87-6] ^	0.066	U	ug/L	1	0.066	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
Bromobenzene [108-86-1] ^	0.13	U	ug/L	1	0.13	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
Carbon Tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.091	U	ug/L	1	0.091	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
Freon 113 [76-13-1] ^	0.35	U	ug/L	1	0.35	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
Hexachlorobutadiene [87-68-3] ^	0.15	U	ug/L	1	0.15	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
Isopropyl Ether [108-20-3] ^	0.21	U	ug/L	1	0.21	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
Isopropylbenzene [98-82-8] ^	0.13	U	ug/L	1	0.13	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.18	U	ug/L	1	0.18	2.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
Methylene Chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	2.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.12	U	ug/L	1	0.12	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
Naphthalene [91-20-3] ^	0.086	U	ug/L	1	0.086	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
n-Butyl Benzene [104-51-8] ^	0.074	U	ug/L	1	0.074	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
n-Propyl Benzene [103-65-1] ^	0.073	U	ug/L	1	0.073	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	

www.encolabs.com

Description: TW-2
Matrix: Ground Water
Project: Wilmington Materials

Lab Sample ID: C205559-09
Sampled: 05/17/12 11:25
Sampled By: Jayson A. Kilcoyne

Received: 05/18/12 11:45
Work Order: C205559

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
o-Xylene [95-47-6] ^	0.088	U	ug/L	1	0.088	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
sec-Butylbenzene [135-98-8] ^	0.053	U	ug/L	1	0.053	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
tert-Butylbenzene [98-06-6] ^	0.094	U	ug/L	1	0.094	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
Tetrachloroethene [127-18-4] ^	**4.5**		ug/L	1	0.099	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	2E29011	SM21 6200B	05/29/12 17:38	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*43*	*1*	*50.0*	*86 %*	*51-122*	*2E29011*	*SM21 6200B*	*05/29/12 17:38*	*JKG*	
Dibromofluoromethane	*45*	*1*	*50.0*	*90 %*	*68-117*	*2E29011*	*SM21 6200B*	*05/29/12 17:38*	*JKG*	
Toluene-d8	*41*	*1*	*50.0*	*82 %*	*67-127*	*2E29011*	*SM21 6200B*	*05/29/12 17:38*	*JKG*	

www.encolabs.com

Description: TW-2
Matrix: Ground Water
Project: Wilmington Materials

Lab Sample ID: C205559-09
Sampled: 05/17/12 11:25
Sampled By: Jayson A. Kilcoyne

Received: 05/18/12 11:45
Work Order: C205559

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,2,4-Trichlorobenzene [120-82-1] ^	1.2	U	ug/L	1	1.2	10	2E24031	EPA 625	05/25/12 04:03	DFM	
1,2-Dichlorobenzene [95-50-1] ^	1.1	U	ug/L	1	1.1	10	2E24031	EPA 625	05/25/12 04:03	DFM	
1,3-Dichlorobenzene [541-73-1] ^	1.1	U	ug/L	1	1.1	10	2E24031	EPA 625	05/25/12 04:03	DFM	
1,4-Dichlorobenzene [106-46-7] ^	1.0	U	ug/L	1	1.0	10	2E24031	EPA 625	05/25/12 04:03	DFM	
1-Methylnaphthalene [90-12-0] ^	1.7	U	ug/L	1	1.7	10	2E24031	EPA 625	05/25/12 04:03	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	2E24031	EPA 625	05/25/12 04:03	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	2E24031	EPA 625	05/25/12 04:03	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	2E24031	EPA 625	05/25/12 04:03	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	2E24031	EPA 625	05/25/12 04:03	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	2E24031	EPA 625	05/25/12 04:03	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	2E24031	EPA 625	05/25/12 04:03	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	2E24031	EPA 625	05/25/12 04:03	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	2E24031	EPA 625	05/25/12 04:03	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	2E24031	EPA 625	05/25/12 04:03	DFM	QV-01
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	2E24031	EPA 625	05/25/12 04:03	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	2E24031	EPA 625	05/25/12 04:03	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	2E24031	EPA 625	05/25/12 04:03	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	2E24031	EPA 625	05/25/12 04:03	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	2E24031	EPA 625	05/25/12 04:03	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	2E24031	EPA 625	05/25/12 04:03	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	2E24031	EPA 625	05/25/12 04:03	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	2E24031	EPA 625	05/25/12 04:03	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	2E24031	EPA 625	05/25/12 04:03	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	2E24031	EPA 625	05/25/12 04:03	DFM	
Benzidine [92-87-5] ^	1.6	U	ug/L	1	1.6	10	2E24031	EPA 625	05/25/12 04:03	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	2E24031	EPA 625	05/25/12 04:03	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	2E24031	EPA 625	05/25/12 04:03	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	2E24031	EPA 625	05/25/12 04:03	DFM	
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	2E24031	EPA 625	05/25/12 04:03	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	2E24031	EPA 625	05/25/12 04:03	DFM	QV-01
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	2E24031	EPA 625	05/25/12 04:03	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	2E24031	EPA 625	05/25/12 04:03	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	2E24031	EPA 625	05/25/12 04:03	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	2E24031	EPA 625	05/25/12 04:03	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	2E24031	EPA 625	05/25/12 04:03	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	2E24031	EPA 625	05/25/12 04:03	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	2E24031	EPA 625	05/25/12 04:03	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	2E24031	EPA 625	05/25/12 04:03	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	2E24031	EPA 625	05/25/12 04:03	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	2E24031	EPA 625	05/25/12 04:03	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	2E24031	EPA 625	05/25/12 04:03	DFM	QV-01
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	2E24031	EPA 625	05/25/12 04:03	DFM	QV-02
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	2E24031	EPA 625	05/25/12 04:03	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	2E24031	EPA 625	05/25/12 04:03	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	2E24031	EPA 625	05/25/12 04:03	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	2E24031	EPA 625	05/25/12 04:03	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	2E24031	EPA 625	05/25/12 04:03	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	2E24031	EPA 625	05/25/12 04:03	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	2E24031	EPA 625	05/25/12 04:03	DFM	
Naphthalene [91-20-3] ^	1.3	U	ug/L	1	1.3	10	2E24031	EPA 625	05/25/12 04:03	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	2E24031	EPA 625	05/25/12 04:03	DFM	

www.encolabs.com

Description: TW-2
Matrix: Ground Water
Project: Wilmington Materials

Lab Sample ID: C205559-09
Sampled: 05/17/12 11:25
Sampled By: Jayson A. Kilcoyne

Received: 05/18/12 11:45
Work Order: C205559

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	2E24031	EPA 625	05/25/12 04:03	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	2E24031	EPA 625	05/25/12 04:03	DFM	
N-Nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	2E24031	EPA 625	05/25/12 04:03	DFM	
Pentachlorophenol [87-86-5] ^	1.8	U	ug/L	1	1.8	10	2E24031	EPA 625	05/25/12 04:03	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	2E24031	EPA 625	05/25/12 04:03	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	2E24031	EPA 625	05/25/12 04:03	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	2E24031	EPA 625	05/25/12 04:03	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*71*	*1*	*100*	*71 %*	*18-157*	*2E24031*	*EPA 625*	*05/25/12 04:03*	*DFM*	
2-Fluorobiphenyl	*40*	*1*	*50.0*	*79 %*	*15-139*	*2E24031*	*EPA 625*	*05/25/12 04:03*	*DFM*	
2-Fluorophenol	*49*	*1*	*100*	*49 %*	*10-104*	*2E24031*	*EPA 625*	*05/25/12 04:03*	*DFM*	
Nitrobenzene-d5	*33*	*1*	*50.0*	*65 %*	*16-140*	*2E24031*	*EPA 625*	*05/25/12 04:03*	*DFM*	
Phenol-d5	*39*	*1*	*100*	*39 %*	*10-83*	*2E24031*	*EPA 625*	*05/25/12 04:03*	*DFM*	
Terphenyl-d14	*44*	*1*	*50.0*	*87 %*	*23-164*	*2E24031*	*EPA 625*	*05/25/12 04:03*	*DFM*	

www.encolabs.com

Description: TW-2
Matrix: Ground Water
Project: Wilmington Materials

Lab Sample ID: C205559-09
Sampled: 05/17/12 11:25
Sampled By: Jayson A. Kilcoyne

Received: 05/18/12 11:45
Work Order: C205559

Tentatively Identified Compounds by Semivolatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Caprolactam [105-60-2]	**41**	J	ug/L	1			2E24031	EPA 625	05/25/12 04:03	DFM	
Octadecanoic acid [000057-11-4]	**5.8**	J	ug/L	1			2E24031	EPA 625	05/25/12 04:03	DFM	
Unknown (01) [NA]	**13**	JB	ug/L	1			2E24031	EPA 625	05/25/12 04:03	DFM	B
Unknown (02) [NA]	**4.1**	J	ug/L	1			2E24031	EPA 625	05/25/12 04:03	DFM	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: TW-3
Matrix: Ground Water
Project: Wilmington Materials

Lab Sample ID: C205559-10
Sampled: 05/17/12 14:05
Sampled By: Jayson A. Kilcoyne

Received: 05/18/12 11:45
Work Order: C205559

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.091	U	ug/L	1	0.091	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
1,1-Dichloropropene [563-58-6] ^	0.063	U	ug/L	1	0.063	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.25	U	ug/L	1	0.25	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.097	U	ug/L	1	0.097	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.067	U	ug/L	1	0.067	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.10	U	ug/L	1	0.10	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.092	U	ug/L	1	0.092	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
1,3-Dichloropropane [142-28-9] ^	0.15	U	ug/L	1	0.15	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
2,2-Dichloropropane [594-20-7] ^	0.12	U	ug/L	1	0.12	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
2-Chlorotoluene [95-49-8] ^	0.10	U	ug/L	1	0.10	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
4-Chlorotoluene [106-43-4] ^	0.10	U	ug/L	1	0.10	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
4-Isopropyltoluene [99-87-6] ^	0.066	U	ug/L	1	0.066	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
Bromobenzene [108-86-1] ^	0.13	U	ug/L	1	0.13	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
Carbon Tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.091	U	ug/L	1	0.091	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
Freon 113 [76-13-1] ^	0.35	U	ug/L	1	0.35	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
Hexachlorobutadiene [87-68-3] ^	0.15	U	ug/L	1	0.15	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
Isopropyl Ether [108-20-3] ^	0.21	U	ug/L	1	0.21	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
Isopropylbenzene [98-82-8] ^	0.13	U	ug/L	1	0.13	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.18	U	ug/L	1	0.18	2.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
Methylene Chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	2.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.12	U	ug/L	1	0.12	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
Naphthalene [91-20-3] ^	0.086	U	ug/L	1	0.086	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
n-Butyl Benzene [104-51-8] ^	0.074	U	ug/L	1	0.074	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
n-Propyl Benzene [103-65-1] ^	0.073	U	ug/L	1	0.073	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	

www.encolabs.com

Description: TW-3
Matrix: Ground Water
Project: Wilmington Materials

Lab Sample ID: C205559-10
Sampled: 05/17/12 14:05
Sampled By: Jayson A. Kilcoyne

Received: 05/18/12 11:45
Work Order: C205559

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
o-Xylene [95-47-6] ^	0.088	U	ug/L	1	0.088	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
sec-Butylbenzene [135-98-8] ^	0.053	U	ug/L	1	0.053	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
tert-Butylbenzene [98-06-6] ^	0.094	U	ug/L	1	0.094	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
Tetrachloroethene [127-18-4] ^	**5.7**		ug/L	1	0.099	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	2E29011	SM21 6200B	05/29/12 18:07	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*42*	*1*	*50.0*	*84 %*	*51-122*	*2E29011*	*SM21 6200B*	*05/29/12 18:07*	*JKG*	
Dibromofluoromethane	*42*	*1*	*50.0*	*85 %*	*68-117*	*2E29011*	*SM21 6200B*	*05/29/12 18:07*	*JKG*	
Toluene-d8	*39*	*1*	*50.0*	*78 %*	*67-127*	*2E29011*	*SM21 6200B*	*05/29/12 18:07*	*JKG*	

www.encolabs.com

Description: TW-3 | **Lab Sample ID:** C205559-10 | **Received:** 05/18/12 11:45

Matrix: Ground Water | **Sampled:** 05/17/12 14:05 | **Work Order:** C205559

Project: Wilmington Materials | **Sampled By:** Jayson A. Kilcoyne

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,2,4-Trichlorobenzene [120-82-1] ^	1.2	U	ug/L	1	1.2	10	2E24031	EPA 625	05/25/12 04:30	DFM	
1,2-Dichlorobenzene [95-50-1] ^	1.1	U	ug/L	1	1.1	10	2E24031	EPA 625	05/25/12 04:30	DFM	
1,3-Dichlorobenzene [541-73-1] ^	1.1	U	ug/L	1	1.1	10	2E24031	EPA 625	05/25/12 04:30	DFM	
1,4-Dichlorobenzene [106-46-7] ^	1.0	U	ug/L	1	1.0	10	2E24031	EPA 625	05/25/12 04:30	DFM	
1-Methylnaphthalene [90-12-0] ^	1.7	U	ug/L	1	1.7	10	2E24031	EPA 625	05/25/12 04:30	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	2E24031	EPA 625	05/25/12 04:30	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	2E24031	EPA 625	05/25/12 04:30	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	2E24031	EPA 625	05/25/12 04:30	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	2E24031	EPA 625	05/25/12 04:30	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	2E24031	EPA 625	05/25/12 04:30	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	2E24031	EPA 625	05/25/12 04:30	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	2E24031	EPA 625	05/25/12 04:30	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	2E24031	EPA 625	05/25/12 04:30	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	2E24031	EPA 625	05/25/12 04:30	DFM	QV-01
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	2E24031	EPA 625	05/25/12 04:30	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	2E24031	EPA 625	05/25/12 04:30	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	2E24031	EPA 625	05/25/12 04:30	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	2E24031	EPA 625	05/25/12 04:30	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	2E24031	EPA 625	05/25/12 04:30	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	2E24031	EPA 625	05/25/12 04:30	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	2E24031	EPA 625	05/25/12 04:30	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	2E24031	EPA 625	05/25/12 04:30	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	2E24031	EPA 625	05/25/12 04:30	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	2E24031	EPA 625	05/25/12 04:30	DFM	
Benzidine [92-87-5] ^	1.6	U	ug/L	1	1.6	10	2E24031	EPA 625	05/25/12 04:30	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	2E24031	EPA 625	05/25/12 04:30	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	2E24031	EPA 625	05/25/12 04:30	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	2E24031	EPA 625	05/25/12 04:30	DFM	
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	2E24031	EPA 625	05/25/12 04:30	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	2E24031	EPA 625	05/25/12 04:30	DFM	QV-01
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	2E24031	EPA 625	05/25/12 04:30	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	2E24031	EPA 625	05/25/12 04:30	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	2E24031	EPA 625	05/25/12 04:30	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	**21**		ug/L	1	1.7	5.0	2E24031	EPA 625	05/25/12 04:30	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	2E24031	EPA 625	05/25/12 04:30	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	2E24031	EPA 625	05/25/12 04:30	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	2E24031	EPA 625	05/25/12 04:30	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	2E24031	EPA 625	05/25/12 04:30	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	2E24031	EPA 625	05/25/12 04:30	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	2E24031	EPA 625	05/25/12 04:30	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	2E24031	EPA 625	05/25/12 04:30	DFM	QV-01
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	2E24031	EPA 625	05/25/12 04:30	DFM	QV-02
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	2E24031	EPA 625	05/25/12 04:30	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	2E24031	EPA 625	05/25/12 04:30	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	2E24031	EPA 625	05/25/12 04:30	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	2E24031	EPA 625	05/25/12 04:30	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	2E24031	EPA 625	05/25/12 04:30	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	2E24031	EPA 625	05/25/12 04:30	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	2E24031	EPA 625	05/25/12 04:30	DFM	
Naphthalene [91-20-3] ^	1.3	U	ug/L	1	1.3	10	2E24031	EPA 625	05/25/12 04:30	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	2E24031	EPA 625	05/25/12 04:30	DFM	

www.encolabs.com

Description: TW-3
Matrix: Ground Water
Project: Wilmington Materials

Lab Sample ID: C205559-10
Sampled: 05/17/12 14:05
Sampled By: Jayson A. Kilcoyne

Received: 05/18/12 11:45
Work Order: C205559

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	2E24031	EPA 625	05/25/12 04:30	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	2E24031	EPA 625	05/25/12 04:30	DFM	
N-Nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	2E24031	EPA 625	05/25/12 04:30	DFM	
Pentachlorophenol [87-86-5] ^	1.8	U	ug/L	1	1.8	10	2E24031	EPA 625	05/25/12 04:30	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	2E24031	EPA 625	05/25/12 04:30	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	2E24031	EPA 625	05/25/12 04:30	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	2E24031	EPA 625	05/25/12 04:30	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*66*	*1*	*100*	*66 %*	*18-157*	*2E24031*	*EPA 625*	*05/25/12 04:30*	*DFM*	
2-Fluorobiphenyl	*45*	*1*	*50.0*	*91 %*	*15-139*	*2E24031*	*EPA 625*	*05/25/12 04:30*	*DFM*	
2-Fluorophenol	*58*	*1*	*100*	*58 %*	*10-104*	*2E24031*	*EPA 625*	*05/25/12 04:30*	*DFM*	
Nitrobenzene-d5	*37*	*1*	*50.0*	*73 %*	*16-140*	*2E24031*	*EPA 625*	*05/25/12 04:30*	*DFM*	
Phenol-d5	*43*	*1*	*100*	*43 %*	*10-83*	*2E24031*	*EPA 625*	*05/25/12 04:30*	*DFM*	
Terphenyl-d14	*45*	*1*	*50.0*	*90 %*	*23-164*	*2E24031*	*EPA 625*	*05/25/12 04:30*	*DFM*	

www.encolabs.com

Description: TW-3
Matrix: Ground Water
Project: Wilmington Materials

Lab Sample ID: C205559-10
Sampled: 05/17/12 14:05
Sampled By: Jayson A. Kilcoyne

Received: 05/18/12 11:45
Work Order: C205559

Tentatively Identified Compounds by Semivolatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Caprolactam [105-60-2]	**55**	J	ug/L	1			2E24031	EPA 625	05/25/12 04:30	DFM	
Unknown [NA]	**16**	JB	ug/L	1			2E24031	EPA 625	05/25/12 04:30	DFM	B

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: WSW-1
Matrix: Ground Water
Project: Wilmington Materials

Lab Sample ID: C205559-11
Sampled: 05/17/12 15:25
Sampled By: Jayson A. Kilcoyne

Received: 05/18/12 11:45
Work Order: C205559

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.091	U	ug/L	1	0.091	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
1,1-Dichloropropene [563-58-6] ^	0.063	U	ug/L	1	0.063	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.25	U	ug/L	1	0.25	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.097	U	ug/L	1	0.097	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.067	U	ug/L	1	0.067	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.10	U	ug/L	1	0.10	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.092	U	ug/L	1	0.092	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
1,3-Dichloropropane [142-28-9] ^	0.15	U	ug/L	1	0.15	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
2,2-Dichloropropane [594-20-7] ^	0.12	U	ug/L	1	0.12	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
2-Chlorotoluene [95-49-8] ^	0.10	U	ug/L	1	0.10	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
4-Chlorotoluene [106-43-4] ^	0.10	U	ug/L	1	0.10	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
4-Isopropyltoluene [99-87-6] ^	0.066	U	ug/L	1	0.066	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
Bromobenzene [108-86-1] ^	0.13	U	ug/L	1	0.13	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
Carbon Tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.091	U	ug/L	1	0.091	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
Freon 113 [76-13-1] ^	0.35	U	ug/L	1	0.35	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
Hexachlorobutadiene [87-68-3] ^	0.15	U	ug/L	1	0.15	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
Isopropyl Ether [108-20-3] ^	0.21	U	ug/L	1	0.21	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
Isopropylbenzene [98-82-8] ^	0.13	U	ug/L	1	0.13	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.18	U	ug/L	1	0.18	2.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
Methylene Chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	2.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.12	U	ug/L	1	0.12	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
Naphthalene [91-20-3] ^	0.086	U	ug/L	1	0.086	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
n-Butyl Benzene [104-51-8] ^	0.074	U	ug/L	1	0.074	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
n-Propyl Benzene [103-65-1] ^	0.073	U	ug/L	1	0.073	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	

www.encolabs.com

Description: WSW-1
Matrix: Ground Water
Project: Wilmington Materials

Lab Sample ID: C205559-11
Sampled: 05/17/12 15:25
Sampled By: Jayson A. Kilcoyne

Received: 05/18/12 11:45
Work Order: C205559

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
o-Xylene [95-47-6] ^	0.088	U	ug/L	1	0.088	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
sec-Butylbenzene [135-98-8] ^	0.053	U	ug/L	1	0.053	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
tert-Butylbenzene [98-06-6] ^	0.094	U	ug/L	1	0.094	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	2E29011	SM21 6200B	05/29/12 18:37	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*42*	*1*	*50.0*	*83 %*	*51-122*	*2E29011*	*SM21 6200B*	*05/29/12 18:37*	*JKG*	
Dibromofluoromethane	*45*	*1*	*50.0*	*89 %*	*68-117*	*2E29011*	*SM21 6200B*	*05/29/12 18:37*	*JKG*	
Toluene-d8	*40*	*1*	*50.0*	*81 %*	*67-127*	*2E29011*	*SM21 6200B*	*05/29/12 18:37*	*JKG*	

www.encolabs.com

Description: WSW-1
Matrix: Ground Water
Project: Wilmington Materials

Lab Sample ID: C205559-11
Sampled: 05/17/12 15:25
Sampled By: Jayson A. Kilcoyne

Received: 05/18/12 11:45
Work Order: C205559

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,2,4-Trichlorobenzene [120-82-1] ^	1.2	U	ug/L	1	1.2	10	2E24031	EPA 625	05/25/12 04:58	DFM	
1,2-Dichlorobenzene [95-50-1] ^	1.1	U	ug/L	1	1.1	10	2E24031	EPA 625	05/25/12 04:58	DFM	
1,3-Dichlorobenzene [541-73-1] ^	1.1	U	ug/L	1	1.1	10	2E24031	EPA 625	05/25/12 04:58	DFM	
1,4-Dichlorobenzene [106-46-7] ^	1.0	U	ug/L	1	1.0	10	2E24031	EPA 625	05/25/12 04:58	DFM	
1-Methylnaphthalene [90-12-0] ^	1.7	U	ug/L	1	1.7	10	2E24031	EPA 625	05/25/12 04:58	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	2E24031	EPA 625	05/25/12 04:58	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	2E24031	EPA 625	05/25/12 04:58	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	2E24031	EPA 625	05/25/12 04:58	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	2E24031	EPA 625	05/25/12 04:58	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	2E24031	EPA 625	05/25/12 04:58	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	2E24031	EPA 625	05/25/12 04:58	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	2E24031	EPA 625	05/25/12 04:58	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	2E24031	EPA 625	05/25/12 04:58	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	2E24031	EPA 625	05/25/12 04:58	DFM	QV-01
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	2E24031	EPA 625	05/25/12 04:58	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	2E24031	EPA 625	05/25/12 04:58	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	2E24031	EPA 625	05/25/12 04:58	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	2E24031	EPA 625	05/25/12 04:58	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	2E24031	EPA 625	05/25/12 04:58	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	2E24031	EPA 625	05/25/12 04:58	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	2E24031	EPA 625	05/25/12 04:58	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	2E24031	EPA 625	05/25/12 04:58	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	2E24031	EPA 625	05/25/12 04:58	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	2E24031	EPA 625	05/25/12 04:58	DFM	
Benzidine [92-87-5] ^	1.6	U	ug/L	1	1.6	10	2E24031	EPA 625	05/25/12 04:58	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	2E24031	EPA 625	05/25/12 04:58	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	2E24031	EPA 625	05/25/12 04:58	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	2E24031	EPA 625	05/25/12 04:58	DFM	
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	2E24031	EPA 625	05/25/12 04:58	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	2E24031	EPA 625	05/25/12 04:58	DFM	QV-01
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	2E24031	EPA 625	05/25/12 04:58	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	2E24031	EPA 625	05/25/12 04:58	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	2E24031	EPA 625	05/25/12 04:58	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	**3.9**	J	ug/L	1	1.7	5.0	2E24031	EPA 625	05/25/12 04:58	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	2E24031	EPA 625	05/25/12 04:58	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	2E24031	EPA 625	05/25/12 04:58	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	2E24031	EPA 625	05/25/12 04:58	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	2E24031	EPA 625	05/25/12 04:58	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	2E24031	EPA 625	05/25/12 04:58	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	2E24031	EPA 625	05/25/12 04:58	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	2E24031	EPA 625	05/25/12 04:58	DFM	QV-01
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	2E24031	EPA 625	05/25/12 04:58	DFM	QV-02
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	2E24031	EPA 625	05/25/12 04:58	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	2E24031	EPA 625	05/25/12 04:58	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	2E24031	EPA 625	05/25/12 04:58	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	2E24031	EPA 625	05/25/12 04:58	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	2E24031	EPA 625	05/25/12 04:58	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	2E24031	EPA 625	05/25/12 04:58	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	2E24031	EPA 625	05/25/12 04:58	DFM	
Naphthalene [91-20-3] ^	1.3	U	ug/L	1	1.3	10	2E24031	EPA 625	05/25/12 04:58	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	2E24031	EPA 625	05/25/12 04:58	DFM	

www.encolabs.com

Description: WSW-1
Matrix: Ground Water
Project: Wilmington Materials

Lab Sample ID: C205559-11
Sampled: 05/17/12 15:25
Sampled By: Jayson A. Kilcoyne

Received: 05/18/12 11:45
Work Order: C205559

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	2E24031	EPA 625	05/25/12 04:58	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	2E24031	EPA 625	05/25/12 04:58	DFM	
N-Nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	2E24031	EPA 625	05/25/12 04:58	DFM	
Pentachlorophenol [87-86-5] ^	1.8	U	ug/L	1	1.8	10	2E24031	EPA 625	05/25/12 04:58	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	2E24031	EPA 625	05/25/12 04:58	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	2E24031	EPA 625	05/25/12 04:58	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	2E24031	EPA 625	05/25/12 04:58	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*74*	*1*	*100*	*74 %*	*18-157*	*2E24031*	*EPA 625*	*05/25/12 04:58*	*DFM*	
2-Fluorobiphenyl	*42*	*1*	*50.0*	*84 %*	*15-139*	*2E24031*	*EPA 625*	*05/25/12 04:58*	*DFM*	
2-Fluorophenol	*59*	*1*	*100*	*59 %*	*10-104*	*2E24031*	*EPA 625*	*05/25/12 04:58*	*DFM*	
Nitrobenzene-d5	*38*	*1*	*50.0*	*76 %*	*16-140*	*2E24031*	*EPA 625*	*05/25/12 04:58*	*DFM*	
Phenol-d5	*49*	*1*	*100*	*49 %*	*10-83*	*2E24031*	*EPA 625*	*05/25/12 04:58*	*DFM*	
Terphenyl-d14	*43*	*1*	*50.0*	*87 %*	*23-164*	*2E24031*	*EPA 625*	*05/25/12 04:58*	*DFM*	

www.encolabs.com

Description: WSW-1
Matrix: Ground Water
Project: Wilmington Materials

Lab Sample ID: C205559-11
Sampled: 05/17/12 15:25
Sampled By: Jayson A. Kilcoyne

Received: 05/18/12 11:45
Work Order: C205559

Tentatively Identified Compounds by Semivolatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Unknown [NA]	**16**	JB	ug/L	1			2E24031	EPA 625	05/25/12 04:58	DFM	B

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: Trip Blank
Matrix: Water
Project: Wilmington Materials

Lab Sample ID: C205559-12
Sampled: 05/17/12 15:30
Sampled By: ENCO

Received: 05/18/12 11:45
Work Order: C205559

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.091	U	ug/L	1	0.091	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
1,1-Dichloropropene [563-58-6] ^	0.063	U	ug/L	1	0.063	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.25	U	ug/L	1	0.25	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.097	U	ug/L	1	0.097	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.067	U	ug/L	1	0.067	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.10	U	ug/L	1	0.10	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.092	U	ug/L	1	0.092	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
1,3-Dichloropropane [142-28-9] ^	0.15	U	ug/L	1	0.15	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
2,2-Dichloropropane [594-20-7] ^	0.12	U	ug/L	1	0.12	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
2-Chlorotoluene [95-49-8] ^	0.10	U	ug/L	1	0.10	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
4-Chlorotoluene [106-43-4] ^	0.10	U	ug/L	1	0.10	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
4-Isopropyltoluene [99-87-6] ^	0.066	U	ug/L	1	0.066	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
Bromobenzene [108-86-1] ^	0.13	U	ug/L	1	0.13	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
Carbon Tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.091	U	ug/L	1	0.091	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
Freon 113 [76-13-1] ^	0.35	U	ug/L	1	0.35	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
Hexachlorobutadiene [87-68-3] ^	0.15	U	ug/L	1	0.15	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
Isopropyl Ether [108-20-3] ^	0.21	U	ug/L	1	0.21	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
Isopropylbenzene [98-82-8] ^	0.13	U	ug/L	1	0.13	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.18	U	ug/L	1	0.18	2.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
Methylene Chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	2.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.12	U	ug/L	1	0.12	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
Naphthalene [91-20-3] ^	0.086	U	ug/L	1	0.086	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
n-Butyl Benzene [104-51-8] ^	0.074	U	ug/L	1	0.074	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
n-Propyl Benzene [103-65-1] ^	0.073	U	ug/L	1	0.073	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	

www.encolabs.com

Description: Trip Blank
Matrix: Water
Project: Wilmington Materials

Lab Sample ID: C205559-12
Sampled: 05/17/12 15:30
Sampled By: ENCO

Received: 05/18/12 11:45
Work Order: C205559

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
o-Xylene [95-47-6] ^	0.088	U	ug/L	1	0.088	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
sec-Butylbenzene [135-98-8] ^	0.053	U	ug/L	1	0.053	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
tert-Butylbenzene [98-06-6] ^	0.094	U	ug/L	1	0.094	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	2E29011	SM21 6200B	05/29/12 19:07	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*42*	*1*	*50.0*	*83 %*	*51-122*	*2E29011*	*SM21 6200B*	*05/29/12 19:07*	*JKG*	
Dibromofluoromethane	*44*	*1*	*50.0*	*87 %*	*68-117*	*2E29011*	*SM21 6200B*	*05/29/12 19:07*	*JKG*	
Toluene-d8	*40*	*1*	*50.0*	*81 %*	*67-127*	*2E29011*	*SM21 6200B*	*05/29/12 19:07*	*JKG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 2E29011 - EPA 5030B_MS

Blank (2E29011-BLK1) Prepared: 05/29/2012 09:12 Analyzed: 05/29/2012 10:18

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.091	U	1.0	ug/L							
1,1,1-Trichloroethane	0.15	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.085	U	1.0	ug/L							
1,1,2-Trichloroethane	0.068	U	1.0	ug/L							
1,1-Dichloroethane	0.050	U	1.0	ug/L							
1,1-Dichloroethene	0.15	U	1.0	ug/L							
1,1-Dichloropropene	0.063	U	1.0	ug/L							
1,2,3-Trichlorobenzene	0.25	U	1.0	ug/L							
1,2,3-Trichloropropane	0.15	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.097	U	1.0	ug/L							
1,2,4-Trimethylbenzene	0.067	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.052	U	1.0	ug/L							
1,2-Dichloroethane	0.082	U	1.0	ug/L							
1,2-Dichloropropane	0.098	U	1.0	ug/L							
1,3,5-Trimethylbenzene	0.10	U	1.0	ug/L							
1,3-Dichlorobenzene	0.092	U	1.0	ug/L							
1,3-Dichloropropane	0.15	U	1.0	ug/L							
1,4-Dichlorobenzene	0.10	U	1.0	ug/L							
2,2-Dichloropropane	0.12	U	1.0	ug/L							
2-Chlorotoluene	0.10	U	1.0	ug/L							
4-Chlorotoluene	0.10	U	1.0	ug/L							
4-Isopropyltoluene	0.066	U	1.0	ug/L							
Benzene	0.050	U	1.0	ug/L							
Bromobenzene	0.13	U	1.0	ug/L							
Bromochloromethane	0.11	U	1.0	ug/L							
Bromodichloromethane	0.10	U	1.0	ug/L							
Bromoform	0.20	U	1.0	ug/L							
Bromomethane	0.28	U	1.0	ug/L							
Carbon Tetrachloride	0.082	U	1.0	ug/L							
Chlorobenzene	0.069	U	1.0	ug/L							
Chloroethane	0.18	U	1.0	ug/L							
Chloroform	0.083	U	1.0	ug/L							
Chloromethane	0.050	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.075	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.073	U	1.0	ug/L							
Dibromochloromethane	0.067	U	1.0	ug/L							
Dibromomethane	0.13	U	1.0	ug/L							
Dichlorodifluoromethane	0.091	U	1.0	ug/L							
Ethylbenzene	0.10	U	1.0	ug/L							
Freon 113	0.35	U	1.0	ug/L							
Hexachlorobutadiene	0.15	U	1.0	ug/L							
Isopropyl Ether	0.21	U	1.0	ug/L							
Isopropylbenzene	0.13	U	1.0	ug/L							
m,p-Xylenes	0.18	U	2.0	ug/L							
Methylene Chloride	0.070	U	2.0	ug/L							
Methyl-tert-Butyl Ether	0.12	U	1.0	ug/L							
Naphthalene	0.086	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 2E29011 - EPA 5030B_MS

Blank (2E29011-BLK1) Continued Prepared: 05/29/2012 09:12 Analyzed: 05/29/2012 10:18

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
n-Butyl Benzene	0.074	U	1.0	ug/L							
n-Propyl Benzene	0.073	U	1.0	ug/L							
o-Xylene	0.088	U	1.0	ug/L							
sec-Butylbenzene	0.053	U	1.0	ug/L							
Styrene	0.082	U	1.0	ug/L							
tert-Butylbenzene	0.094	U	1.0	ug/L							
Tetrachloroethene	0.099	U	1.0	ug/L							
Toluene	0.053	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.11	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.080	U	1.0	ug/L							
Trichloroethene	0.13	U	1.0	ug/L							
Trichlorofluoromethane	0.15	U	1.0	ug/L							
Vinyl chloride	0.083	U	1.0	ug/L							
Xylenes (Total)	0.22	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*44*			*ug/L*	*50.0*		*88*	*51-122*			
Surrogate: Dibromofluoromethane	*45*			*ug/L*	*50.0*		*90*	*68-117*			
Surrogate: Toluene-d8	*41*			*ug/L*	*50.0*		*82*	*67-127*			

LCS (2E29011-BS1) Prepared: 05/29/2012 09:12 Analyzed: 05/29/2012 10:48

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	18		1.0	ug/L	20.0		90	70-130			
1,1,1-Trichloroethane	18		1.0	ug/L	20.0		90	70-130			
1,1,2,2-Tetrachloroethane	17		1.0	ug/L	20.0		87	70-130			
1,1,2-Trichloroethane	19		1.0	ug/L	20.0		93	70-130			
1,1-Dichloroethane	18		1.0	ug/L	20.0		90	70-130			
1,1-Dichloroethene	17		1.0	ug/L	20.0		85	70-130			
1,1-Dichloropropene	16		1.0	ug/L	20.0		82	70-130			
1,2,3-Trichlorobenzene	17		1.0	ug/L	20.0		87	70-130			
1,2,3-Trichloropropane	19		1.0	ug/L	20.0		95	70-130			
1,2,4-Trichlorobenzene	19		1.0	ug/L	20.0		95	70-130			
1,2,4-Trimethylbenzene	20		1.0	ug/L	20.0		99	70-130			
1,2-Dibromo-3-chloropropane	18		1.0	ug/L	20.0		89	70-130			
1,2-Dibromoethane	19		1.0	ug/L	20.0		93	70-130			
1,2-Dichlorobenzene	18		1.0	ug/L	20.0		92	70-130			
1,2-Dichloroethane	19		1.0	ug/L	20.0		97	70-130			
1,2-Dichloropropane	17		1.0	ug/L	20.0		85	70-130			
1,3,5-Trimethylbenzene	19		1.0	ug/L	20.0		96	70-130			
1,3-Dichlorobenzene	19		1.0	ug/L	20.0		96	70-130			
1,3-Dichloropropane	18		1.0	ug/L	20.0		89	70-130			
1,4-Dichlorobenzene	20		1.0	ug/L	20.0		98	70-130			
2,2-Dichloropropane	18		1.0	ug/L	20.0		91	70-130			
2-Chlorotoluene	19		1.0	ug/L	20.0		96	70-130			
4-Chlorotoluene	19		1.0	ug/L	20.0		97	70-130			
4-Isopropyltoluene	21		1.0	ug/L	20.0		104	70-130			
Benzene	18		1.0	ug/L	20.0		88	70-130			
Bromobenzene	18		1.0	ug/L	20.0		88	70-130			
Bromochloromethane	17		1.0	ug/L	20.0		86	70-130			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 2E29011 - EPA 5030B_MS

LCS (2E29011-BS1) Continued Prepared: 05/29/2012 09:12 Analyzed: 05/29/2012 10:48

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Bromodichloromethane	17		1.0	ug/L	20.0		87	70-130			
Bromoform	18		1.0	ug/L	20.0		90	70-130			
Bromomethane	15		1.0	ug/L	20.0		76	70-130			
Carbon Tetrachloride	18		1.0	ug/L	20.0		90	70-130			
Chlorobenzene	18		1.0	ug/L	20.0		92	70-130			
Chloroethane	16		1.0	ug/L	20.0		78	70-130			
Chloroform	17		1.0	ug/L	20.0		85	70-130			
Chloromethane	15		1.0	ug/L	20.0		76	70-130			
cis-1,2-Dichloroethene	16		1.0	ug/L	20.0		81	70-130			
cis-1,3-Dichloropropene	17		1.0	ug/L	20.0		87	70-130			
Dibromochloromethane	18		1.0	ug/L	20.0		89	70-130			
Dibromomethane	20		1.0	ug/L	20.0		101	70-130			
Dichlorodifluoromethane	17		1.0	ug/L	20.0		87	70-130			
Ethylbenzene	17		1.0	ug/L	20.0		87	70-130			
Freon 113	18		1.0	ug/L	20.0		91	70-130			
Hexachlorobutadiene	18		1.0	ug/L	20.0		90	70-130			
Isopropyl Ether	16		1.0	ug/L	20.0		82	70-130			
Isopropylbenzene	22		1.0	ug/L	20.0		108	70-130			
m,p-Xylenes	37		2.0	ug/L	40.0		92	70-130			
Methylene Chloride	17		2.0	ug/L	20.0		87	70-130			
Methyl-tert-Butyl Ether	16		1.0	ug/L	20.0		82	70-130			
Naphthalene	18		1.0	ug/L	20.0		90	70-130			
n-Butyl Benzene	19		1.0	ug/L	20.0		94	70-130			
n-Propyl Benzene	21		1.0	ug/L	20.0		104	70-130			
o-Xylene	19		1.0	ug/L	20.0		93	70-130			
sec-Butylbenzene	20		1.0	ug/L	20.0		98	70-130			
Styrene	19		1.0	ug/L	20.0		95	70-130			
tert-Butylbenzene	20		1.0	ug/L	20.0		98	70-130			
Tetrachloroethene	20		1.0	ug/L	20.0		98	70-130			
Toluene	18		1.0	ug/L	20.0		90	70-130			
trans-1,2-Dichloroethene	15		1.0	ug/L	20.0		76	70-130			
trans-1,3-Dichloropropene	20		1.0	ug/L	20.0		102	70-130			
Trichloroethene	17		1.0	ug/L	20.0		87	70-130			
Trichlorofluoromethane	17		1.0	ug/L	20.0		83	70-130			
Vinyl chloride	14		1.0	ug/L	20.0		72	70-130			
Xylenes (Total)	55		1.0	ug/L	60.0		92	70-130			
Surrogate: 4-Bromofluorobenzene	*42*			*ug/L*	*50.0*		*84*	*51-122*			
Surrogate: Dibromofluoromethane	*42*			*ug/L*	*50.0*		*84*	*68-117*			
Surrogate: Toluene-d8	*42*			*ug/L*	*50.0*		*83*	*67-127*			

Matrix Spike (2E29011-MS1) Prepared: 05/29/2012 09:12 Analyzed: 05/29/2012 11:17

Source: C205788-11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	18		1.0	ug/L	20.0	0.091 U	92	71-117			
1,1,1-Trichloroethane	18		1.0	ug/L	20.0	0.15 U	90	72-143			
1,1,2,2-Tetrachloroethane	19		1.0	ug/L	20.0	0.085 U	93	59-133			
1,1,2-Trichloroethane	19		1.0	ug/L	20.0	0.068 U	96	67-118			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 2E29011 - EPA 5030B_MS

Matrix Spike (2E29011-MS1) Continued Prepared: 05/29/2012 09:12 Analyzed: 05/29/2012 11:17

Source: C205788-11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethane	19		1.0	ug/L	20.0	0.050 U	94	79-141			
1,1-Dichloroethene	18		1.0	ug/L	20.0	0.15 U	88	75-133			
1,1-Dichloropropene	17		1.0	ug/L	20.0	0.063 U	86	70-129			
1,2,3-Trichlorobenzene	18		1.0	ug/L	20.0	0.25 U	90	62-117			
1,2,3-Trichloropropane	19		1.0	ug/L	20.0	0.15 U	95	58-140			
1,2,4-Trichlorobenzene	19		1.0	ug/L	20.0	0.097 U	95	59-122			
1,2,4-Trimethylbenzene	20		1.0	ug/L	20.0	0.067 U	100	74-123			
1,2-Dibromo-3-chloropropane	19		1.0	ug/L	20.0	0.48 U	93	37-157			
1,2-Dibromoethane	20		1.0	ug/L	20.0	0.42 U	100	66-123			
1,2-Dichlorobenzene	18		1.0	ug/L	20.0	0.052 U	92	76-116			
1,2-Dichloroethane	19		1.0	ug/L	20.0	0.082 U	95	72-151			
1,2-Dichloropropane	17		1.0	ug/L	20.0	0.098 U	87	78-125			
1,3,5-Trimethylbenzene	20		1.0	ug/L	20.0	0.10 U	98	77-129			
1,3-Dichlorobenzene	19		1.0	ug/L	20.0	0.092 U	97	76-119			
1,3-Dichloropropane	19		1.0	ug/L	20.0	0.15 U	95	60-129			
1,4-Dichlorobenzene	19		1.0	ug/L	20.0	0.10 U	97	76-122			
2,2-Dichloropropane	18		1.0	ug/L	20.0	0.12 U	92	21-167			
2-Chlorotoluene	19		1.0	ug/L	20.0	0.10 U	96	73-135			
4-Chlorotoluene	20		1.0	ug/L	20.0	0.10 U	100	76-134			
4-Isopropyltoluene	21		1.0	ug/L	20.0	0.066 U	106	75-127			
Benzene	18		1.0	ug/L	20.0	0.050 U	89	81-134			
Bromobenzene	18		1.0	ug/L	20.0	0.13 U	90	72-115			
Bromochloromethane	17		1.0	ug/L	20.0	0.11 U	86	74-128			
Bromodichloromethane	18		1.0	ug/L	20.0	0.10 U	89	72-129			
Bromoform	19		1.0	ug/L	20.0	0.20 U	93	73-119			
Bromomethane	17		1.0	ug/L	20.0	0.28 U	85	38-189			
Carbon Tetrachloride	18		1.0	ug/L	20.0	0.082 U	89	68-142			
Chlorobenzene	19		1.0	ug/L	20.0	0.069 U	94	83-117			
Chloroethane	17		1.0	ug/L	20.0	0.18 U	86	45-213			
Chloroform	17		1.0	ug/L	20.0	0.083 U	85	78-138			
Chloromethane	18		1.0	ug/L	20.0	0.050 U	92	56-171			
cis-1,2-Dichloroethene	17		1.0	ug/L	20.0	0.075 U	84	69-120			
cis-1,3-Dichloropropene	18		1.0	ug/L	20.0	0.073 U	90	63-125			
Dibromochloromethane	19		1.0	ug/L	20.0	0.067 U	94	73-117			
Dibromomethane	19		1.0	ug/L	20.0	0.13 U	97	76-124			
Dichlorodifluoromethane	20		1.0	ug/L	20.0	0.091 U	101	25-161			
Ethylbenzene	18		1.0	ug/L	20.0	0.10 U	92	68-124			
Freon 113	18		1.0	ug/L	20.0	0.35 U	89	0-200			
Hexachlorobutadiene	18		1.0	ug/L	20.0	0.15 U	90	63-114			
Isopropyl Ether	17		1.0	ug/L	20.0	0.21 U	85	70-130			
Isopropylbenzene	23		1.0	ug/L	20.0	0.13 U	114	81-136			
m,p-Xylenes	38		2.0	ug/L	40.0	0.18 U	94	79-121			
Methylene Chloride	17		2.0	ug/L	20.0	0.070 U	86	68-128			
Methyl-tert-Butyl Ether	16		1.0	ug/L	20.0	0.12 U	82	10-127			
Naphthalene	18		1.0	ug/L	20.0	0.086 U	92	50-127			
n-Butyl Benzene	19		1.0	ug/L	20.0	0.074 U	97	68-126			
n-Propyl Benzene	22		1.0	ug/L	20.0	0.073 U	108	76-125			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 2E29011 - EPA 5030B_MS

Matrix Spike (2E29011-MS1) Continued Prepared: 05/29/2012 09:12 Analyzed: 05/29/2012 11:17

Source: C205788-11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
o-Xylene	20		1.0	ug/L	20.0	0.088 U	99	71-125			
sec-Butylbenzene	20		1.0	ug/L	20.0	0.053 U	100	75-122			
Styrene	20		1.0	ug/L	20.0	0.082 U	98	73-120			
tert-Butylbenzene	20		1.0	ug/L	20.0	0.094 U	100	70-137			
Tetrachloroethene	21		1.0	ug/L	20.0	0.099 U	105	40-181			
Toluene	19		1.0	ug/L	20.0	0.053 U	94	71-118			
trans-1,2-Dichloroethene	16		1.0	ug/L	20.0	0.11 U	81	75-139			
trans-1,3-Dichloropropene	21		1.0	ug/L	20.0	0.080 U	106	62-152			
Trichloroethene	18		1.0	ug/L	20.0	0.13 U	88	75-115			
Trichlorofluoromethane	19		1.0	ug/L	20.0	0.15 U	94	68-183			
Vinyl chloride	18		1.0	ug/L	20.0	0.083 U	92	49-150			
Xylenes (Total)	58		1.0	ug/L	60.0	0.22 U	96	77-121			
Surrogate: 4-Bromofluorobenzene	*45*			*ug/L*	*50.0*		*91*	*51-122*			
Surrogate: Dibromofluoromethane	*42*			*ug/L*	*50.0*		*84*	*68-117*			
Surrogate: Toluene-d8	*42*			*ug/L*	*50.0*		*84*	*67-127*			

Matrix Spike Dup (2E29011-MSD1) Prepared: 05/29/2012 09:12 Analyzed: 05/29/2012 11:46

Source: C205788-11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	18		1.0	ug/L	20.0	0.091 U	88	71-117	5	16	
1,1,1-Trichloroethane	18		1.0	ug/L	20.0	0.15 U	88	72-143	3	18	
1,1,2,2-Tetrachloroethane	17		1.0	ug/L	20.0	0.085 U	87	59-133	7	16	
1,1,2-Trichloroethane	18		1.0	ug/L	20.0	0.068 U	90	67-118	6	18	
1,1-Dichloroethane	17		1.0	ug/L	20.0	0.050 U	87	79-141	8	19	
1,1-Dichloroethene	17		1.0	ug/L	20.0	0.15 U	83	75-133	5	20	
1,1-Dichloropropene	17		1.0	ug/L	20.0	0.063 U	86	70-129	0.7	17	
1,2,3-Trichlorobenzene	17		1.0	ug/L	20.0	0.25 U	86	62-117	4	17	
1,2,3-Trichloropropane	18		1.0	ug/L	20.0	0.15 U	90	58-140	5	17	
1,2,4-Trichlorobenzene	19		1.0	ug/L	20.0	0.097 U	93	59-122	3	17	
1,2,4-Trimethylbenzene	19		1.0	ug/L	20.0	0.067 U	97	74-123	4	18	
1,2-Dibromo-3-chloropropane	17		1.0	ug/L	20.0	0.48 U	87	37-157	6	18	
1,2-Dibromoethane	18		1.0	ug/L	20.0	0.42 U	88	66-123	12	15	
1,2-Dichlorobenzene	18		1.0	ug/L	20.0	0.052 U	88	76-116	4	16	
1,2-Dichloroethane	18		1.0	ug/L	20.0	0.082 U	91	72-151	5	16	
1,2-Dichloropropane	17		1.0	ug/L	20.0	0.098 U	85	78-125	2	19	
1,3,5-Trimethylbenzene	19		1.0	ug/L	20.0	0.10 U	94	77-129	5	16	
1,3-Dichlorobenzene	19		1.0	ug/L	20.0	0.092 U	94	76-119	3	17	
1,3-Dichloropropane	18		1.0	ug/L	20.0	0.15 U	88	60-129	7	16	
1,4-Dichlorobenzene	19		1.0	ug/L	20.0	0.10 U	94	76-122	4	16	
2,2-Dichloropropane	18		1.0	ug/L	20.0	0.12 U	88	21-167	4	20	
2-Chlorotoluene	19		1.0	ug/L	20.0	0.10 U	93	73-135	4	16	
4-Chlorotoluene	19		1.0	ug/L	20.0	0.10 U	94	76-134	6	16	
4-Isopropyltoluene	20		1.0	ug/L	20.0	0.066 U	102	75-127	4	17	
Benzene	17		1.0	ug/L	20.0	0.050 U	85	81-134	4	17	
Bromobenzene	17		1.0	ug/L	20.0	0.13 U	86	72-115	5	17	
Bromochloromethane	17		1.0	ug/L	20.0	0.11 U	84	74-128	3	18	

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 2E29011 - EPA 5030B_MS

Matrix Spike Dup (2E29011-MSD1) Continued Prepared: 05/29/2012 09:12 Analyzed: 05/29/2012 11:46

Source: C205788-11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Bromodichloromethane	17		1.0	ug/L	20.0	0.10 U	85	72-129	5	16	
Bromoform	18		1.0	ug/L	20.0	0.20 U	89	73-119	4	44	
Bromomethane	17		1.0	ug/L	20.0	0.28 U	86	38-189	0.9	27	
Carbon Tetrachloride	17		1.0	ug/L	20.0	0.082 U	87	68-142	2	17	
Chlorobenzene	18		1.0	ug/L	20.0	0.069 U	90	83-117	4	16	
Chloroethane	17		1.0	ug/L	20.0	0.18 U	85	45-213	0.6	26	
Chloroform	17		1.0	ug/L	20.0	0.083 U	83	78-138	3	17	
Chloromethane	17		1.0	ug/L	20.0	0.050 U	85	56-171	8	28	
cis-1,2-Dichloroethene	16		1.0	ug/L	20.0	0.075 U	80	69-120	5	18	
cis-1,3-Dichloropropene	18		1.0	ug/L	20.0	0.073 U	88	63-125	3	17	
Dibromochloromethane	18		1.0	ug/L	20.0	0.067 U	89	73-117	6	16	
Dibromomethane	19		1.0	ug/L	20.0	0.13 U	95	76-124	2	15	
Dichlorodifluoromethane	19		1.0	ug/L	20.0	0.091 U	93	25-161	8	48	
Ethylbenzene	17		1.0	ug/L	20.0	0.10 U	85	68-124	8	16	
Freon 113	18		1.0	ug/L	20.0	0.35 U	88	0-200	1	25	
Hexachlorobutadiene	18		1.0	ug/L	20.0	0.15 U	89	63-114	2	19	
Isopropyl Ether	17		1.0	ug/L	20.0	0.21 U	84	70-130	1	30	
Isopropylbenzene	21		1.0	ug/L	20.0	0.13 U	106	81-136	7	16	
m,p-Xylenes	36		2.0	ug/L	40.0	0.18 U	89	79-121	6	16	
Methylene Chloride	17		2.0	ug/L	20.0	0.070 U	83	68-128	3	17	
Methyl-tert-Butyl Ether	16		1.0	ug/L	20.0	0.12 U	81	10-127	2	21	
Naphthalene	18		1.0	ug/L	20.0	0.086 U	90	50-127	2	19	
n-Butyl Benzene	18		1.0	ug/L	20.0	0.074 U	92	68-126	6	15	
n-Propyl Benzene	20		1.0	ug/L	20.0	0.073 U	101	76-125	7	16	
o-Xylene	19		1.0	ug/L	20.0	0.088 U	93	71-125	7	15	
sec-Butylbenzene	19		1.0	ug/L	20.0	0.053 U	95	75-122	4	17	
Styrene	19		1.0	ug/L	20.0	0.082 U	93	73-120	5	23	
tert-Butylbenzene	19		1.0	ug/L	20.0	0.094 U	96	70-137	4	22	
Tetrachloroethene	19		1.0	ug/L	20.0	0.099 U	94	40-181	11	26	
Toluene	18		1.0	ug/L	20.0	0.053 U	89	71-118	6	17	
trans-1,2-Dichloroethene	16		1.0	ug/L	20.0	0.11 U	79	75-139	3	19	
trans-1,3-Dichloropropene	20		1.0	ug/L	20.0	0.080 U	100	62-152	7	16	
Trichloroethene	16		1.0	ug/L	20.0	0.13 U	82	75-115	7	18	
Trichlorofluoromethane	18		1.0	ug/L	20.0	0.15 U	88	68-183	7	22	
Vinyl chloride	16		1.0	ug/L	20.0	0.083 U	82	49-150	11	27	
Xylenes (Total)	54		1.0	ug/L	60.0	0.22 U	90	77-121	6	16	
Surrogate: 4-Bromofluorobenzene	*42*			*ug/L*	*50.0*		*84*	*51-122*			
Surrogate: Dibromofluoromethane	*41*			*ug/L*	*50.0*		*82*	*68-117*			
Surrogate: Toluene-d8	*41*			*ug/L*	*50.0*		*83*	*67-127*			

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 2E24031 - EPA 3510C_MS

Blank (2E24031-BLK1) Prepared: 05/24/2012 14:12 Analyzed: 05/24/2012 21:40

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2,4-Trichlorobenzene	1.2	U	10	ug/L							

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 2E24031 - EPA 3510C_MS

Blank (2E24031-BLK1) Continued Prepared: 05/24/2012 14:12 Analyzed: 05/24/2012 21:40

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2-Dichlorobenzene	1.1	U	10	ug/L							
1,3-Dichlorobenzene	1.1	U	10	ug/L							
1,4-Dichlorobenzene	1.0	U	10	ug/L							
1-Methylnaphthalene	1.7	U	10	ug/L							
2,4,6-Trichlorophenol	1.1	U	10	ug/L							
2,4-Dichlorophenol	1.4	U	10	ug/L							
2,4-Dimethylphenol	1.3	U	10	ug/L							
2,4-Dinitrophenol	2.6	U	10	ug/L							
2,4-Dinitrotoluene	2.4	U	10	ug/L							
2,6-Dinitrotoluene	1.5	U	10	ug/L							
2-Chloronaphthalene	1.0	U	10	ug/L							
2-Chlorophenol	1.2	U	10	ug/L							
2-Methyl-4,6-dinitrophenol	2.9	U	10	ug/L							QV-01
2-Methylnaphthalene	1.5	U	10	ug/L							
2-Nitrophenol	1.1	U	10	ug/L							
3,3'-Dichlorobenzidine	3.3	U	10	ug/L							
4-Bromophenyl-phenylether	1.0	U	10	ug/L							
4-Chloro-3-methylphenol	1.5	U	10	ug/L							
4-Chlorophenyl-phenylether	1.6	U	10	ug/L							
4-Nitrophenol	2.0	U	10	ug/L							
Acenaphthene	1.4	U	10	ug/L							
Acenaphthylene	1.2	U	10	ug/L							
Anthracene	1.6	U	10	ug/L							
Benzidine	1.6	U	10	ug/L							
Benzo(a)anthracene	1.3	U	10	ug/L							
Benzo(a)pyrene	1.3	U	10	ug/L							
Benzo(b)fluoranthene	1.0	U	10	ug/L							
Benzo(g,h,i)perylene	2.4	U	10	ug/L							
Benzo(k)fluoranthene	1.3	U	10	ug/L							QV-01
Bis(2-chloroethoxy)methane	1.4	U	10	ug/L							
Bis(2-chloroethyl)ether	1.2	U	10	ug/L							
Bis(2-chloroisopropyl)ether	1.3	U	10	ug/L							
Bis(2-ethylhexyl)phthalate	1.7	U	5.0	ug/L							
Butylbenzylphthalate	2.0	U	10	ug/L							
Chrysene	2.0	U	10	ug/L							
Dibenzo(a,h)anthracene	2.3	U	10	ug/L							
Diethylphthalate	2.1	U	10	ug/L							
Dimethylphthalate	1.4	U	10	ug/L							
Di-n-butylphthalate	1.5	U	10	ug/L							
Di-n-octylphthalate	3.1	U	10	ug/L							QV-01
Fluoranthene	2.1	U	10	ug/L							QV-02
Fluorene	1.7	U	10	ug/L							
Hexachlorobenzene	1.0	U	10	ug/L							
Hexachlorobutadiene	1.2	U	10	ug/L							
Hexachlorocyclopentadiene	1.3	U	10	ug/L							
Hexachloroethane	1.1	U	10	ug/L							
Indeno(1,2,3-cd)pyrene	2.2	U	10	ug/L							
Isophorone	1.3	U	10	ug/L							
Naphthalene	1.3	U	10	ug/L							

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 2E24031 - EPA 3510C_MS

Blank (2E24031-BLK1) Continued Prepared: 05/24/2012 14:12 Analyzed: 05/24/2012 21:40

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrobenzene	1.2	U	10	ug/L							
N-Nitrosodimethylamine	1.3	U	10	ug/L							
N-Nitroso-di-n-propylamine	1.5	U	10	ug/L							
N-Nitrosodiphenylamine/Diphenylamine	2.1	U	10	ug/L							
Pentachlorophenol	1.8	U	10	ug/L							
Phenanthrene	1.4	U	10	ug/L							
Phenol	1.4	U	10	ug/L							
Pyrene	2.1	U	10	ug/L							
Surrogate: 2,4,6-Tribromophenol	*70*			*ug/L*	*100*		*70*	*18-157*			
Surrogate: 2-Fluorobiphenyl	*37*			*ug/L*	*50.0*		*75*	*15-139*			
Surrogate: 2-Fluorophenol	*53*			*ug/L*	*100*		*53*	*10-104*			
Surrogate: Nitrobenzene-d5	*32*			*ug/L*	*50.0*		*65*	*16-140*			
Surrogate: Phenol-d5	*44*			*ug/L*	*100*		*44*	*10-83*			
Surrogate: Terphenyl-d14	*41*			*ug/L*	*50.0*		*81*	*23-164*			

LCS (2E24031-BS1) Prepared: 05/24/2012 14:12 Analyzed: 05/24/2012 22:08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2,4-Trichlorobenzene	37		10	ug/L	50.0		73	44-142			
1,2-Dichlorobenzene	36		10	ug/L	50.0		72	32-129			
1,3-Dichlorobenzene	35		10	ug/L	50.0		71	10-172			
1,4-Dichlorobenzene	34		10	ug/L	50.0		68	20-124			
1-Methylnaphthalene	40		10	ug/L	50.0		81	46-80			
2,4,6-Trichlorophenol	49		10	ug/L	50.0		98	61-119			
2,4-Dichlorophenol	43		10	ug/L	50.0		87	49-118			
2,4-Dimethylphenol	44		10	ug/L	50.0		88	42-111			
2,4-Dinitrophenol	34		10	ug/L	50.0		68	1-149			
2,4-Dinitrotoluene	48		10	ug/L	50.0		96	39-139			
2,6-Dinitrotoluene	48		10	ug/L	50.0		97	50-158			
2-Chloronaphthalene	45		10	ug/L	50.0		90	60-118			
2-Chlorophenol	40		10	ug/L	50.0		80	23-134			
2-Methyl-4,6-dinitrophenol	55		10	ug/L	50.0		109	33-160			
2-Methylnaphthalene	40		10	ug/L	50.0		80	33-111			
2-Nitrophenol	44		10	ug/L	50.0		89	36-113			
3,3'-Dichlorobenzidine	53		10	ug/L	50.0		106	10-262			
4-Bromophenyl-phenylether	47		10	ug/L	50.0		94	53-127			
4-Chloro-3-methylphenol	45		10	ug/L	50.0		89	25-147			
4-Chlorophenyl-phenylether	44		10	ug/L	50.0		87	25-158			
4-Nitrophenol	23		10	ug/L	50.0		46	33-105			
Acenaphthene	42		10	ug/L	50.0		84	47-145			
Acenaphthylene	45		10	ug/L	50.0		91	33-145			
Anthracene	45		10	ug/L	50.0		89	27-133			
Benzidine	14		10	ug/L	50.0		29	10-136			
Benzo(a)anthracene	45		10	ug/L	50.0		91	33-143			
Benzo(a)pyrene	52		10	ug/L	50.0		104	17-163			
Benzo(b)fluoranthene	55		10	ug/L	50.0		110	24-159			
Benzo(g,h,i)perylene	61		10	ug/L	50.0		123	10-219			
Benzo(k)fluoranthene	61		10	ug/L	50.0		121	11-162			

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 2E24031 - EPA 3510C_MS

LCS (2E24031-BS1) Continued Prepared: 05/24/2012 14:12 Analyzed: 05/24/2012 22:08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Bis(2-chloroethoxy)methane	45		10	ug/L	50.0		90	33-184			
Bis(2-chloroethyl)ether	40		10	ug/L	50.0		80	12-158			
Bis(2-chloroisopropyl)ether	39		10	ug/L	50.0		79	36-166			
Bis(2-ethylhexyl)phthalate	43		5.0	ug/L	50.0		86	10-158			
Butylbenzylphthalate	51		10	ug/L	50.0		101	64-152			
Chrysene	47		10	ug/L	50.0		94	17-168			
Dibenzo(a,h)anthracene	47		10	ug/L	50.0		95	10-227			
Diethylphthalate	44		10	ug/L	50.0		88	62-127			
Dimethylphthalate	46		10	ug/L	50.0		92	10-114			
Di-n-butylphthalate	46		10	ug/L	50.0		92	10-118			
Di-n-octylphthalate	76		10	ug/L	50.0		152	10-146			
Fluoranthene	39		10	ug/L	50.0		79	26-137			
Fluorene	39		10	ug/L	50.0		78	59-121			
Hexachlorobenzene	45		10	ug/L	50.0		89	10-152			
Hexachlorobutadiene	36		10	ug/L	50.0		73	24-116			
Hexachlorocyclopentadiene	40		10	ug/L	50.0		80	10-99			
Hexachloroethane	33		10	ug/L	50.0		66	12-82			
Indeno(1,2,3-cd)pyrene	49		10	ug/L	50.0		98	10-171			
Isophorone	44		10	ug/L	50.0		87	21-196			
Naphthalene	38		10	ug/L	50.0		75	21-133			
Nitrobenzene	41		10	ug/L	50.0		81	35-180			
N-Nitrosodimethylamine	34		10	ug/L	50.0		67	24-94			
N-Nitroso-di-n-propylamine	40		10	ug/L	50.0		79	10-230			
Pentachlorophenol	48		10	ug/L	50.0		96	51-135			
Phenanthrene	44		10	ug/L	50.0		88	54-120			
Phenol	25		10	ug/L	50.0		49	19-78			
Pyrene	45		10	ug/L	50.0		89	65-134			
Surrogate: 2,4,6-Tribromophenol	*84*			*ug/L*	*100*		*84*	*18-157*			
Surrogate: 2-Fluorobiphenyl	*46*			*ug/L*	*50.0*		*91*	*15-139*			
Surrogate: 2-Fluorophenol	*59*			*ug/L*	*100*		*59*	*10-104*			
Surrogate: Nitrobenzene-d5	*43*			*ug/L*	*50.0*		*85*	*16-140*			
Surrogate: Phenol-d5	*46*			*ug/L*	*100*		*46*	*10-83*			
Surrogate: Terphenyl-d14	*46*			*ug/L*	*50.0*		*92*	*23-164*			

Matrix Spike (2E24031-MS1) Prepared: 05/24/2012 14:12 Analyzed: 05/24/2012 22:35

Source: C205906-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2,4-Trichlorobenzene	36		10	ug/L	50.0	1.2 U	73	44-142			
1,2-Dichlorobenzene	36		10	ug/L	50.0	1.1 U	72	32-129			
1,3-Dichlorobenzene	36		10	ug/L	50.0	1.1 U	72	10-172			
1,4-Dichlorobenzene	34		10	ug/L	50.0	1.0 U	69	20-124			
1-Methylnaphthalene	42		10	ug/L	50.0	1.7 U	83	46-80			
2,4,6-Trichlorophenol	51		10	ug/L	50.0	1.1 U	103	61-119			
2,4-Dichlorophenol	46		10	ug/L	50.0	1.4 U	91	49-118			
2,4-Dimethylphenol	46		10	ug/L	50.0	1.3 U	91	42-111			
2,4-Dinitrophenol	40		10	ug/L	50.0	2.6 U	81	11-149			
2,4-Dinitrotoluene	50		10	ug/L	50.0	2.4 U	101	39-139			

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 2E24031 - EPA 3510C_MS

Matrix Spike (2E24031-MS1) Continued Prepared: 05/24/2012 14:12 Analyzed: 05/24/2012 22:35

Source: C205906-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,6-Dinitrotoluene	52		10	ug/L	50.0	1.5 U	103	50-158			
2-Chloronaphthalene	46		10	ug/L	50.0	1.0 U	93	60-118			
2-Chlorophenol	41		10	ug/L	50.0	1.2 U	83	23-134			
2-Methyl-4,6-dinitrophenol	60		10	ug/L	50.0	2.9 U	120	33-160			
2-Methylnaphthalene	41		10	ug/L	50.0	1.5 U	83	33-111			
2-Nitrophenol	47		10	ug/L	50.0	1.1 U	95	36-113			
3,3'-Dichlorobenzidine	54		10	ug/L	50.0	3.3 U	108	10-262			
4-Bromophenyl-phenylether	49		10	ug/L	50.0	1.0 U	98	53-127			
4-Chloro-3-methylphenol	48		10	ug/L	50.0	1.5 U	96	25-147			
4-Chlorophenyl-phenylether	46		10	ug/L	50.0	1.6 U	91	25-158			
4-Nitrophenol	28		10	ug/L	50.0	2.0 U	56	33-105			
Acenaphthene	44		10	ug/L	50.0	1.4 U	89	47-145			
Acenaphthylene	48		10	ug/L	50.0	1.2 U	96	33-145			
Anthracene	46		10	ug/L	50.0	1.6 U	92	27-133			
Benzidine	14		10	ug/L	50.0	1.6 U	28	10-136			
Benzo(a)anthracene	46		10	ug/L	50.0	1.3 U	92	33-143			
Benzo(a)pyrene	51		10	ug/L	50.0	1.3 U	102	17-163			
Benzo(b)fluoranthene	58		10	ug/L	50.0	1.0 U	115	24-159			
Benzo(g,h,i)perylene	61		10	ug/L	50.0	2.4 U	121	10-219			
Benzo(k)fluoranthene	60		10	ug/L	50.0	1.3 U	119	11-162			
Bis(2-chloroethoxy)methane	46		10	ug/L	50.0	1.4 U	93	33-184			
Bis(2-chloroethyl)ether	40		10	ug/L	50.0	1.2 U	80	12-158			
Bis(2-chloroisopropyl)ether	40		10	ug/L	50.0	1.3 U	80	36-166			
Bis(2-ethylhexyl)phthalate	45		5.0	ug/L	50.0	1.7 U	91	10-158			
Butylbenzylphthalate	47		10	ug/L	50.0	2.0 U	95	10-152			
Chrysene	49		10	ug/L	50.0	2.0 U	98	17-168			
Dibenzo(a,h)anthracene	48		10	ug/L	50.0	2.3 U	95	10-227			
Diethylphthalate	46		10	ug/L	50.0	2.1 U	92	62-127			
Dimethylphthalate	47		10	ug/L	50.0	1.4 U	95	10-114			
Di-n-butylphthalate	45		10	ug/L	50.0	1.5 U	90	10-118			
Di-n-octylphthalate	77		10	ug/L	50.0	3.1 U	155	10-146			
Fluoranthene	39		10	ug/L	50.0	2.1 U	77	26-137			
Fluorene	41		10	ug/L	50.0	1.7 U	82	59-121			
Hexachlorobenzene	46		10	ug/L	50.0	1.0 U	92	10-152			
Hexachlorobutadiene	36		10	ug/L	50.0	1.2 U	72	24-116			
Hexachlorocyclopentadiene	43		10	ug/L	50.0	1.3 U	86	10-99			
Hexachloroethane	33		10	ug/L	50.0	1.1 U	66	12-82			
Indeno(1,2,3-cd)pyrene	50		10	ug/L	50.0	2.2 U	99	10-171			
Isophorone	44		10	ug/L	50.0	1.3 U	89	21-196			
Naphthalene	38		10	ug/L	50.0	1.3 U	77	21-133			
Nitrobenzene	42		10	ug/L	50.0	1.2 U	85	35-180			
N-Nitrosodimethylamine	35		10	ug/L	50.0	1.3 U	70	24-94			
N-Nitroso-di-n-propylamine	41		10	ug/L	50.0	1.5 U	82	10-230			
Pentachlorophenol	51		10	ug/L	50.0	1.8 U	101	51-135			
Phenanthrene	45		10	ug/L	50.0	1.4 U	90	54-120			
Phenol	28		10	ug/L	50.0	1.4 U	56	19-78			
Pyrene	44		10	ug/L	50.0	2.1 U	87	52-115			

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 2E24031 - EPA 3510C_MS

Matrix Spike (2E24031-MS1) Continued Prepared: 05/24/2012 14:12 Analyzed: 05/24/2012 22:35

Source: C205906-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: 2,4,6-Tribromophenol	*88*			*ug/L*	*100*		*88*	*18-157*			
Surrogate: 2-Fluorobiphenyl	*46*			*ug/L*	*50.0*		*92*	*15-139*			
Surrogate: 2-Fluorophenol	*61*			*ug/L*	*100*		*61*	*10-104*			
Surrogate: Nitrobenzene-d5	*42*			*ug/L*	*50.0*		*85*	*16-140*			
Surrogate: Phenol-d5	*51*			*ug/L*	*100*		*51*	*10-83*			
Surrogate: Terphenyl-d14	*44*			*ug/L*	*50.0*		*87*	*23-164*			

Matrix Spike Dup (2E24031-MSD1) Prepared: 05/24/2012 14:12 Analyzed: 05/24/2012 23:02

Source: C205906-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2,4-Trichlorobenzene	29		10	ug/L	50.0	1.2 U	59	44-142	21	28.1	
1,2-Dichlorobenzene	29		10	ug/L	50.0	1.1 U	59	32-129	20	30.9	
1,3-Dichlorobenzene	29		10	ug/L	50.0	1.1 U	58	10-172	21	41.7	
1,4-Dichlorobenzene	28		10	ug/L	50.0	1.0 U	56	20-124	20	32.1	
1-Methylnaphthalene	35		10	ug/L	50.0	1.7 U	69	46-80	18	25	
2,4,6-Trichlorophenol	46		10	ug/L	50.0	1.1 U	92	61-119	11	25	
2,4-Dichlorophenol	38		10	ug/L	50.0	1.4 U	77	49-118	17	25	
2,4-Dimethylphenol	40		10	ug/L	50.0	1.3 U	79	42-111	14	26	
2,4-Dinitrophenol	32		10	ug/L	50.0	2.6 U	64	11-149	23	50	
2,4-Dinitrotoluene	43		10	ug/L	50.0	2.4 U	86	39-139	15	25	
2,6-Dinitrotoluene	45		10	ug/L	50.0	1.5 U	90	50-158	14	29.6	
2-Chloronaphthalene	40		10	ug/L	50.0	1.0 U	80	60-118	15	25	
2-Chlorophenol	36		10	ug/L	50.0	1.2 U	71	23-134	15	28.7	
2-Methyl-4,6-dinitrophenol	50		10	ug/L	50.0	2.9 U	100	33-160	18	25	
2-Methylnaphthalene	35		10	ug/L	50.0	1.5 U	69	33-111	18	27	
2-Nitrophenol	38		10	ug/L	50.0	1.1 U	76	36-113	21	50	
3,3'-Dichlorobenzidine	49		10	ug/L	50.0	3.3 U	98	10-262	9	71.4	
4-Bromophenyl-phenylether	46		10	ug/L	50.0	1.0 U	91	53-127	8	25	
4-Chloro-3-methylphenol	40		10	ug/L	50.0	1.5 U	80	25-147	18	37.2	
4-Chlorophenyl-phenylether	41		10	ug/L	50.0	1.6 U	81	25-158	11	33.4	
4-Nitrophenol	21		10	ug/L	50.0	2.0 U	42	33-105	29	27	
Acenaphthene	40		10	ug/L	50.0	1.4 U	79	47-145	11	27.6	
Acenaphthylene	42		10	ug/L	50.0	1.2 U	84	33-145	13	40.2	
Anthracene	42		10	ug/L	50.0	1.6 U	84	27-133	9	32	
Benzidine	8.4	J	10	ug/L	50.0	1.6 U	17	10-136	51	50	
Benzo(a)anthracene	42		10	ug/L	50.0	1.3 U	85	33-143	8	27.6	
Benzo(a)pyrene	48		10	ug/L	50.0	1.3 U	95	17-163	7	39	
Benzo(b)fluoranthene	55		10	ug/L	50.0	1.0 U	110	24-159	4	38.8	
Benzo(g,h,i)perylene	58		10	ug/L	50.0	2.4 U	117	10-219	4	58.9	
Benzo(k)fluoranthene	55		10	ug/L	50.0	1.3 U	110	11-162	8	32.3	
Bis(2-chloroethoxy)methane	41		10	ug/L	50.0	1.4 U	82	33-184	12	34.5	
Bis(2-chloroethyl)ether	34		10	ug/L	50.0	1.2 U	68	12-158	15	55	
Bis(2-chloroisopropyl)ether	34		10	ug/L	50.0	1.3 U	68	36-166	16	46.3	
Bis(2-ethylhexyl)phthalate	42		5.0	ug/L	50.0	1.7 U	83	10-158	8	41.1	
Butylbenzylphthalate	46		10	ug/L	50.0	2.0 U	93	10-152	2	25	
Chrysene	46		10	ug/L	50.0	2.0 U	91	17-168	7	48.3	

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 2E24031 - EPA 3510C_MS

Matrix Spike Dup (2E24031-MSD1) Continued Prepared: 05/24/2012 14:12 Analyzed: 05/24/2012 23:02

Source: C205906-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Dibenzo(a,h)anthracene	46		10	ug/L	50.0	2.3 U	92	10-227	3	70	
Diethylphthalate	43		10	ug/L	50.0	2.1 U	85	62-127	7	11	
Dimethylphthalate	44		10	ug/L	50.0	1.4 U	87	10-114	8	26.5	
Di-n-butylphthalate	45		10	ug/L	50.0	1.5 U	89	10-118	0.2	25	
Di-n-octylphthalate	72		10	ug/L	50.0	3.1 U	145	10-146	7	31.4	
Fluoranthene	38		10	ug/L	50.0	2.1 U	76	26-137	2	32.8	
Fluorene	36		10	ug/L	50.0	1.7 U	73	59-121	12	25	
Hexachlorobenzene	44		10	ug/L	50.0	1.0 U	87	10-152	5	25	
Hexachlorobutadiene	30		10	ug/L	50.0	1.2 U	59	24-116	19	26.3	
Hexachlorocyclopentadiene	28		10	ug/L	50.0	1.3 U	57	10-99	41	50	
Hexachloroethane	27		10	ug/L	50.0	1.1 U	53	12-82	22	50	
Indeno(1,2,3-cd)pyrene	47		10	ug/L	50.0	2.2 U	94	10-171	5	44.6	
Isophorone	41		10	ug/L	50.0	1.3 U	82	21-196	8	63.3	
Naphthalene	32		10	ug/L	50.0	1.3 U	63	21-133	20	30.1	
Nitrobenzene	35		10	ug/L	50.0	1.2 U	69	35-180	20	39.3	
N-Nitrosodimethylamine	29		10	ug/L	50.0	1.3 U	58	24-94	19	36	
N-Nitroso-di-n-propylamine	36		10	ug/L	50.0	1.5 U	73	10-230	12	55.4	
Pentachlorophenol	46		10	ug/L	50.0	1.8 U	92	51-135	10	25	
Phenanthrene	42		10	ug/L	50.0	1.4 U	85	54-120	6	25	
Phenol	24		10	ug/L	50.0	1.4 U	47	19-78	17	25	
Pyrene	42		10	ug/L	50.0	2.1 U	85	52-115	3	25	
Surrogate: 2,4,6-Tribromophenol	*77*			*ug/L*	*100*		*77*	*18-157*			
Surrogate: 2-Fluorobiphenyl	*42*			*ug/L*	*50.0*		*83*	*15-139*			
Surrogate: 2-Fluorophenol	*53*			*ug/L*	*100*		*53*	*10-104*			
Surrogate: Nitrobenzene-d5	*35*			*ug/L*	*50.0*		*69*	*16-140*			
Surrogate: Phenol-d5	*43*			*ug/L*	*100*		*43*	*10-83*			
Surrogate: Terphenyl-d14	*42*			*ug/L*	*50.0*		*85*	*23-164*			

Tentatively Identified Compounds by Semivolatile GCMS - Quality Control

Batch 2E24031 - EPA 3510C_MS

Blank (2E24031-BLK1) Prepared: 05/24/2012 14:12 Analyzed: 05/24/2012 21:40

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Unknown	**13**	**J**		ug/L							

Gasoline Range Organics by GC - Quality Control

Batch 2E24011 - EPA 5035

Blank (2E24011-BLK1) Prepared: 05/24/2012 08:42 Analyzed: 05/24/2012 11:05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
GRO (C6-C10)	1.4	U	5.5	mg/kg wet							
Surrogate: 2,5-Dibromotoluene	*7.6*			*mg/kg wet*	*10.0*		*76*	*59-168*			

QUALITY CONTROL

Gasoline Range Organics by GC - Quality Control

Batch 2E24011 - EPA 5035

LCS (2E24011-BS1) Prepared: 05/24/2012 08:42 Analyzed: 05/24/2012 11:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
GRO (C6-C10)	0.49		0.06	mg/L	0.500		98	51-115			
Surrogate: 2,5-Dibromotoluene	*7.6*			*mg/kg wet*	*10.0*		*76*	*59-168*			

Matrix Spike (2E24011-MS1) Prepared: 05/24/2012 08:42 Analyzed: 05/24/2012 13:41

Source: C205788-08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
GRO (C6-C10)	0.62		0.06	mg/L	0.500	0.005	123	45-162			
Surrogate: 2,5-Dibromotoluene	*9.1*			*mg/kg wet*	*9.98*		*91*	*59-168*			

Matrix Spike Dup (2E24011-MSD1) Prepared: 05/24/2012 08:42 Analyzed: 05/24/2012 14:12

Source: C205788-08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
GRO (C6-C10)	0.62		0.06	mg/L	0.500	0.005	123	45-162		24	
Surrogate: 2,5-Dibromotoluene	*9.7*			*mg/kg wet*	*10.0*		*97*	*59-168*			

Diesel Range Organics by GC - Quality Control

Batch 2E24027 - EPA 3550C

Blank (2E24027-BLK1) Prepared: 05/24/2012 12:44 Analyzed: 05/25/2012 12:56

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
DRO (C10-C28)	0.78	U	3.3	mg/kg wet							
Surrogate: o-Terphenyl	*1.0*			*mg/kg wet*	*1.67*		*63*	*51-138*			

LCS (2E24027-BS1) Prepared: 05/24/2012 12:44 Analyzed: 05/25/2012 13:26

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
DRO (C10-C28)	25		3.3	mg/kg wet	33.3		74	37-116			
Surrogate: o-Terphenyl	*1.6*			*mg/kg wet*	*1.67*		*95*	*51-138*			

Matrix Spike (2E24027-MS1) Prepared: 05/24/2012 12:44 Analyzed: 05/25/2012 13:55

Source: C205687-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
DRO (C10-C28)	18		3.5	mg/kg dry	35.2	0.99	48	37-116			
Surrogate: o-Terphenyl	*1.3*			*mg/kg dry*	*1.76*		*74*	*51-138*			

Matrix Spike Dup (2E24027-MSD1) Prepared: 05/24/2012 12:44 Analyzed: 05/25/2012 14:32

Source: C205687-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
DRO (C10-C28)	31		3.5	mg/kg dry	35.2	0.99	85	37-116	52	45	QR-02

QUALITY CONTROL

Diesel Range Organics by GC - Quality Control

Batch 2E24027 - EPA 3550C

Matrix Spike Dup (2E24027-MSD1) Continued Prepared: 05/24/2012 12:44 Analyzed: 05/25/2012 14:32

Source: C205687-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: o-Terphenyl	*1.9*			*mg/kg dry*	*1.76*		*109*	*51-138*			

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 2E22008 - EPA 3050B

Blank (2E22008-BLK1) Prepared: 05/22/2012 08:38 Analyzed: 05/23/2012 12:57

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chromium	0.100	U	0.500	mg/kg wet							
Lead	0.120	U	0.500	mg/kg wet							

LCS (2E22008-BS1) Prepared: 05/22/2012 08:38 Analyzed: 05/23/2012 13:00

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chromium	10.0		0.500	mg/kg wet	10.0		100	80-120			
Lead	10.1		0.500	mg/kg wet	10.0		101	80-120			

Matrix Spike (2E22008-MS1) Prepared: 05/22/2012 08:38 Analyzed: 05/23/2012 13:04

Source: C205559-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chromium	19.0		0.567	mg/kg dry	11.2	11.5	67	75-125			QM-07
Lead	31.3		0.567	mg/kg dry	11.2	15.9	137	75-125			QM-07

Matrix Spike Dup (2E22008-MSD1) Prepared: 05/22/2012 08:38 Analyzed: 05/23/2012 13:07

Source: C205559-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chromium	19.2		0.567	mg/kg dry	11.2	11.5	69	75-125	1	20	QM-07
Lead	24.8		0.567	mg/kg dry	11.2	15.9	79	75-125	23	20	QM-07

Post Spike (2E22008-PS1) Prepared: 05/22/2012 08:38 Analyzed: 05/23/2012 13:09

Source: C205559-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chromium	0.385		0.0100	mg/L	0.200	0.202	91	80-120			
Lead	0.451		0.0100	mg/L	0.200	0.281	85	80-120			

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 2E29001 - EPA 1664A

Blank (2E29001-BLK1) Prepared: 05/29/2012 10:31 Analyzed: 05/31/2012 13:07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 2E29001 - EPA 1664A

Blank (2E29001-BLK1) Continued Prepared: 05/29/2012 10:31 Analyzed: 05/31/2012 13:07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Oil & Grease (HEM-SGT) Non-Polar Material	50.0	U	50.0	mg/kg wet							

LCS (2E29001-BS1) Prepared: 05/29/2012 10:31 Analyzed: 05/31/2012 13:07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Oil & Grease (HEM-SGT) Non-Polar Material	898		50.0	mg/kg wet	980		92	51-113			

Matrix Spike (2E29001-MS1) Prepared: 05/29/2012 10:31 Analyzed: 05/31/2012 13:07

Source: C205559-06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Oil & Grease (HEM-SGT) Non-Polar Material	925		52.5	mg/kg dry	1050	134	75	51-113			

Matrix Spike Dup (2E29001-MSD1) Prepared: 05/29/2012 10:31 Analyzed: 05/31/2012 13:07

Source: C205559-06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Oil & Grease (HEM-SGT) Non-Polar Material	927		52.5	mg/kg dry	1040	134	77	51-113	0.2	13	

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 2E25033 - EPA 5030B_MS

Blank (2E25033-BLK1) Prepared: 05/25/2012 13:56 Analyzed: 05/26/2012 00:51

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.0004	U	0.0010	mg/kg wet							
1,1,1-Trichloroethane	0.0004	U	0.0010	mg/kg wet							
1,1,2,2-Tetrachloroethane	0.0003	U	0.0010	mg/kg wet							
1,1,2-Trichloroethane	0.0006	U	0.0010	mg/kg wet							
1,1-Dichloroethane	0.0006	U	0.0010	mg/kg wet							
1,1-Dichloroethene	0.0006	U	0.0010	mg/kg wet							
1,1-Dichloropropene	0.0005	U	0.0010	mg/kg wet							
1,2,3-Trichlorobenzene	0.0009	U	0.0010	mg/kg wet							
1,2,3-Trichloropropane	0.0003	U	0.0010	mg/kg wet							
1,2,4-Trichlorobenzene	0.0008	U	0.0010	mg/kg wet							
1,2,4-Trimethylbenzene	0.0007	U	0.0010	mg/kg wet							
1,2-Dibromo-3-chloropropane	0.0006	U	0.0010	mg/kg wet							
1,2-Dibromoethane	0.0003	U	0.0010	mg/kg wet							
1,2-Dichlorobenzene	0.0004	U	0.0010	mg/kg wet							
1,2-Dichloroethane	0.0003	U	0.0010	mg/kg wet							
1,2-Dichloropropane	0.0006	U	0.0010	mg/kg wet							
1,3,5-Trimethylbenzene	0.0006	U	0.0010	mg/kg wet							
1,3-Dichlorobenzene	0.0005	U	0.0010	mg/kg wet							
1,3-Dichloropropane	0.0004	U	0.0010	mg/kg wet							
1,4-Dichlorobenzene	0.0004	U	0.0010	mg/kg wet							
2,2-Dichloropropane	0.0004	U	0.0010	mg/kg wet							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 2E25033 - EPA 5030B_MS

Blank (2E25033-BLK1) Continued Prepared: 05/25/2012 13:56 Analyzed: 05/26/2012 00:51

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Butanone	0.0018	U	0.0050	mg/kg wet							
2-Chloroethyl Vinyl Ether	0.0017	U	0.0050	mg/kg wet							
2-Chlorotoluene	0.0005	U	0.0010	mg/kg wet							
2-Hexanone	0.0009	U	0.0050	mg/kg wet							
4-Chlorotoluene	0.0006	U	0.0010	mg/kg wet							
4-Isopropyltoluene	0.0008	U	0.0010	mg/kg wet							
4-Methyl-2-pentanone	0.0014	U	0.0050	mg/kg wet							
Acetone	0.0017	U	0.0050	mg/kg wet							
Benzene	0.0004	U	0.0010	mg/kg wet							
Bromobenzene	0.0004	U	0.0010	mg/kg wet							
Bromochloromethane	0.0004	U	0.0010	mg/kg wet							
Bromodichloromethane	0.0004	U	0.0010	mg/kg wet							
Bromoform	0.0003	U	0.0010	mg/kg wet							
Bromomethane	0.0009	U	0.0010	mg/kg wet							
Carbon disulfide	0.0021	U	0.0050	mg/kg wet							
Carbon Tetrachloride	0.0006	U	0.0010	mg/kg wet							
Chlorobenzene	0.0005	U	0.0010	mg/kg wet							
Chloroethane	0.0005	U	0.0010	mg/kg wet							
Chloroform	0.0004	U	0.0010	mg/kg wet							
Chloromethane	0.0006	U	0.0010	mg/kg wet							
cis-1,2-Dichloroethene	0.0005	U	0.0010	mg/kg wet							
cis-1,3-Dichloropropene	0.0003	U	0.0010	mg/kg wet							
Dibromochloromethane	0.0003	U	0.0010	mg/kg wet							
Dibromomethane	0.0004	U	0.0010	mg/kg wet							
Dichlorodifluoromethane	0.0006	U	0.0010	mg/kg wet							
Ethylbenzene	0.0006	U	0.0010	mg/kg wet							
Hexachlorobutadiene	0.0009	U	0.0010	mg/kg wet							
Isopropylbenzene	0.0005	U	0.0010	mg/kg wet							
m,p-Xylenes	0.0010	U	0.0020	mg/kg wet							
Methylene Chloride	0.0007	U	0.0020	mg/kg wet							
Methyl-tert-Butyl Ether	0.0003	U	0.0010	mg/kg wet							
Naphthalene	0.0006	U	0.0010	mg/kg wet							
n-Butyl Benzene	0.0009	U	0.0010	mg/kg wet							
n-Propyl Benzene	0.0006	U	0.0010	mg/kg wet							
o-Xylene	0.0005	U	0.0010	mg/kg wet							
sec-Butylbenzene	0.0006	U	0.0010	mg/kg wet							
Styrene	0.0004	U	0.0010	mg/kg wet							
tert-Butylbenzene	0.0006	U	0.0010	mg/kg wet							
Tetrachloroethene	0.0005	U	0.0010	mg/kg wet							
Toluene	0.0005	U	0.0010	mg/kg wet							
trans-1,2-Dichloroethene	0.0007	U	0.0010	mg/kg wet							
trans-1,3-Dichloropropene	0.0003	U	0.0010	mg/kg wet							
Trichloroethene	0.0005	U	0.0010	mg/kg wet							
Trichlorofluoromethane	0.0005	U	0.0010	mg/kg wet							
Vinyl chloride	0.0004	U	0.0010	mg/kg wet							
Xylenes (Total)	0.0010	U	0.0020	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	*47*			*ug/L*	*50.0*		*94*	*71-126*			
Surrogate: Dibromofluoromethane	*51*			*ug/L*	*50.0*		*101*	*72-133*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 2E25033 - EPA 5030B_MS

Blank (2E25033-BLK1) Continued Prepared: 05/25/2012 13:56 Analyzed: 05/26/2012 00:51

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Toluene-d8	*47*			*ug/L*	*50.0*		*94*	*80-123*			

LCS (2E25033-BS1) Prepared: 05/25/2012 13:56 Analyzed: 05/25/2012 22:49

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	25		1.0	ug/L	20.0		123	61-124			
Benzene	18		1.0	ug/L	20.0		90	59-133			
Chlorobenzene	20		1.0	ug/L	20.0		99	69-121			
Toluene	18		1.0	ug/L	20.0		91	66-119			
Trichloroethene	18		1.0	ug/L	20.0		91	71-122			
Surrogate: 4-Bromofluorobenzene	*46*			*ug/L*	*50.0*		*92*	*71-126*			
Surrogate: Dibromofluoromethane	*50*			*ug/L*	*50.0*		*100*	*72-133*			
Surrogate: Toluene-d8	*47*			*ug/L*	*50.0*		*95*	*80-123*			

Matrix Spike (2E25033-MS1) Prepared: 05/25/2012 13:56 Analyzed: 05/25/2012 23:19

Source: A202765-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	23		1.0	ug/L	20.0	0.62 U	113	61-124			
Benzene	15		1.0	ug/L	20.0	0.40 U	75	59-133			
Chlorobenzene	14		1.0	ug/L	20.0	0.48 U	72	69-121			
Toluene	15		1.0	ug/L	20.0	0.46 U	76	66-119			
Trichloroethene	16		1.0	ug/L	20.0	0.50 U	78	71-122			
Surrogate: 4-Bromofluorobenzene	*47*			*ug/L*	*50.0*		*95*	*71-126*			
Surrogate: Dibromofluoromethane	*48*			*ug/L*	*50.0*		*96*	*72-133*			
Surrogate: Toluene-d8	*48*			*ug/L*	*50.0*		*96*	*80-123*			

Matrix Spike Dup (2E25033-MSD1) Prepared: 05/25/2012 13:56 Analyzed: 05/25/2012 23:50

Source: A202765-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	26		1.0	ug/L	20.0	0.62 U	131	61-124	14	23	QM-07
Benzene	15		1.0	ug/L	20.0	0.40 U	76	59-133	2	19	
Chlorobenzene	13		1.0	ug/L	20.0	0.48 U	66	69-121	9	18	QM-07
Toluene	15		1.0	ug/L	20.0	0.46 U	77	66-119	1	21	
Trichloroethene	16		1.0	ug/L	20.0	0.50 U	80	71-122	4	26	
Surrogate: 4-Bromofluorobenzene	*47*			*ug/L*	*50.0*		*93*	*71-126*			
Surrogate: Dibromofluoromethane	*51*			*ug/L*	*50.0*		*103*	*72-133*			
Surrogate: Toluene-d8	*47*			*ug/L*	*50.0*		*94*	*80-123*			

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QV-01	The associated continuing calibration verification standard exhibited high bias; since the result is ND, the impact on data quality is minimal.
QV-02	The associated continuing calibration verification standard exhibited low bias; the reported result should be considered to be a minimum estimate.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr. Orlando, FL 32824 (407) 826-5314 Fax (407) 850-6945
4810 Executive Park Court, Suite 111 Jacksonville, FL 32216-6069 (904) 296-3007 Fax (904) 296-6210
102-A Woodwinds Industrial Ct. Cary, NC 27511 (919) 467-3090 Fax (919) 467-3515
www.encolabs.com

Client Name: Duncklee & Dunham, PC (DU009)	Project Number: 201214
Address: 511 Keisler Drive, Suite 102	Project Name/Desc: Wilmington Materials
City/ST/Zip: Cary, NC 27518	PO # / Billing Info:
Tel: (919) 858-9898 Fax: —	Reporting Contact: ~~Jeysen A. Kilcoyne~~ Rick Kolb
Sampler(s) Name, Affiliation (Print): Jaysen Kilcoyne	Billing Contact: ~~Jeysen A. Kilcoyne~~ Rick Kolb
Sampler(s) Signature: [signature]	Site Location / Time Zone: Wilmington, NC

Requested Turnaround Times: Note: Rush requests subject to acceptance by the facility. X Standard ___ Expedited Due __/__/__

Lab Workorder: C205559

Requested Analyses / Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	%Solids,Cr,O&G 9071B SGT,Pb	%Solids,DRO 8015C	6200B	625,625 TICs	8260B	GRO 8015C					Sample Comments
	SS-8 1-2'	5/17/12	0815	Grab	SO	2		X				X					
	SS-9 2.5-3.5	5/17/12	0840	Grab	SO	2		X				X					
	~~—~~				~~SO~~	~~2~~		~~X~~				~~X~~					
	~~—~~				~~SO~~	~~2~~		~~X~~				~~X~~					
	SS-3 0-1'	5/16/12	1230	Grab	SO	5	X				X						
	SS-3 2-3'	5/16/12	1245	Grab	SO	5	X				X						
	SS-5 1-2'	↓	1400	↓	SO	5	X				X						
	SS-6 1-2'		1500		SO	5	X				X						
	SS-7 1-2'	↓	1550	↓	SO	5	X				X						
	~~—~~				~~SO~~	~~5~~	~~X~~				~~X~~						
	TW-1	5/17/12	1215	Grab	GW	4			X	X							
	TW-2	5/17/12	1125	Grab	GW	4			X	X							
						<-- Total # of Containers											

Sample Kit Prepared By: [signature]	Date/Time: 5/15/12	Relinquished By: [signature]	Date/Time: 5/18/12
Comments/Special Reporting Requirements:		Relinquished By:	Date/Time:
		Relinquished By:	Date/Time:
		Received By:	Date/Time:
		Received By:	Date/Time:
		Received By: [signature]	Date/Time: 5/18/12 11:45
		Cooler #'s & Temps on Receipt: C-325 C-549 2.7°C	Condition Upon Receipt: X Acceptable ___ Unacceptable

Matrix: GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments) Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note: All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

www.encolabs.com

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr.
Orlando, FL 32824
(407) 826-5314 Fax (407) 850-6945

4810 Executive Park Court, Suite 111
Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

www.encolabs.com

Client Name: Duncklee & Dunham, PC (DU009)	Project Number: 201214
Address: 511 Keisler Drive, Suite 102	Project Name/Desc: Wilmington Materials
City/ST/Zip: Cary, NC 27518	PO # / Billing Info:
Tel: (919) 858-9898 Fax: —	Reporting Contact: ~~Jaysen A. Kilcoyne~~ Rick Kolb
Sampler(s) Name, Affiliation (Print): Jaysen Kilcoyne	Billing Contact: ~~Jaysen A. Kilcoyne~~ Rick Kolb
Sampler(s) Signature: [signature]	Site Location / Time Zone: Wilmington, NC

Requested Analyses: %Solids, Cr, O&G 9071B SGT, Pb; %Solids, DRO 8015C; 6200B; 625, 625 TICs; 8260B; GRO 8015C

Requested Turnaround Times: Note: Rush requests subject to acceptance by the facility. X Standard ___ Expedited Due __/__/__

Lab Workorder: C205559

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	%Solids, Cr, O&G 9071B SGT, Pb	%Solids, DRO 8015C	6200B	625, 625 TICs	8260B	GRO 8015C					Sample Comments
	TW-3	5/17/12	1405	Grab	GW	4			X	X							
	WSW-1	5/17/12	1525	Grab	GW	4			X	X							
					GW	4			X	X							
					GW	4			X	X							
	Trip Blank	5/17/12	1530	—	WA	2			X								

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
[signature]	5/5/12	[signature]	5/18/12		
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By [signature]	Date/Time 5/18/12 11:45

Cooler #'s & Temps on Receipt: C-325 C-549 2.7°C

Condition Upon Receipt: X Acceptable ___ Unacceptable

Matrix: GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments) Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note: All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

www.encolabs.com

Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515
www.encolabs.com

Monday, June 25, 2012

Duncklee & Dunham, PC (DU009)

Attn: Rick Kolb

511 Keisler Drive, Suite 102

Cary, NC 27518

RE: Laboratory Results for
Project Number: 201214, Project Name/Desc: Wilmington Materials
ENCO Workorder(s): C207387

Dear Rick Kolb,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Thursday, June 21, 2012.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chuck Smith

Chuck Smith
Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 34.

www.encolabs.com

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: SS-10 6-8'	Lab ID: C207387-01	Sampled: 06/20/12 10:15	Received: 06/21/12 12:52
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**	**Analysis Date/Time(s)**
EPA 8260B	07/04/12	06/21/12 15:20	6/21/2012 15:22

Client ID: SS-11 1-2'	Lab ID: C207387-02	Sampled: 06/20/12 14:30	Received: 06/21/12 12:52
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**	**Analysis Date/Time(s)**
EPA 8260B	07/04/12	06/21/12 15:20	6/21/2012 15:51

Client ID: SS-12 1-2'	Lab ID: C207387-03	Sampled: 06/20/12 14:40	Received: 06/21/12 12:52
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**	**Analysis Date/Time(s)**
EPA 8260B	07/04/12	06/21/12 16:20	6/21/2012 16:20

Client ID: SS-13 1-2'	Lab ID: C207387-04	Sampled: 06/20/12 14:50	Received: 06/21/12 12:52
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**	**Analysis Date/Time(s)**
EPA 8260B	07/04/12	06/21/12 16:20	6/21/2012 16:50

Client ID: SS-14 1-2'	Lab ID: C207387-05	Sampled: 06/20/12 15:00	Received: 06/21/12 12:52
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**	**Analysis Date/Time(s)**
EPA 8260B	07/04/12	06/21/12 16:20	6/21/2012 17:19

Client ID: SS-15 1-2'	Lab ID: C207387-06	Sampled: 06/20/12 15:10	Received: 06/21/12 12:52
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**	**Analysis Date/Time(s)**
EPA 8260B	07/04/12	06/21/12 16:20	6/21/2012 17:49

Client ID: SS-16 1-2'	Lab ID: C207387-07	Sampled: 06/20/12 15:20	Received: 06/21/12 12:52
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**	**Analysis Date/Time(s)**
EPA 8260B	07/04/12	06/21/12 16:20	6/21/2012 18:18

Client ID: TW-4	Lab ID: C207387-08	Sampled: 06/20/12 14:30	Received: 06/21/12 12:52
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**	**Analysis Date/Time(s)**
SM21 6200B	07/04/12	06/21/12 13:46	6/22/2012 10:37

Client ID: Trip Blank	Lab ID: C207387-09	Sampled: 06/20/12 10:15	Received: 06/21/12 12:52
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**	**Analysis Date/Time(s)**
EPA 8260B	07/04/12	06/22/12 10:26	6/25/2012 11:41

www.encolabs.com

SAMPLE DETECTION SUMMARY

Client ID: SS-10 6-8' Lab ID: C207387-01

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Acetone	0.0037	J	0.0015	0.0054	mg/kg dry	EPA 8260B	

Client ID: SS-11 1-2' Lab ID: C207387-02

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Acetone	0.037		0.0015	0.0053	mg/kg dry	EPA 8260B	
Tetrachloroethene	0.013		0.00030	0.0011	mg/kg dry	EPA 8260B	

Client ID: SS-12 1-2' Lab ID: C207387-03

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Acetone	0.026		0.0014	0.0051	mg/kg dry	EPA 8260B	

Client ID: SS-13 1-2' Lab ID: C207387-04

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Acetone	0.012		0.0015	0.0052	mg/kg dry	EPA 8260B	
Tetrachloroethene	0.0032		0.00029	0.0010	mg/kg dry	EPA 8260B	

Client ID: SS-14 1-2' Lab ID: C207387-05

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Acetone	0.013		0.0015	0.0054	mg/kg dry	EPA 8260B	
Tetrachloroethene	0.0012		0.00030	0.0011	mg/kg dry	EPA 8260B	

Client ID: SS-15 1-2' Lab ID: C207387-06

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Acetone	0.010		0.0015	0.0052	mg/kg dry	EPA 8260B	
Tetrachloroethene	0.0012		0.00029	0.0010	mg/kg dry	EPA 8260B	

Client ID: SS-16 1-2' Lab ID: C207387-07

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Acetone	0.022		0.0015	0.0052	mg/kg dry	EPA 8260B	
Tetrachloroethene	0.0025		0.00029	0.0010	mg/kg dry	EPA 8260B	

Client ID: TW-4 Lab ID: C207387-08

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Toluene	0.40	J	0.053	1.0	ug/L	SM21 6200B	

www.encolabs.com

ANALYTICAL RESULTS

Description: SS-10 6-8'
Matrix: Soil
Project: Wilmington Materials

Lab Sample ID: C207387-01
Sampled: 06/20/12 10:15
Sampled By: Jayson A. Kilcoyne

Received: 06/21/12 12:52
Work Order: C207387
% Solids: 93.3

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.00017	U	mg/kg dry	1	0.00017	0.0011	2F21007	EPA 8260B	06/21/12 15:22	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.00027	U	mg/kg dry	1	0.00027	0.0011	2F21007	EPA 8260B	06/21/12 15:22	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.00021	U	mg/kg dry	1	0.00021	0.0011	2F21007	EPA 8260B	06/21/12 15:22	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.00027	U	mg/kg dry	1	0.00027	0.0011	2F21007	EPA 8260B	06/21/12 15:22	JKG	
1,1-Dichloroethane [75-34-3] ^	0.00027	U	mg/kg dry	1	0.00027	0.0011	2F21007	EPA 8260B	06/21/12 15:22	JKG	
1,1-Dichloroethene [75-35-4] ^	0.00032	U	mg/kg dry	1	0.00032	0.0011	2F21007	EPA 8260B	06/21/12 15:22	JKG	
1,1-Dichloropropene [563-58-6] ^	0.00017	U	mg/kg dry	1	0.00017	0.0011	2F21007	EPA 8260B	06/21/12 15:22	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.00030	U	mg/kg dry	1	0.00030	0.0011	2F21007	EPA 8260B	06/21/12 15:22	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.00069	U	mg/kg dry	1	0.00069	0.0011	2F21007	EPA 8260B	06/21/12 15:22	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.00029	U	mg/kg dry	1	0.00029	0.0011	2F21007	EPA 8260B	06/21/12 15:22	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.00018	U	mg/kg dry	1	0.00018	0.0011	2F21007	EPA 8260B	06/21/12 15:22	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.00085	U	mg/kg dry	1	0.00085	0.0011	2F21007	EPA 8260B	06/21/12 15:22	JKG	
1,2-Dibromoethane [106-93-4] ^	0.00049	U	mg/kg dry	1	0.00049	0.0011	2F21007	EPA 8260B	06/21/12 15:22	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.00029	U	mg/kg dry	1	0.00029	0.0011	2F21007	EPA 8260B	06/21/12 15:22	JKG	
1,2-Dichloroethane [107-06-2] ^	0.00044	U	mg/kg dry	1	0.00044	0.0011	2F21007	EPA 8260B	06/21/12 15:22	JKG	
1,2-Dichloropropane [78-87-5] ^	0.00028	U	mg/kg dry	1	0.00028	0.0011	2F21007	EPA 8260B	06/21/12 15:22	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.00021	U	mg/kg dry	1	0.00021	0.0011	2F21007	EPA 8260B	06/21/12 15:22	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.00024	U	mg/kg dry	1	0.00024	0.0011	2F21007	EPA 8260B	06/21/12 15:22	JKG	
1,3-Dichloropropane [142-28-9] ^	0.00031	U	mg/kg dry	1	0.00031	0.0011	2F21007	EPA 8260B	06/21/12 15:22	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.00021	U	mg/kg dry	1	0.00021	0.0011	2F21007	EPA 8260B	06/21/12 15:22	JKG	
2,2-Dichloropropane [594-20-7] ^	0.00025	U	mg/kg dry	1	0.00025	0.0011	2F21007	EPA 8260B	06/21/12 15:22	JKG	
2-Butanone [78-93-3] ^	0.00084	U	mg/kg dry	1	0.00084	0.0054	2F21007	EPA 8260B	06/21/12 15:22	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	0.00017	U	mg/kg dry	1	0.00017	0.0054	2F21007	EPA 8260B	06/21/12 15:22	JKG	
2-Chlorotoluene [95-49-8] ^	0.00019	U	mg/kg dry	1	0.00019	0.0011	2F21007	EPA 8260B	06/21/12 15:22	JKG	
2-Hexanone [591-78-6] ^	0.00080	U	mg/kg dry	1	0.00080	0.0054	2F21007	EPA 8260B	06/21/12 15:22	JKG	
4-Chlorotoluene [106-43-4] ^	0.00028	U	mg/kg dry	1	0.00028	0.0011	2F21007	EPA 8260B	06/21/12 15:22	JKG	
4-Isopropyltoluene [99-87-6] ^	0.00017	U	mg/kg dry	1	0.00017	0.0011	2F21007	EPA 8260B	06/21/12 15:22	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.00061	U	mg/kg dry	1	0.00061	0.0054	2F21007	EPA 8260B	06/21/12 15:22	JKG	
Acetone [67-64-1] ^	**0.0037**	J	mg/kg dry	1	0.0015	0.0054	2F21007	EPA 8260B	06/21/12 15:22	JKG	
Benzene [71-43-2] ^	0.00018	U	mg/kg dry	1	0.00018	0.0011	2F21007	EPA 8260B	06/21/12 15:22	JKG	
Bromobenzene [108-86-1] ^	0.00024	U	mg/kg dry	1	0.00024	0.0011	2F21007	EPA 8260B	06/21/12 15:22	JKG	
Bromochloromethane [74-97-5] ^	0.00044	U	mg/kg dry	1	0.00044	0.0011	2F21007	EPA 8260B	06/21/12 15:22	JKG	
Bromodichloromethane [75-27-4] ^	0.00026	U	mg/kg dry	1	0.00026	0.0011	2F21007	EPA 8260B	06/21/12 15:22	JKG	
Bromoform [75-25-2] ^	0.00048	U	mg/kg dry	1	0.00048	0.0011	2F21007	EPA 8260B	06/21/12 15:22	JKG	
Bromomethane [74-83-9] ^	0.00034	U	mg/kg dry	1	0.00034	0.0011	2F21007	EPA 8260B	06/21/12 15:22	JKG	
Carbon disulfide [75-15-0] ^	0.00042	U	mg/kg dry	1	0.00042	0.0054	2F21007	EPA 8260B	06/21/12 15:22	JKG	
Carbon Tetrachloride [56-23-5] ^	0.00024	U	mg/kg dry	1	0.00024	0.0011	2F21007	EPA 8260B	06/21/12 15:22	JKG	
Chlorobenzene [108-90-7] ^	0.00018	U	mg/kg dry	1	0.00018	0.0011	2F21007	EPA 8260B	06/21/12 15:22	JKG	
Chloroethane [75-00-3] ^	0.00027	U	mg/kg dry	1	0.00027	0.0011	2F21007	EPA 8260B	06/21/12 15:22	JKG	
Chloroform [67-66-3] ^	0.00019	U	mg/kg dry	1	0.00019	0.0011	2F21007	EPA 8260B	06/21/12 15:22	JKG	
Chloromethane [74-87-3] ^	0.00023	U	mg/kg dry	1	0.00023	0.0011	2F21007	EPA 8260B	06/21/12 15:22	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.00025	U	mg/kg dry	1	0.00025	0.0011	2F21007	EPA 8260B	06/21/12 15:22	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.00018	U	mg/kg dry	1	0.00018	0.0011	2F21007	EPA 8260B	06/21/12 15:22	JKG	
Dibromochloromethane [124-48-1] ^	0.00038	U	mg/kg dry	1	0.00038	0.0011	2F21007	EPA 8260B	06/21/12 15:22	JKG	
Dibromomethane [74-95-3] ^	0.00035	U	mg/kg dry	1	0.00035	0.0011	2F21007	EPA 8260B	06/21/12 15:22	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.00048	U	mg/kg dry	1	0.00048	0.0011	2F21007	EPA 8260B	06/21/12 15:22	JKG	
Ethylbenzene [100-41-4] ^	0.00021	U	mg/kg dry	1	0.00021	0.0011	2F21007	EPA 8260B	06/21/12 15:22	JKG	
Hexachlorobutadiene [87-68-3] ^	0.00038	U	mg/kg dry	1	0.00038	0.0011	2F21007	EPA 8260B	06/21/12 15:22	JKG	

www.encolabs.com

Description: SS-10 6-8'
Matrix: Soil
Project: Wilmington Materials

Lab Sample ID: C207387-01
Sampled: 06/20/12 10:15
Sampled By: Jayson A. Kilcoyne

Received: 06/21/12 12:52
Work Order: C207387
% Solids: 93.3

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Isopropylbenzene [98-82-8] ^	0.00016	U	mg/kg dry	1	0.00016	0.0011	2F21007	EPA 8260B	06/21/12 15:22	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.00040	U	mg/kg dry	1	0.00040	0.0021	2F21007	EPA 8260B	06/21/12 15:22	JKG	
Methylene Chloride [75-09-2] ^	0.00078	U	mg/kg dry	1	0.00078	0.0021	2F21007	EPA 8260B	06/21/12 15:22	JKG	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.00032	U	mg/kg dry	1	0.00032	0.0011	2F21007	EPA 8260B	06/21/12 15:22	JKG	
Naphthalene [91-20-3] ^	0.00029	U	mg/kg dry	1	0.00029	0.0011	2F21007	EPA 8260B	06/21/12 15:22	JKG	
n-Butyl Benzene [104-51-8] ^	0.00014	U	mg/kg dry	1	0.00014	0.0011	2F21007	EPA 8260B	06/21/12 15:22	JKG	
n-Propyl Benzene [103-65-1] ^	0.00019	U	mg/kg dry	1	0.00019	0.0011	2F21007	EPA 8260B	06/21/12 15:22	JKG	
o-Xylene [95-47-6] ^	0.00024	U	mg/kg dry	1	0.00024	0.0011	2F21007	EPA 8260B	06/21/12 15:22	JKG	
sec-Butylbenzene [135-98-8] ^	0.0010	U	mg/kg dry	1	0.0010	0.0011	2F21007	EPA 8260B	06/21/12 15:22	JKG	
Styrene [100-42-5] ^	0.0011	U	mg/kg dry	1	0.0011	0.0011	2F21007	EPA 8260B	06/21/12 15:22	JKG	
tert-Butylbenzene [98-06-6] ^	0.00018	U	mg/kg dry	1	0.00018	0.0011	2F21007	EPA 8260B	06/21/12 15:22	JKG	
Tetrachloroethene [127-18-4] ^	0.00030	U	mg/kg dry	1	0.00030	0.0011	2F21007	EPA 8260B	06/21/12 15:22	JKG	
Toluene [108-88-3] ^	0.00026	U	mg/kg dry	1	0.00026	0.0011	2F21007	EPA 8260B	06/21/12 15:22	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.00040	U	mg/kg dry	1	0.00040	0.0011	2F21007	EPA 8260B	06/21/12 15:22	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.00042	U	mg/kg dry	1	0.00042	0.0011	2F21007	EPA 8260B	06/21/12 15:22	JKG	
Trichloroethene [79-01-6] ^	0.00034	U	mg/kg dry	1	0.00034	0.0011	2F21007	EPA 8260B	06/21/12 15:22	JKG	
Trichlorofluoromethane [75-69-4] ^	0.00028	U	mg/kg dry	1	0.00028	0.0011	2F21007	EPA 8260B	06/21/12 15:22	JKG	
Vinyl chloride [75-01-4] ^	0.00026	U	mg/kg dry	1	0.00026	0.0011	2F21007	EPA 8260B	06/21/12 15:22	JKG	
Xylenes (Total) [1330-20-7] ^	0.00060	U	mg/kg dry	1	0.00060	0.0032	2F21007	EPA 8260B	06/21/12 15:22	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*44*	*1*	*50.0*	*88 %*	*61-118*	*2F21007*	*EPA 8260B*	*06/21/12 15:22*	*JKG*	
Dibromofluoromethane	*42*	*1*	*50.0*	*85 %*	*66-114*	*2F21007*	*EPA 8260B*	*06/21/12 15:22*	*JKG*	
Toluene-d8	*44*	*1*	*50.0*	*88 %*	*63-118*	*2F21007*	*EPA 8260B*	*06/21/12 15:22*	*JKG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: SS-11 1-2'
Matrix: Soil
Project: Wilmington Materials

Lab Sample ID: C207387-02
Sampled: 06/20/12 14:30
Sampled By: Jayson A. Kilcoyne

Received: 06/21/12 12:52
Work Order: C207387
% Solids: 93.5

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.00017	U	mg/kg dry	1	0.00017	0.0011	2F21007	EPA 8260B	06/21/12 15:51	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.00027	U	mg/kg dry	1	0.00027	0.0011	2F21007	EPA 8260B	06/21/12 15:51	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.00021	U	mg/kg dry	1	0.00021	0.0011	2F21007	EPA 8260B	06/21/12 15:51	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.00027	U	mg/kg dry	1	0.00027	0.0011	2F21007	EPA 8260B	06/21/12 15:51	JKG	
1,1-Dichloroethane [75-34-3] ^	0.00027	U	mg/kg dry	1	0.00027	0.0011	2F21007	EPA 8260B	06/21/12 15:51	JKG	
1,1-Dichloroethene [75-35-4] ^	0.00032	U	mg/kg dry	1	0.00032	0.0011	2F21007	EPA 8260B	06/21/12 15:51	JKG	
1,1-Dichloropropene [563-58-6] ^	0.00017	U	mg/kg dry	1	0.00017	0.0011	2F21007	EPA 8260B	06/21/12 15:51	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.00030	U	mg/kg dry	1	0.00030	0.0011	2F21007	EPA 8260B	06/21/12 15:51	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.00068	U	mg/kg dry	1	0.00068	0.0011	2F21007	EPA 8260B	06/21/12 15:51	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.00029	U	mg/kg dry	1	0.00029	0.0011	2F21007	EPA 8260B	06/21/12 15:51	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.00018	U	mg/kg dry	1	0.00018	0.0011	2F21007	EPA 8260B	06/21/12 15:51	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.00085	U	mg/kg dry	1	0.00085	0.0011	2F21007	EPA 8260B	06/21/12 15:51	JKG	
1,2-Dibromoethane [106-93-4] ^	0.00049	U	mg/kg dry	1	0.00049	0.0011	2F21007	EPA 8260B	06/21/12 15:51	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.00029	U	mg/kg dry	1	0.00029	0.0011	2F21007	EPA 8260B	06/21/12 15:51	JKG	
1,2-Dichloroethane [107-06-2] ^	0.00044	U	mg/kg dry	1	0.00044	0.0011	2F21007	EPA 8260B	06/21/12 15:51	JKG	
1,2-Dichloropropane [78-87-5] ^	0.00028	U	mg/kg dry	1	0.00028	0.0011	2F21007	EPA 8260B	06/21/12 15:51	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.00021	U	mg/kg dry	1	0.00021	0.0011	2F21007	EPA 8260B	06/21/12 15:51	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.00024	U	mg/kg dry	1	0.00024	0.0011	2F21007	EPA 8260B	06/21/12 15:51	JKG	
1,3-Dichloropropane [142-28-9] ^	0.00031	U	mg/kg dry	1	0.00031	0.0011	2F21007	EPA 8260B	06/21/12 15:51	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.00021	U	mg/kg dry	1	0.00021	0.0011	2F21007	EPA 8260B	06/21/12 15:51	JKG	
2,2-Dichloropropane [594-20-7] ^	0.00025	U	mg/kg dry	1	0.00025	0.0011	2F21007	EPA 8260B	06/21/12 15:51	JKG	
2-Butanone [78-93-3] ^	0.00083	U	mg/kg dry	1	0.00083	0.0053	2F21007	EPA 8260B	06/21/12 15:51	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	0.00017	U	mg/kg dry	1	0.00017	0.0053	2F21007	EPA 8260B	06/21/12 15:51	JKG	
2-Chlorotoluene [95-49-8] ^	0.00019	U	mg/kg dry	1	0.00019	0.0011	2F21007	EPA 8260B	06/21/12 15:51	JKG	
2-Hexanone [591-78-6] ^	0.00080	U	mg/kg dry	1	0.00080	0.0053	2F21007	EPA 8260B	06/21/12 15:51	JKG	
4-Chlorotoluene [106-43-4] ^	0.00028	U	mg/kg dry	1	0.00028	0.0011	2F21007	EPA 8260B	06/21/12 15:51	JKG	
4-Isopropyltoluene [99-87-6] ^	0.00017	U	mg/kg dry	1	0.00017	0.0011	2F21007	EPA 8260B	06/21/12 15:51	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.00061	U	mg/kg dry	1	0.00061	0.0053	2F21007	EPA 8260B	06/21/12 15:51	JKG	
Acetone [67-64-1] ^	**0.037**		mg/kg dry	1	0.0015	0.0053	2F21007	EPA 8260B	06/21/12 15:51	JKG	
Benzene [71-43-2] ^	0.00018	U	mg/kg dry	1	0.00018	0.0011	2F21007	EPA 8260B	06/21/12 15:51	JKG	
Bromobenzene [108-86-1] ^	0.00024	U	mg/kg dry	1	0.00024	0.0011	2F21007	EPA 8260B	06/21/12 15:51	JKG	
Bromochloromethane [74-97-5] ^	0.00044	U	mg/kg dry	1	0.00044	0.0011	2F21007	EPA 8260B	06/21/12 15:51	JKG	
Bromodichloromethane [75-27-4] ^	0.00026	U	mg/kg dry	1	0.00026	0.0011	2F21007	EPA 8260B	06/21/12 15:51	JKG	
Bromoform [75-25-2] ^	0.00048	U	mg/kg dry	1	0.00048	0.0011	2F21007	EPA 8260B	06/21/12 15:51	JKG	
Bromomethane [74-83-9] ^	0.00034	U	mg/kg dry	1	0.00034	0.0011	2F21007	EPA 8260B	06/21/12 15:51	JKG	
Carbon disulfide [75-15-0] ^	0.00042	U	mg/kg dry	1	0.00042	0.0053	2F21007	EPA 8260B	06/21/12 15:51	JKG	
Carbon Tetrachloride [56-23-5] ^	0.00024	U	mg/kg dry	1	0.00024	0.0011	2F21007	EPA 8260B	06/21/12 15:51	JKG	
Chlorobenzene [108-90-7] ^	0.00018	U	mg/kg dry	1	0.00018	0.0011	2F21007	EPA 8260B	06/21/12 15:51	JKG	
Chloroethane [75-00-3] ^	0.00027	U	mg/kg dry	1	0.00027	0.0011	2F21007	EPA 8260B	06/21/12 15:51	JKG	
Chloroform [67-66-3] ^	0.00019	U	mg/kg dry	1	0.00019	0.0011	2F21007	EPA 8260B	06/21/12 15:51	JKG	
Chloromethane [74-87-3] ^	0.00022	U	mg/kg dry	1	0.00022	0.0011	2F21007	EPA 8260B	06/21/12 15:51	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.00025	U	mg/kg dry	1	0.00025	0.0011	2F21007	EPA 8260B	06/21/12 15:51	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.00018	U	mg/kg dry	1	0.00018	0.0011	2F21007	EPA 8260B	06/21/12 15:51	JKG	
Dibromochloromethane [124-48-1] ^	0.00037	U	mg/kg dry	1	0.00037	0.0011	2F21007	EPA 8260B	06/21/12 15:51	JKG	
Dibromomethane [74-95-3] ^	0.00035	U	mg/kg dry	1	0.00035	0.0011	2F21007	EPA 8260B	06/21/12 15:51	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.00048	U	mg/kg dry	1	0.00048	0.0011	2F21007	EPA 8260B	06/21/12 15:51	JKG	
Ethylbenzene [100-41-4] ^	0.00021	U	mg/kg dry	1	0.00021	0.0011	2F21007	EPA 8260B	06/21/12 15:51	JKG	
Hexachlorobutadiene [87-68-3] ^	0.00037	U	mg/kg dry	1	0.00037	0.0011	2F21007	EPA 8260B	06/21/12 15:51	JKG	
Isopropylbenzene [98-82-8] ^	0.00016	U	mg/kg dry	1	0.00016	0.0011	2F21007	EPA 8260B	06/21/12 15:51	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.00040	U	mg/kg dry	1	0.00040	0.0021	2F21007	EPA 8260B	06/21/12 15:51	JKG	
Methylene Chloride [75-09-2] ^	0.00078	U	mg/kg dry	1	0.00078	0.0021	2F21007	EPA 8260B	06/21/12 15:51	JKG	

www.encolabs.com

Description: SS-11 1-2'
Matrix: Soil
Project: Wilmington Materials

Lab Sample ID: C207387-02
Sampled: 06/20/12 14:30
Sampled By: Jayson A. Kilcoyne

Received: 06/21/12 12:52
Work Order: C207387
% Solids: 93.5

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Methyl-tert-Butyl Ether [1634-04-4] ^	0.00032	U	mg/kg dry	1	0.00032	0.0011	2F21007	EPA 8260B	06/21/12 15:51	JKG	
Naphthalene [91-20-3] ^	0.00029	U	mg/kg dry	1	0.00029	0.0011	2F21007	EPA 8260B	06/21/12 15:51	JKG	
n-Butyl Benzene [104-51-8] ^	0.00014	U	mg/kg dry	1	0.00014	0.0011	2F21007	EPA 8260B	06/21/12 15:51	JKG	
n-Propyl Benzene [103-65-1] ^	0.00019	U	mg/kg dry	1	0.00019	0.0011	2F21007	EPA 8260B	06/21/12 15:51	JKG	
o-Xylene [95-47-6] ^	0.00024	U	mg/kg dry	1	0.00024	0.0011	2F21007	EPA 8260B	06/21/12 15:51	JKG	
sec-Butylbenzene [135-98-8] ^	0.0010	U	mg/kg dry	1	0.0010	0.0011	2F21007	EPA 8260B	06/21/12 15:51	JKG	
Styrene [100-42-5] ^	0.0010	U	mg/kg dry	1	0.0010	0.0011	2F21007	EPA 8260B	06/21/12 15:51	JKG	
tert-Butylbenzene [98-06-6] ^	0.00018	U	mg/kg dry	1	0.00018	0.0011	2F21007	EPA 8260B	06/21/12 15:51	JKG	
Tetrachloroethene [127-18-4] ^	**0.013**		mg/kg dry	1	0.00030	0.0011	2F21007	EPA 8260B	06/21/12 15:51	JKG	
Toluene [108-88-3] ^	0.00026	U	mg/kg dry	1	0.00026	0.0011	2F21007	EPA 8260B	06/21/12 15:51	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.00040	U	mg/kg dry	1	0.00040	0.0011	2F21007	EPA 8260B	06/21/12 15:51	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.00042	U	mg/kg dry	1	0.00042	0.0011	2F21007	EPA 8260B	06/21/12 15:51	JKG	
Trichloroethene [79-01-6] ^	0.00034	U	mg/kg dry	1	0.00034	0.0011	2F21007	EPA 8260B	06/21/12 15:51	JKG	
Trichlorofluoromethane [75-69-4] ^	0.00028	U	mg/kg dry	1	0.00028	0.0011	2F21007	EPA 8260B	06/21/12 15:51	JKG	
Vinyl chloride [75-01-4] ^	0.00026	U	mg/kg dry	1	0.00026	0.0011	2F21007	EPA 8260B	06/21/12 15:51	JKG	
Xylenes (Total) [1330-20-7] ^	0.00060	U	mg/kg dry	1	0.00060	0.0032	2F21007	EPA 8260B	06/21/12 15:51	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*43*	*1*	*50.0*	*86 %*	*61-118*	*2F21007*	*EPA 8260B*	*06/21/12 15:51*	*JKG*	
Dibromofluoromethane	*44*	*1*	*50.0*	*88 %*	*66-114*	*2F21007*	*EPA 8260B*	*06/21/12 15:51*	*JKG*	
Toluene-d8	*44*	*1*	*50.0*	*87 %*	*63-118*	*2F21007*	*EPA 8260B*	*06/21/12 15:51*	*JKG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: SS-12 1-2'
Matrix: Soil
Project: Wilmington Materials

Lab Sample ID: C207387-03
Sampled: 06/20/12 14:40
Sampled By: Jayson A. Kilcoyne

Received: 06/21/12 12:52
Work Order: C207387
% Solids: 97.7

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.00016	U	mg/kg dry	1	0.00016	0.0010	2F21007	EPA 8260B	06/21/12 16:20	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.00026	U	mg/kg dry	1	0.00026	0.0010	2F21007	EPA 8260B	06/21/12 16:20	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.00020	U	mg/kg dry	1	0.00020	0.0010	2F21007	EPA 8260B	06/21/12 16:20	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.00026	U	mg/kg dry	1	0.00026	0.0010	2F21007	EPA 8260B	06/21/12 16:20	JKG	
1,1-Dichloroethane [75-34-3] ^	0.00026	U	mg/kg dry	1	0.00026	0.0010	2F21007	EPA 8260B	06/21/12 16:20	JKG	
1,1-Dichloroethene [75-35-4] ^	0.00031	U	mg/kg dry	1	0.00031	0.0010	2F21007	EPA 8260B	06/21/12 16:20	JKG	
1,1-Dichloropropene [563-58-6] ^	0.00016	U	mg/kg dry	1	0.00016	0.0010	2F21007	EPA 8260B	06/21/12 16:20	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.00029	U	mg/kg dry	1	0.00029	0.0010	2F21007	EPA 8260B	06/21/12 16:20	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.00065	U	mg/kg dry	1	0.00065	0.0010	2F21007	EPA 8260B	06/21/12 16:20	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.00028	U	mg/kg dry	1	0.00028	0.0010	2F21007	EPA 8260B	06/21/12 16:20	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.00017	U	mg/kg dry	1	0.00017	0.0010	2F21007	EPA 8260B	06/21/12 16:20	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.00081	U	mg/kg dry	1	0.00081	0.0010	2F21007	EPA 8260B	06/21/12 16:20	JKG	
1,2-Dibromoethane [106-93-4] ^	0.00047	U	mg/kg dry	1	0.00047	0.0010	2F21007	EPA 8260B	06/21/12 16:20	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.00028	U	mg/kg dry	1	0.00028	0.0010	2F21007	EPA 8260B	06/21/12 16:20	JKG	
1,2-Dichloroethane [107-06-2] ^	0.00042	U	mg/kg dry	1	0.00042	0.0010	2F21007	EPA 8260B	06/21/12 16:20	JKG	
1,2-Dichloropropane [78-87-5] ^	0.00027	U	mg/kg dry	1	0.00027	0.0010	2F21007	EPA 8260B	06/21/12 16:20	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.00020	U	mg/kg dry	1	0.00020	0.0010	2F21007	EPA 8260B	06/21/12 16:20	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.00023	U	mg/kg dry	1	0.00023	0.0010	2F21007	EPA 8260B	06/21/12 16:20	JKG	
1,3-Dichloropropane [142-28-9] ^	0.00030	U	mg/kg dry	1	0.00030	0.0010	2F21007	EPA 8260B	06/21/12 16:20	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.00020	U	mg/kg dry	1	0.00020	0.0010	2F21007	EPA 8260B	06/21/12 16:20	JKG	
2,2-Dichloropropane [594-20-7] ^	0.00024	U	mg/kg dry	1	0.00024	0.0010	2F21007	EPA 8260B	06/21/12 16:20	JKG	
2-Butanone [78-93-3] ^	0.00080	U	mg/kg dry	1	0.00080	0.0051	2F21007	EPA 8260B	06/21/12 16:20	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	0.00016	U	mg/kg dry	1	0.00016	0.0051	2F21007	EPA 8260B	06/21/12 16:20	JKG	
2-Chlorotoluene [95-49-8] ^	0.00018	U	mg/kg dry	1	0.00018	0.0010	2F21007	EPA 8260B	06/21/12 16:20	JKG	
2-Hexanone [591-78-6] ^	0.00077	U	mg/kg dry	1	0.00077	0.0051	2F21007	EPA 8260B	06/21/12 16:20	JKG	
4-Chlorotoluene [106-43-4] ^	0.00027	U	mg/kg dry	1	0.00027	0.0010	2F21007	EPA 8260B	06/21/12 16:20	JKG	
4-Isopropyltoluene [99-87-6] ^	0.00016	U	mg/kg dry	1	0.00016	0.0010	2F21007	EPA 8260B	06/21/12 16:20	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.00058	U	mg/kg dry	1	0.00058	0.0051	2F21007	EPA 8260B	06/21/12 16:20	JKG	
Acetone [67-64-1] ^	**0.026**		mg/kg dry	1	0.0014	0.0051	2F21007	EPA 8260B	06/21/12 16:20	JKG	
Benzene [71-43-2] ^	0.00017	U	mg/kg dry	1	0.00017	0.0010	2F21007	EPA 8260B	06/21/12 16:20	JKG	
Bromobenzene [108-86-1] ^	0.00023	U	mg/kg dry	1	0.00023	0.0010	2F21007	EPA 8260B	06/21/12 16:20	JKG	
Bromochloromethane [74-97-5] ^	0.00042	U	mg/kg dry	1	0.00042	0.0010	2F21007	EPA 8260B	06/21/12 16:20	JKG	
Bromodichloromethane [75-27-4] ^	0.00025	U	mg/kg dry	1	0.00025	0.0010	2F21007	EPA 8260B	06/21/12 16:20	JKG	
Bromoform [75-25-2] ^	0.00046	U	mg/kg dry	1	0.00046	0.0010	2F21007	EPA 8260B	06/21/12 16:20	JKG	
Bromomethane [74-83-9] ^	0.00033	U	mg/kg dry	1	0.00033	0.0010	2F21007	EPA 8260B	06/21/12 16:20	JKG	
Carbon disulfide [75-15-0] ^	0.00040	U	mg/kg dry	1	0.00040	0.0051	2F21007	EPA 8260B	06/21/12 16:20	JKG	
Carbon Tetrachloride [56-23-5] ^	0.00023	U	mg/kg dry	1	0.00023	0.0010	2F21007	EPA 8260B	06/21/12 16:20	JKG	
Chlorobenzene [108-90-7] ^	0.00017	U	mg/kg dry	1	0.00017	0.0010	2F21007	EPA 8260B	06/21/12 16:20	JKG	
Chloroethane [75-00-3] ^	0.00026	U	mg/kg dry	1	0.00026	0.0010	2F21007	EPA 8260B	06/21/12 16:20	JKG	
Chloroform [67-66-3] ^	0.00018	U	mg/kg dry	1	0.00018	0.0010	2F21007	EPA 8260B	06/21/12 16:20	JKG	
Chloromethane [74-87-3] ^	0.00021	U	mg/kg dry	1	0.00021	0.0010	2F21007	EPA 8260B	06/21/12 16:20	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.00024	U	mg/kg dry	1	0.00024	0.0010	2F21007	EPA 8260B	06/21/12 16:20	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.00017	U	mg/kg dry	1	0.00017	0.0010	2F21007	EPA 8260B	06/21/12 16:20	JKG	
Dibromochloromethane [124-48-1] ^	0.00036	U	mg/kg dry	1	0.00036	0.0010	2F21007	EPA 8260B	06/21/12 16:20	JKG	
Dibromomethane [74-95-3] ^	0.00034	U	mg/kg dry	1	0.00034	0.0010	2F21007	EPA 8260B	06/21/12 16:20	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.00046	U	mg/kg dry	1	0.00046	0.0010	2F21007	EPA 8260B	06/21/12 16:20	JKG	
Ethylbenzene [100-41-4] ^	0.00020	U	mg/kg dry	1	0.00020	0.0010	2F21007	EPA 8260B	06/21/12 16:20	JKG	
Hexachlorobutadiene [87-68-3] ^	0.00036	U	mg/kg dry	1	0.00036	0.0010	2F21007	EPA 8260B	06/21/12 16:20	JKG	
Isopropylbenzene [98-82-8] ^	0.00015	U	mg/kg dry	1	0.00015	0.0010	2F21007	EPA 8260B	06/21/12 16:20	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.00038	U	mg/kg dry	1	0.00038	0.0020	2F21007	EPA 8260B	06/21/12 16:20	JKG	
Methylene Chloride [75-09-2] ^	0.00075	U	mg/kg dry	1	0.00075	0.0020	2F21007	EPA 8260B	06/21/12 16:20	JKG	

www.encolabs.com

Description: SS-12 1-2'
Matrix: Soil
Project: Wilmington Materials

Lab Sample ID: C207387-03
Sampled: 06/20/12 14:40
Sampled By: Jayson A. Kilcoyne

Received: 06/21/12 12:52
Work Order: C207387
% Solids: 97.7

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Methyl-tert-Butyl Ether [1634-04-4] ^	0.00031	U	mg/kg dry	1	0.00031	0.0010	2F21007	EPA 8260B	06/21/12 16:20	JKG	
Naphthalene [91-20-3] ^	0.00028	U	mg/kg dry	1	0.00028	0.0010	2F21007	EPA 8260B	06/21/12 16:20	JKG	
n-Butyl Benzene [104-51-8] ^	0.00013	U	mg/kg dry	1	0.00013	0.0010	2F21007	EPA 8260B	06/21/12 16:20	JKG	
n-Propyl Benzene [103-65-1] ^	0.00018	U	mg/kg dry	1	0.00018	0.0010	2F21007	EPA 8260B	06/21/12 16:20	JKG	
o-Xylene [95-47-6] ^	0.00023	U	mg/kg dry	1	0.00023	0.0010	2F21007	EPA 8260B	06/21/12 16:20	JKG	
sec-Butylbenzene [135-98-8] ^	0.00097	U	mg/kg dry	1	0.00097	0.0010	2F21007	EPA 8260B	06/21/12 16:20	JKG	
Styrene [100-42-5] ^	0.0010	U	mg/kg dry	1	0.0010	0.0010	2F21007	EPA 8260B	06/21/12 16:20	JKG	
tert-Butylbenzene [98-06-6] ^	0.00017	U	mg/kg dry	1	0.00017	0.0010	2F21007	EPA 8260B	06/21/12 16:20	JKG	
Tetrachloroethene [127-18-4] ^	0.00029	U	mg/kg dry	1	0.00029	0.0010	2F21007	EPA 8260B	06/21/12 16:20	JKG	
Toluene [108-88-3] ^	0.00025	U	mg/kg dry	1	0.00025	0.0010	2F21007	EPA 8260B	06/21/12 16:20	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.00038	U	mg/kg dry	1	0.00038	0.0010	2F21007	EPA 8260B	06/21/12 16:20	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.00040	U	mg/kg dry	1	0.00040	0.0010	2F21007	EPA 8260B	06/21/12 16:20	JKG	
Trichloroethene [79-01-6] ^	0.00033	U	mg/kg dry	1	0.00033	0.0010	2F21007	EPA 8260B	06/21/12 16:20	JKG	
Trichlorofluoromethane [75-69-4] ^	0.00027	U	mg/kg dry	1	0.00027	0.0010	2F21007	EPA 8260B	06/21/12 16:20	JKG	
Vinyl chloride [75-01-4] ^	0.00025	U	mg/kg dry	1	0.00025	0.0010	2F21007	EPA 8260B	06/21/12 16:20	JKG	
Xylenes (Total) [1330-20-7] ^	0.00057	U	mg/kg dry	1	0.00057	0.0031	2F21007	EPA 8260B	06/21/12 16:20	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*90 %*	*61-118*	*2F21007*	*EPA 8260B*	*06/21/12 16:20*	*JKG*	
Dibromofluoromethane	*46*	*1*	*50.0*	*92 %*	*66-114*	*2F21007*	*EPA 8260B*	*06/21/12 16:20*	*JKG*	
Toluene-d8	*45*	*1*	*50.0*	*91 %*	*63-118*	*2F21007*	*EPA 8260B*	*06/21/12 16:20*	*JKG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: SS-13 1-2'
Matrix: Soil
Project: Wilmington Materials

Lab Sample ID: C207387-04
Sampled: 06/20/12 14:50
Sampled By: Jayson A. Kilcoyne

Received: 06/21/12 12:52
Work Order: C207387
% Solids: 95.4

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.00017	U	mg/kg dry	1	0.00017	0.0010	2F21007	EPA 8260B	06/21/12 16:50	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.00026	U	mg/kg dry	1	0.00026	0.0010	2F21007	EPA 8260B	06/21/12 16:50	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.00021	U	mg/kg dry	1	0.00021	0.0010	2F21007	EPA 8260B	06/21/12 16:50	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.00026	U	mg/kg dry	1	0.00026	0.0010	2F21007	EPA 8260B	06/21/12 16:50	JKG	
1,1-Dichloroethane [75-34-3] ^	0.00026	U	mg/kg dry	1	0.00026	0.0010	2F21007	EPA 8260B	06/21/12 16:50	JKG	
1,1-Dichloroethene [75-35-4] ^	0.00031	U	mg/kg dry	1	0.00031	0.0010	2F21007	EPA 8260B	06/21/12 16:50	JKG	
1,1-Dichloropropene [563-58-6] ^	0.00017	U	mg/kg dry	1	0.00017	0.0010	2F21007	EPA 8260B	06/21/12 16:50	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.00029	U	mg/kg dry	1	0.00029	0.0010	2F21007	EPA 8260B	06/21/12 16:50	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.00067	U	mg/kg dry	1	0.00067	0.0010	2F21007	EPA 8260B	06/21/12 16:50	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.00028	U	mg/kg dry	1	0.00028	0.0010	2F21007	EPA 8260B	06/21/12 16:50	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.00018	U	mg/kg dry	1	0.00018	0.0010	2F21007	EPA 8260B	06/21/12 16:50	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.00083	U	mg/kg dry	1	0.00083	0.0010	2F21007	EPA 8260B	06/21/12 16:50	JKG	
1,2-Dibromoethane [106-93-4] ^	0.00048	U	mg/kg dry	1	0.00048	0.0010	2F21007	EPA 8260B	06/21/12 16:50	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.00028	U	mg/kg dry	1	0.00028	0.0010	2F21007	EPA 8260B	06/21/12 16:50	JKG	
1,2-Dichloroethane [107-06-2] ^	0.00043	U	mg/kg dry	1	0.00043	0.0010	2F21007	EPA 8260B	06/21/12 16:50	JKG	
1,2-Dichloropropane [78-87-5] ^	0.00027	U	mg/kg dry	1	0.00027	0.0010	2F21007	EPA 8260B	06/21/12 16:50	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.00021	U	mg/kg dry	1	0.00021	0.0010	2F21007	EPA 8260B	06/21/12 16:50	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.00023	U	mg/kg dry	1	0.00023	0.0010	2F21007	EPA 8260B	06/21/12 16:50	JKG	
1,3-Dichloropropane [142-28-9] ^	0.00030	U	mg/kg dry	1	0.00030	0.0010	2F21007	EPA 8260B	06/21/12 16:50	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.00021	U	mg/kg dry	1	0.00021	0.0010	2F21007	EPA 8260B	06/21/12 16:50	JKG	
2,2-Dichloropropane [594-20-7] ^	0.00024	U	mg/kg dry	1	0.00024	0.0010	2F21007	EPA 8260B	06/21/12 16:50	JKG	
2-Butanone [78-93-3] ^	0.00082	U	mg/kg dry	1	0.00082	0.0052	2F21007	EPA 8260B	06/21/12 16:50	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	0.00017	U	mg/kg dry	1	0.00017	0.0052	2F21007	EPA 8260B	06/21/12 16:50	JKG	
2-Chlorotoluene [95-49-8] ^	0.00019	U	mg/kg dry	1	0.00019	0.0010	2F21007	EPA 8260B	06/21/12 16:50	JKG	
2-Hexanone [591-78-6] ^	0.00079	U	mg/kg dry	1	0.00079	0.0052	2F21007	EPA 8260B	06/21/12 16:50	JKG	
4-Chlorotoluene [106-43-4] ^	0.00027	U	mg/kg dry	1	0.00027	0.0010	2F21007	EPA 8260B	06/21/12 16:50	JKG	
4-Isopropyltoluene [99-87-6] ^	0.00017	U	mg/kg dry	1	0.00017	0.0010	2F21007	EPA 8260B	06/21/12 16:50	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.00060	U	mg/kg dry	1	0.00060	0.0052	2F21007	EPA 8260B	06/21/12 16:50	JKG	
Acetone [67-64-1] ^	**0.012**		mg/kg dry	1	0.0015	0.0052	2F21007	EPA 8260B	06/21/12 16:50	JKG	
Benzene [71-43-2] ^	0.00018	U	mg/kg dry	1	0.00018	0.0010	2F21007	EPA 8260B	06/21/12 16:50	JKG	
Bromobenzene [108-86-1] ^	0.00023	U	mg/kg dry	1	0.00023	0.0010	2F21007	EPA 8260B	06/21/12 16:50	JKG	
Bromochloromethane [74-97-5] ^	0.00043	U	mg/kg dry	1	0.00043	0.0010	2F21007	EPA 8260B	06/21/12 16:50	JKG	
Bromodichloromethane [75-27-4] ^	0.00025	U	mg/kg dry	1	0.00025	0.0010	2F21007	EPA 8260B	06/21/12 16:50	JKG	
Bromoform [75-25-2] ^	0.00047	U	mg/kg dry	1	0.00047	0.0010	2F21007	EPA 8260B	06/21/12 16:50	JKG	
Bromomethane [74-83-9] ^	0.00034	U	mg/kg dry	1	0.00034	0.0010	2F21007	EPA 8260B	06/21/12 16:50	JKG	
Carbon disulfide [75-15-0] ^	0.00041	U	mg/kg dry	1	0.00041	0.0052	2F21007	EPA 8260B	06/21/12 16:50	JKG	
Carbon Tetrachloride [56-23-5] ^	0.00023	U	mg/kg dry	1	0.00023	0.0010	2F21007	EPA 8260B	06/21/12 16:50	JKG	
Chlorobenzene [108-90-7] ^	0.00018	U	mg/kg dry	1	0.00018	0.0010	2F21007	EPA 8260B	06/21/12 16:50	JKG	
Chloroethane [75-00-3] ^	0.00026	U	mg/kg dry	1	0.00026	0.0010	2F21007	EPA 8260B	06/21/12 16:50	JKG	
Chloroform [67-66-3] ^	0.00019	U	mg/kg dry	1	0.00019	0.0010	2F21007	EPA 8260B	06/21/12 16:50	JKG	
Chloromethane [74-87-3] ^	0.00022	U	mg/kg dry	1	0.00022	0.0010	2F21007	EPA 8260B	06/21/12 16:50	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.00024	U	mg/kg dry	1	0.00024	0.0010	2F21007	EPA 8260B	06/21/12 16:50	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.00018	U	mg/kg dry	1	0.00018	0.0010	2F21007	EPA 8260B	06/21/12 16:50	JKG	
Dibromochloromethane [124-48-1] ^	0.00037	U	mg/kg dry	1	0.00037	0.0010	2F21007	EPA 8260B	06/21/12 16:50	JKG	
Dibromomethane [74-95-3] ^	0.00035	U	mg/kg dry	1	0.00035	0.0010	2F21007	EPA 8260B	06/21/12 16:50	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.00047	U	mg/kg dry	1	0.00047	0.0010	2F21007	EPA 8260B	06/21/12 16:50	JKG	
Ethylbenzene [100-41-4] ^	0.00021	U	mg/kg dry	1	0.00021	0.0010	2F21007	EPA 8260B	06/21/12 16:50	JKG	
Hexachlorobutadiene [87-68-3] ^	0.00037	U	mg/kg dry	1	0.00037	0.0010	2F21007	EPA 8260B	06/21/12 16:50	JKG	
Isopropylbenzene [98-82-8] ^	0.00016	U	mg/kg dry	1	0.00016	0.0010	2F21007	EPA 8260B	06/21/12 16:50	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.00039	U	mg/kg dry	1	0.00039	0.0021	2F21007	EPA 8260B	06/21/12 16:50	JKG	
Methylene Chloride [75-09-2] ^	0.00077	U	mg/kg dry	1	0.00077	0.0021	2F21007	EPA 8260B	06/21/12 16:50	JKG	

www.encolabs.com

Description: SS-13 1-2'
Matrix: Soil
Project: Wilmington Materials

Lab Sample ID: C207387-04
Sampled: 06/20/12 14:50
Sampled By: Jayson A. Kilcoyne

Received: 06/21/12 12:52
Work Order: C207387
% Solids: 95.4

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Methyl-tert-Butyl Ether [1634-04-4] ^	0.00031	U	mg/kg dry	1	0.00031	0.0010	2F21007	EPA 8260B	06/21/12 16:50	JKG	
Naphthalene [91-20-3] ^	0.00028	U	mg/kg dry	1	0.00028	0.0010	2F21007	EPA 8260B	06/21/12 16:50	JKG	
n-Butyl Benzene [104-51-8] ^	0.00014	U	mg/kg dry	1	0.00014	0.0010	2F21007	EPA 8260B	06/21/12 16:50	JKG	
n-Propyl Benzene [103-65-1] ^	0.00019	U	mg/kg dry	1	0.00019	0.0010	2F21007	EPA 8260B	06/21/12 16:50	JKG	
o-Xylene [95-47-6] ^	0.00023	U	mg/kg dry	1	0.00023	0.0010	2F21007	EPA 8260B	06/21/12 16:50	JKG	
sec-Butylbenzene [135-98-8] ^	0.0010	U	mg/kg dry	1	0.0010	0.0010	2F21007	EPA 8260B	06/21/12 16:50	JKG	
Styrene [100-42-5] ^	0.0010	U	mg/kg dry	1	0.0010	0.0010	2F21007	EPA 8260B	06/21/12 16:50	JKG	
tert-Butylbenzene [98-06-6] ^	0.00018	U	mg/kg dry	1	0.00018	0.0010	2F21007	EPA 8260B	06/21/12 16:50	JKG	
Tetrachloroethene [127-18-4] ^	**0.0032**		mg/kg dry	1	0.00029	0.0010	2F21007	EPA 8260B	06/21/12 16:50	JKG	
Toluene [108-88-3] ^	0.00025	U	mg/kg dry	1	0.00025	0.0010	2F21007	EPA 8260B	06/21/12 16:50	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.00039	U	mg/kg dry	1	0.00039	0.0010	2F21007	EPA 8260B	06/21/12 16:50	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.00041	U	mg/kg dry	1	0.00041	0.0010	2F21007	EPA 8260B	06/21/12 16:50	JKG	
Trichloroethene [79-01-6] ^	0.00034	U	mg/kg dry	1	0.00034	0.0010	2F21007	EPA 8260B	06/21/12 16:50	JKG	
Trichlorofluoromethane [75-69-4] ^	0.00027	U	mg/kg dry	1	0.00027	0.0010	2F21007	EPA 8260B	06/21/12 16:50	JKG	
Vinyl chloride [75-01-4] ^	0.00025	U	mg/kg dry	1	0.00025	0.0010	2F21007	EPA 8260B	06/21/12 16:50	JKG	
Xylenes (Total) [1330-20-7] ^	0.00059	U	mg/kg dry	1	0.00059	0.0031	2F21007	EPA 8260B	06/21/12 16:50	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*43*	*1*	*50.0*	*86 %*	*61-11B*	*2F21007*	*EPA 8260B*	*06/21/12 16:50*	*JKG*	
Dibromofluoromethane	*43*	*1*	*50.0*	*87 %*	*66-114*	*2F21007*	*EPA 8260B*	*06/21/12 16:50*	*JKG*	
Toluene-d8	*44*	*1*	*50.0*	*89 %*	*63-118*	*2F21007*	*EPA 8260B*	*06/21/12 16:50*	*JKG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: SS-14 1-2'
Matrix: Soil
Project: Wilmington Materials

Lab Sample ID: C207387-05
Sampled: 06/20/12 15:00
Sampled By: Jayson A. Kilcoyne

Received: 06/21/12 12:52
Work Order: C207387
% Solids: 92.7

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.00017	U	mg/kg dry	1	0.00017	0.0011	2F21007	EPA 8260B	06/21/12 17:19	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.00027	U	mg/kg dry	1	0.00027	0.0011	2F21007	EPA 8260B	06/21/12 17:19	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.00022	U	mg/kg dry	1	0.00022	0.0011	2F21007	EPA 8260B	06/21/12 17:19	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.00027	U	mg/kg dry	1	0.00027	0.0011	2F21007	EPA 8260B	06/21/12 17:19	JKG	
1,1-Dichloroethane [75-34-3] ^	0.00027	U	mg/kg dry	1	0.00027	0.0011	2F21007	EPA 8260B	06/21/12 17:19	JKG	
1,1-Dichloroethene [75-35-4] ^	0.00032	U	mg/kg dry	1	0.00032	0.0011	2F21007	EPA 8260B	06/21/12 17:19	JKG	
1,1-Dichloropropene [563-58-6] ^	0.00017	U	mg/kg dry	1	0.00017	0.0011	2F21007	EPA 8260B	06/21/12 17:19	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.00030	U	mg/kg dry	1	0.00030	0.0011	2F21007	EPA 8260B	06/21/12 17:19	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.00069	U	mg/kg dry	1	0.00069	0.0011	2F21007	EPA 8260B	06/21/12 17:19	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.00029	U	mg/kg dry	1	0.00029	0.0011	2F21007	EPA 8260B	06/21/12 17:19	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.00018	U	mg/kg dry	1	0.00018	0.0011	2F21007	EPA 8260B	06/21/12 17:19	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.00085	U	mg/kg dry	1	0.00085	0.0011	2F21007	EPA 8260B	06/21/12 17:19	JKG	
1,2-Dibromoethane [106-93-4] ^	0.00050	U	mg/kg dry	1	0.00050	0.0011	2F21007	EPA 8260B	06/21/12 17:19	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.00029	U	mg/kg dry	1	0.00029	0.0011	2F21007	EPA 8260B	06/21/12 17:19	JKG	
1,2-Dichloroethane [107-06-2] ^	0.00044	U	mg/kg dry	1	0.00044	0.0011	2F21007	EPA 8260B	06/21/12 17:19	JKG	
1,2-Dichloropropane [78-87-5] ^	0.00028	U	mg/kg dry	1	0.00028	0.0011	2F21007	EPA 8260B	06/21/12 17:19	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.00022	U	mg/kg dry	1	0.00022	0.0011	2F21007	EPA 8260B	06/21/12 17:19	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.00024	U	mg/kg dry	1	0.00024	0.0011	2F21007	EPA 8260B	06/21/12 17:19	JKG	
1,3-Dichloropropane [142-28-9] ^	0.00031	U	mg/kg dry	1	0.00031	0.0011	2F21007	EPA 8260B	06/21/12 17:19	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.00022	U	mg/kg dry	1	0.00022	0.0011	2F21007	EPA 8260B	06/21/12 17:19	JKG	
2,2-Dichloropropane [594-20-7] ^	0.00025	U	mg/kg dry	1	0.00025	0.0011	2F21007	EPA 8260B	06/21/12 17:19	JKG	
2-Butanone [78-93-3] ^	0.00084	U	mg/kg dry	1	0.00084	0.0054	2F21007	EPA 8260B	06/21/12 17:19	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	0.00017	U	mg/kg dry	1	0.00017	0.0054	2F21007	EPA 8260B	06/21/12 17:19	JKG	
2-Chlorotoluene [95-49-8] ^	0.00019	U	mg/kg dry	1	0.00019	0.0011	2F21007	EPA 8260B	06/21/12 17:19	JKG	
2-Hexanone [591-78-6] ^	0.00081	U	mg/kg dry	1	0.00081	0.0054	2F21007	EPA 8260B	06/21/12 17:19	JKG	
4-Chlorotoluene [106-43-4] ^	0.00028	U	mg/kg dry	1	0.00028	0.0011	2F21007	EPA 8260B	06/21/12 17:19	JKG	
4-Isopropyltoluene [99-87-6] ^	0.00017	U	mg/kg dry	1	0.00017	0.0011	2F21007	EPA 8260B	06/21/12 17:19	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.00061	U	mg/kg dry	1	0.00061	0.0054	2F21007	EPA 8260B	06/21/12 17:19	JKG	
Acetone [67-64-1] ^	**0.013**		mg/kg dry	1	0.0015	0.0054	2F21007	EPA 8260B	06/21/12 17:19	JKG	
Benzene [71-43-2] ^	0.00018	U	mg/kg dry	1	0.00018	0.0011	2F21007	EPA 8260B	06/21/12 17:19	JKG	
Bromobenzene [108-86-1] ^	0.00024	U	mg/kg dry	1	0.00024	0.0011	2F21007	EPA 8260B	06/21/12 17:19	JKG	
Bromochloromethane [74-97-5] ^	0.00044	U	mg/kg dry	1	0.00044	0.0011	2F21007	EPA 8260B	06/21/12 17:19	JKG	
Bromodichloromethane [75-27-4] ^	0.00026	U	mg/kg dry	1	0.00026	0.0011	2F21007	EPA 8260B	06/21/12 17:19	JKG	
Bromoform [75-25-2] ^	0.00049	U	mg/kg dry	1	0.00049	0.0011	2F21007	EPA 8260B	06/21/12 17:19	JKG	
Bromomethane [74-83-9] ^	0.00035	U	mg/kg dry	1	0.00035	0.0011	2F21007	EPA 8260B	06/21/12 17:19	JKG	
Carbon disulfide [75-15-0] ^	0.00042	U	mg/kg dry	1	0.00042	0.0054	2F21007	EPA 8260B	06/21/12 17:19	JKG	
Carbon Tetrachloride [56-23-5] ^	0.00024	U	mg/kg dry	1	0.00024	0.0011	2F21007	EPA 8260B	06/21/12 17:19	JKG	
Chlorobenzene [108-90-7] ^	0.00018	U	mg/kg dry	1	0.00018	0.0011	2F21007	EPA 8260B	06/21/12 17:19	JKG	
Chloroethane [75-00-3] ^	0.00027	U	mg/kg dry	1	0.00027	0.0011	2F21007	EPA 8260B	06/21/12 17:19	JKG	
Chloroform [67-66-3] ^	0.00019	U	mg/kg dry	1	0.00019	0.0011	2F21007	EPA 8260B	06/21/12 17:19	JKG	
Chloromethane [74-87-3] ^	0.00023	U	mg/kg dry	1	0.00023	0.0011	2F21007	EPA 8260B	06/21/12 17:19	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.00025	U	mg/kg dry	1	0.00025	0.0011	2F21007	EPA 8260B	06/21/12 17:19	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.00018	U	mg/kg dry	1	0.00018	0.0011	2F21007	EPA 8260B	06/21/12 17:19	JKG	
Dibromochloromethane [124-48-1] ^	0.00038	U	mg/kg dry	1	0.00038	0.0011	2F21007	EPA 8260B	06/21/12 17:19	JKG	
Dibromomethane [74-95-3] ^	0.00036	U	mg/kg dry	1	0.00036	0.0011	2F21007	EPA 8260B	06/21/12 17:19	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.00049	U	mg/kg dry	1	0.00049	0.0011	2F21007	EPA 8260B	06/21/12 17:19	JKG	
Ethylbenzene [100-41-4] ^	0.00022	U	mg/kg dry	1	0.00022	0.0011	2F21007	EPA 8260B	06/21/12 17:19	JKG	
Hexachlorobutadiene [87-68-3] ^	0.00038	U	mg/kg dry	1	0.00038	0.0011	2F21007	EPA 8260B	06/21/12 17:19	JKG	
Isopropylbenzene [98-82-8] ^	0.00016	U	mg/kg dry	1	0.00016	0.0011	2F21007	EPA 8260B	06/21/12 17:19	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.00040	U	mg/kg dry	1	0.00040	0.0022	2F21007	EPA 8260B	06/21/12 17:19	JKG	
Methylene Chloride [75-09-2] ^	0.00079	U	mg/kg dry	1	0.00079	0.0022	2F21007	EPA 8260B	06/21/12 17:19	JKG	

www.encolabs.com

Description: SS-14 1-2'
Matrix: Soil
Project: Wilmington Materials

Lab Sample ID: C207387-05
Sampled: 06/20/12 15:00
Sampled By: Jayson A. Kilcoyne

Received: 06/21/12 12:52
Work Order: C207387
% Solids: 92.7

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Methyl-tert-Butyl Ether [1634-04-4] ^	0.00032	U	mg/kg dry	1	0.00032	0.0011	2F21007	EPA 8260B	06/21/12 17:19	JKG	
Naphthalene [91-20-3] ^	0.00029	U	mg/kg dry	1	0.00029	0.0011	2F21007	EPA 8260B	06/21/12 17:19	JKG	
n-Butyl Benzene [104-51-8] ^	0.00014	U	mg/kg dry	1	0.00014	0.0011	2F21007	EPA 8260B	06/21/12 17:19	JKG	
n-Propyl Benzene [103-65-1] ^	0.00019	U	mg/kg dry	1	0.00019	0.0011	2F21007	EPA 8260B	06/21/12 17:19	JKG	
o-Xylene [95-47-6] ^	0.00024	U	mg/kg dry	1	0.00024	0.0011	2F21007	EPA 8260B	06/21/12 17:19	JKG	
sec-Butylbenzene [135-98-8] ^	0.0010	U	mg/kg dry	1	0.0010	0.0011	2F21007	EPA 8260B	06/21/12 17:19	JKG	
Styrene [100-42-5] ^	0.0011	U	mg/kg dry	1	0.0011	0.0011	2F21007	EPA 8260B	06/21/12 17:19	JKG	
tert-Butylbenzene [98-06-6] ^	0.00018	U	mg/kg dry	1	0.00018	0.0011	2F21007	EPA 8260B	06/21/12 17:19	JKG	
Tetrachloroethene [127-18-4] ^	**0.0012**		mg/kg dry	1	0.00030	0.0011	2F21007	EPA 8260B	06/21/12 17:19	JKG	
Toluene [108-88-3] ^	0.00026	U	mg/kg dry	1	0.00026	0.0011	2F21007	EPA 8260B	06/21/12 17:19	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.00040	U	mg/kg dry	1	0.00040	0.0011	2F21007	EPA 8260B	06/21/12 17:19	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.00042	U	mg/kg dry	1	0.00042	0.0011	2F21007	EPA 8260B	06/21/12 17:19	JKG	
Trichloroethene [79-01-6] ^	0.00035	U	mg/kg dry	1	0.00035	0.0011	2F21007	EPA 8260B	06/21/12 17:19	JKG	
Trichlorofluoromethane [75-69-4] ^	0.00028	U	mg/kg dry	1	0.00028	0.0011	2F21007	EPA 8260B	06/21/12 17:19	JKG	
Vinyl chloride [75-01-4] ^	0.00026	U	mg/kg dry	1	0.00026	0.0011	2F21007	EPA 8260B	06/21/12 17:19	JKG	
Xylenes (Total) [1330-20-7] ^	0.00060	U	mg/kg dry	1	0.00060	0.0032	2F21007	EPA 8260B	06/21/12 17:19	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*44*	*1*	*50.0*	*88 %*	*61-118*	*2F21007*	*EPA 8260B*	*06/21/12 17:19*	*JKG*	
Dibromofluoromethane	*45*	*1*	*50.0*	*89 %*	*66-114*	*2F21007*	*EPA 8260B*	*06/21/12 17:19*	*JKG*	
Toluene-d8	*44*	*1*	*50.0*	*87 %*	*63-118*	*2F21007*	*EPA 8260B*	*06/21/12 17:19*	*JKG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: SS-15 1-2'
Matrix: Soil
Project: Wilmington Materials

Lab Sample ID: C207387-06
Sampled: 06/20/12 15:10
Sampled By: Jayson A. Kilcoyne

Received: 06/21/12 12:52
Work Order: C207387
% Solids: 96.3

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.00017	U	mg/kg dry	1	0.00017	0.0010	2F21007	EPA 8260B	06/21/12 17:49	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.00026	U	mg/kg dry	1	0.00026	0.0010	2F21007	EPA 8260B	06/21/12 17:49	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.00021	U	mg/kg dry	1	0.00021	0.0010	2F21007	EPA 8260B	06/21/12 17:49	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.00026	U	mg/kg dry	1	0.00026	0.0010	2F21007	EPA 8260B	06/21/12 17:49	JKG	
1,1-Dichloroethane [75-34-3] ^	0.00026	U	mg/kg dry	1	0.00026	0.0010	2F21007	EPA 8260B	06/21/12 17:49	JKG	
1,1-Dichloroethene [75-35-4] ^	0.00031	U	mg/kg dry	1	0.00031	0.0010	2F21007	EPA 8260B	06/21/12 17:49	JKG	
1,1-Dichloropropene [563-58-6] ^	0.00017	U	mg/kg dry	1	0.00017	0.0010	2F21007	EPA 8260B	06/21/12 17:49	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.00029	U	mg/kg dry	1	0.00029	0.0010	2F21007	EPA 8260B	06/21/12 17:49	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.00066	U	mg/kg dry	1	0.00066	0.0010	2F21007	EPA 8260B	06/21/12 17:49	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.00028	U	mg/kg dry	1	0.00028	0.0010	2F21007	EPA 8260B	06/21/12 17:49	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.00018	U	mg/kg dry	1	0.00018	0.0010	2F21007	EPA 8260B	06/21/12 17:49	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.00082	U	mg/kg dry	1	0.00082	0.0010	2F21007	EPA 8260B	06/21/12 17:49	JKG	
1,2-Dibromoethane [106-93-4] ^	0.00048	U	mg/kg dry	1	0.00048	0.0010	2F21007	EPA 8260B	06/21/12 17:49	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.00028	U	mg/kg dry	1	0.00028	0.0010	2F21007	EPA 8260B	06/21/12 17:49	JKG	
1,2-Dichloroethane [107-06-2] ^	0.00043	U	mg/kg dry	1	0.00043	0.0010	2F21007	EPA 8260B	06/21/12 17:49	JKG	
1,2-Dichloropropane [78-87-5] ^	0.00027	U	mg/kg dry	1	0.00027	0.0010	2F21007	EPA 8260B	06/21/12 17:49	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.00021	U	mg/kg dry	1	0.00021	0.0010	2F21007	EPA 8260B	06/21/12 17:49	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.00023	U	mg/kg dry	1	0.00023	0.0010	2F21007	EPA 8260B	06/21/12 17:49	JKG	
1,3-Dichloropropane [142-28-9] ^	0.00030	U	mg/kg dry	1	0.00030	0.0010	2F21007	EPA 8260B	06/21/12 17:49	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.00021	U	mg/kg dry	1	0.00021	0.0010	2F21007	EPA 8260B	06/21/12 17:49	JKG	
2,2-Dichloropropane [594-20-7] ^	0.00024	U	mg/kg dry	1	0.00024	0.0010	2F21007	EPA 8260B	06/21/12 17:49	JKG	
2-Butanone [78-93-3] ^	0.00081	U	mg/kg dry	1	0.00081	0.0052	2F21007	EPA 8260B	06/21/12 17:49	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	0.00017	U	mg/kg dry	1	0.00017	0.0052	2F21007	EPA 8260B	06/21/12 17:49	JKG	
2-Chlorotoluene [95-49-8] ^	0.00019	U	mg/kg dry	1	0.00019	0.0010	2F21007	EPA 8260B	06/21/12 17:49	JKG	
2-Hexanone [591-78-6] ^	0.00078	U	mg/kg dry	1	0.00078	0.0052	2F21007	EPA 8260B	06/21/12 17:49	JKG	
4-Chlorotoluene [106-43-4] ^	0.00027	U	mg/kg dry	1	0.00027	0.0010	2F21007	EPA 8260B	06/21/12 17:49	JKG	
4-Isopropyltoluene [99-87-6] ^	0.00017	U	mg/kg dry	1	0.00017	0.0010	2F21007	EPA 8260B	06/21/12 17:49	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.00059	U	mg/kg dry	1	0.00059	0.0052	2F21007	EPA 8260B	06/21/12 17:49	JKG	
Acetone [67-64-1] ^	**0.010**		mg/kg dry	1	0.0015	0.0052	2F21007	EPA 8260B	06/21/12 17:49	JKG	
Benzene [71-43-2] ^	0.00018	U	mg/kg dry	1	0.00018	0.0010	2F21007	EPA 8260B	06/21/12 17:49	JKG	
Bromobenzene [108-86-1] ^	0.00023	U	mg/kg dry	1	0.00023	0.0010	2F21007	EPA 8260B	06/21/12 17:49	JKG	
Bromochloromethane [74-97-5] ^	0.00043	U	mg/kg dry	1	0.00043	0.0010	2F21007	EPA 8260B	06/21/12 17:49	JKG	
Bromodichloromethane [75-27-4] ^	0.00025	U	mg/kg dry	1	0.00025	0.0010	2F21007	EPA 8260B	06/21/12 17:49	JKG	
Bromoform [75-25-2] ^	0.00047	U	mg/kg dry	1	0.00047	0.0010	2F21007	EPA 8260B	06/21/12 17:49	JKG	
Bromomethane [74-83-9] ^	0.00033	U	mg/kg dry	1	0.00033	0.0010	2F21007	EPA 8260B	06/21/12 17:49	JKG	
Carbon disulfide [75-15-0] ^	0.00040	U	mg/kg dry	1	0.00040	0.0052	2F21007	EPA 8260B	06/21/12 17:49	JKG	
Carbon Tetrachloride [56-23-5] ^	0.00023	U	mg/kg dry	1	0.00023	0.0010	2F21007	EPA 8260B	06/21/12 17:49	JKG	
Chlorobenzene [108-90-7] ^	0.00018	U	mg/kg dry	1	0.00018	0.0010	2F21007	EPA 8260B	06/21/12 17:49	JKG	
Chloroethane [75-00-3] ^	0.00026	U	mg/kg dry	1	0.00026	0.0010	2F21007	EPA 8260B	06/21/12 17:49	JKG	
Chloroform [67-66-3] ^	0.00019	U	mg/kg dry	1	0.00019	0.0010	2F21007	EPA 8260B	06/21/12 17:49	JKG	
Chloromethane [74-87-3] ^	0.00022	U	mg/kg dry	1	0.00022	0.0010	2F21007	EPA 8260B	06/21/12 17:49	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.00024	U	mg/kg dry	1	0.00024	0.0010	2F21007	EPA 8260B	06/21/12 17:49	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.00018	U	mg/kg dry	1	0.00018	0.0010	2F21007	EPA 8260B	06/21/12 17:49	JKG	
Dibromochloromethane [124-48-1] ^	0.00036	U	mg/kg dry	1	0.00036	0.0010	2F21007	EPA 8260B	06/21/12 17:49	JKG	
Dibromomethane [74-95-3] ^	0.00034	U	mg/kg dry	1	0.00034	0.0010	2F21007	EPA 8260B	06/21/12 17:49	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.00047	U	mg/kg dry	1	0.00047	0.0010	2F21007	EPA 8260B	06/21/12 17:49	JKG	
Ethylbenzene [100-41-4] ^	0.00021	U	mg/kg dry	1	0.00021	0.0010	2F21007	EPA 8260B	06/21/12 17:49	JKG	
Hexachlorobutadiene [87-68-3] ^	0.00036	U	mg/kg dry	1	0.00036	0.0010	2F21007	EPA 8260B	06/21/12 17:49	JKG	
Isopropylbenzene [98-82-8] ^	0.00016	U	mg/kg dry	1	0.00016	0.0010	2F21007	EPA 8260B	06/21/12 17:49	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.00038	U	mg/kg dry	1	0.00038	0.0021	2F21007	EPA 8260B	06/21/12 17:49	JKG	
Methylene Chloride [75-09-2] ^	0.00076	U	mg/kg dry	1	0.00076	0.0021	2F21007	EPA 8260B	06/21/12 17:49	JKG	

www.encolabs.com

Description: SS-15 1-2'
Matrix: Soil
Project: Wilmington Materials

Lab Sample ID: C207387-06
Sampled: 06/20/12 15:10
Sampled By: Jayson A. Kilcoyne

Received: 06/21/12 12:52
Work Order: C207387
% Solids: 96.3

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Methyl-tert-Butyl Ether [1634-04-4] ^	0.00031	U	mg/kg dry	1	0.00031	0.0010	2F21007	EPA 8260B	06/21/12 17:49	JKG	
Naphthalene [91-20-3] ^	0.00028	U	mg/kg dry	1	0.00028	0.0010	2F21007	EPA 8260B	06/21/12 17:49	JKG	
n-Butyl Benzene [104-51-8] ^	0.00013	U	mg/kg dry	1	0.00013	0.0010	2F21007	EPA 8260B	06/21/12 17:49	JKG	
n-Propyl Benzene [103-65-1] ^	0.00019	U	mg/kg dry	1	0.00019	0.0010	2F21007	EPA 8260B	06/21/12 17:49	JKG	
o-Xylene [95-47-6] ^	0.00023	U	mg/kg dry	1	0.00023	0.0010	2F21007	EPA 8260B	06/21/12 17:49	JKG	
sec-Butylbenzene [135-98-8] ^	0.00099	U	mg/kg dry	1	0.00099	0.0010	2F21007	EPA 8260B	06/21/12 17:49	JKG	
Styrene [100-42-5] ^	0.0010	U	mg/kg dry	1	0.0010	0.0010	2F21007	EPA 8260B	06/21/12 17:49	JKG	
tert-Butylbenzene [98-06-6] ^	0.00018	U	mg/kg dry	1	0.00018	0.0010	2F21007	EPA 8260B	06/21/12 17:49	JKG	
Tetrachloroethene [127-18-4] ^	**0.0012**		mg/kg dry	1	0.00029	0.0010	2F21007	EPA 8260B	06/21/12 17:49	JKG	
Toluene [108-88-3] ^	0.00025	U	mg/kg dry	1	0.00025	0.0010	2F21007	EPA 8260B	06/21/12 17:49	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.00038	U	mg/kg dry	1	0.00038	0.0010	2F21007	EPA 8260B	06/21/12 17:49	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.00040	U	mg/kg dry	1	0.00040	0.0010	2F21007	EPA 8260B	06/21/12 17:49	JKG	
Trichloroethene [79-01-6] ^	0.00033	U	mg/kg dry	1	0.00033	0.0010	2F21007	EPA 8260B	06/21/12 17:49	JKG	
Trichlorofluoromethane [75-69-4] ^	0.00027	U	mg/kg dry	1	0.00027	0.0010	2F21007	EPA 8260B	06/21/12 17:49	JKG	
Vinyl chloride [75-01-4] ^	0.00025	U	mg/kg dry	1	0.00025	0.0010	2F21007	EPA 8260B	06/21/12 17:49	JKG	
Xylenes (Total) [1330-20-7] ^	0.00058	U	mg/kg dry	1	0.00058	0.0031	2F21007	EPA 8260B	06/21/12 17:49	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*44*	*1*	*50.0*	*88 %*	*61-118*	*2F21007*	*EPA 8260B*	*06/21/12 17:49*	*JKG*	
Dibromofluoromethane	*45*	*1*	*50.0*	*91 %*	*66-114*	*2F21007*	*EPA 8260B*	*06/21/12 17:49*	*JKG*	
Toluene-d8	*45*	*1*	*50.0*	*90 %*	*63-118*	*2F21007*	*EPA 8260B*	*06/21/12 17:49*	*JKG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: SS-16 1-2'
Matrix: Soil
Project: Wilmington Materials

Lab Sample ID: C207387-07
Sampled: 06/20/12 15:20
Sampled By: Jayson A. Kilcoyne

Received: 06/21/12 12:52
Work Order: C207387
% Solids: 95.7

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.00017	U	mg/kg dry	1	0.00017	0.0010	2F21007	EPA 8260B	06/21/12 18:18	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.00026	U	mg/kg dry	1	0.00026	0.0010	2F21007	EPA 8260B	06/21/12 18:18	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.00021	U	mg/kg dry	1	0.00021	0.0010	2F21007	EPA 8260B	06/21/12 18:18	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.00026	U	mg/kg dry	1	0.00026	0.0010	2F21007	EPA 8260B	06/21/12 18:18	JKG	
1,1-Dichloroethane [75-34-3] ^	0.00026	U	mg/kg dry	1	0.00026	0.0010	2F21007	EPA 8260B	06/21/12 18:18	JKG	
1,1-Dichloroethene [75-35-4] ^	0.00031	U	mg/kg dry	1	0.00031	0.0010	2F21007	EPA 8260B	06/21/12 18:18	JKG	
1,1-Dichloropropene [563-58-6] ^	0.00017	U	mg/kg dry	1	0.00017	0.0010	2F21007	EPA 8260B	06/21/12 18:18	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.00029	U	mg/kg dry	1	0.00029	0.0010	2F21007	EPA 8260B	06/21/12 18:18	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.00067	U	mg/kg dry	1	0.00067	0.0010	2F21007	EPA 8260B	06/21/12 18:18	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.00028	U	mg/kg dry	1	0.00028	0.0010	2F21007	EPA 8260B	06/21/12 18:18	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.00018	U	mg/kg dry	1	0.00018	0.0010	2F21007	EPA 8260B	06/21/12 18:18	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.00083	U	mg/kg dry	1	0.00083	0.0010	2F21007	EPA 8260B	06/21/12 18:18	JKG	
1,2-Dibromoethane [106-93-4] ^	0.00048	U	mg/kg dry	1	0.00048	0.0010	2F21007	EPA 8260B	06/21/12 18:18	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.00028	U	mg/kg dry	1	0.00028	0.0010	2F21007	EPA 8260B	06/21/12 18:18	JKG	
1,2-Dichloroethane [107-06-2] ^	0.00043	U	mg/kg dry	1	0.00043	0.0010	2F21007	EPA 8260B	06/21/12 18:18	JKG	
1,2-Dichloropropane [78-87-5] ^	0.00027	U	mg/kg dry	1	0.00027	0.0010	2F21007	EPA 8260B	06/21/12 18:18	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.00021	U	mg/kg dry	1	0.00021	0.0010	2F21007	EPA 8260B	06/21/12 18:18	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.00023	U	mg/kg dry	1	0.00023	0.0010	2F21007	EPA 8260B	06/21/12 18:18	JKG	
1,3-Dichloropropane [142-28-9] ^	0.00030	U	mg/kg dry	1	0.00030	0.0010	2F21007	EPA 8260B	06/21/12 18:18	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.00021	U	mg/kg dry	1	0.00021	0.0010	2F21007	EPA 8260B	06/21/12 18:18	JKG	
2,2-Dichloropropane [594-20-7] ^	0.00024	U	mg/kg dry	1	0.00024	0.0010	2F21007	EPA 8260B	06/21/12 18:18	JKG	
2-Butanone [78-93-3] ^	0.00082	U	mg/kg dry	1	0.00082	0.0052	2F21007	EPA 8260B	06/21/12 18:18	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	0.00017	U	mg/kg dry	1	0.00017	0.0052	2F21007	EPA 8260B	06/21/12 18:18	JKG	
2-Chlorotoluene [95-49-8] ^	0.00019	U	mg/kg dry	1	0.00019	0.0010	2F21007	EPA 8260B	06/21/12 18:18	JKG	
2-Hexanone [591-78-6] ^	0.00078	U	mg/kg dry	1	0.00078	0.0052	2F21007	EPA 8260B	06/21/12 18:18	JKG	
4-Chlorotoluene [106-43-4] ^	0.00027	U	mg/kg dry	1	0.00027	0.0010	2F21007	EPA 8260B	06/21/12 18:18	JKG	
4-Isopropyltoluene [99-87-6] ^	0.00017	U	mg/kg dry	1	0.00017	0.0010	2F21007	EPA 8260B	06/21/12 18:18	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.00060	U	mg/kg dry	1	0.00060	0.0052	2F21007	EPA 8260B	06/21/12 18:18	JKG	
Acetone [67-64-1] ^	**0.022**		mg/kg dry	1	0.0015	0.0052	2F21007	EPA 8260B	06/21/12 18:18	JKG	
Benzene [71-43-2] ^	0.00018	U	mg/kg dry	1	0.00018	0.0010	2F21007	EPA 8260B	06/21/12 18:18	JKG	
Bromobenzene [108-86-1] ^	0.00023	U	mg/kg dry	1	0.00023	0.0010	2F21007	EPA 8260B	06/21/12 18:18	JKG	
Bromochloromethane [74-97-5] ^	0.00043	U	mg/kg dry	1	0.00043	0.0010	2F21007	EPA 8260B	06/21/12 18:18	JKG	
Bromodichloromethane [75-27-4] ^	0.00025	U	mg/kg dry	1	0.00025	0.0010	2F21007	EPA 8260B	06/21/12 18:18	JKG	
Bromoform [75-25-2] ^	0.00047	U	mg/kg dry	1	0.00047	0.0010	2F21007	EPA 8260B	06/21/12 18:18	JKG	
Bromomethane [74-83-9] ^	0.00033	U	mg/kg dry	1	0.00033	0.0010	2F21007	EPA 8260B	06/21/12 18:18	JKG	
Carbon disulfide [75-15-0] ^	0.00041	U	mg/kg dry	1	0.00041	0.0052	2F21007	EPA 8260B	06/21/12 18:18	JKG	
Carbon Tetrachloride [56-23-5] ^	0.00023	U	mg/kg dry	1	0.00023	0.0010	2F21007	EPA 8260B	06/21/12 18:18	JKG	
Chlorobenzene [108-90-7] ^	0.00018	U	mg/kg dry	1	0.00018	0.0010	2F21007	EPA 8260B	06/21/12 18:18	JKG	
Chloroethane [75-00-3] ^	0.00026	U	mg/kg dry	1	0.00026	0.0010	2F21007	EPA 8260B	06/21/12 18:18	JKG	
Chloroform [67-66-3] ^	0.00019	U	mg/kg dry	1	0.00019	0.0010	2F21007	EPA 8260B	06/21/12 18:18	JKG	
Chloromethane [74-87-3] ^	0.00022	U	mg/kg dry	1	0.00022	0.0010	2F21007	EPA 8260B	06/21/12 18:18	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.00024	U	mg/kg dry	1	0.00024	0.0010	2F21007	EPA 8260B	06/21/12 18:18	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.00018	U	mg/kg dry	1	0.00018	0.0010	2F21007	EPA 8260B	06/21/12 18:18	JKG	
Dibromochloromethane [124-48-1] ^	0.00037	U	mg/kg dry	1	0.00037	0.0010	2F21007	EPA 8260B	06/21/12 18:18	JKG	
Dibromomethane [74-95-3] ^	0.00034	U	mg/kg dry	1	0.00034	0.0010	2F21007	EPA 8260B	06/21/12 18:18	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.00047	U	mg/kg dry	1	0.00047	0.0010	2F21007	EPA 8260B	06/21/12 18:18	JKG	
Ethylbenzene [100-41-4] ^	0.00021	U	mg/kg dry	1	0.00021	0.0010	2F21007	EPA 8260B	06/21/12 18:18	JKG	
Hexachlorobutadiene [87-68-3] ^	0.00037	U	mg/kg dry	1	0.00037	0.0010	2F21007	EPA 8260B	06/21/12 18:18	JKG	
Isopropylbenzene [98-82-8] ^	0.00016	U	mg/kg dry	1	0.00016	0.0010	2F21007	EPA 8260B	06/21/12 18:18	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.00039	U	mg/kg dry	1	0.00039	0.0021	2F21007	EPA 8260B	06/21/12 18:18	JKG	
Methylene Chloride [75-09-2] ^	0.00076	U	mg/kg dry	1	0.00076	0.0021	2F21007	EPA 8260B	06/21/12 18:18	JKG	

www.encolabs.com

Description: SS-16 1-2'
Matrix: Soil
Project: Wilmington Materials

Lab Sample ID: C207387-07
Sampled: 06/20/12 15:20
Sampled By: Jayson A. Kilcoyne

Received: 06/21/12 12:52
Work Order: C207387
% Solids: 95.7

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Methyl-tert-Butyl Ether [1634-04-4] ^	0.00031	U	mg/kg dry	1	0.00031	0.0010	2F21007	EPA 8260B	06/21/12 18:18	JKG	
Naphthalene [91-20-3] ^	0.00028	U	mg/kg dry	1	0.00028	0.0010	2F21007	EPA 8260B	06/21/12 18:18	JKG	
n-Butyl Benzene [104-51-8] ^	0.00014	U	mg/kg dry	1	0.00014	0.0010	2F21007	EPA 8260B	06/21/12 18:18	JKG	
n-Propyl Benzene [103-65-1] ^	0.00019	U	mg/kg dry	1	0.00019	0.0010	2F21007	EPA 8260B	06/21/12 18:18	JKG	
o-Xylene [95-47-6] ^	0.00023	U	mg/kg dry	1	0.00023	0.0010	2F21007	EPA 8260B	06/21/12 18:18	JKG	
sec-Butylbenzene [135-98-8] ^	0.00099	U	mg/kg dry	1	0.00099	0.0010	2F21007	EPA 8260B	06/21/12 18:18	JKG	
Styrene [100-42-5] ^	0.0010	U	mg/kg dry	1	0.0010	0.0010	2F21007	EPA 8260B	06/21/12 18:18	JKG	
tert-Butylbenzene [98-06-6] ^	0.00018	U	mg/kg dry	1	0.00018	0.0010	2F21007	EPA 8260B	06/21/12 18:18	JKG	
Tetrachloroethene [127-18-4] ^	**0.0025**		mg/kg dry	1	0.00029	0.0010	2F21007	EPA 8260B	06/21/12 18:18	JKG	
Toluene [108-88-3] ^	0.00025	U	mg/kg dry	1	0.00025	0.0010	2F21007	EPA 8260B	06/21/12 18:18	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.00039	U	mg/kg dry	1	0.00039	0.0010	2F21007	EPA 8260B	06/21/12 18:18	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.00041	U	mg/kg dry	1	0.00041	0.0010	2F21007	EPA 8260B	06/21/12 18:18	JKG	
Trichloroethene [79-01-6] ^	0.00033	U	mg/kg dry	1	0.00033	0.0010	2F21007	EPA 8260B	06/21/12 18:18	JKG	
Trichlorofluoromethane [75-69-4] ^	0.00027	U	mg/kg dry	1	0.00027	0.0010	2F21007	EPA 8260B	06/21/12 18:18	JKG	
Vinyl chloride [75-01-4] ^	0.00025	U	mg/kg dry	1	0.00025	0.0010	2F21007	EPA 8260B	06/21/12 18:18	JKG	
Xylenes (Total) [1330-20-7] ^	0.00059	U	mg/kg dry	1	0.00059	0.0031	2F21007	EPA 8260B	06/21/12 18:18	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*44*	*1*	*50.0*	*88 %*	*61-118*	*2F21007*	*EPA 8260B*	*06/21/12 18:18*	*JKG*	
Dibromofluoromethane	*46*	*1*	*50.0*	*91 %*	*66-114*	*2F21007*	*EPA 8260B*	*06/21/12 18:18*	*JKG*	
Toluene-d8	*45*	*1*	*50.0*	*90 %*	*63-118*	*2F21007*	*EPA 8260B*	*06/21/12 18:18*	*JKG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: TW-4
Matrix: Ground Water
Project: Wilmington Materials

Lab Sample ID: C207387-08
Sampled: 06/20/12 14:30
Sampled By: Jayson A. Kilcoyne

Received: 06/21/12 12:52
Work Order: C207387

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.091	U	ug/L	1	0.091	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
1,1-Dichloropropene [563-58-6] ^	0.063	U	ug/L	1	0.063	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.25	U	ug/L	1	0.25	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.097	U	ug/L	1	0.097	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.067	U	ug/L	1	0.067	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.10	U	ug/L	1	0.10	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.092	U	ug/L	1	0.092	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
1,3-Dichloropropane [142-28-9] ^	0.15	U	ug/L	1	0.15	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
2,2-Dichloropropane [594-20-7] ^	0.12	U	ug/L	1	0.12	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
2-Chlorotoluene [95-49-8] ^	0.10	U	ug/L	1	0.10	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
4-Chlorotoluene [106-43-4] ^	0.10	U	ug/L	1	0.10	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
4-Isopropyltoluene [99-87-6] ^	0.066	U	ug/L	1	0.066	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
Bromobenzene [108-86-1] ^	0.13	U	ug/L	1	0.13	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
Carbon Tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.091	U	ug/L	1	0.091	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
Freon 113 [76-13-1] ^	0.35	U	ug/L	1	0.35	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
Hexachlorobutadiene [87-68-3] ^	0.15	U	ug/L	1	0.15	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
Isopropyl Ether [108-20-3] ^	0.21	U	ug/L	1	0.21	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
Isopropylbenzene [98-82-8] ^	0.13	U	ug/L	1	0.13	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.18	U	ug/L	1	0.18	2.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
Methylene Chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	2.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.12	U	ug/L	1	0.12	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
Naphthalene [91-20-3] ^	0.086	U	ug/L	1	0.086	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
n-Butyl Benzene [104-51-8] ^	0.074	U	ug/L	1	0.074	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
n-Propyl Benzene [103-65-1] ^	0.073	U	ug/L	1	0.073	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	

www.encolabs.com

Description: TW-4
Matrix: Ground Water
Project: Wilmington Materials

Lab Sample ID: C207387-08
Sampled: 06/20/12 14:30
Sampled By: Jayson A. Kilcoyne

Received: 06/21/12 12:52
Work Order: C207387

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
o-Xylene [95-47-6] ^	0.088	U	ug/L	1	0.088	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
sec-Butylbenzene [135-98-8] ^	0.053	U	ug/L	1	0.053	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
tert-Butylbenzene [98-06-6] ^	0.094	U	ug/L	1	0.094	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
Toluene [108-88-3] ^	**0.40**	J	ug/L	1	0.053	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	2F21028	SM21 6200B	06/22/12 10:37	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*43*	*1*	*50.0*	*86 %*	*51-122*	*2F21028*	*SM21 6200B*	*06/22/12 10:37*	*JKG*	
Dibromofluoromethane	*47*	*1*	*50.0*	*93 %*	*68-117*	*2F21028*	*SM21 6200B*	*06/22/12 10:37*	*JKG*	
Toluene-d8	*41*	*1*	*50.0*	*82 %*	*67-127*	*2F21028*	*SM21 6200B*	*06/22/12 10:37*	*JKG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: Trip Blank
Matrix: Water
Project: Wilmington Materials

Lab Sample ID: C207387-09
Sampled: 06/20/12 10:15
Sampled By: ENCO

Received: 06/21/12 12:52
Work Order: C207387

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.012	U	ug/L	1	0.012	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.10	U	ug/L	1	0.10	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.30	U	ug/L	1	0.30	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	1.1	U	ug/L	1	1.1	5.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
2-Chlorotoluene [95-49-8] ^	0.081	U	ug/L	1	0.081	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
4-Chlorotoluene [106-43-4] ^	0.068	U	ug/L	1	0.068	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
4-Isopropyltoluene [99-87-6] ^	0.085	U	ug/L	1	0.085	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
Bromobenzene [108-86-1] ^	0.16	U	ug/L	1	0.16	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
Isopropylbenzene [98-82-8] ^	0.14	U	ug/L	1	0.14	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.17	U	ug/L	1	0.17	2.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	

www.encolabs.com

Description: Trip Blank
Matrix: Water
Project: Wilmington Materials

Lab Sample ID: C207387-09
Sampled: 06/20/12 10:15
Sampled By: ENCO

Received: 06/21/12 12:52
Work Order: C207387

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Methyl-tert-Butyl Ether [1634-04-4] ^	0.16	U	ug/L	1	0.16	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
n-Butyl Benzene [104-51-8] ^	0.058	U	ug/L	1	0.058	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
n-Propyl Benzene [103-65-1] ^	0.12	U	ug/L	1	0.12	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
o-Xylene [95-47-6] ^	0.065	U	ug/L	1	0.065	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
sec-Butylbenzene [135-98-8] ^	0.10	U	ug/L	1	0.10	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
tert-Butylbenzene [98-06-6] ^	0.17	U	ug/L	1	0.17	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	2F22016	EPA 8260B	06/25/12 11:41	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*43*	*1*	*50.0*	*85 %*	*51-122*	*2F22016*	*EPA 8260B*	*06/25/12 11:41*	*JKG*	
Dibromofluoromethane	*50*	*1*	*50.0*	*100 %*	*68-117*	*2F22016*	*EPA 8260B*	*06/25/12 11:41*	*JKG*	
Toluene-d8	*41*	*1*	*50.0*	*81 %*	*67-127*	*2F22016*	*EPA 8260B*	*06/25/12 11:41*	*JKG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 2F21007 - EPA 5035_MS

Blank (2F21007-BLK1) Prepared: 06/21/2012 08:47 Analyzed: 06/21/2012 09:00

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.00016	U	0.0010	mg/kg wet							
1,1,1-Trichloroethane	0.00025	U	0.0010	mg/kg wet							
1,1,2,2-Tetrachloroethane	0.00020	U	0.0010	mg/kg wet							
1,1,2-Trichloroethane	0.00025	U	0.0010	mg/kg wet							
1,1-Dichloroethane	0.00025	U	0.0010	mg/kg wet							
1,1-Dichloroethene	0.00030	U	0.0010	mg/kg wet							
1,1-Dichloropropene	0.00016	U	0.0010	mg/kg wet							
1,2,3-Trichlorobenzene	0.00028	U	0.0010	mg/kg wet							
1,2,3-Trichloropropane	0.00064	U	0.0010	mg/kg wet							
1,2,4-Trichlorobenzene	0.00027	U	0.0010	mg/kg wet							
1,2,4-Trimethylbenzene	0.00017	U	0.0010	mg/kg wet							
1,2-Dibromo-3-chloropropane	0.00079	U	0.0010	mg/kg wet							
1,2-Dibromoethane	0.00046	U	0.0010	mg/kg wet							
1,2-Dichlorobenzene	0.00027	U	0.0010	mg/kg wet							
1,2-Dichloroethane	0.00041	U	0.0010	mg/kg wet							
1,2-Dichloropropane	0.00026	U	0.0010	mg/kg wet							
1,3,5-Trimethylbenzene	0.00020	U	0.0010	mg/kg wet							
1,3-Dichlorobenzene	0.00022	U	0.0010	mg/kg wet							
1,3-Dichloropropane	0.00029	U	0.0010	mg/kg wet							
1,4-Dichlorobenzene	0.00020	U	0.0010	mg/kg wet							
2,2-Dichloropropane	0.00023	U	0.0010	mg/kg wet							
2-Butanone	0.00078	U	0.0050	mg/kg wet							
2-Chloroethyl Vinyl Ether	0.00016	U	0.0050	mg/kg wet							
2-Chlorotoluene	0.00018	U	0.0010	mg/kg wet							
2-Hexanone	0.00075	U	0.0050	mg/kg wet							
4-Chlorotoluene	0.00026	U	0.0010	mg/kg wet							
4-Isopropyltoluene	0.00016	U	0.0010	mg/kg wet							
4-Methyl-2-pentanone	0.00057	U	0.0050	mg/kg wet							
Acetone	0.0014	U	0.0050	mg/kg wet							
Benzene	0.00017	U	0.0010	mg/kg wet							
Bromobenzene	0.00022	U	0.0010	mg/kg wet							
Bromochloromethane	0.00041	U	0.0010	mg/kg wet							
Bromodichloromethane	0.00024	U	0.0010	mg/kg wet							
Bromoform	0.00045	U	0.0010	mg/kg wet							
Bromomethane	0.00032	U	0.0010	mg/kg wet							
Carbon disulfide	0.00039	U	0.0050	mg/kg wet							
Carbon Tetrachloride	0.00022	U	0.0010	mg/kg wet							
Chlorobenzene	0.00017	U	0.0010	mg/kg wet							
Chloroethane	0.00025	U	0.0010	mg/kg wet							
Chloroform	0.00018	U	0.0010	mg/kg wet							
Chloromethane	0.00021	U	0.0010	mg/kg wet							
cis-1,2-Dichloroethene	0.00023	U	0.0010	mg/kg wet							
cis-1,3-Dichloropropene	0.00017	U	0.0010	mg/kg wet							
Dibromochloromethane	0.00035	U	0.0010	mg/kg wet							
Dibromomethane	0.00033	U	0.0010	mg/kg wet							
Dichlorodifluoromethane	0.00045	U	0.0010	mg/kg wet							
Ethylbenzene	0.00020	U	0.0010	mg/kg wet							
Hexachlorobutadiene	0.00035	U	0.0010	mg/kg wet							
Isopropylbenzene	0.00015	U	0.0010	mg/kg wet							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 2F21007 - EPA 5035_MS

Blank (2F21007-BLK1) Continued Prepared: 06/21/2012 08:47 Analyzed: 06/21/2012 09:00

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
m,p-Xylenes	0.00037	U	0.0020	mg/kg wet							
Methylene Chloride	0.00073	U	0.0020	mg/kg wet							
Methyl-tert-Butyl Ether	0.00030	U	0.0010	mg/kg wet							
Naphthalene	0.00027	U	0.0010	mg/kg wet							
n-Butyl Benzene	0.00013	U	0.0010	mg/kg wet							
n-Propyl Benzene	0.00018	U	0.0010	mg/kg wet							
o-Xylene	0.00022	U	0.0010	mg/kg wet							
sec-Butylbenzene	0.00095	U	0.0010	mg/kg wet							
Styrene	0.00098	U	0.0010	mg/kg wet							
tert-Butylbenzene	0.00017	U	0.0010	mg/kg wet							
Tetrachloroethene	0.00028	U	0.0010	mg/kg wet							
Toluene	0.00024	U	0.0010	mg/kg wet							
trans-1,2-Dichloroethene	0.00037	U	0.0010	mg/kg wet							
trans-1,3-Dichloropropene	0.00039	U	0.0010	mg/kg wet							
Trichloroethene	0.00032	U	0.0010	mg/kg wet							
Trichlorofluoromethane	0.00026	U	0.0010	mg/kg wet							
Vinyl chloride	0.00024	U	0.0010	mg/kg wet							
Xylenes (Total)	0.00056	U	0.0030	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	*41*			*ug/L*	*50.0*		*83*	*61-118*			
Surrogate: Dibromofluoromethane	*47*			*ug/L*	*50.0*		*95*	*66-114*			
Surrogate: Toluene-d8	*44*			*ug/L*	*50.0*		*87*	*63-118*			

LCS (2F21007-BS1) Prepared: 06/21/2012 08:47 Analyzed: 06/21/2012 09:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0		103	64-133			
Benzene	20		1.0	ug/L	20.0		100	79-129			
Chlorobenzene	20		1.0	ug/L	20.0		98	79-121			
Toluene	19		1.0	ug/L	20.0		97	77-120			
Trichloroethene	20		1.0	ug/L	20.0		101	78-118			
Surrogate: 4-Bromofluorobenzene	*43*			*ug/L*	*50.0*		*86*	*61-118*			
Surrogate: Dibromofluoromethane	*44*			*ug/L*	*50.0*		*88*	*66-114*			
Surrogate: Toluene-d8	*46*			*ug/L*	*50.0*		*92*	*63-118*			

Matrix Spike (2F21007-MS1) Prepared: 06/21/2012 08:47 Analyzed: 06/21/2012 09:59

Source: C207450-06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0	0.30 U	106	64-133			
Benzene	21		1.0	ug/L	20.0	0.17 U	103	79-129			
Chlorobenzene	21		1.0	ug/L	20.0	0.17 U	103	79-121			
Toluene	20		1.0	ug/L	20.0	0.24 U	102	77-120			
Trichloroethene	21		1.0	ug/L	20.0	0.32 U	105	78-118			
Surrogate: 4-Bromofluorobenzene	*45*			*ug/L*	*50.0*		*90*	*61-118*			
Surrogate: Dibromofluoromethane	*45*			*ug/L*	*50.0*		*90*	*66-114*			
Surrogate: Toluene-d8	*48*			*ug/L*	*50.0*		*95*	*63-118*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 2F21007 - EPA 5035_MS

Matrix Spike Dup (2F21007-MSD1) Prepared: 06/21/2012 08:47 Analyzed: 06/21/2012 10:28

Source: C207450-06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0	0.30 U	97	64-133	9	23	
Benzene	19		1.0	ug/L	20.0	0.17 U	96	79-129	7	23	
Chlorobenzene	19		1.0	ug/L	20.0	0.17 U	93	79-121	9	25	
Toluene	18		1.0	ug/L	20.0	0.24 U	92	77-120	10	23	
Trichloroethene	20		1.0	ug/L	20.0	0.32 U	99	78-118	6	24	
Surrogate: 4-Bromofluorobenzene	*42*			*ug/L*	*50.0*		*84*	*61-118*			
Surrogate: Dibromofluoromethane	*43*			*ug/L*	*50.0*		*86*	*66-114*			
Surrogate: Toluene-d8	*46*			*ug/L*	*50.0*		*91*	*63-118*			

Batch 2F21028 - EPA 5030B_MS

Blank (2F21028-BLK1) Prepared: 06/21/2012 13:46 Analyzed: 06/22/2012 08:10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.091	U	1.0	ug/L							
1,1,1-Trichloroethane	0.15	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.085	U	1.0	ug/L							
1,1,2-Trichloroethane	0.068	U	1.0	ug/L							
1,1-Dichloroethane	0.050	U	1.0	ug/L							
1,1-Dichloroethene	0.15	U	1.0	ug/L							
1,1-Dichloropropene	0.063	U	1.0	ug/L							
1,2,3-Trichlorobenzene	0.25	U	1.0	ug/L							
1,2,3-Trichloropropane	0.15	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.097	U	1.0	ug/L							
1,2,4-Trimethylbenzene	0.067	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.052	U	1.0	ug/L							
1,2-Dichloroethane	0.082	U	1.0	ug/L							
1,2-Dichloropropane	0.098	U	1.0	ug/L							
1,3,5-Trimethylbenzene	0.10	U	1.0	ug/L							
1,3-Dichlorobenzene	0.092	U	1.0	ug/L							
1,3-Dichloropropane	0.15	U	1.0	ug/L							
1,4-Dichlorobenzene	0.10	U	1.0	ug/L							
2,2-Dichloropropane	0.12	U	1.0	ug/L							
2-Chlorotoluene	0.10	U	1.0	ug/L							
4-Chlorotoluene	0.10	U	1.0	ug/L							
4-Isopropyltoluene	0.066	U	1.0	ug/L							
Benzene	0.050	U	1.0	ug/L							
Bromobenzene	0.13	U	1.0	ug/L							
Bromochloromethane	0.11	U	1.0	ug/L							
Bromodichloromethane	0.10	U	1.0	ug/L							
Bromoform	0.20	U	1.0	ug/L							
Bromomethane	0.28	U	1.0	ug/L							
Carbon Tetrachloride	0.082	U	1.0	ug/L							
Chlorobenzene	0.069	U	1.0	ug/L							
Chloroethane	0.18	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 2F21028 - EPA 5030B_MS

Blank (2F21028-BLK1) Continued Prepared: 06/21/2012 13:46 Analyzed: 06/22/2012 08:10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloroform	0.083	U	1.0	ug/L							
Chloromethane	0.050	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.075	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.073	U	1.0	ug/L							
Dibromochloromethane	0.067	U	1.0	ug/L							
Dibromomethane	0.13	U	1.0	ug/L							
Dichlorodifluoromethane	0.091	U	1.0	ug/L							
Ethylbenzene	0.10	U	1.0	ug/L							
Freon 113	0.35	U	1.0	ug/L							
Hexachlorobutadiene	0.15	U	1.0	ug/L							
Isopropyl Ether	0.21	U	1.0	ug/L							
Isopropylbenzene	0.13	U	1.0	ug/L							
m,p-Xylenes	0.18	U	2.0	ug/L							
Methylene Chloride	0.070	U	2.0	ug/L							
Methyl-tert-Butyl Ether	0.12	U	1.0	ug/L							
Naphthalene	0.086	U	1.0	ug/L							
n-Butyl Benzene	0.074	U	1.0	ug/L							
n-Propyl Benzene	0.073	U	1.0	ug/L							
o-Xylene	0.088	U	1.0	ug/L							
sec-Butylbenzene	0.053	U	1.0	ug/L							
Styrene	0.082	U	1.0	ug/L							
tert-Butylbenzene	0.094	U	1.0	ug/L							
Tetrachloroethene	0.099	U	1.0	ug/L							
Toluene	0.053	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.11	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.080	U	1.0	ug/L							
Trichloroethene	0.13	U	1.0	ug/L							
Trichlorofluoromethane	0.15	U	1.0	ug/L							
Vinyl chloride	0.083	U	1.0	ug/L							
Xylenes (Total)	0.22	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*43*			*ug/L*	*50.0*		*86*	*51-122*			
Surrogate: Dibromofluoromethane	*45*			*ug/L*	*50.0*		*90*	*68-117*			
Surrogate: Toluene-d8	*40*			*ug/L*	*50.0*		*81*	*67-127*			

LCS (2F21028-BS1) Prepared: 06/21/2012 13:46 Analyzed: 06/22/2012 08:40

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	19		1.0	ug/L	20.0		93	70-130			
1,1,1-Trichloroethane	19		1.0	ug/L	20.0		97	70-130			
1,1,2,2-Tetrachloroethane	18		1.0	ug/L	20.0		89	70-130			
1,1,2-Trichloroethane	20		1.0	ug/L	20.0		99	70-130			
1,1-Dichloroethane	21		1.0	ug/L	20.0		105	70-130			
1,1-Dichloroethene	19		1.0	ug/L	20.0		93	70-130			
1,1-Dichloropropene	19		1.0	ug/L	20.0		95	70-130			
1,2,3-Trichlorobenzene	17		1.0	ug/L	20.0		83	70-130			
1,2,3-Trichloropropane	18		1.0	ug/L	20.0		91	70-130			
1,2,4-Trichlorobenzene	17		1.0	ug/L	20.0		84	70-130			
1,2,4-Trimethylbenzene	20		1.0	ug/L	20.0		99	70-130			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 2F21028 - EPA 5030B_MS

LCS (2F21028-BS1) Continued Prepared: 06/21/2012 13:46 Analyzed: 06/22/2012 08:40

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2-Dibromo-3-chloropropane	17		1.0	ug/L	20.0		86	70-130			
1,2-Dibromoethane	19		1.0	ug/L	20.0		97	70-130			
1,2-Dichlorobenzene	17		1.0	ug/L	20.0		87	70-130			
1,2-Dichloroethane	20		1.0	ug/L	20.0		99	70-130			
1,2-Dichloropropane	18		1.0	ug/L	20.0		89	70-130			
1,3,5-Trimethylbenzene	19		1.0	ug/L	20.0		96	70-130			
1,3-Dichlorobenzene	19		1.0	ug/L	20.0		93	70-130			
1,3-Dichloropropane	19		1.0	ug/L	20.0		96	70-130			
1,4-Dichlorobenzene	18		1.0	ug/L	20.0		91	70-130			
2,2-Dichloropropane	20		1.0	ug/L	20.0		99	70-130			
2-Chlorotoluene	19		1.0	ug/L	20.0		97	70-130			
4-Chlorotoluene	20		1.0	ug/L	20.0		98	70-130			
4-Isopropyltoluene	21		1.0	ug/L	20.0		103	70-130			
Benzene	18		1.0	ug/L	20.0		92	70-130			
Bromobenzene	17		1.0	ug/L	20.0		86	70-130			
Bromochloromethane	18		1.0	ug/L	20.0		90	70-130			
Bromodichloromethane	18		1.0	ug/L	20.0		90	70-130			
Bromoform	18		1.0	ug/L	20.0		90	70-130			
Bromomethane	26		1.0	ug/L	20.0		131	70-130			QL-02
Carbon Tetrachloride	19		1.0	ug/L	20.0		93	70-130			
Chlorobenzene	19		1.0	ug/L	20.0		93	70-130			
Chloroethane	20		1.0	ug/L	20.0		102	70-130			
Chloroform	19		1.0	ug/L	20.0		96	70-130			
Chloromethane	21		1.0	ug/L	20.0		103	70-130			
cis-1,2-Dichloroethene	17		1.0	ug/L	20.0		87	70-130			
cis-1,3-Dichloropropene	19		1.0	ug/L	20.0		94	70-130			
Dibromochloromethane	18		1.0	ug/L	20.0		92	70-130			
Dibromomethane	20		1.0	ug/L	20.0		101	70-130			
Dichlorodifluoromethane	24		1.0	ug/L	20.0		121	70-130			
Ethylbenzene	18		1.0	ug/L	20.0		90	70-130			
Freon 113	19		1.0	ug/L	20.0		96	70-130			
Hexachlorobutadiene	16		1.0	ug/L	20.0		82	70-130			
Isopropyl Ether	20		1.0	ug/L	20.0		98	70-130			
Isopropylbenzene	22		1.0	ug/L	20.0		111	70-130			
m,p-Xylenes	38		2.0	ug/L	40.0		95	70-130			
Methylene Chloride	20		2.0	ug/L	20.0		100	70-130			
Methyl-tert-Butyl Ether	18		1.0	ug/L	20.0		91	70-130			
Naphthalene	18		1.0	ug/L	20.0		92	70-130			
n-Butyl Benzene	19		1.0	ug/L	20.0		94	70-130			
n-Propyl Benzene	21		1.0	ug/L	20.0		107	70-130			
o-Xylene	19		1.0	ug/L	20.0		96	70-130			
sec-Butylbenzene	20		1.0	ug/L	20.0		99	70-130			
Styrene	19		1.0	ug/L	20.0		95	70-130			
tert-Butylbenzene	19		1.0	ug/L	20.0		97	70-130			
Tetrachloroethene	19		1.0	ug/L	20.0		95	70-130			
Toluene	19		1.0	ug/L	20.0		93	70-130			
trans-1,2-Dichloroethene	18		1.0	ug/L	20.0		88	70-130			
trans-1,3-Dichloropropene	22		1.0	ug/L	20.0		111	70-130			
Trichloroethene	17		1.0	ug/L	20.0		86	70-130			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 2F21028 - EPA 5030B_MS

LCS (2F21028-BS1) Continued Prepared: 06/21/2012 13:46 Analyzed: 06/22/2012 08:40

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Trichlorofluoromethane	21		1.0	ug/L	20.0		103	70-130			
Vinyl chloride	22		1.0	ug/L	20.0		108	70-130			
Xylenes (Total)	57		1.0	ug/L	60.0		95	70-130			
Surrogate: 4-Bromofluorobenzene	*44*			*ug/L*	*50.0*		*88*	*51-122*			
Surrogate: Dibromofluoromethane	*44*			*ug/L*	*50.0*		*87*	*68-117*			
Surrogate: Toluene-d8	*42*			*ug/L*	*50.0*		*85*	*67-127*			

Matrix Spike (2F21028-MS1) Prepared: 06/21/2012 13:46 Analyzed: 06/22/2012 09:09

Source: C207582-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	19		1.0	ug/L	20.0	0.091 U	94	71-117			
1,1,1-Trichloroethane	20		1.0	ug/L	20.0	0.15 U	100	72-143			
1,1,2,2-Tetrachloroethane	18		1.0	ug/L	20.0	0.085 U	89	59-133			
1,1,2-Trichloroethane	20		1.0	ug/L	20.0	0.068 U	98	67-118			
1,1-Dichloroethane	21		1.0	ug/L	20.0	0.050 U	104	79-141			
1,1-Dichloroethene	20		1.0	ug/L	20.0	0.15 U	98	75-133			
1,1-Dichloropropene	19		1.0	ug/L	20.0	0.063 U	96	70-129			
1,2,3-Trichlorobenzene	17		1.0	ug/L	20.0	0.25 U	84	62-117			
1,2,3-Trichloropropane	19		1.0	ug/L	20.0	0.15 U	96	58-140			
1,2,4-Trichlorobenzene	18		1.0	ug/L	20.0	0.097 U	88	59-122			
1,2,4-Trimethylbenzene	21		1.0	ug/L	20.0	0.067 U	103	74-123			
1,2-Dibromo-3-chloropropane	18		1.0	ug/L	20.0	0.48 U	88	37-157			
1,2-Dibromoethane	19		1.0	ug/L	20.0	0.42 U	94	66-123			
1,2-Dichlorobenzene	18		1.0	ug/L	20.0	0.052 U	88	76-116			
1,2-Dichloroethane	21		1.0	ug/L	20.0	0.082 U	106	72-151			
1,2-Dichloropropane	18		1.0	ug/L	20.0	0.098 U	92	78-125			
1,3,5-Trimethylbenzene	20		1.0	ug/L	20.0	0.10 U	98	77-129			
1,3-Dichlorobenzene	19		1.0	ug/L	20.0	0.092 U	95	76-119			
1,3-Dichloropropane	19		1.0	ug/L	20.0	0.15 U	97	60-129			
1,4-Dichlorobenzene	19		1.0	ug/L	20.0	0.10 U	97	76-122			
2,2-Dichloropropane	20		1.0	ug/L	20.0	0.12 U	101	21-167			
2-Chlorotoluene	20		1.0	ug/L	20.0	0.10 U	99	73-135			
4-Chlorotoluene	20		1.0	ug/L	20.0	0.10 U	102	76-134			
4-Isopropyltoluene	21		1.0	ug/L	20.0	0.066 U	105	75-127			
Benzene	19		1.0	ug/L	20.0	0.050 U	94	81-134			
Bromobenzene	17		1.0	ug/L	20.0	0.13 U	87	72-115			
Bromochloromethane	19		1.0	ug/L	20.0	0.11 U	94	74-128			
Bromodichloromethane	18		1.0	ug/L	20.0	0.10 U	91	72-129			
Bromoform	18		1.0	ug/L	20.0	0.20 U	89	73-119			
Bromomethane	27		1.0	ug/L	20.0	0.28 U	136	38-189			
Carbon Tetrachloride	19		1.0	ug/L	20.0	0.082 U	96	68-142			
Chlorobenzene	19		1.0	ug/L	20.0	0.069 U	95	83-117			
Chloroethane	22		1.0	ug/L	20.0	0.18 U	110	45-213			
Chloroform	20		1.0	ug/L	20.0	0.083 U	98	78-138			
Chloromethane	23		1.0	ug/L	20.0	0.050 U	115	56-171			
cis-1,2-Dichloroethene	18		1.0	ug/L	20.0	0.075 U	92	69-120			
cis-1,3-Dichloropropene	19		1.0	ug/L	20.0	0.073 U	94	63-125			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 2F21028 - EPA 5030B_MS

Matrix Spike (2F21028-MS1) Continued Prepared: 06/21/2012 13:46 Analyzed: 06/22/2012 09:09

Source: C207582-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Dibromochloromethane	18		1.0	ug/L	20.0	0.067 U	90	73-117			
Dibromomethane	20		1.0	ug/L	20.0	0.13 U	100	76-124			
Dichlorodifluoromethane	25		1.0	ug/L	20.0	0.091 U	127	25-161			
Ethylbenzene	18		1.0	ug/L	20.0	0.10 U	90	68-124			
Freon 113	20		1.0	ug/L	20.0	0.35 U	99	0-200			
Hexachlorobutadiene	17		1.0	ug/L	20.0	0.15 U	83	63-114			
Isopropyl Ether	20		1.0	ug/L	20.0	0.21 U	101	70-130			
Isopropylbenzene	22		1.0	ug/L	20.0	0.13 U	111	81-136			
m,p-Xylenes	39		2.0	ug/L	40.0	0.18 U	97	79-121			
Methylene Chloride	20		2.0	ug/L	20.0	0.070 U	99	68-128			
Methyl-tert-Butyl Ether	19		1.0	ug/L	20.0	0.12 U	93	10-127			
Naphthalene	19		1.0	ug/L	20.0	0.086 U	95	50-127			
n-Butyl Benzene	19		1.0	ug/L	20.0	0.074 U	96	68-126			
n-Propyl Benzene	22		1.0	ug/L	20.0	0.073 U	108	76-125			
o-Xylene	20		1.0	ug/L	20.0	0.088 U	98	71-125			
sec-Butylbenzene	20		1.0	ug/L	20.0	0.053 U	100	75-122			
Styrene	19		1.0	ug/L	20.0	0.082 U	96	73-120			
tert-Butylbenzene	20		1.0	ug/L	20.0	0.094 U	101	70-137			
Tetrachloroethene	22		1.0	ug/L	20.0	0.099 U	110	40-181			
Toluene	19		1.0	ug/L	20.0	0.053 U	93	71-118			
trans-1,2-Dichloroethene	18		1.0	ug/L	20.0	0.11 U	90	75-139			
trans-1,3-Dichloropropene	22		1.0	ug/L	20.0	0.080 U	109	62-152			
Trichloroethene	17		1.0	ug/L	20.0	0.13 U	86	75-115			
Trichlorofluoromethane	22		1.0	ug/L	20.0	0.15 U	112	68-183			
Vinyl chloride	24		1.0	ug/L	20.0	0.083 U	122	49-150			
Xylenes (Total)	58		1.0	ug/L	60.0	0.22 U	97	77-121			
Surrogate: 4-Bromofluorobenzene	*44*			*ug/L*	*50.0*		*89*	*51-122*			
Surrogate: Dibromofluoromethane	*45*			*ug/L*	*50.0*		*89*	*68-117*			
Surrogate: Toluene-d8	*42*			*ug/L*	*50.0*		*84*	*67-127*			

Matrix Spike Dup (2F21028-MSD1) Prepared: 06/21/2012 13:46 Analyzed: 06/22/2012 09:38

Source: C207582-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	17		1.0	ug/L	20.0	0.091 U	87	71-117	7	16	
1,1,1-Trichloroethane	18		1.0	ug/L	20.0	0.15 U	90	72-143	10	18	
1,1,2,2-Tetrachloroethane	17		1.0	ug/L	20.0	0.085 U	87	59-133	2	16	
1,1,2-Trichloroethane	19		1.0	ug/L	20.0	0.068 U	95	67-118	3	18	
1,1-Dichloroethane	20		1.0	ug/L	20.0	0.050 U	98	79-141	6	19	
1,1-Dichloroethene	18		1.0	ug/L	20.0	0.15 U	90	75-133	9	20	
1,1-Dichloropropene	18		1.0	ug/L	20.0	0.063 U	92	70-129	5	17	
1,2,3-Trichlorobenzene	15		1.0	ug/L	20.0	0.25 U	76	62-117	10	17	
1,2,3-Trichloropropane	18		1.0	ug/L	20.0	0.15 U	90	58-140	6	17	
1,2,4-Trichlorobenzene	16		1.0	ug/L	20.0	0.097 U	81	59-122	8	17	
1,2,4-Trimethylbenzene	19		1.0	ug/L	20.0	0.067 U	94	74-123	10	18	
1,2-Dibromo-3-chloropropane	17		1.0	ug/L	20.0	0.48 U	85	37-157	4	18	
1,2-Dibromoethane	18		1.0	ug/L	20.0	0.42 U	90	66-123	5	15	

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 2F21028 - EPA 5030B_MS

Matrix Spike Dup (2F21028-MSD1) Continued Prepared: 06/21/2012 13:46 Analyzed: 06/22/2012 09:38

Source: C207582-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2-Dichlorobenzene	16		1.0	ug/L	20.0	0.052 U	80	76-116	10	16	
1,2-Dichloroethane	19		1.0	ug/L	20.0	0.082 U	93	72-151	13	16	
1,2-Dichloropropane	17		1.0	ug/L	20.0	0.098 U	84	78-125	9	19	
1,3,5-Trimethylbenzene	18		1.0	ug/L	20.0	0.10 U	89	77-129	10	16	
1,3-Dichlorobenzene	17		1.0	ug/L	20.0	0.092 U	86	76-119	10	17	
1,3-Dichloropropane	19		1.0	ug/L	20.0	0.15 U	94	60-129	2	16	
1,4-Dichlorobenzene	18		1.0	ug/L	20.0	0.10 U	88	76-122	9	16	
2,2-Dichloropropane	19		1.0	ug/L	20.0	0.12 U	94	21-167	7	20	
2-Chlorotoluene	18		1.0	ug/L	20.0	0.10 U	90	73-135	10	16	
4-Chlorotoluene	19		1.0	ug/L	20.0	0.10 U	93	76-134	9	16	
4-Isopropyltoluene	19		1.0	ug/L	20.0	0.066 U	96	75-127	9	17	
Benzene	17		1.0	ug/L	20.0	0.050 U	87	81-134	8	17	
Bromobenzene	16		1.0	ug/L	20.0	0.13 U	82	72-115	6	17	
Bromochloromethane	17		1.0	ug/L	20.0	0.11 U	84	74-128	11	18	
Bromodichloromethane	17		1.0	ug/L	20.0	0.10 U	87	72-129	4	16	
Bromoform	18		1.0	ug/L	20.0	0.20 U	89	73-119	0.4	44	
Bromomethane	24		1.0	ug/L	20.0	0.28 U	122	38-189	10	27	
Carbon Tetrachloride	17		1.0	ug/L	20.0	0.082 U	86	68-142	11	17	
Chlorobenzene	18		1.0	ug/L	20.0	0.069 U	89	83-117	6	16	
Chloroethane	21		1.0	ug/L	20.0	0.18 U	105	45-213	4	26	
Chloroform	18		1.0	ug/L	20.0	0.083 U	90	78-138	9	17	
Chloromethane	21		1.0	ug/L	20.0	0.050 U	106	56-171	8	28	
cis-1,2-Dichloroethene	17		1.0	ug/L	20.0	0.075 U	83	69-120	10	18	
cis-1,3-Dichloropropene	18		1.0	ug/L	20.0	0.073 U	88	63-125	7	17	
Dibromochloromethane	17		1.0	ug/L	20.0	0.067 U	87	73-117	4	16	
Dibromomethane	19		1.0	ug/L	20.0	0.13 U	94	76-124	6	15	
Dichlorodifluoromethane	23		1.0	ug/L	20.0	0.091 U	117	25-161	8	48	
Ethylbenzene	17		1.0	ug/L	20.0	0.10 U	84	68-124	7	16	
Freon 113	18		1.0	ug/L	20.0	0.35 U	90	0-200	9	25	
Hexachlorobutadiene	15		1.0	ug/L	20.0	0.15 U	75	63-114	11	19	
Isopropyl Ether	18		1.0	ug/L	20.0	0.21 U	92	70-130	9	30	
Isopropylbenzene	21		1.0	ug/L	20.0	0.13 U	107	81-136	4	16	
m,p-Xylenes	36		2.0	ug/L	40.0	0.18 U	90	79-121	8	16	
Methylene Chloride	19		2.0	ug/L	20.0	0.070 U	95	68-128	4	17	
Methyl-tert-Butyl Ether	18		1.0	ug/L	20.0	0.12 U	89	10-127	4	21	
Naphthalene	18		1.0	ug/L	20.0	0.086 U	90	50-127	5	19	
n-Butyl Benzene	18		1.0	ug/L	20.0	0.074 U	88	68-126	9	15	
n-Propyl Benzene	20		1.0	ug/L	20.0	0.073 U	100	76-125	7	16	
o-Xylene	18		1.0	ug/L	20.0	0.088 U	92	71-125	7	15	
sec-Butylbenzene	18		1.0	ug/L	20.0	0.053 U	92	75-122	8	17	
Styrene	18		1.0	ug/L	20.0	0.082 U	91	73-120	6	23	
tert-Butylbenzene	19		1.0	ug/L	20.0	0.094 U	93	70-137	8	22	
Tetrachloroethene	21		1.0	ug/L	20.0	0.099 U	103	40-181	6	26	
Toluene	18		1.0	ug/L	20.0	0.053 U	88	71-118	6	17	
trans-1,2-Dichloroethene	17		1.0	ug/L	20.0	0.11 U	85	75-139	6	19	
trans-1,3-Dichloropropene	20		1.0	ug/L	20.0	0.080 U	102	62-152	6	16	
Trichloroethene	16		1.0	ug/L	20.0	0.13 U	81	75-115	5	18	

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 2F21028 - EPA 5030B_MS

Matrix Spike Dup (2F21028-MSD1) Continued Prepared: 06/21/2012 13:46 Analyzed: 06/22/2012 09:38

Source: C207582-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Trichlorofluoromethane	21		1.0	ug/L	20.0	0.15 U	105	68-183	6	22	
Vinyl chloride	22		1.0	ug/L	20.0	0.083 U	109	49-150	11	27	
Xylenes (Total)	54		1.0	ug/L	60.0	0.22 U	90	77-121	7	16	
Surrogate: 4-Bromofluorobenzene	*43*			*ug/L*	*50.0*		*86*	*51-122*			
Surrogate: Dibromofluoromethane	*43*			*ug/L*	*50.0*		*87*	*68-117*			
Surrogate: Toluene-d8	*41*			*ug/L*	*50.0*		*81*	*67-127*			

Batch 2F22016 - EPA 5030B_MS

Blank (2F22016-BLK1) Prepared: 06/22/2012 10:26 Analyzed: 06/25/2012 09:14

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,1-Dichloropropene	0.15	U	1.0	ug/L							
1,2,3-Trichlorobenzene	0.012	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.14	U	1.0	ug/L							
1,2,4-Trimethylbenzene	0.10	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,3,5-Trimethylbenzene	0.30	U	1.0	ug/L							
1,3-Dichlorobenzene	0.15	U	1.0	ug/L							
1,3-Dichloropropane	0.16	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2,2-Dichloropropane	0.28	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Chloroethyl Vinyl Ether	1.1	U	5.0	ug/L							
2-Chlorotoluene	0.081	U	1.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
4-Chlorotoluene	0.068	U	1.0	ug/L							
4-Isopropyltoluene	0.085	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromobenzene	0.16	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 2F22016 - EPA 5030B_MS

Blank (2F22016-BLK1) Continued Prepared: 06/22/2012 10:26 Analyzed: 06/25/2012 09:14

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Dichlorodifluoromethane	0.20	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Hexachlorobutadiene	0.22	U	1.0	ug/L							
Isopropylbenzene	0.14	U	1.0	ug/L							
m,p-Xylenes	0.17	U	2.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
Methyl-tert-Butyl Ether	0.16	U	1.0	ug/L							
Naphthalene	0.11	U	1.0	ug/L							
n-Butyl Benzene	0.058	U	1.0	ug/L							
n-Propyl Benzene	0.12	U	1.0	ug/L							
o-Xylene	0.065	U	1.0	ug/L							
sec-Butylbenzene	0.10	U	1.0	ug/L							
Styrene	0.11	U	1.0	ug/L							
tert-Butylbenzene	0.17	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*43*			*ug/L*	*50.0*		*86*	*51-122*			
Surrogate: Dibromofluoromethane	*50*			*ug/L*	*50.0*		*100*	*68-117*			
Surrogate: Toluene-d8	*41*			*ug/L*	*50.0*		*83*	*67-127*			

LCS (2F22016-BS1) Prepared: 06/22/2012 10:26 Analyzed: 06/25/2012 09:44

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	18		1.0	ug/L	20.0		90	75-133			
Benzene	18		1.0	ug/L	20.0		90	81-134			
Chlorobenzene	18		1.0	ug/L	20.0		91	83-117			
Toluene	18		1.0	ug/L	20.0		89	71-118			
Trichloroethene	17		1.0	ug/L	20.0		87	74-119			
Surrogate: 4-Bromofluorobenzene	*44*			*ug/L*	*50.0*		*89*	*51-122*			
Surrogate: Dibromofluoromethane	*46*			*ug/L*	*50.0*		*93*	*68-117*			
Surrogate: Toluene-d8	*42*			*ug/L*	*50.0*		*83*	*67-127*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 2F22016 - EPA 5030B_MS

Matrix Spike (2F22016-MS1) Prepared: 06/22/2012 10:26 Analyzed: 06/25/2012 10:13

Source: C207582-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0	0.21 U	99	75-133			
Benzene	20		1.0	ug/L	20.0	0.15 U	98	81-134			
Chlorobenzene	19		1.0	ug/L	20.0	0.17 U	95	83-117			
Toluene	19		1.0	ug/L	20.0	0.14 U	95	71-118			
Trichloroethene	18		1.0	ug/L	20.0	0.15 U	91	74-119			
Surrogate: 4-Bromofluorobenzene	*44*			*ug/L*	*50.0*		*87*	*51-122*			
Surrogate: Dibromofluoromethane	*47*			*ug/L*	*50.0*		*94*	*68-117*			
Surrogate: Toluene-d8	*42*			*ug/L*	*50.0*		*84*	*67-127*			

Matrix Spike Dup (2F22016-MSD1) Prepared: 06/22/2012 10:26 Analyzed: 06/25/2012 10:42

Source: C207582-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	18		1.0	ug/L	20.0	0.21 U	92	75-133	8	20	
Benzene	18		1.0	ug/L	20.0	0.15 U	92	81-134	6	17	
Chlorobenzene	18		1.0	ug/L	20.0	0.17 U	91	83-117	5	16	
Toluene	17		1.0	ug/L	20.0	0.14 U	87	71-118	8	17	
Trichloroethene	17		1.0	ug/L	20.0	0.15 U	83	74-119	9	22	
Surrogate: 4-Bromofluorobenzene	*44*			*ug/L*	*50.0*		*89*	*51-122*			
Surrogate: Dibromofluoromethane	*47*			*ug/L*	*50.0*		*94*	*68-117*			
Surrogate: Toluene-d8	*43*			*ug/L*	*50.0*		*85*	*67-127*			

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
QL-02	The associated laboratory control sample exhibited high bias; since the result is ND, the impact on data quality is minimal.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD www.encolabs.com

10775 Central Port Dr. Orlando, FL 32824 (407) 826-5314 Fax (407) 850-6945
4810 Executive Park Court, Suite 111 Jacksonville, FL 32216-6069 (904) 296-3007 Fax (904) 296-6210
102-A Woodwinds Industrial Ct. Cary, NC 27511 (919) 467-3090 Fax (919) 467-3515

Page 1 of 1

Client Name: Duncklee & Dunham, PC (DU009)	Project Number: 201214
Address: 511 Keisler Drive, Suite 102	Project Name/Desc: Wilmington Materials
City/ST/Zip: Cary, NC 27518	PO # / Billing Info: 201214
Tel: (919) 858-9898 Fax: —	Reporting Contact: Rick Kolb
Sampler(s) Name, Affiliation (Print): Jayson Kilcoyne	Billing Contact: Rick Kolb
Sampler(s) Signature: [signature]	Site Location / Time Zone: Wilmington, NC

Requested Analyses: %Solids; 8260B; 6200B

Requested Turnaround Times: Note: Rush requests subject to acceptance by the facility
___ Standard
X Expedited See Comments
Due 6/22/12

Lab Workorder: C207387

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	%Solids	8260B	6200B	Sample Comments
	SS-10 6-8'	6/20/12	1015	Grab	SO	4	X	X		
	SS-11 1-2'		1430		SO	4	X	X		
	SS-12 1-2'		1440		SO	4	X	X		
	SS-13 1-2'		1450		SO	4	X	X		
	SS-14 1-2'		1500		SO	4	X	X		
	SS-15 1-2'		1510		SO	4	X	X		
	SS-16 1-2'		1520		SO	4	X	X		
	TW-4		1430		GW ~~SO~~	3*	*	*	X	
					~~SO~~	~~4~~	~~X~~	~~X~~		
					~~SO~~	~~4~~	~~X~~	X		
	Trip Blank				WA	2		X		

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
JK	6-19	[signature]	6/21/12	[signature]	6-21-12 1252
Comments/Special Reporting Requirements: * 24 Hr turnaround		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: C.705 4.6C		Condition Upon Receipt: X Acceptable ___ Unacceptable	

Matrix: GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments) Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note: All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

www.encolabs.com

Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515
www.encolabs.com

Thursday, June 28, 2012

Duncklee & Dunham, PC (DU009)

Attn: Rick Kolb

511 Keisler Drive, Suite 102

Cary, NC 27518

RE: Laboratory Results for
Project Number: 201214, Project Name/Desc: Wilmington Materials
ENCO Workorder(s): C207748

Dear Rick Kolb,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Tuesday, June 26, 2012.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chuck Smith

Chuck Smith

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 17.

www.encolabs.com

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: MW-2 | **Lab ID: C207748-01** | **Sampled: 06/26/12 14:30** | **Received: 06/26/12 18:15**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
SM21 6200B	07/10/12	06/27/12 07:28	6/27/2012 20:34

Client ID: MW-1 | **Lab ID: C207748-02** | **Sampled: 06/26/12 14:30** | **Received: 06/26/12 18:15**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
SM21 6200B	07/10/12	06/27/12 07:28	6/27/2012 21:03

Client ID: Trip Blank | **Lab ID: C207748-03** | **Sampled: 06/26/12 14:30** | **Received: 06/26/12 18:15**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
SM21 6200B	07/10/12	06/27/12 07:28	6/27/2012 21:32

www.encolabs.com

SAMPLE DETECTION SUMMARY

Client ID: MW-1 **Lab ID:** C207748-02

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Tetrachloroethene	6.0		0.099	1.0	ug/L	SM21 6200B	

www.encolabs.com

ANALYTICAL RESULTS

Description: MW-2
Matrix: Ground Water
Project: Wilmington Materials

Lab Sample ID: C207748-01
Sampled: 06/26/12 14:30
Sampled By: Ben Johnson

Received: 06/26/12 18:15
Work Order: C207748

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.091	U	ug/L	1	0.091	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
1,1-Dichloropropene [563-58-6] ^	0.063	U	ug/L	1	0.063	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.25	U	ug/L	1	0.25	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.097	U	ug/L	1	0.097	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.067	U	ug/L	1	0.067	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.10	U	ug/L	1	0.10	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.092	U	ug/L	1	0.092	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
1,3-Dichloropropane [142-28-9] ^	0.15	U	ug/L	1	0.15	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
2,2-Dichloropropane [594-20-7] ^	0.12	U	ug/L	1	0.12	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
2-Chlorotoluene [95-49-8] ^	0.10	U	ug/L	1	0.10	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
4-Chlorotoluene [106-43-4] ^	0.10	U	ug/L	1	0.10	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
4-Isopropyltoluene [99-87-6] ^	0.066	U	ug/L	1	0.066	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
Bromobenzene [108-86-1] ^	0.13	U	ug/L	1	0.13	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
Carbon Tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.091	U	ug/L	1	0.091	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
Freon 113 [76-13-1] ^	0.35	U	ug/L	1	0.35	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
Hexachlorobutadiene [87-68-3] ^	0.15	U	ug/L	1	0.15	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
Isopropyl Ether [108-20-3] ^	0.21	U	ug/L	1	0.21	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
Isopropylbenzene [98-82-8] ^	0.13	U	ug/L	1	0.13	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.18	U	ug/L	1	0.18	2.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
Methylene Chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	2.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.12	U	ug/L	1	0.12	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	

www.encolabs.com

Description: MW-2
Matrix: Ground Water
Project: Wilmington Materials

Lab Sample ID: C207748-01
Sampled: 06/26/12 14:30
Sampled By: Ben Johnson

Received: 06/26/12 18:15
Work Order: C207748

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Naphthalene [91-20-3] ^	0.086	U	ug/L	1	0.086	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
n-Butyl Benzene [104-51-8] ^	0.074	U	ug/L	1	0.074	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
n-Propyl Benzene [103-65-1] ^	0.073	U	ug/L	1	0.073	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
o-Xylene [95-47-6] ^	0.088	U	ug/L	1	0.088	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
sec-Butylbenzene [135-98-8] ^	0.053	U	ug/L	1	0.053	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
tert-Butylbenzene [98-06-6] ^	0.094	U	ug/L	1	0.094	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	2F26001	SM21 6200B	06/27/12 20:34	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*51*	*1*	*50.0*	*101 %*	*51-122*	*2F26001*	*SM21 6200B*	*06/27/12 20:34*	*JKG*	
Dibromofluoromethane	*50*	*1*	*50.0*	*100 %*	*68-117*	*2F26001*	*SM21 6200B*	*06/27/12 20:34*	*JKG*	
Toluene-d8	*49*	*1*	*50.0*	*97 %*	*67-127*	*2F26001*	*SM21 6200B*	*06/27/12 20:34*	*JKG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: MW-1
Matrix: Ground Water
Project: Wilmington Materials

Lab Sample ID: C207748-02
Sampled: 06/26/12 14:30
Sampled By: Ben Johnson

Received: 06/26/12 18:15
Work Order: C207748

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.091	U	ug/L	1	0.091	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
1,1-Dichloropropene [563-58-6] ^	0.063	U	ug/L	1	0.063	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.25	U	ug/L	1	0.25	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.097	U	ug/L	1	0.097	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.067	U	ug/L	1	0.067	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.10	U	ug/L	1	0.10	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.092	U	ug/L	1	0.092	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
1,3-Dichloropropane [142-28-9] ^	0.15	U	ug/L	1	0.15	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
2,2-Dichloropropane [594-20-7] ^	0.12	U	ug/L	1	0.12	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
2-Chlorotoluene [95-49-8] ^	0.10	U	ug/L	1	0.10	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
4-Chlorotoluene [106-43-4] ^	0.10	U	ug/L	1	0.10	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
4-Isopropyltoluene [99-87-6] ^	0.066	U	ug/L	1	0.066	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
Bromobenzene [108-86-1] ^	0.13	U	ug/L	1	0.13	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
Carbon Tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.091	U	ug/L	1	0.091	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
Freon 113 [76-13-1] ^	0.35	U	ug/L	1	0.35	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
Hexachlorobutadiene [87-68-3] ^	0.15	U	ug/L	1	0.15	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
Isopropyl Ether [108-20-3] ^	0.21	U	ug/L	1	0.21	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
Isopropylbenzene [98-82-8] ^	0.13	U	ug/L	1	0.13	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.18	U	ug/L	1	0.18	2.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
Methylene Chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	2.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.12	U	ug/L	1	0.12	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
Naphthalene [91-20-3] ^	0.086	U	ug/L	1	0.086	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
n-Butyl Benzene [104-51-8] ^	0.074	U	ug/L	1	0.074	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
n-Propyl Benzene [103-65-1] ^	0.073	U	ug/L	1	0.073	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	

www.encolabs.com

Description: MW-1
Matrix: Ground Water
Project: Wilmington Materials

Lab Sample ID: C207748-02
Sampled: 06/26/12 14:30
Sampled By: Ben Johnson

Received: 06/26/12 18:15
Work Order: C207748

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
o-Xylene [95-47-6] ^	0.088	U	ug/L	1	0.088	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
sec-Butylbenzene [135-98-8] ^	0.053	U	ug/L	1	0.053	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
tert-Butylbenzene [98-06-6] ^	0.094	U	ug/L	1	0.094	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
Tetrachloroethene [127-18-4] ^	**6.0**		ug/L	1	0.099	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	2F26001	SM21 6200B	06/27/12 21:03	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*50*	*1*	*50.0*	*100 %*	*51-122*	*2F26001*	*SM21 6200B*	*06/27/12 21:03*	*JKG*	
Dibromofluoromethane	*49*	*1*	*50.0*	*99 %*	*68-117*	*2F26001*	*SM21 6200B*	*06/27/12 21:03*	*JKG*	
Toluene-d8	*50*	*1*	*50.0*	*101 %*	*67-127*	*2F26001*	*SM21 6200B*	*06/27/12 21:03*	*JKG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: Trip Blank
Matrix: Water
Project: Wilmington Materials

Lab Sample ID: C207748-03
Sampled: 06/26/12 14:30
Sampled By: enco

Received: 06/26/12 18:15
Work Order: C207748

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.091	U	ug/L	1	0.091	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
1,1-Dichloropropene [563-58-6] ^	0.063	U	ug/L	1	0.063	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.25	U	ug/L	1	0.25	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.097	U	ug/L	1	0.097	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.067	U	ug/L	1	0.067	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.10	U	ug/L	1	0.10	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.092	U	ug/L	1	0.092	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
1,3-Dichloropropane [142-28-9] ^	0.15	U	ug/L	1	0.15	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
2,2-Dichloropropane [594-20-7] ^	0.12	U	ug/L	1	0.12	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
2-Chlorotoluene [95-49-8] ^	0.10	U	ug/L	1	0.10	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
4-Chlorotoluene [106-43-4] ^	0.10	U	ug/L	1	0.10	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
4-Isopropyltoluene [99-87-6] ^	0.066	U	ug/L	1	0.066	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
Bromobenzene [108-86-1] ^	0.13	U	ug/L	1	0.13	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
Carbon Tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.091	U	ug/L	1	0.091	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
Freon 113 [76-13-1] ^	0.35	U	ug/L	1	0.35	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
Hexachlorobutadiene [87-68-3] ^	0.15	U	ug/L	1	0.15	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
Isopropyl Ether [108-20-3] ^	0.21	U	ug/L	1	0.21	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
Isopropylbenzene [98-82-8] ^	0.13	U	ug/L	1	0.13	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.18	U	ug/L	1	0.18	2.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
Methylene Chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	2.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.12	U	ug/L	1	0.12	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
Naphthalene [91-20-3] ^	0.086	U	ug/L	1	0.086	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
n-Butyl Benzene [104-51-8] ^	0.074	U	ug/L	1	0.074	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
n-Propyl Benzene [103-65-1] ^	0.073	U	ug/L	1	0.073	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	

www.encolabs.com

Description: Trip Blank
Matrix: Water
Project: Wilmington Materials

Lab Sample ID: C207748-03
Sampled: 06/26/12 14:30
Sampled By: enco

Received: 06/26/12 18:15
Work Order: C207748

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
o-Xylene [95-47-6] ^	0.088	U	ug/L	1	0.088	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
sec-Butylbenzene [135-98-8] ^	0.053	U	ug/L	1	0.053	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
tert-Butylbenzene [98-06-6] ^	0.094	U	ug/L	1	0.094	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	2F26001	SM21 6200B	06/27/12 21:32	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**
4-Bromofluorobenzene	*51*	*1*	*50.0*	*102 %*	*51-122*	*2F26001*	*SM21 6200B*	*06/27/12 21:32*	*JKG*	
Dibromofluoromethane	*48*	*1*	*50.0*	*96 %*	*68-117*	*2F26001*	*SM21 6200B*	*06/27/12 21:32*	*JKG*	
Toluene-d8	*52*	*1*	*50.0*	*104 %*	*67-127*	*2F26001*	*SM21 6200B*	*06/27/12 21:32*	*JKG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD www.encolabs.com

10775 Central Port Dr. Orlando, FL 32824 (407) 826-5314 Fax (407) 850-6945
4810 Executive Park Court, Suite 111 Jacksonville, FL 32216-6099 (904) 296-3007 Fax (904) 296-6210
102-A Woodwinds Industrial Ct. Cary, NC 27511 (919) 467-3090 Fax (919) 467-3515

Page 1 of 1

Client Name	Duncklee & Dunham, PC (DU009)
Address	511 Keisler Drive, Suite 102
City/ST/Zip	Cary, NC 27518
Tel	(919) 858-9898
Fax	
Sampler(s) Name, Affiliation (Print)	Ben Johnson, Duncklee & Dunham
Sampler(s) Signature	[signature]
Project Number	201214
Project Name/Desc	Wilmington Materials
PO # / Billing Info	
Reporting Contact	Rick Kolb
Billing Contact	Rick Kolb
Site Location / Time Zone	Wilmington, NC

Requested Analyses: 8260B

Requested Turnaround Times
Note: Rush requests subject to acceptance by the facility
___ Standard
✓ Expedited 24 hour
Due 6/27/12

Lab Workorder: C207748

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B	Sample Comments
1	MW-2	6-26-12	1430	Grab	GW	3	X	
2	MW-1	6-26-12	1520	Grab	GW	3	X	
					GW	3	X	
	Trip Blank				WA	2	X	

Preservation (See Codes) (Combine as necessary)

<- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
		[signature]	6-26-12 1800	Richard Abott	6/26/12 1800
Comments/Special Reporting Requirements		Richard Abott	6/26/12 1815	[signature]	6/26/12 1815
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: 1.1c		Condition Upon Receipt: ✓ Acceptable ___ Unacceptable	

Matrix: GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments) Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note: All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist.

www.encolabs.com